County of Monterey

Board of Supervisors Chambers
168 W. Alisal St., 1st Floor
Salinas, CA 93901

Meeting Agenda - Final

Friday, October 10, 2025

12:00 PM

50+ page Advance Reports for the Board of Supervisors meeting on Tuesday, October 21, 2025.

Advance Reports Over 50 Pages

The following reports are scheduled for the Board of Supervisors meeting on Tuesday, October 21, 2025. The reports are being distributed 11 + days prior to the Board of Supervisors meeting due to the large volume of information. These reports are not numbered at this time.

Natividad Medical Center - Consent

Authorize the Chief Executive Officer for Natividad Medical Center (NMC) or his designee to execute amendment No. 1 to the agreement with Hammel, Green and Abrahamson, Inc. (A-15729) 19six Architects (A-15730), Cedarblade Consulting (A-15731), Kasavan Architects (A-15732), and Wald, Ruhnke & Dost Architects, LLP (A-15733) for architectural services, pursuant to the Request for Qualifications (RFQ) #9600-86, adding $5,000,000 for a revised total aggregate amount not to exceed $10,000,000 with no change to the Agreement term of February 1, 2022 through January 31, 2027.

Attachments:
Board Report
Hammel Green and Abrahamson Inc. Amendment No. 1
19six Architects Amendment No. 1
Cedarblade Consulting Amendment No. 1
Kasavan Architects Amendment No. 1
Wald, Ruhnke & Dost Architects, LLP Amendment No. 1
Hammel, Green, Abrahamson (HGA) Agreement
19six Architects Agreement
Cedarblade Consulting Agreement
Kasavan Architects Inc. Agreement
Wald, Ruhnke, Dost Architects LLP Agreement

a. Authorize the Chief Executive Officer (CEO) for Natividad Medical Center (NMC) or his designee to execute the Third Amendment to the Professional and Call Coverage Services Agreement with Katharina Pellegrin, MD Inc. to provide general and critical care surgical services, extending the term by 12 months (July 1, 2026 to June 30, 2027) for a revised full agreement term of October 1, 2021 to June 30, 2027 and adding $200,000 for a revised not to exceed amount of $400,000 in the aggregate; and
b. Authorize the CEO or his designee to sign up to three (3) future amendments to this agreement where the total amendments do not significantly change the scope of work, do not cause an increase of more than 10% ($10,000) of the original contract amount and do not increase the total contract amount above $410,000.

Attachments:
Board Report
Katharina Pellegrin MD Amednment No. 3
Katharina Pellegrin MD Amendment No. 2
Katharina Pellegrin MD Amendment No. 1
Katharina Pellegrin MD Agreement

a. Authorize the Chief Executive Officer (CEO) for Natividad Medical Center (NMC) or his designee to execute the Professional and Call Coverage Services Agreement with ATP Partners of California, P.C. to provide neurology services for the period November 1, 2025 to December 31, 2028 for an amount not to exceed $1,500,000 in the aggregate; and
b. Authorize the CEO for NMC or his designee to sign up to three (3) future amendments to this Agreement where the total amendments do not significantly change the scope of work, do not exceed 10% ($150,000) of the original contract amount and do not increase the total contract amount above $1,500,000; and
c. Approve the NMC's Chief Executive Officer's recommendation to accept non-standard indemnification, insurance, limitations on liability, and limitations on damages provisions within the agreement.

Attachments: Board Report
ATP Partners Agreement

a. Authorize the Chief Executive Officer (CEO) for Natividad Medical Center (NMC) or his designee to execute the Fourth Amendment to the Professional Services Agreement (A-14569) with Victoria Chew, M.D. to provide family medicine services, extending the term by twenty-four months (January 1, 2026 to December 31, 2027) for a revised full agreement term of November 1, 2018 to December 31, 2027, and adding $200,000 for a revised total agreement amount not to exceed $600,000 in the aggregate; and
b. Authorize the CEO for NMC or his designee to sign up to three (3) future amendments to this Agreement where the total amendments do not significantly change the scope of work, do not exceed 10% ($10,000) of the original contract amount and do not increase the total contract amount above $610,000.

Attachments: Board Report
Victoria Chew MD Fourth Amendment
Victoria Chew MD Third Amendment
Victoria Chew MD Second Amendment
Victoria Chew MD First Amendment
Victoria Chew MD Agreement

a. Approve the Plans and Specifications for the Natividad Medical Center, Project #9600-55 Medical -Surgical 3 Renovation, Bid #NMC-1014 for contractors to bid on construction; and

b. Authorize Natividad Medical Center to advertise the "Notice to Contractors" in a newspaper of general circulation.

Attachments: Board Report
Plans_S240593-27-00 - Medsurg 3 Refresh
Spec S240593-27-00 - Medsurg 3 Refresh
Project Manual - Medsurg 3 Refresh
Proposed Phasing Diagram - Medsurg 3 Refresh

Public Works and Facilities - Consent

a. Approve and authorize the Chief Contracts and Procurement Officer or designee to execute a Non-Standard Agreement with PSD Citywide (US) Inc., to provide Computerized Maintenance Management Software and Implementation for the Public Works, Facilities and Parks Department procured under Request for Proposal #10936, for an initial five-year term from October 15, 2025 to October 14, 2030, for an amount not to exceed $1,000,000;
b. Approve non-standard assignment and subcontracting, indemnification and software agreement provisions as recommended by the Director of Public Works, Facilities and Parks;
c. Authorize the Chief Contracts and Procurement Officer or designee to execute this Agreement and up to three (3) additional amendments to this Agreement, each extending the term by one year, where the amendments do not significantly alter the scope of work or non-standard provisions of the Agreement and where the additional costs of the Amendments in aggregate do not exceed 10 percent (10% or $100,000) of the original contract amount of $1,000,000, bringing the potential overall Agreement aggregate not to exceed amount to $1,100,000 even if no additional Agreements are entered into, subject to prior review and approval as to form by the Office of the County Counsel-Risk Management, and review of fiscal provisions by the Auditor Controller's Office.

Attachments: Board Report
Attachment A - PSD Citywide (US) Inc. Agreement

Adopt a resolution to:
a. Approve and authorize the Director of the Public Works, Facilities and Parks (PWFP) Department or designee to execute a Right of Entry and Indemnification Agreement (Agreement) between the County of Monterey (County) and Esperanza Carmel, Commercial LLC, (User) for County owned Assessor's Parcel Number (APN) 243-262-003 (the Property), located off Highway 1 in the unincorporated area of Big Sur, to allow access to complete restoration and remediation activities on the Property related to California Coastal Commission Consent Cease and Desist Order (CCC-24-CD-02); and
b. Approve and authorize the Director of the Public Works, Facilities and Parks (PWFP) Department or designee to execute any future Right of Entry and Indemnification Agreements or related Right of Entry documents for County owned real property and right-of-ways, subject to the review and approval of the Office of the County Counsel-Risk Management.

Attachments:
Board Report
Attachment A - Location Map
Attachment B - Right of Entry and Indemnification Agreement
Attachment C - Board Resolution
Attachment C - Board Resolution

Introduced: 9/23/2025

Current Status: Natividad Medical Center - Consent

Version: 1

Matter Type: BoS Agreement

Authorize the Chief Executive Officer for Natividad Medical Center (NMC) or his designee to execute amendment No. 1 to the agreement with Hammel, Green and Abrahamson, Inc. (A-15729) 19six Architects (A-15730), Cedarblade Consulting (A-15731), Kasavan Architects (A-15732), and Wald, Ruhnke & Dost Architects, LLP (A-15733) for architectural services, pursuant to the Request for Qualifications (RFQ) #9600-86, adding $5,000,000 for a revised total aggregate amount not to exceed $10,000,000 with no change to the Agreement term of February 1, 2022 through January 31, 2027.

RECOMMENDATION:

It is recommended the Board of Supervisors:

Authorize the Chief Executive Officer for Natividad Medical Center (NMC) or his designee to execute amendment No. 1 to the agreement with Hammel, Green and Abrahamson, Inc. (A-15729) 19six Architects (A-15730), Cedarblade Consulting (A-15731), Kasavan Architects (A-15732), and Wald, Ruhnke & Dost Architects, LLP (A-15733) for architectural services, pursuant to the Request for Qualifications (RFQ) #9600-86, adding $5,000,000 for a revised total aggregate amount not to exceed $10,000,000 with no change to the Agreement term of February 1, 2022 through January 31, 2027.

SUMMARY:

The Projects Department at Natividad Medical Center (NMC) is responsible for managing architectural services to develop detailed plans and specifications for a wide range of projects. These projects vary in scope and include new construction, facility design, and both major and minor tenant improvement (TI) work for clinics and hospital buildings.

DISCUSSION:

The Request for Qualifications (RFQ) #9600-86 for architectural services was issued on September 17, 2021. In response, Natividad Medical Center (NMC) received five (5) Statements of Qualifications (SOQ) packages. After a thorough review and evaluation by staff, all five submitting firms were selected based on their qualifications:

- Hammel, Green and Abrahamson, Inc.
- 19six Architects

- Cedarblade Consulting
- Kasavan Architects
- Wald, Ruhnke & Dost Architects, LLP

NMC entered into five-year Master Agreements with each of these qualified firms. These agreements allow NMC to retain professional architectural services on an as-needed basis for both small- and large-scale building improvement projects, including new construction and tenant improvements. There is no fixed monetary threshold limiting the scope of work under these agreements; they apply to projects valued both under and over $100,000. It is important to note that inclusion in a Master Agreement does not guarantee the award of any specific project. NMC is requesting to increase the total contract capacity by an additional $5,000,000, resulting in a revised aggregate not-to-exceed amount of $10,000,000. This increase does not alter the original term of the agreements.

OTHER AGENCY INVOLVEMENT:

The Office of County Counsel has reviewed and approved this amendment No. 1 as to form, and the Auditor-Controller has reviewed and approved as to payment provisions. The amendment No. 1 has also been reviewed and approved by NMC's Finance Committee and by its Board of Trustees on August 8, 2025.

FINANCING:

The aggregate cost for these Amendments is $5,000,000, of which $1,000,000 was included in the Adopted Budget for FY25-26. Amounts for remaining years of the Agreement will be included in those budgets as appropriate. There is no impact on the General Fund with this action.

BOARD OF SUPERVISORS STRATEGIC PLAN GOALS SECTION:

The strategic goals of architectural services are designed to align facilities development with the organization's long-term vision, operational needs, and community impact. These goals support the planning, design, and execution of safe, functional, and sustainable built environments.

X Well-Being and Quality of Life
X Sustainable Infrastructure for Present and Future
__Safe and Resilient Communities
__Diverse and Thriving Economy
__ Administrative

Prepared by: Brian Griffin, Project Manager, 783-2605
Approved by: Charles R. Harris, DO, Interim Chief Executive Officer, 783-2553

Attachments:
Board Report
Hammel, Green, and Abrahamson, Inc. Amendment No. 1
19six Architects Amendment No. 1
Cedarblade Consulting Amendment No. 1
Kasavan Architects Amendment No. 1

Wald, Ruhnke & Dost Architects, LLP Amendment No. 1
Hammel, Green, and Abrahamson, Inc. Agreement
19six Architects Agreement
Cedarblade Consulting Agreement
Kasavan Architects Agreement
Wald, Ruhnke & Dost Architects, LLP Agreement

Attachments on file with the Clerk of the Board

Introduced: 9/23/2025
Version: 1

Current Status: Agenda Ready
Matter Type: BoS Agreement

Authorize the Chief Executive Officer for Natividad Medical Center (NMC) or his designee to execute amendment No. 1 to the agreement with Hammel, Green and Abrahamson, Inc. (A-15729) 19six Architects (A-15730), Cedarblade Consulting (A-15731), Kasavan Architects (A-15732), and Wald, Ruhnke & Dost Architects, LLP (A-15733) for architectural services, pursuant to the Request for Qualifications (RFQ) #9600-86, adding $5,000,000 for a revised total aggregate amount not to exceed $10,000,000 with no change to the Agreement term of February 1, 2022 through January 31, 2027.

RECOMMENDATION:

It is recommended the Board of Supervisors:

Authorize the Chief Executive Officer for Natividad Medical Center (NMC) or his designee to execute amendment No. 1 to the agreement with Hammel, Green and Abrahamson, Inc. (A-15729) 19six Architects (A-15730), Cedarblade Consulting (A-15731), Kasavan Architects (A-15732), and Wald, Ruhnke & Dost Architects, LLP (A-15733) for architectural services, pursuant to the Request for Qualifications (RFQ) #9600-86, adding $5,000,000 for a revised total aggregate amount not to exceed $10,000,000 with no change to the Agreement term of February 1, 2022 through January 31, 2027.

SUMMARY:

The Projects Department at Natividad Medical Center (NMC) is responsible for managing architectural services to develop detailed plans and specifications for a wide range of projects. These projects vary in scope and include new construction, facility design, and both major and minor tenant improvement (TI) work for clinics and hospital buildings.

DISCUSSION:

The Request for Qualifications (RFQ) #9600-86 for architectural services was issued on September 17, 2021. In response, Natividad Medical Center (NMC) received five (5) Statements of Qualifications (SOQ) packages. After a thorough review and evaluation by staff, all five submitting firms were selected based on their qualifications:

- Hammel, Green and Abrahamson, Inc.
- 19six Architects
- Cedarblade Consulting
- Kasavan Architects
- Wald, Ruhnke & Dost Architects, LLP

NMC entered into five-year Master Agreements with each of these qualified firms. These agreements allow NMC to retain professional architectural services on an as-needed basis for both small- and large-scale building improvement projects, including new construction and tenant improvements.
There is no fixed monetary threshold limiting the scope of work under these agreements; they apply to projects valued both under and over $100,000. It is important to note that inclusion in a Master Agreement does not guarantee the award of any specific project. NMC is requesting to increase the total contract capacity by an additional $5,000,000, resulting in a revised aggregate not-to-exceed amount of $10,000,000. This increase does not alter the original term of the agreements.

OTHER AGENCY INVOLVEMENT:

The Office of County Counsel has reviewed and approved this amendment No. 1 as to form, and the Auditor-Controller has reviewed and approved as to payment provisions. The amendment No. 1 has also been reviewed and approved by NMC's Finance Committee and by its Board of Trustees on August 8, 2025.

FINANCING:

The aggregate cost for these Amendments is $5,000,000, of which $1,000,000 was included in the Adopted Budget for FY25-26. Amounts for remaining years of the Agreement will be included in those budgets as appropriate. There is no impact on the General Fund with this action.

BOARD OF SUPERVISORS STRATEGIC PLAN GOALS SECTION:
The strategic goals of architectural services are designed to align facilities development with the organization's long-term vision, operational needs, and community impact. These goals support the planning, design, and execution of safe, functional, and sustainable built environments.

X Well-Being and Quality of Life
X Sustainable Infrastructure for Present and Future
__Safe and Resilient Communities
__Diverse and Thriving Economy
__ Administrative

Prepared by: Brian Griffin, Project Manager, 783-2605
Approved by: Charles R. Harris, DO, Interim Chief Executive Officer, 783-2553

Attachments:
Board Report
Hammel, Green, and Abrahamson, Inc. Amendment No. 1
19six Architects Amendment No. 1
Cedarblade Consulting Amendment No. 1
Kasavan Architects Amendment No. 1
Wald, Ruhnke & Dost Architects, LLP Amendment No. 1
Hammel, Green, and Abrahamson, Inc. Agreement

19six Architects Agreement
Cedarblade Consulting Agreement
Kasavan Architects Agreement
Wald, Ruhnke & Dost Architects, LLP Agreement

Attachments on file with the Clerk of the Board

Docusign Envelope ID: A29EB7E2-2B95-49DA-AE91-BE731F6B65B7

AMENDMENT NO. 1
TO SERVICES AGREEMENT
BETWEEN HAMMEL, GREEN, AND ABRAHAMSON, INC. AND
THE COUNTY OF MONTEREY ON BEHALF OF NATIVIDAD MEDICAL CENTER
FOR
ARCHITECTURAL SERVICES

This Amendment No. 1 to the Services Agreement ("Agreement") which was effective on March 25, 2022 is entered into by and between the County of Monterey, on behalf of Natividad Medical Center ("NMC"), and Hammel, Green, and Abrahamson, Inc. ("CONTRACTOR"); **From this point forward, the party referenced previously as "NMC" shall be referenced as "COUNTY" and collectively, COUNTY and CONTRACTOR are referred to as the "Parties" to this Agreement, with respect to the following:**

RECITALS

WHEREAS, the Agreement was executed for Architectural Services pursuant to RFQ #9600-86 with a term February 1, 2022 through January 31, 2027 and a total aggregate amount for all Agreements not to exceed $5,000,000; and

WHEREAS, COUNTY and CONTRACTOR currently wish to amend the Agreement to add an additional $5,000,000 for a revised total aggregate amount not to exceed $10,000,000 with no changes to the Agreement term of February 1, 2022 through January 31, 2027 or scope of services.

AGREEMENT

NOW, THEREFORE, the Parties agree to amend the Agreement as follows:

The Agreement is hereby renewed on the terms and conditions as set forth in the Original Agreement incorporated herein by this reference, except as specifically set forth below.

1. Section 5.0 under, "COMPENSATION AND PAYMENTS" shall be amended to the following: ***"There is no specific dollar amount associated with the Agreement(s) awarded per RFQ #9600-86. Services are on an as-needed basis and shall be authorized by NMC only upon mutual agreement of CONTRACTORS project proposal. Project proposals will be requested as needed and are subject to negotiations. The total amount payable by*** **COUNTY** ***to CONTRACTOR under this Agreement shall not exceed the sum of $10,000,000."***

2. Except as provided herein, all remaining terms, conditions and provisions of the Agreement are unchanged and unaffected by this Amendment No. 1 and shall continue in full force and effect as set forth in the Agreement.

3. A copy of this Amendment No. 1 shall be attached to the Agreement.

4. This Amendment No. 1 shall be effective when both parties have signed.

Docusign Envelope ID: A29EB7E2-2B95-49DA-AE91-BE731F6B65B7

IN WITNESS WHEREOF, the Parties hereto are in agreement with this Amendment No. 1 on the basis set forth in this document and have executed this Amendment No. 1 on the day and year set forth herein.

COUNTY OF MONTEREY on behalf of NATIVIDAD MEDICAL CENTER

By: _____
Charles R. Harris, CEO

Date: _____

APPROVED AS TO LEGAL PROVISIONS

By: Signed by: Stacy Saetta 696D21D44C4341D...
Monterey County Deputy County Counsel

Date: 9/18/2025 | 8:27 AM PDT

APPROVED AS TO FISCAL PROVISIONS

By: DocuSigned by: Patricia Ruiz E79EF64E57454F6...
Monterey County Deputy Auditor/Controller

Date: 9/19/2025 | 10:04 AM PDT

CONTRACTOR

Hammel, Green, and Abrahamson, Inc.
CONTRACTOR's Business Name
See instructions below

By: Signed by: Kevin Day 6B230F416EC04CF...
(Signature of: Chair, President, or Vice-President)

Kevin Day, Vice President
Name and Title

Date: 9/10/2025

By: DocuSigned by: Adam Pepple 5612CE7D5E184F4...
(Signature of: Secretary, Asst. Secretary, CFO, Treasurer, or Asst. Treasurer)

Adam Pepple, Director of Finance (Interim CFO)
Name and Title

Date: 9/10/2025

Instructions

If CONTRACTOR is a corporation; including limited liability and non-profit corporations, the full legal name of the corporation shall be set forth above together with the signatures of two specified officers (two signatures required).

If CONTRACTOR is a partnership; the name of the partnership shall be set forth above together with the signature of a partner who has authority to execute this Agreement on behalf of the partnership (two signatures required).

If CONTRACTOR is contracting in an individual capacity, the individual shall set forth the name of the business, if any and shall personally sign the Agreement (one signature required).

Docusign Envelope ID: A29EB7E2-2B95-49DA-AE91-BE731F6B65B7

AMENDMENT NO. 1
TO SERVICES AGREEMENT
BETWEEN 19SIX ACRHITECTS AND
THE COUNTY OF MONTEREY ON BEHALF OF NATIVIDAD MEDICAL CENTER
FOR
ARCHITECTURAL SERVICES

This Amendment No. 1 to the Services Agreement ("Agreement") which was effective on March 25, 2022 is entered into by and between the County of Monterey, on behalf of Natividad Medical Center ("NMC"), and 19six Architects ("CONTRACTOR"); **From this point forward, the party referenced previously as "NMC" shall be referenced as "COUNTY" and collectively, COUNTY and CONTRACTOR are referred to as the "Parties" to this Agreement, with respect to the following:**

RECITALS

WHEREAS, the Agreement was executed for Architectural Services pursuant to RFQ #9600-86 with a term February 1, 2022 through January 31, 2027 and a total aggregate amount for all Agreements not to exceed $5,000,000; and

WHEREAS, COUNTY and CONTRACTOR currently wish to amend the Agreement to add an additional $5,000,000 for a revised total aggregate amount not to exceed $10,000,000 with no changes to the Agreement term of February 1, 2022 through January 31, 2027 or scope of services.

AGREEMENT

NOW, THEREFORE, the Parties agree to amend the Agreement as follows:

The Agreement is hereby renewed on the terms and conditions as set forth in the Original Agreement incorporated herein by this reference, except as specifically set forth below.

1. Section 5.0 under, "COMPENSATION AND PAYMENTS" shall be amended to the following: ***"There is no specific dollar amount associated with the Agreement(s) awarded per RFQ #9600-86. Services are on an as-needed basis and shall be authorized by NMC only upon mutual agreement of CONTRACTORS project proposal. Project proposals will be requested as needed and are subject to negotiations. The total amount payable by*** **COUNTY** ***to CONTRACTOR under this Agreement shall not exceed the sum of $10,000,000."***

2. Except as provided herein, all remaining terms, conditions and provisions of the Agreement are unchanged and unaffected by this Amendment No. 1 and shall continue in full force and effect as set forth in the Agreement.

3. A copy of this Amendment No. 1 shall be attached to the Agreement.

4. This Amendment No. 1 shall be effective when both parties have signed.

Docusign Envelope ID: A29EB7E2-2B95-49DA-AE91-BE731F6B65B7

IN WITNESS WHEREOF, the Parties hereto are in agreement with this Amendment No. 1 on the basis set forth in this document and have executed this Amendment No. 1 on the day and year set forth herein.

COUNTY OF MONTEREY on behalf of NATIVIDAD MEDICAL CENTER

By: _____
Charles R. Harris, CEO

Date: _____

APPROVED AS TO LEGAL PROVISIONS

By: Signed by: Stacy Saetta 696D21D44C4341D...
Monterey County Deputy County Counsel

Date: 9/18/2025 | 8:27 AM PDT

APPROVED AS TO FISCAL PROVISIONS

By: DocuSigned by: Patricia Ruiz E79EF64E57454F6...
Monterey County Deputy Auditor/Controller

Date: 9/19/2025 | 10:04 AM PDT

CONTRACTOR

19SIX ARCHITECTS
CONTRACTOR's Business Name
See instructions below

By: DocuSigned by: D62AA079F3D3425...
(Signature of: Chair, President, or Vice-President)

Alan Kroeker President
Name and Title

Date: 7/21/2025 | 8:11 AM PDT

By: Signed by: Jon Ornellas 78B47694758940C...
(Signature of: Secretary, Asst. Secretary, CFO, Treasurer, or Asst. Treasurer)

Jon Ornellas Project Accounting Manager
Name and Title

Date: 7/21/2025 | 8:35 AM PDT

Instructions

If CONTRACTOR is a corporation; including limited liability and non-profit corporations, the full legal name of the corporation shall be set forth above together with the signatures of two specified officers (two signatures required).

If CONTRACTOR is a partnership; the name of the partnership shall be set forth above together with the signature of a partner who has authority to execute this Agreement on behalf of the partnership (two signatures required).

If CONTRACTOR is contracting in an individual capacity, the individual shall set forth the name of the business, if any and shall personally sign the Agreement (one signature required).

Docusign Envelope ID: A29EB7E2-2B95-49DA-AE91-BE731F6B65B7

AMENDMENT NO. 1
TO SERVICES AGREEMENT
BETWEEN CEDARBLADE CONSULTING AND
THE COUNTY OF MONTEREY ON BEHALF OF NATIVIDAD MEDICAL CENTER
FOR
ARCHITECTURAL SERVICES

This Amendment No. 1 to the Services Agreement ("Agreement") which was effective on March 25, 2022 is entered into by and between the County of Monterey, on behalf of Natividad Medical Center ("NMC"), and Cedarblade Consulting ("CONTRACTOR"); **From this point forward, the party referenced previously as "NMC" shall be referenced as "COUNTY" and collectively, COUNTY and CONTRACTOR are referred to as the "Parties" to this Agreement, with respect to the following:**

RECITALS

WHEREAS, the Agreement was executed for Architectural Services pursuant to RFQ #9600-86 with a term February 1, 2022 through January 31, 2027 and a total aggregate amount for all Agreements not to exceed $5,000,000; and

WHEREAS, COUNTY and CONTRACTOR currently wish to amend the Agreement to add an additional $5,000,000 for a revised total aggregate amount not to exceed $10,000,000 with no changes to the Agreement term of February 1, 2022 through January 31, 2027 or scope of services.

AGREEMENT

NOW, THEREFORE, the Parties agree to amend the Agreement as follows:

The Agreement is hereby renewed on the terms and conditions as set forth in the Original Agreement incorporated herein by this reference, except as specifically set forth below.

1. Section 5.0 under, "COMPENSATION AND PAYMENTS" shall be amended to the following: ***"There is no specific dollar amount associated with the Agreement(s) awarded per RFQ #9600-86. Services are on an as-needed basis and shall be authorized by NMC only upon mutual agreement of CONTRACTORS project proposal. Project proposals will be requested as needed and are subject to negotiations. The total amount payable by*** **COUNTY** ***to CONTRACTOR under this Agreement shall not exceed the sum of $10,000,000."***

2. Except as provided herein, all remaining terms, conditions and provisions of the Agreement are unchanged and unaffected by this Amendment No. 1 and shall continue in full force and effect as set forth in the Agreement.

3. A copy of this Amendment No. 1 shall be attached to the Agreement.

4. This Amendment No. 1 shall be effective when both parties have signed.

Docusign Envelope ID: A29EB7E2-2B95-49DA-AE91-BE731F6B65B7

IN WITNESS WHEREOF, the Parties hereto are in agreement with this Amendment No. 1 on the basis set forth in this document and have executed this Amendment No. 1 on the day and year set forth herein.

COUNTY OF MONTEREY on behalf of NATIVIDAD MEDICAL CENTER

By: _____
Charles R. Harris, CEO

Date: _____

APPROVED AS TO LEGAL PROVISIONS

By: Signed by: Stacy Saetta 696D21D44C4341D...
Monterey County Deputy County Counsel

Date: 9/18/2025 | 8:27 AM PDT

APPROVED AS TO FISCAL PROVISIONS

By: DocuSigned by: Patricia Ruiz E79EF64E57454F6...
Monterey County Deputy Auditor/Controller

Date: 9/19/2025 | 10:04 AM PDT

CONTRACTOR

Cedarblade Consulting
CONTRACTOR's Business Name
See instructions below

By: DocuSigned by: Frank Cedarblade 943B23E8A07A4E2...
(Signature of: Chair, President, or Vice-President)

Frank Cedarblade Principal Architect
Name and Title

Date: 7/11/2025 | 10:43 AM PDT

By: DocuSigned by: Frank Cedarblade 943B23E8A07A4E2...
(Signature of: Secretary, Asst. Secretary, CFO, Treasurer, or Asst. Treasurer)

Frank Cedarblade Principal Architect
Name and Title

Date: 7/11/2025 | 10:43 AM PDT

Instructions

If CONTRACTOR is a corporation; including limited liability and non-profit corporations, the full legal name of the corporation shall be set forth above together with the signatures of two specified officers (two signatures required).

If CONTRACTOR is a partnership; the name of the partnership shall be set forth above together with the signature of a partner who has authority to execute this Agreement on behalf of the partnership (two signatures required).

If CONTRACTOR is contracting in an individual capacity, the individual shall set forth the name of the business, if any and shall personally sign the Agreement (one signature required).

Docusign Envelope ID: A29EB7E2-2B95-49DA-AE91-BE731F6B65B7

AMENDMENT NO. 1
TO SERVICES AGREEMENT
BETWEEN KASAVAN ARCHITECTS AND
THE COUNTY OF MONTEREY ON BEHALF OF NATIVIDAD MEDICAL CENTER
FOR
ARCHITECTURAL SERVICES

This Amendment No. 1 to the Services Agreement ("Agreement") which was effective on March 25, 2022 is entered into by and between the County of Monterey, on behalf of Natividad Medical Center ("NMC"), and Kasavan Architects ("CONTRACTOR"); **From this point forward, the party referenced previously as "NMC" shall be referenced as "COUNTY" and collectively, COUNTY and CONTRACTOR are referred to as the "Parties" to this Agreement, with respect to the following:**

RECITALS

WHEREAS, the Agreement was executed for Architectural Services pursuant to RFQ #9600-86 with a term February 1, 2022 through January 31, 2027 and a total aggregate amount for all Agreements not to exceed $5,000,000; and

WHEREAS, COUNTY and CONTRACTOR currently wish to amend the Agreement to add an additional $5,000,000 for a revised total aggregate amount not to exceed $10,000,000 with no changes to the Agreement term of February 1, 2022 through January 31, 2027 or scope of services.

AGREEMENT

NOW, THEREFORE, the Parties agree to amend the Agreement as follows:

The Agreement is hereby renewed on the terms and conditions as set forth in the Original Agreement incorporated herein by this reference, except as specifically set forth below.

1. Section 5.0 under, "COMPENSATION AND PAYMENTS" shall be amended to the following: ***"There is no specific dollar amount associated with the Agreement(s) awarded per RFQ #9600-86. Services are on an as-needed basis and shall be authorized by NMC only upon mutual agreement of CONTRACTORS project proposal. Project proposals will be requested as needed and are subject to negotiations. The total amount payable by*** **COUNTY** ***to CONTRACTOR under this Agreement shall not exceed the sum of $10,000,000."***

2. Except as provided herein, all remaining terms, conditions and provisions of the Agreement are unchanged and unaffected by this Amendment No. 1 and shall continue in full force and effect as set forth in the Agreement.

3. A copy of this Amendment No. 1 shall be attached to the Agreement.

4. This Amendment No. 1 shall be effective when both parties have signed.

Docusign Envelope ID: A29EB7E2-2B95-49DA-AE91-BE731F6B65B7

IN WITNESS WHEREOF, the Parties hereto are in agreement with this Amendment No. 1 on the basis set forth in this document and have executed this Amendment No. 1 on the day and year set forth herein.

COUNTY OF MONTEREY on behalf of NATIVIDAD MEDICAL CENTER

By: _____
Charles R. Harris, CEO

Date: _____

APPROVED AS TO LEGAL PROVISIONS

By: _____
Signed by: Stacy Saetta 696D21D44C4341D...
Monterey County Deputy County Counsel

Date: 9/18/2025 | 8:27 AM PDT

APPROVED AS TO FISCAL PROVISIONS

By: _____
DocuSigned by: Patricia Ruiz E79EF64E57454F6...
Monterey County Deputy Auditor/Controller

Date: 9/19/2025 | 10:04 AM PDT

CONTRACTOR

Kasavan Architects
CONTRACTOR's Business Name
See instructions below

By: _____
DocuSigned by: Peter Kasavan 3408F7AFF7B2453...
(Signature of: Chair, President, or Vice-President)

Peter Kasavan President
Name and Title

Date: 7/13/2025 | 7:34 PM EDT

By: _____
DocuSigned by: Peter Kasavan 3408F7AFF7B2453...
(Signature of: Secretary, Asst. Secretary, CFO, Treasurer, or Asst. Treasurer)

Peter Kasavan Secretary
Name and Title

Date: 7/13/2025 | 7:34 PM EDT

Instructions

If CONTRACTOR is a corporation; including limited liability and non-profit corporations, the full legal name of the corporation shall be set forth above together with the signatures of two specified officers (two signatures required).

If CONTRACTOR is a partnership; the name of the partnership shall be set forth above together with the signature of a partner who has authority to execute this Agreement on behalf of the partnership (two signatures required).

If CONTRACTOR is contracting in an individual capacity, the individual shall set forth the name of the business, if any and shall personally sign the Agreement (one signature required).

Docusign Envelope ID: A29EB7E2-2B95-49DA-AE91-BE731F6B65B7

AMENDMENT NO. 1
TO SERVICES AGREEMENT
BETWEEN WALD, RUHNKE & DOST ARCHITECTS, LLP AND
THE COUNTY OF MONTEREY ON BEHALF OF NATIVIDAD MEDICAL CENTER
FOR
ARCHITECTURAL SERVICES

This Amendment No. 1 to the Services Agreement ("Agreement") which was effective on March 25, 2022 is entered into by and between the County of Monterey, on behalf of Natividad Medical Center ("NMC"), and Wald, Ruhnke & Dost Architects, LLP ("CONTRACTOR"); **From this point forward, the party referenced previously as "NMC" shall be referenced as "COUNTY" and collectively, COUNTY and CONTRACTOR are referred to as the "Parties" to this Agreement, with respect to the following:**

RECITALS

WHEREAS, the Agreement was executed for Architectural Services pursuant to RFQ #9600-86 with a term February 1, 2022 through January 31, 2027 and a total aggregate amount for all Agreements not to exceed $5,000,000; and

WHEREAS, COUNTY and CONTRACTOR currently wish to amend the Agreement to add an additional $5,000,000 for a revised total aggregate amount not to exceed $10,000,000 with no changes to the Agreement term of February 1, 2022 through January 31, 2027 or scope of services.

AGREEMENT

NOW, THEREFORE, the Parties agree to amend the Agreement as follows:

The Agreement is hereby renewed on the terms and conditions as set forth in the Original Agreement incorporated herein by this reference, except as specifically set forth below.

1. Section 5.0 under, "COMPENSATION AND PAYMENTS" shall be amended to the following: ***"There is no specific dollar amount associated with the Agreement(s) awarded per RFQ #9600-86. Services are on an as-needed basis and shall be authorized by NMC only upon mutual agreement of CONTRACTORS project proposal. Project proposals will be requested as needed and are subject to negotiations. The total amount payable by*** **COUNTY** ***to CONTRACTOR under this Agreement shall not exceed the sum of $10,000,000."***

2. Except as provided herein, all remaining terms, conditions and provisions of the Agreement are unchanged and unaffected by this Amendment No. 1 and shall continue in full force and effect as set forth in the Agreement.

3. A copy of this Amendment No. 1 shall be attached to the Agreement.

4. This Amendment No. 1 shall be effective when both parties have signed.

Docusign Envelope ID: A29EB7E2-2B95-49DA-AE91-BE731F6B65B7

IN WITNESS WHEREOF, the Parties hereto are in agreement with this Amendment No. 1 on the basis set forth in this document and have executed this Amendment No. 1 on the day and year set forth herein.

COUNTY OF MONTEREY on behalf of NATIVIDAD MEDICAL CENTER

By: _____
Charles R. Harris, CEO

Date: _____

APPROVED AS TO LEGAL PROVISIONS

Signed by:
By: Stacy Saetta
696D21D44C4341D...
Monterey County Deputy County Counsel

Date: 9/18/2025 | 8:27 AM PDT

APPROVED AS TO FISCAL PROVISIONS

DocuSigned by:
By: Patricia Ruiz
F79EF64E57454F6...
Monterey County Deputy Auditor/Controller

Date: 9/19/2025 | 10:04 AM PDT

CONTRACTOR

Wald, Ruhnke, & Dost Architects, LLP
CONTRACTOR's Business Name
See instructions below

DocuSigned by:
By: _____
F865AE00901540C...
(Signature of: Chair, President, or Vice-President)

Chris Barlow Principal
Name and Title

Date: 7/11/2025 | 10:16 AM PDT

DocuSigned by:
By: Henry Ruhnke
82800C7BF4CC422...
(Signature of: Secretary, Asst. Secretary, CFO, Treasurer, or Asst. Treasurer)

Henry Ruhnke Partner
Name and Title

Date: 7/21/2025 | 6:55 AM PDT

Instructions

If CONTRACTOR is a corporation; including limited liability and non-profit corporations, the full legal name of the corporation shall be set forth above together with the signatures of two specified officers (two signatures required).

If CONTRACTOR is a partnership; the name of the partnership shall be set forth above together with the signature of a partner who has authority to execute this Agreement on behalf of the partnership (two signatures required).

If CONTRACTOR is contracting in an individual capacity, the individual shall set forth the name of the business, if any and shall personally sign the Agreement (one signature required).

Monterey County
Board of Supervisors

168 West Alisal Street,
1st Floor
Salinas, CA 93901
831.755.5066
www.co.monterey.ca.us

Board Order

A motion was made by Supervisor John M. Phillips, seconded by Supervisor Chris Lopez to:

Agreement No.: A-15729 Hammel, Green and Abrahamson, Inc.
Agreement No.: A-15730 19six Architects
Agreement No.: A-15731 Cedarblade Consulting
Agreement No.: A-15732 Kasavan Architects
Agreement No.: A-15733 Wald, Ruhnke & Dost Architects, LLP
Authorize the Interim Chief Executive Officer for Natividad Medical Center (NMC) or his designee to execute Agreements with Hammel, Green and Abrahamson, Inc., 19six Architects, Cedarblade Consulting, Kasavan Architects, and Wald, Ruhnke & Dost Architects, LLP pursuant to the Request for Qualifications (RFQ) #9600-86, each with a retroactive term of February 1, 2022 through January 31, 2027 with a total aggregate amount for all Agreements not to exceed $5,000,000.

PASSED AND ADOPTED on this 22nd day of March 2022, by roll call vote:

AYES: Supervisors Alejo, Phillips, Lopez, Askew and Adams
NOES: None
ABSENT: None
(Government Code 54953)

I, Valerie Ralph, Clerk of the Board of Supervisors of the County of Monterey, State of California, hereby certify that the foregoing is a true copy of an original order of said Board of Supervisors duly made and entered in the minutes thereof of Minute Book 82 for the meeting March 22, 2022.

Dated: March 24, 2022
File ID: A 22-087
Agenda Item No.: 28

Valerie Ralph, Clerk of the Board of Supervisors
County of Monterey, State of California

Julian Lorenzana, Deputy

AGREEMENT BETWEEN COUNTY OF MONTEREY ON BEHALF OF NATIVIDAD MEDICAL CENTER AND HAMMEL, GREEN, ABRAHAMSON (HGA)

This AGREEMENT is made and entered into by and between County of Monterey, on behalf of Natividad Medical Center, a political subdivision of the State of California, (hereinafter referred to as "COUNTY"), and Hammel, Green, Abrahamson (HGA), hereinafter referred to as "CONTRACTOR."

1.0 RECITALS

County of Monterey ("County") owns and operates Natividad, a general acute care teaching hospital facility located in Salinas, California and various outpatient clinics (collectively, the "Clinic") under its acute care hospital license.

WHEREAS, COUNTY has invited proposals through the Request for Qualifications RFQ# 9600-86 for to provide **ON-CALL ARCHITECTURAL SERVICES WHEREBY THE TOTAL FEE FOR THE ARCHITRECTURAL SERVICES IS UNDER AND OVER $100,000 PER EACH PROJECT**, in accordance with the specifications set forth in this AGREEMENT; and

WHEREAS, CONTRACTOR has submitted a responsive and responsible proposal to perform such services; and

WHEREAS, CONTRACTOR has the expertise and capabilities necessary to provide the services requested.

NOW THEREFORE, COUNTY and CONTRACTOR, for the consideration hereinafter named, agree as follows:

2.0 PERFORMANCE OF THE AGREEMENT

2.1 After consideration and evaluation of the CONTRACTOR'S proposal, COUNTY hereby engages CONTRACTOR to provide the services set forth in RFQ #9600-86 and in this AGREEMENT on the terms and conditions contained herein and in RFQ #9600-86. The intent of this AGREEMENT is to summarize the contractual obligations of the parties. The component parts of this AGREEMENT include the following:

This AGREEMENT including all its attachments, Exhibits and Appendix
RFQ #9600-86 plus all associated Addenda
CONTRACTOR'S Qualifications Package dated 10/29/21
Certificate of Insurance
Additional Insured Endorsements

2.2 All of the above-referenced contract documents are intended to be complementary. Work

required by one of the above-referenced contract documents and not by others shall be done as if required by all. In the event of a conflict between or among component parts of the contract, the contract documents shall be construed in the following order: plus, RFQ Addenda #9600-86, CONTRACTOR's Qualifications Package, Certificate of Insurance and Additional Insured Endorsements.

2.3 CONTRACTOR warrants that CONTRACTOR and CONTRACTOR's agents, employees, and subcontractors performing services under this AGREEMENT are specially trained, experienced, competent, and appropriately licensed to perform the work and deliver the services required under this AGREEMENT and are not employees of the County, or immediate family of an employee of the County.

2.4 CONTRACTOR, its agents, employees, and subcontractors shall perform all work in a safe and skillful manner and in compliance with all applicable laws and regulations. All work performed under this AGREEMENT that is required by law to be performed or supervised by licensed personnel shall be performed in accordance with such licensing requirements.

2.4.1 CONTRACTOR must maintain all licenses throughout the term of the AGREEMENT.

2.5 CONTRACTOR shall furnish, at its own expense, all materials, equipment, and personnel necessary to carry out the terms of this AGREEMENT, except as otherwise specified in this AGREEMENT. CONTRACTOR shall not use COUNTY premises, property (including equipment, instruments, or supplies) or personnel for any purpose other than in the performance of its obligations under this AGREEMENT.

3.0 SCOPE OF SERVICE

3.1 The scope of services shall include, in general, the full range of professional architectural services typically required for architectural projects in the public sector. Tasks may include but are not limited to the following:

- Program Development to Program Validation including Concept Development and Spatial Programming Studies
- Feasibility Studies/Project Definition
- Bid Scoping Documents
- All Phases of Project Design and Disciplines
- Specifications
- Design Reviews
- Cost Estimating
- Value Engineering
- Constructability Reviews
- Building Evaluations
- Troubleshooting
- Construction Support Services
- BIM/CADD/Drafting Work

3.2 Additional requirements include but are not limited to the following:

3.2.1 Services will be rendered at the request of County. As projects arise County will select qualified architectural firms based upon specialty in most situations and request that they provide a detailed scope and cost. Proposals submitted on a per-project basis after an Agreement has been executed may be subject to negotiation. County reserves the right to select the architect it believes to be the most qualified for each project that arises.

3.2.2 County has a implemented Job Order Contracting (JOC) construction delivery method. Not all construction projects will use the JOC program. For those projects which Natividad does use the JOC program to complete, CONTRACTOR shall become familiar with the quality and workmanship required by the applicable Construction Task Catalogs (CTC) and coordinates and adjusts specifications and details produced by the JOC General Contractor.

3.3 CONTRACTOR will advocate for County and ensure the project produced is in the best interest of County. **CONTRACTOR is expected to deliver products on or ahead of the required schedule and within budget.**

3.4 All work shall be done in conformance with all applicable County, State and Federal laws, County Design Manuals, County Standard Plans, all Caltrans manuals, policies, State Standard Plans and Specifications, Manual of Uniform Control Devices, Uniform Building Code, (Fire, Electrical), Americans with Disabilities Act (ADA), California Green Building Standards Code (Part 11, Title 24, California Code of Regulations); and as revised and amended by County ordinance.

4.0 TERM OF AGREEMENT

4.1 The initial term shall commence with the signing of this AGREEMENT for a period of 5 years.

4.2 CONTRACTOR shall commence negotiations for any desired fee changes a minimum of sixty days (90) prior to the expiration of this AGREEMENT in order to be considered.

3.2.1 Both parties shall agree upon changes to fees in writing.

4.3 COUNTY reserves the right to cancel this AGREEMENT, or any extension of this AGREEMENT, without cause, with a thirty day (30) written notice, or immediately with cause.

5.0 COMPENSATION AND PAYMENTS

5.1 There is no specific dollar amount associated with the Agreement(s) awarded per RFQ #9600-63. Services are on an as-needed basis and shall be authorized by NMC only upon

mutual agreement of CONTRACTORS project proposal. Project proposals will be requested as needed and are subject to negotiations.

5.2 CONTRACTOR billing rates attached to the Agreement shall remain firm for the initial term of this AGREEMENT. Any proposed rate adjustments shall adhere to Section 3.2 and 3.2.1 herein.

5.3 Any discount offered by the CONTRACTOR must allow for payment after receipt and acceptance of services, material or equipment and correct invoice, whichever is later. In no case will a discount be considered that requires payment in less than 30 days.

5.4 CONTRACTOR shall levy no additional fees or surcharges of any kind during the term of this AGREEMENT without first obtaining approval from COUNTTY in writing.

5.5 Tax:

4.5.1 Pricing as per this AGREEMENT is inclusive of all applicable taxes.

4.5.2 County is registered with the Internal Revenue Service, San Francisco office, and registration number 94-6000524. The County is exempt from Federal Transportation Tax; an exemption certificate is not required where shipping documents show Monterey County as consignee.

5.6 COUNTY does not guarantee any minimum or maximum amount of dollars to be spent under this AGREEMENT.

6.0 INVOICES AND PURCHASE ORDERS

6.1 Invoices for all services rendered per this AGREEMENT shall be billed directly Natividad Medical Center at the following address:

Natividad Medical Center
Attn: Accounts Payable
PO Box 81611
Salinas, CA 93912

6.2 CONTACTOR shall reference RFQ #9600-86 on all invoices submitted to Natividad Medical Center. CONTRACTOR shall submit such invoices periodically or at the completion of services, but in any event, not later than 30 days after completion of services. The invoice shall set forth the amounts claimed by CONTRACTOR for the previous period, together with an itemized basis for the amounts claimed, and such other information pertinent to the invoice. Natividad shall certify the invoice, either in the requested amount or in such other amount as Natividad approves in conformity with this AGREEMENT, and shall promptly submit such invoice to County Auditor-Controller for payment. County Auditor- Controller shall pay the amount certified within 30 days of receiving the certified invoice.

6.3 All Natividad Purchase Orders issued for the AGREEMENT are valid only during the fiscal year in which they are issued (the fiscal year is defined as July 1 through June 30).

6.4 Unauthorized Surcharges or Fees: Invoices containing unauthorized surcharges or unauthorized fees of any kind shall be rejected by NMC. Surcharges and additional fees not included the AGREEMENT must be approved by NMC in writing via an Amendment.

7.0 DESIGN PROFESSIONAL INDEMNIFICATION

7.1 For purposes of the following indemnification provisions ("Indemnification Agreement"), "design professional" has the same meaning as set forth in California Civil Code section 2782.8. If any term, provision or application of this Indemnification Agreement is found to be invalid, in violation of public policy or unenforceable to any extent, such finding shall not invalidate any other term or provision of this Indemnification Agreement and such other terms and provisions shall continue in full force and effect. If there is any conflict between the terms, provisions or application of this Indemnification Agreement and the provisions of California Civil Code Sections 2782 or 2782.8, the broadest indemnity protection for COUNTY under this Indemnity Agreement that is permitted by law shall be provided by CONTRACTOR.

7.2 Indemnification for Design Professional Services Claims:
CONTRACTOR shall indemnify, defend and hold harmless COUNTY, its governing board, directors, officers, employees, and agents against any claims that arise out of, or pertain to, or relate to the negligence, recklessness, or willful misconduct of CONTRACTOR, its employees, subcontractors, and agents in the performance of design professional services under this Agreement, excepting only liability arising from the sole negligence, active negligence or willful misconduct of COUNTY, or defect in a design furnished by COUNTY, but in no event shall the amount of such CONTRACTOR's liability exceed such CONTRACTOR's proportionate percentage of fault as determined by a court, arbitrator or mediator, or as set out in a settlement agreement. In the event one (1) or more defendants to any action involving such claim or claims against COUNTY is unable to pay its share of defense costs due to bankruptcy or dissolution of the business, such CONTRACTOR shall meet and confer with the other parties to such action regarding unpaid defense costs.

7.3 Indemnification for All Other Claims or Loss:
For any claim, loss, injury, damage, expense or liability other than claims arising out of CONTRACTOR's performance of design professional services under this Agreement, CONTRACTOR shall indemnify, defend and hold harmless COUNTY, its governing board, directors, officers, employees, and agents against any claim for loss, injury, damage, expense or liability resulting from or alleging injury to or death of any person or loss of use of or damage to property, arising from or related to the performance of services under this Agreement by CONTRACTOR, its employees, subcontractors or agents, excepting only liability arising from the sole negligence, active negligence or willful misconduct of COUNTY, or defect in a design furnished by COUNTY.

8.0 INSURANCE REQUIREMENTS

8.1 Evidence of Coverage:

8.1.1 Prior to commencement of this AGREEMENT, CONTRACTOR shall provide a "Certificate of Insurance" certifying that coverage as required herein has been obtained. Individual endorsements executed by the insurance carrier shall accompany the certificate. In addition, CONTRACTOR, upon request, shall

provide a certified copy of the policy or policies.

8.1.2 This verification of coverage shall be sent to the County's Contracts/Purchasing Department, unless otherwise directed. CONTRACTOR shall not receive a "Notice to Proceed" with the work under this AGREEMENT until it has obtained all insurance required and such, insurance has been approved by COUNTY. This approval of insurance shall neither relieve nor decrease the liability of CONTRACTOR.

8.2 Qualifying Insurers: All coverages, except surety, shall be issued by companies which hold a current policy holder's alphabetic and financial size category rating of not less than A- VII, according to the current Best's Key Rating Guide or a company of equal financial stability that is approved by County's Purchasing Officer.

8.3 Insurance Coverage Requirements:

8.3.1 Without limiting CONTRACTOR's duty to indemnify, CONTRACTOR shall maintain in effect throughout the term of this AGREEMENT a policy or policies of insurance with the following minimum limits of liability:

8.3.1.1 Commercial general liability insurance, including but not limited to premises and operations, including coverage for Bodily Injury and Property Damage, Personal Injury, Contractual Liability, Broadform Property Damage, Independent Contractors, Products and Completed Operations, with a combined single limit for Bodily Injury and Property Damage of not less than $1,000,000 per occurrence.

8.3.1.2 Business automobile liability insurance, covering all motor vehicles, including owned, leased, non-owned, and hired vehicles, used in providing services under this AGREEMENT, with a combined single limit for Bodily Injury and Property Damage of not less than $1,000,000 per occurrence.

8.3.1.3 Workers' Compensation Insurance, if CONTRACTOR employs others in the performance of this AGREEMENT, in accordance with California Labor Code section 3700 and with Employer's Liability limits not less than $1,000,000 each person, $1,000,000 each accident and $1,000,000 each disease.

8.3.1.4 Professional liability insurance, if required for the professional services being provided, (e.g., those persons authorized by a license to engage in a business or profession regulated by the California Business and Professions Code), in the amount of not less than $1,000,000 per claim and $2,000,000 in the aggregate, to cover liability for malpractice or errors or omissions made in the course of rendering professional services. If professional liability insurance is written on a "claims-made" basis rather than an occurrence basis, CONTRACTOR shall, upon the expiration or earlier termination of this AGREEMENT, obtain extended reporting coverage ("tail coverage") with the same liability limits. Any such tail coverage shall continue for at least three years following the expiration or earlier termination of this AGREEMENT.

8.4 Other Insurance Requirements:

8.4.1 All insurance required by this AGREEMENT shall be with a company acceptable to County and issued and executed by an admitted insurer authorized to transact Insurance business in the State of California. Unless otherwise specified by this AGREEMENT, all such insurance shall be written on an occurrence basis, or, if the policy is not written on an occurrence basis, such policy with the coverage required herein shall continue in effect for a period of three years following the date CONTRACTOR completes its performance of services under this AGREEMENT.

8.4.2 Each liability policy shall provide that COUNTY shall be given notice in writing at least thirty days in advance of any endorsed reduction in coverage or limit, cancellation, or intended non-renewal thereof. Each policy shall provide coverage for CONTRACTOR and additional insureds with respect to claims arising from each subcontractor, if any, performing work under this AGREEMENT, or be accompanied by a certificate of insurance from each subcontractor showing each subcontractor has identical insurance coverage to the above requirements.

8.4.3 *Commercial general liability and automobile liability policies shall provide an endorsement naming the County of Monterey, its officers, agents, and employees as Additional Insureds with respect to liability arising out of the CONTRACTOR'S work, including ongoing and completed operations, and shall further provide that such insurance is primary insurance to any insurance or self- insurance maintained by the County and that the insurance of the Additional Insureds shall not be called upon to contribute to a loss covered by the CONTRACTOR'S insurance. The required endorsement form for Commercial General Liability Additional Insured is ISO Form CG 20 10 11-85 or CG 20 10 10 01 in tandem with CG 20 37 10 01 (2000). The required endorsement form for Automobile Additional Insured endorsement is ISO Form CA 20 48 02 99.*

8.4.4 Prior to the execution of this AGREEMENT by COUNTY, CONTRACTOR shall file certificates of insurance with County's contract administrator and County's Contracts/Purchasing Division, showing that CONTRACTOR has in effect the insurance required by this AGREEMENT. CONTRACTOR shall file a new or amended certificate of insurance within five calendar days after any change is made in any insurance policy, which would alter the information on the certificate then on file. Acceptance or approval of insurance shall in no way modify or change the indemnification clause in this AGREEMENT, which shall continue in full force and effect.

8.4.5 CONTRACTOR shall at all times during the term of this AGREEMENT maintain in force the insurance coverage required under this AGREEMENT and shall send, without demand by COUNTY, annual certificates to County's Contract Administrator and County's Contracts/Purchasing Division. If the certificate is not received by the expiration date, COUNTY shall notify CONTRACTOR and CONTRACTOR shall have five calendar days to send in the certificate, evidencing no lapse in coverage during the interim. Failure by CONTRACTOR to maintain such insurance is a default of this AGREEMENT, which entitles COUNTY, at its sole discretion, to terminate this AGREEMENT immediately.

9.0 RECORDS AND CONFIDENTIALITY

9.1 Confidentiality: CONTRACTOR and its officers, employees, agents, and subcontractors shall comply with any and all federal, state, and local laws, which provide for the confidentiality of records and other information. CONTRACTOR shall not disclose any confidential records or other confidential information received from COUNTY or prepared in connection with the performance of this AGREEMENT, unless NMC specifically permits CONTRACTOR to disclose such records or information. CONTRACTOR shall promptly transmit to COUNTY any and all requests for disclosure of any such confidential records or information. CONTRACTOR shall not use any confidential information gained by CONTRACTOR in the performance of this AGREEMENT except for the sole purpose of carrying out CONTRACTOR's obligations under this AGREEMENT.

9.2 County of Monterey Records: When this AGREEMENT expires or terminates, CONTRACTOR shall return to COUNTY any COUNTY records which CONTRACTOR used or received from NMC to perform services under this AGREEMENT.

9.3 Maintenance of Records: CONTRACTOR shall prepare, maintain, and preserve all reports and records that may be required by federal, state, and COUNTY and Natividad Medical Center rules and regulations related to services performed under this AGREEMENT.

9.4 Access to and Audit of Records: Natividad Medical Center (COUNTY) have the right to examine, monitor and audit all records, documents, conditions, and activities of CONTRACTOR and its subcontractors related to services provided under this AGREEMENT. The parties to this AGREEMENT may be subject, at the request of COUNTY or as part of any audit of COUNTY, to the examination and audit of the State Auditor pertaining to matters connected with the performance of this AGREEMENT for a period of three years after final payment under the AGREEMENT.

9.5 CONTRACTOR agrees that any information, whether proprietary or not, made known to or discovered by it during the performance of or in connection with this AGREEMENT for COUNTY will be kept confidential and not be disclosed to any other person. CONTRACTOR agrees to immediately notify COUNTY in accordance with the Notices Section of this AGREEMENT, if it is requested to disclose any information made known to or discovered by it during the performance of or in connection with this AGREEMENT. These conflict of interest and future service provisions and limitations shall remain fully effective five (5) years after termination of services to COUNTY hereunder.

10.0 NON-DISCRIMINATION

10.1 During the performance of this contract, CONTRACTOR shall not unlawfully discriminate against any employee or applicant for employment because of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, age (over 40), sex, or sexual orientation. CONTRACTOR shall ensure that the evaluation and treatment of its employees and applicants for employment are free of such

discrimination.

10.2 The applicable regulations of the Fair Employment and Housing Commission implementing Government Code, §12900, et seq., set forth in Chapter 5 of Division 4 of Title 2 of the California Code of Regulations are incorporated into this AGREEMENT by reference and made a part hereof as if set forth in full.

10.3 CONTRACTOR shall include the non-discrimination and compliance provisions of the clause in all agreements with subcontractors to perform work under the contract.

11.0 OVERRIDING CONTRACTOR PERFORMANCE REQUIREMENTS

11.1 Independent Contractor: CONTRACTOR shall be an independent contractor and shall not be an employee of Monterey County, nor immediate family of an employee of County. CONTRACTOR shall be responsible for all insurance (General Liability, Automobile, Workers' Compensation, unemployment, etc.,) and all payroll-related taxes. CONTRACTOR shall not be entitled to any employee benefits. CONTRACTOR shall control the manner and means of accomplishing the result contracted for herein.

11.2 Minimum Work Performance Percentage: CONTRACTOR shall perform with his own organization contract work amounting to not less than 50 percent of the original total AGREEMENT amount, except that any designated 'Specialty Items' may be performed by subcontract and the amount of any such 'Specialty Items' so performed may be deducted from the original total AGREEMENT amount before computing the amount of work required to be performed by CONTRACTOR with his own organization or per a consortium.

11.3 Non-Assignment: CONTRACTOR shall not assign this contract or the work required herein without the prior written consent of County.

11.4 Any subcontractor shall comply with all of COUNTY requirements, including insurance and indemnification requirements as detailed in SAMPLE AGREEMENT.

12.0 CONFLICT OF INTEREST

12.1 CONTRACTOR covenants that it presently has no interest, and shall not have any interest, direct or indirect, which would conflict in any manner with the performance of services required under this AGREEMENT. Without limitation, CONTRACTOR represents to and agrees with COUNTY that CONTRACTOR has no present, and will have no future, conflict of interest between providing COUNTY hereunder and any other person or entity (including but not limited to any federal or state environmental or regulatory agency) which has any interest adverse or potentially adverse to COUNTY, as determined in the reasonable judgment of the Board of Supervisors of County.

13.0 COMPLIANCE WITH APPLICABLE LAWS

13.1 CONTRACTOR shall keep itself informed of and in compliance with all federal, state and local laws, ordinances, regulations, and orders, including but not limited to all state and federal tax laws that may affect in any manner the Project or the performance of the Services or those engaged to perform Services under this AGREEMENT. CONTRACTOR shall procure all permits and licenses, pay all charges and fees, and give all notices required by law in the performance of the Services.

13.2 CONTRACTOR shall report immediately to Natividad's Contracts/Purchasing Officer, in writing, any discrepancy or inconsistency it discovers in the laws, ordinances, regulations, orders, and/or guidelines in relation to the Project of the performance of the Services.

13.3 All documentation prepared by CONTRACTOR shall provide for a completed project that conforms to all applicable codes, rules, regulations and guidelines that are in force at the time such documentation is prepared.

13.4 COMPLIANCE WITH TERMS OF STATE OR FEDERAL GRANT. If this Agreement has been or will be funded with monies received by the County pursuant to a contract with the state or federal government in which the COUNTY is the grantee, CONTRACTOR will comply with all the provisions of said contract, to the extent applicable to CONTRACTOR as a subgrantee under said contract, and said provisions shall be deemed a part of this AGREEMENT, as though fully set forth herein. Upon request, NMC will deliver a copy of said contract to CONTRACTOR, at no cost to CONTRACTOR.

14.0 PREVAILING WAGE

14.1 CONTRACTOR shall comply with Section 1720, et. seq., of the Labor Code, regarding the general prevailing wage rates of per diem, holiday, and overtime wages for each craft, classification, or type of worker needed to execute the AGREEMENT where applicable.

15.0 DRUG FREE WORKPLACE

15.1 CONTRACTOR and CONTRACTOR'S employees shall comply with the County's policy of maintaining a drug free workplace. Neither CONTRACTOR nor CONTRACTOR'S employees shall unlawfully manufacture, distribute, dispense, possess or use controlled substances, as defined in 21 U.S. Code § 812, including, but not limited to, marijuana, heroin, cocaine, and amphetamines, at any County facility or work site. If CONTRACTOR or any employee of CONTRACTOR is convicted or pleads no contest to a criminal drug statute violation occurring at a County facility or work site, the CONTRACTOR shall, within five days thereafter notify the head of the NMC department/agency for which the AGREEMENT services are performed. Violation of this provision shall constitute a material breach of this AGREEMENT.

16.0 TIME OF ESSENCE

16.1 Time is of the essence in respect to all provisions of this AGREEMENT that specify a time for performance; provided, however, that the foregoing shall not be construed to limit or deprive a party of the benefits of any grace or use period allowed in this AGREEMENT.

17.0 PERFORMANCE ASSURANCE

17.1 Assurance of Performance: If at any time COUNTY believes CONTRACTOR may not be adequately performing its obligations under this AGREEMENT or that CONTRACTOR may fail to complete the Services as required by this AGREEMENT, County may request from CONTRACTOR prompt written assurances of performance and a written plan acceptable to County, to correct the observed deficiencies in CONTRACTOR'S performance. CONTRACTOR shall provide such written assurances and written plan within ten (10) calendar days of its receipt of COUNTY's request and shall thereafter diligently commence and fully perform such written plan. CONTRACTOR acknowledges and agrees that any failure to provide such written assurances and written plan within the required time is a material breach under this AGREEMENT. If COUNTY accepts the plan it shall issue a signed waiver.

17.1.1 Waiver: No waiver of a breach, failure of any condition, or any right or remedy contained in or granted by the provisions of this AGREEMENT shall be effective unless it is in writing and signed by the party waiving the breach, failure, right or remedy. No waiver of any breach, failure, right or remedy shall be deemed a waiver of any other breach, failure, right or remedy, whether or not similar, nor shall any waiver constitute a continuing waiver unless the writing so specifies.

18.0 TRAVEL REIMBURSEMENT

18.1 Travel reimbursements are not permitted for this AGREEMENT.

19.0 EMERGENCY SITUATIONS

19.1 CONTRACTOR shall provide the name and contact information of a representative who shall be available 24 hours a day, 7 days a week, in the event of an emergency. During the emergency, CONTRACTOR shall provide COUNTY with all available supplies, materials, equipment and/or services on a priority basis.

19.2 COUNTY expects emergency deliveries to occur within 4 hours of order placement and may be required during evenings, weekends, and holidays. Time is of the essence for delivery during emergency situations. Delivery location(s) and estimated arrival will be mutually agreed upon, by COUNTY and CONTRACTOR, at time of order and will be

determined based on need and existing conditions. It is understood that current conditions, such as power outages, road closures, and damages to CONTRACTOR's facility and/or equipment, will be taken into consideration.

20.0 NON-APPROPRIATIONS CLAUSE

20.1 Notwithstanding anything contained in this AGREEMENT to the contrary, if insufficient funds are appropriated, or funds are otherwise unavailable in the budget for COUNTY for any reason whatsoever in any fiscal year, for payments due under this AGREEMENT, COUNTY will immediately notify CONTRACTOR of such occurrence, and this AGREEMENT shall terminate after the last day during the fiscal year for which appropriations shall have been budgeted for COUNTY or are otherwise available for payments.

21.0 WARRANTY BY CONTRACTOR

21.1 CONTRACTOR shall perform all services and provide all drawing and documents in accordance with applicable codes and regulations, and shall be fully responsible for the content of all design documents prepared or provided under this AGREEMENT. Time is of the essence of this AGREEMENT.

22.0 NOTICES

22.1 Notices required to be given to the respective parties under this AGREEMENT shall be deemed given by any of the following means: (1) when personally delivered to NMC's contract administrator or to CONTRACTOR'S responsible officer; (2) when personally delivered to the party's principle place of business during normal business hours, by leaving notice with any person apparently in charge of the office and advising such person of the import and contents of the notice; (3) 24 hours after the notice is transmitted by FAX machine to the other party, at the party's FAX number specified pursuant to this AGREEMENT, provided that the party giving notice by FAX must promptly confirm receipt of the FAX by telephone to the receiving party's office; or, (4) three (3) days after the notice is deposited in the U. S. mail with first class or better postage fully prepaid, addressed to the party as indicated below.

22.2 Notices mailed or faxed to the parties shall be addressed as follows:

TO NMC:
Natividad Medical Center
Attn: CONTRACTS DIVISION
1441 Constitution Blvd
Salinas, CA 93906
PHONE 831-755-4111

TO CONTRACTOR:
Hammel, Green, Abrahamson
84 West Santa Clara St.
San Jose, CA 95113

23.0 LEGAL DISPUTES

23.1 CONTRACTOR agrees that this AGREEMENT and any dispute arising from the relationship between the parties to this AGREEMENT, shall be governed and interpreted by the laws of the State of California, excluding any laws that direct the application of another jurisdiction's laws.

23.2 Any dispute that arises under or relates to this AGREEMENT (whether contract, tort, or both) shall be resolved in the Superior Court of California in Monterey County, California.

23.3 CONTRACTOR shall continue to perform under this AGREEMENT during any dispute.

22.4 The parties agree to waive their separate rights to a trial by jury. This waiver means that the trial will be before a judge.

24.0 GENERAL PROVISIONS

23.1 Counterparts. This Agreement may be executed in one or more counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.

23.2 Entire Agreement. This Agreement is the entire understanding and agreement of the Parties regarding its subject matter, and supersedes any prior oral or written agreements, representations, understandings or discussions between the Parties. Subject to Section 22.3, no other understanding between the Parties shall be binding on them unless set forth in writing, signed and attached to this Agreement.

23.3 Exhibits. The attached Exhibits, together with all documents incorporated by reference in the exhibits, form an integral part of this Agreement and are incorporated by reference into this Agreement, wherever reference is made to them to the same extent as if they were set out in full at the point at which such reference is made.

23.4 Severability. If any provision of this Agreement is determined to be illegal or unenforceable, that provision shall be severed from this Agreement, and such severance shall have no effect upon the enforceability of the remainder of this Agreement.

23.5 Statutes and Regulations. Any reference in this Agreement to any statute, regulation, ruling, or administrative order or decree shall include, and be a reference to any successor statute, regulation, ruling, or administrative order or decree.

23.6 Waiver. No delay or failure to require performance of any provision of this Agreement shall constitute a waiver of that provision as to that or any other instance. Any waiver granted

by a Party must be in writing to be effective, and shall apply solely to the specific instance expressly stated.

The remainder of this page was intentionally left blank.

~ Signature page to follow ~

COUNTY OF MONTEREY on behalf of NATIVIDAD MEDICAL CENTER

By: _____
Charles R. Harris, Interim CEO

Date: 3-25-22

APPROVED AS TO LEGAL PROVISIONS

By: _____
Monterey County Deputy County Counsel

Date: Chief Deputy County Counsel, 2/28/2022

APPROVED AS TO FISCAL PROVISIONS

By: Joey Nolasco
Monterey County Deputy Auditor/Controller

Date: 3/8/2022

CONTRACTOR

Hammel, Green, Abrahamson (HGA)
CONTRACTOR's Business Name
See instructions below

By: _____
(Signature of: Chairman, President, or Vice-President)

Vice President
Name and Title

Date: 2/22/2022

By: _____
(Signature of: Secretary, Asst. Secretary, CFO, Treasurer, or Asst. Treasurer)

Clare Tande, Corporate Secretary and CLO
Name and Title

Date: February 23, 2022

Instructions

If CONTRACTOR is a corporation; including limited liability and non-profit corporations, the full legal name of the corporation shall be set forth above together with the signatures of two specified officers (two signatures required).

If CONTRACTOR is a partnership; the name of the partnership shall be set forth above together with the signature of a partner who has authority to execute this Agreement on behalf of the partnership (two signatures required).

If CONTRACTOR is contracting in an individual capacity, the individual shall set forth the name of the business, if any and shall personally sign the Agreement (one signature required).

2022 HOURLY RATES

Project engagement with either be fixed fee (billed monthly) based upon on a percent complete or hourly billed to a maximum. For the hourly work, we will be using the rates published below:

Staff Member	2022 Hourly Rate
Principal	$325
Sr. Project Manager	$250
Project Manager	$230
Design Principal	$290
Sr. Designer	$235
Project Designer	$190
HCAI (OSHPD) Liaison/Code Specialist	$270
Sr. Project Architect	$250
Project Architect II	$190
Project Architect I	$165
Sr. Project Coordinator	$185
Project Coordinator II	$165
Project Coordinator I	$140
Sr. Interior Designer	$210
Interior Designer II	$180
Interior Designer I	$160
Design Coordinator	$140
Specifications Specialist	$200
Hardware Specialist	$190
Sr. Engineer (Structural, Mechanical, Electrical, and Industrial	$270
Engineer II (Structural, Mechanical, Electrical, and Industrial)	$235
Engineer I (Structural, Mechanical, Electrical, and Industrial)	$200
HCAI (OSHPD) Document Coordinator	$145
Sr. Cost Estimator	$250
Cost Estimator	$195
Administrative Staff	$135

The 2022 hourly rates are subject to annual adjustments based on industry inflation within the region. Proposed hourly rate adjustments will be reviewed with Natividad Medical Center before application.

Reimbursable expenses could include unique printing, unique travel (i.e. to OSHPD/HCAI), and unique project costs that are outside of standard practices. Standard mileage and travel as well as standard printing (i.e. in office work) will not be a reimbursable expense.

Monterey County
Board of Supervisors

168 West Alisal Street,
1st Floor
Salinas, CA 93901
831.755.5066
www.co.monterey.ca.us

Board Order

A motion was made by Supervisor John M. Phillips, seconded by Supervisor Chris Lopez to:

Agreement No.: A-15729 Hammel, Green and Abrahamson, Inc.
Agreement No.: A-15730 19six Architects
Agreement No.: A-15731 Cedarblade Consulting
Agreement No.: A-15732 Kasavan Architects
Agreement No.: A-15733 Wald, Ruhnke & Dost Architects, LLP
Authorize the Interim Chief Executive Officer for Natividad Medical Center (NMC) or his designee to execute Agreements with Hammel, Green and Abrahamson, Inc., 19six Architects, Cedarblade Consulting, Kasavan Architects, and Wald, Ruhnke & Dost Architects, LLP pursuant to the Request for Qualifications (RFQ) #9600-86, each with a retroactive term of February 1, 2022 through January 31, 2027 with a total aggregate amount for all Agreements not to exceed $5,000,000.

PASSED AND ADOPTED on this 22nd day of March 2022, by roll call vote:

AYES: Supervisors Alejo, Phillips, Lopez, Askew and Adams
NOES: None
ABSENT: None
(Government Code 54953)

I, Valerie Ralph, Clerk of the Board of Supervisors of the County of Monterey, State of California, hereby certify that the foregoing is a true copy of an original order of said Board of Supervisors duly made and entered in the minutes thereof of Minute Book 82 for the meeting March 22, 2022.

Dated: March 24, 2022
File ID: A 22-087
Agenda Item No.: 28

Valerie Ralph, Clerk of the Board of Supervisors
County of Monterey, State of California

Julian Lorenzana, Deputy

AGREEMENT BETWEEN COUNTY OF MONTEREY ON BEHALF OF NATIVIDAD MEDICAL CENTER AND 19SIX ARCHITECTS

This AGREEMENT is made and entered into by and between County of Monterey, on behalf of Natividad Medical Center, a political subdivision of the State of California, (hereinafter referred to as "COUNTY"), and 19six Architects, hereinafter referred to as "CONTRACTOR."

1.0 RECITALS

County of Monterey ("County") owns and operates Natividad, a general acute care teaching hospital facility located in Salinas, California and various outpatient clinics (collectively, the "Clinic") under its acute care hospital license.

WHEREAS, COUNTY has invited proposals through the Request for Qualifications RFQ# 9600-86 for to provide **ON-CALL ARCHITECTURAL SERVICES WHEREBY THE TOTAL FEE FOR THE ARCHITRECTURAL SERVICES IS UNDER AND OVER $100,000 PER EACH PROJECT**, in accordance with the specifications set forth in this AGREEMENT; and

WHEREAS, CONTRACTOR has submitted a responsive and responsible proposal to perform such services; and

WHEREAS, CONTRACTOR has the expertise and capabilities necessary to provide the services requested.

NOW THEREFORE, COUNTY and CONTRACTOR, for the consideration hereinafter named, agree as follows:

2.0 PERFORMANCE OF THE AGREEMENT

2.1 After consideration and evaluation of the CONTRACTOR'S proposal, COUNTY hereby engages CONTRACTOR to provide the services set forth in RFQ #9600-86 and in this AGREEMENT on the terms and conditions contained herein and in RFQ #9600-86. The intent of this AGREEMENT is to summarize the contractual obligations of the parties. The component parts of this AGREEMENT include the following:

This AGREEMENT including all its attachments, Exhibits and Appendix
RFQ #9600-86 plus all associated Addenda
CONTRACTOR'S Qualifications Package dated 10/29/21
Certificate of Insurance
Additional Insured Endorsements

2.2 All of the above-referenced contract documents are intended to be complementary. Work required by one of the above-referenced contract documents and not by others shall be done

as if required by all. In the event of a conflict between or among component parts of the contract, the contract documents shall be construed in the following order: plus, RFQ Addenda #9600-86, CONTRACTOR's Qualifications Package, Certificate of Insurance and Additional Insured Endorsements.

2.3 CONTRACTOR warrants that CONTRACTOR and CONTRACTOR's agents, employees, and subcontractors performing services under this AGREEMENT are specially trained, experienced, competent, and appropriately licensed to perform the work and deliver the services required under this AGREEMENT and are not employees of the County, or immediate family of an employee of the County.

2.4 CONTRACTOR, its agents, employees, and subcontractors shall perform all work in a safe and skillful manner and in compliance with all applicable laws and regulations. All work performed under this AGREEMENT that is required by law to be performed or supervised by licensed personnel shall be performed in accordance with such licensing requirements.

2.4.1 CONTRACTOR must maintain all licenses throughout the term of the AGREEMENT.

2.5 CONTRACTOR shall furnish, at its own expense, all materials, equipment, and personnel necessary to carry out the terms of this AGREEMENT, except as otherwise specified in this AGREEMENT. CONTRACTOR shall not use COUNTY premises, property (including equipment, instruments, or supplies) or personnel for any purpose other than in the performance of its obligations under this AGREEMENT.

3.0 SCOPE OF SERVICE

3.1 The scope of services shall include, in general, the full range of professional architectural services typically required for architectural projects in the public sector. Tasks may include but are not limited to the following:

- Program Development to Program Validation including Concept Development and Spatial Programming Studies
- Feasibility Studies/Project Definition
- Bid Scoping Documents
- All Phases of Project Design and Disciplines
- Specifications
- Design Reviews
- Cost Estimating
- Value Engineering
- Constructability Reviews
- Building Evaluations
- Troubleshooting
- Construction Support Services
- BIM/CADD/Drafting Work

3.2 Additional requirements include but are not limited to the following:

3.2.1 Services will be rendered at the request of County. As projects arise County will select qualified architectural firms based upon specialty in most situations and request that they provide a detailed scope and cost. Proposals submitted on a per-project basis after an Agreement has been executed may be subject to negotiation. County reserves the right to select the architect it believes to be the most qualified for each project that arises.

3.2.2 County has a implemented Job Order Contracting (JOC) construction delivery method. Not all construction projects will use the JOC program. For those projects which Natividad does use the JOC program to complete, CONTRACTOR shall become familiar with the quality and workmanship required by the applicable Construction Task Catalogs (CTC) and coordinates and adjusts specifications and details produced by the JOC General Contractor.

3.3 CONTRACTOR will advocate for County and ensure the project produced is in the best interest of County. **CONTRACTOR is expected to deliver products on or ahead of the required schedule and within budget.**

3.4 All work shall be done in conformance with all applicable County, State and Federal laws, County Design Manuals, County Standard Plans, all Caltrans manuals, policies, State Standard Plans and Specifications, Manual of Uniform Control Devices, Uniform Building Code, (Fire, Electrical), Americans with Disabilities Act (ADA), California Green Building Standards Code (Part 11, Title 24, California Code of Regulations); and as revised and amended by County ordinance.

4.0 TERM OF AGREEMENT

4.1 The initial term shall commence with the signing of this AGREEMENT for a period of 5 years.

4.2 CONTRACTOR shall commence negotiations for any desired fee changes a minimum of sixty days (90) prior to the expiration of this AGREEMENT in order to be considered.

3.2.1 Both parties shall agree upon changes to fees in writing.

4.3 COUNTY reserves the right to cancel this AGREEMENT, or any extension of this AGREEMENT, without cause, with a thirty day (30) written notice, or immediately with cause.

5.0 COMPENSATION AND PAYMENTS

5.1 There is no specific dollar amount associated with the Agreement(s) awarded per RFQ #9600-63. Services are on an as-needed basis and shall be authorized by NMC only upon

mutual agreement of CONTRACTORS project proposal. Project proposals will be requested as needed and are subject to negotiations.

5.2 CONTRACTOR billing rates attached to the Agreement shall remain firm for the initial term of this AGREEMENT. Any proposed rate adjustments shall adhere to Section 3.2 and 3.2.1 herein.

5.3 Any discount offered by the CONTRACTOR must allow for payment after receipt and acceptance of services, material or equipment and correct invoice, whichever is later. In no case will a discount be considered that requires payment in less than 30 days.

5.4 CONTRACTOR shall levy no additional fees or surcharges of any kind during the term of this AGREEMENT without first obtaining approval from COUNTTY in writing.

5.5 Tax:

4.5.1 Pricing as per this AGREEMENT is inclusive of all applicable taxes.

4.5.2 County is registered with the Internal Revenue Service, San Francisco office, and registration number 94-6000524. The County is exempt from Federal Transportation Tax; an exemption certificate is not required where shipping documents show Monterey County as consignee.

5.6 COUNTY does not guarantee any minimum or maximum amount of dollars to be spent under this AGREEMENT.

6.0 INVOICES AND PURCHASE ORDERS

6.1 Invoices for all services rendered per this AGREEMENT shall be billed directly Natividad Medical Center at the following address:

Natividad Medical Center
Attn: Accounts Payable
PO Box 81611
Salinas, CA 93912

6.2 CONTACTOR shall reference RFQ #9600-86 on all invoices submitted to Natividad Medical Center. CONTRACTOR shall submit such invoices periodically or at the completion of services, but in any event, not later than 30 days after completion of services. The invoice shall set forth the amounts claimed by CONTRACTOR for the previous period, together with an itemized basis for the amounts claimed, and such other information pertinent to the invoice. Natividad shall certify the invoice, either in the requested amount or in such other amount as Natividad approves in conformity with this AGREEMENT, and shall promptly submit such invoice to County Auditor-Controller for payment. County Auditor- Controller shall pay the amount certified within 30 days of receiving the certified invoice.

6.3 All Natividad Purchase Orders issued for the AGREEMENT are valid only during the fiscal year in which they are issued (the fiscal year is defined as July 1 through June 30).

6.4 Unauthorized Surcharges or Fees: Invoices containing unauthorized surcharges or unauthorized fees of any kind shall be rejected by NMC. Surcharges and additional fees not included the AGREEMENT must be approved by NMC in writing via an Amendment.

7.0 DESIGN PROFESSIONAL INDEMNIFICATION

7.1 For purposes of the following indemnification provisions ("Indemnification Agreement"), "design professional" has the same meaning as set forth in California Civil Code section 2782.8. If any term, provision or application of this Indemnification Agreement is found to be invalid, in violation of public policy or unenforceable to any extent, such finding shall not invalidate any other term or provision of this Indemnification Agreement and such other terms and provisions shall continue in full force and effect. If there is any conflict between the terms, provisions or application of this Indemnification Agreement and the provisions of California Civil Code Sections 2782 or 2782.8, the broadest indemnity protection for COUNTY under this Indemnity Agreement that is permitted by law shall be provided by CONTRACTOR.

7.2 Indemnification for Design Professional Services Claims:
CONTRACTOR shall indemnify, defend and hold harmless COUNTY, its governing board, directors, officers, employees, and agents against any claims that arise out of, or pertain to, or relate to the negligence, recklessness, or willful misconduct of CONTRACTOR, its employees, subcontractors, and agents in the performance of design professional services under this Agreement, excepting only liability arising from the sole negligence, active negligence or willful misconduct of COUNTY, or defect in a design furnished by COUNTY, but in no event shall the amount of such CONTRACTOR's liability exceed such CONTRACTOR's proportionate percentage of fault as determined by a court, arbitrator or mediator, or as set out in a settlement agreement. In the event one (1) or more defendants to any action involving such claim or claims against COUNTY is unable to pay its share of defense costs due to bankruptcy or dissolution of the business, such CONTRACTOR shall meet and confer with the other parties to such action regarding unpaid defense costs.

7.3 Indemnification for All Other Claims or Loss:
For any claim, loss, injury, damage, expense or liability other than claims arising out of CONTRACTOR's performance of design professional services under this Agreement, CONTRACTOR shall indemnify, defend and hold harmless COUNTY, its governing board, directors, officers, employees, and agents against any claim for loss, injury, damage, expense or liability resulting from or alleging injury to or death of any person or loss of use of or damage to property, arising from or related to the performance of services under this Agreement by COUNTY, its employees, subcontractors or agents, excepting only liability arising from the sole negligence, active negligence or willful misconduct of COUNTY, or defect in a design furnished by COUNTY.

8.0 INSURANCE REQUIREMENTS

8.1 Evidence of Coverage:

8.1.1 Prior to commencement of this AGREEMENT, CONTRACTOR shall provide a "Certificate of Insurance" certifying that coverage as required herein has been obtained. Individual endorsements executed by the insurance carrier shall accompany the certificate. In addition, CONTRACTOR, upon request, shall

provide a certified copy of the policy or policies.

8.1.2 This verification of coverage shall be sent to the County's Contracts/Purchasing Department, unless otherwise directed. CONTRACTOR shall not receive a "Notice to Proceed" with the work under this AGREEMENT until it has obtained all insurance required and such, insurance has been approved by COUNTY. This approval of insurance shall neither relieve nor decrease the liability of CONTRACTOR.

8.2 Qualifying Insurers: All coverages, except surety, shall be issued by companies which hold a current policy holder's alphabetic and financial size category rating of not less than A- VII, according to the current Best's Key Rating Guide or a company of equal financial stability that is approved by County's Purchasing Officer.

8.3 Insurance Coverage Requirements:

8.3.1 Without limiting CONTRACTOR's duty to indemnify, CONTRACTOR shall maintain in effect throughout the term of this AGREEMENT a policy or policies of insurance with the following minimum limits of liability:

8.3.1.1 Commercial general liability insurance, including but not limited to premises and operations, including coverage for Bodily Injury and Property Damage, Personal Injury, Contractual Liability, Broadform Property Damage, Independent Contractors, Products and Completed Operations, with a combined single limit for Bodily Injury and Property Damage of not less than $1,000,000 per occurrence.

8.3.1.2 Business automobile liability insurance, covering all motor vehicles, including owned, leased, non-owned, and hired vehicles, used in providing services under this AGREEMENT, with a combined single limit for Bodily Injury and Property Damage of not less than $1,000,000 per occurrence.

8.3.1.3 Workers' Compensation Insurance, if CONTRACTOR employs others in the performance of this AGREEMENT, in accordance with California Labor Code section 3700 and with Employer's Liability limits not less than $1,000,000 each person, $1,000,000 each accident and $1,000,000 each disease.

8.3.1.4 Professional liability insurance, if required for the professional services being provided, (e.g., those persons authorized by a license to engage in a business or profession regulated by the California Business and Professions Code), in the amount of not less than $1,000,000 per claim and $2,000,000 in the aggregate, to cover liability for malpractice or errors or omissions made in the course of rendering professional services. If professional liability insurance is written on a "claims-made" basis rather than an occurrence basis, CONTRACTOR shall, upon the expiration or earlier termination of this AGREEMENT, obtain extended reporting coverage ("tail coverage") with the same liability limits. Any such tail coverage shall continue for at least three years following the expiration or earlier termination of this AGREEMENT.

8.4 Other Insurance Requirements:

8.4.1 All insurance required by this AGREEMENT shall be with a company acceptable to County and issued and executed by an admitted insurer authorized to transact Insurance business in the State of California. Unless otherwise specified by this AGREEMENT, all such insurance shall be written on an occurrence basis, or, if the policy is not written on an occurrence basis, such policy with the coverage required herein shall continue in effect for a period of three years following the date CONTRACTOR completes its performance of services under this AGREEMENT.

8.4.2 Each liability policy shall provide that COUNTY shall be given notice in writing at least thirty days in advance of any endorsed reduction in coverage or limit, cancellation, or intended non-renewal thereof. Each policy shall provide coverage for CONTRACTOR and additional insureds with respect to claims arising from each subcontractor, if any, performing work under this AGREEMENT, or be accompanied by a certificate of insurance from each subcontractor showing each subcontractor has identical insurance coverage to the above requirements.

8.4.3 *Commercial general liability and automobile liability policies shall provide an endorsement naming the County of Monterey, its officers, agents, and employees as Additional Insureds with respect to liability arising out of the CONTRACTOR'S work, including ongoing and completed operations, and shall further provide that such insurance is primary insurance to any insurance or self- insurance maintained by the County and that the insurance of the Additional Insureds shall not be called upon to contribute to a loss covered by the CONTRACTOR'S insurance. The required endorsement form for Commercial General Liability Additional Insured is ISO Form CG 20 10 11-85 or CG 20 10 10 01 in tandem with CG 20 37 10 01 (2000). The required endorsement form for Automobile Additional Insured endorsement is ISO Form CA 20 48 02 99.*

8.4.4 Prior to the execution of this AGREEMENT by COUNTY, CONTRACTOR shall file certificates of insurance with County's contract administrator and County's Contracts/Purchasing Division, showing that CONTRACTOR has in effect the insurance required by this AGREEMENT. CONTRACTOR shall file a new or amended certificate of insurance within five calendar days after any change is made in any insurance policy, which would alter the information on the certificate then on file. Acceptance or approval of insurance shall in no way modify or change the indemnification clause in this AGREEMENT, which shall continue in full force and effect.

8.4.5 CONTRACTOR shall at all times during the term of this AGREEMENT maintain in force the insurance coverage required under this AGREEMENT and shall send, without demand by COUNTY, annual certificates to County's Contract Administrator and County's Contracts/Purchasing Division. If the certificate is not received by the expiration date, COUNTY shall notify CONTRACTOR and CONTRACTOR shall have five calendar days to send in the certificate, evidencing no lapse in coverage during the interim. Failure by CONTRACTOR to maintain such insurance is a default of this AGREEMENT, which entitles COUNTY, at its sole discretion, to terminate this AGREEMENT immediately.

9.0 RECORDS AND CONFIDENTIALITY

9.1 Confidentiality: CONTRACTOR and its officers, employees, agents, and subcontractors shall comply with any and all federal, state, and local laws, which provide for the confidentiality of records and other information. CONTRACTOR shall not disclose any confidential records or other confidential information received from COUNTY or prepared in connection with the performance of this AGREEMENT, unless NMC specifically permits CONTRACTOR to disclose such records or information. CONTRACTOR shall promptly transmit to COUNTY any and all requests for disclosure of any such confidential records or information. CONTRACTOR shall not use any confidential information gained by CONTRACTOR in the performance of this AGREEMENT except for the sole purpose of carrying out CONTRACTOR's obligations under this AGREEMENT.

9.2 County of Monterey Records: When this AGREEMENT expires or terminates, CONTRACTOR shall return to COUNTY any COUNTY records which CONTRACTOR used or received from NMC to perform services under this AGREEMENT.

9.3 Maintenance of Records: CONTRACTOR shall prepare, maintain, and preserve all reports and records that may be required by federal, state, and COUNTY and Natividad Medical Center rules and regulations related to services performed under this AGREEMENT.

9.4 Access to and Audit of Records: Natividad Medical Center (COUNTY) have the right to examine, monitor and audit all records, documents, conditions, and activities of CONTRACTOR and its subcontractors related to services provided under this AGREEMENT. The parties to this AGREEMENT may be subject, at the request of COUNTY or as part of any audit of COUNTY, to the examination and audit of the State Auditor pertaining to matters connected with the performance of this AGREEMENT for a period of three years after final payment under the AGREEMENT.

9.5 CONTRACTOR agrees that any information, whether proprietary or not, made known to or discovered by it during the performance of or in connection with this AGREEMENT for COUNTY will be kept confidential and not be disclosed to any other person. CONTRACTOR agrees to immediately notify COUNTY in accordance with the Notices Section of this AGREEMENT, if it is requested to disclose any information made known to or discovered by it during the performance of or in connection with this AGREEMENT. These conflict of interest and future service provisions and limitations shall remain fully effective five (5) years after termination of services to COUNTY hereunder.

10.0 NON-DISCRIMINATION

10.1 During the performance of this contract, CONTRACTOR shall not unlawfully discriminate against any employee or applicant for employment because of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, age (over 40), sex, or sexual orientation. CONTRACTOR shall ensure that the evaluation and treatment of its employees and applicants for employment are free of such

discrimination.

10.2 The applicable regulations of the Fair Employment and Housing Commission implementing Government Code, §12900, et seq., set forth in Chapter 5 of Division 4 of Title 2 of the California Code of Regulations are incorporated into this AGREEMENT by reference and made a part hereof as if set forth in full.

10.3 CONTRACTOR shall include the non-discrimination and compliance provisions of the clause in all agreements with subcontractors to perform work under the contract.

11.0 OVERRIDING CONTRACTOR PERFORMANCE REQUIREMENTS

11.1 Independent Contractor: CONTRACTOR shall be an independent contractor and shall not be an employee of Monterey County, nor immediate family of an employee of County. CONTRACTOR shall be responsible for all insurance (General Liability, Automobile, Workers' Compensation, unemployment, etc.,) and all payroll-related taxes. CONTRACTOR shall not be entitled to any employee benefits. CONTRACTOR shall control the manner and means of accomplishing the result contracted for herein.

11.2 Minimum Work Performance Percentage: CONTRACTOR shall perform with his own organization contract work amounting to not less than 50 percent of the original total AGREEMENT amount, except that any designated 'Specialty Items' may be performed by subcontract and the amount of any such 'Specialty Items' so performed may be deducted from the original total AGREEMENT amount before computing the amount of work required to be performed by CONTRACTOR with his own organization or per a consortium.

11.3 Non-Assignment: CONTRACTOR shall not assign this contract or the work required herein without the prior written consent of County.

11.4 Any subcontractor shall comply with all of COUNTY requirements, including insurance and indemnification requirements as detailed in SAMPLE AGREEMENT.

12.0 CONFLICT OF INTEREST

12.1 CONTRACTOR covenants that it presently has no interest, and shall not have any interest, direct or indirect, which would conflict in any manner with the performance of services required under this AGREEMENT. Without limitation, CONTRACTOR represents to and agrees with COUNTY that CONTRACTOR has no present, and will have no future, conflict of interest between providing COUNTY hereunder and any other person or entity (including but not limited to any federal or state environmental or regulatory agency) which has any interest adverse or potentially adverse to COUNTY, as determined in the reasonable judgment of the Board of Supervisors of County.

13.0 COMPLIANCE WITH APPLICABLE LAWS

13.1 CONTRACTOR shall keep itself informed of and in compliance with all federal, state and local laws, ordinances, regulations, and orders, including but not limited to all state and federal tax laws that may affect in any manner the Project or the performance of the Services or those engaged to perform Services under this AGREEMENT. CONTRACTOR shall procure all permits and licenses, pay all charges and fees, and give all notices required by law in the performance of the Services.

13.2 CONTRACTOR shall report immediately to Natividad's Contracts/Purchasing Officer, in writing, any discrepancy or inconsistency it discovers in the laws, ordinances, regulations, orders, and/or guidelines in relation to the Project of the performance of the Services.

13.3 All documentation prepared by CONTRACTOR shall provide for a completed project that conforms to all applicable codes, rules, regulations and guidelines that are in force at the time such documentation is prepared.

13.4 COMPLIANCE WITH TERMS OF STATE OR FEDERAL GRANT. If this Agreement has been or will be funded with monies received by the County pursuant to a contract with the state or federal government in which the COUNTY is the grantee, CONTRACTOR will comply with all the provisions of said contract, to the extent applicable to CONTRACTOR as a subgrantee under said contract, and said provisions shall be deemed a part of this AGREEMENT, as though fully set forth herein. Upon request, NMC will deliver a copy of said contract to CONTRACTOR, at no cost to CONTRACTOR.

14.0 PREVAILING WAGE

14.1 CONTRACTOR shall comply with Section 1720, et. seq., of the Labor Code, regarding the general prevailing wage rates of per diem, holiday, and overtime wages for each craft, classification, or type of worker needed to execute the AGREEMENT where applicable.

15.0 DRUG FREE WORKPLACE

15.1 CONTRACTOR and CONTRACTOR'S employees shall comply with the County's policy of maintaining a drug free workplace. Neither CONTRACTOR nor CONTRACTOR'S employees shall unlawfully manufacture, distribute, dispense, possess or use controlled substances, as defined in 21 U.S. Code § 812, including, but not limited to, marijuana, heroin, cocaine, and amphetamines, at any County facility or work site. If CONTRACTOR or any employee of CONTRACTOR is convicted or pleads no contest to a criminal drug statute violation occurring at a County facility or work site, the CONTRACTOR shall, within five days thereafter notify the head of the NMC department/agency for which the AGREEMENT services are performed. Violation of this provision shall constitute a material breach of this AGREEMENT.

16.0 TIME OF ESSENCE

16.1 Time is of the essence in respect to all provisions of this AGREEMENT that specify a time for performance; provided, however, that the foregoing shall not be construed to limit or deprive a party of the benefits of any grace or use period allowed in this AGREEMENT.

17.0 PERFORMANCE ASSURANCE

17.1 Assurance of Performance: If at any time COUNTY believes CONTRACTOR may not be adequately performing its obligations under this AGREEMENT or that CONTRACTOR may fail to complete the Services as required by this AGREEMENT, County may request from CONTRACTOR prompt written assurances of performance and a written plan acceptable to County, to correct the observed deficiencies in CONTRACTOR'S performance. CONTRACTOR shall provide such written assurances and written plan within ten (10) calendar days of its receipt of COUNTY's request and shall thereafter diligently commence and fully perform such written plan. CONTRACTOR acknowledges and agrees that any failure to provide such written assurances and written plan within the required time is a material breach under this AGREEMENT. If COUNTY accepts the plan it shall issue a signed waiver.

17.1.1 Waiver: No waiver of a breach, failure of any condition, or any right or remedy contained in or granted by the provisions of this AGREEMENT shall be effective unless it is in writing and signed by the party waiving the breach, failure, right or remedy. No waiver of any breach, failure, right or remedy shall be deemed a waiver of any other breach, failure, right or remedy, whether or not similar, nor shall any waiver constitute a continuing waiver unless the writing so specifies.

18.0 TRAVEL REIMBURSEMENT

18.1 Travel reimbursements are not permitted for this AGREEMENT.

19.0 EMERGENCY SITUATIONS

19.1 CONTRACTOR shall provide the name and contact information of a representative who shall be available 24 hours a day, 7 days a week, in the event of an emergency. During the emergency, CONTRACTOR shall provide COUNTY with all available supplies, materials, equipment and/or services on a priority basis.

19.2 COUNTY expects emergency deliveries to occur within 4 hours of order placement and may be required during evenings, weekends, and holidays. Time is of the essence for delivery during emergency situations. Delivery location(s) and estimated arrival will be mutually agreed upon, by COUNTY and CONTRACTOR, at time of order and will be

determined based on need and existing conditions. It is understood that current conditions, such as power outages, road closures, and damages to CONTRACTOR's facility and/or equipment, will be taken into consideration.

20.0 NON-APPROPRIATIONS CLAUSE

20.1 Notwithstanding anything contained in this AGREEMENT to the contrary, if insufficient funds are appropriated, or funds are otherwise unavailable in the budget for COUNTY for any reason whatsoever in any fiscal year, for payments due under this AGREEMENT, COUNTY will immediately notify CONTRACTOR of such occurrence, and this AGREEMENT shall terminate after the last day during the fiscal year for which appropriations shall have been budgeted for COUNTY or are otherwise available for payments.

21.0 WARRANTY BY CONTRACTOR

21.1 CONTRACTOR shall perform all services and provide all drawing and documents in accordance with applicable codes and regulations, and shall be fully responsible for the content of all design documents prepared or provided under this AGREEMENT. Time is of the essence of this AGREEMENT.

22.0 NOTICES

22.1 Notices required to be given to the respective parties under this AGREEMENT shall be deemed given by any of the following means: (1) when personally delivered to NMC's contract administrator or to CONTRACTOR'S responsible officer; (2) when personally delivered to the party's principle place of business during normal business hours, by leaving notice with any person apparently in charge of the office and advising such person of the import and contents of the notice; (3) 24 hours after the notice is transmitted by FAX machine to the other party, at the party's FAX number specified pursuant to this AGREEMENT, provided that the party giving notice by FAX must promptly confirm receipt of the FAX by telephone to the receiving party's office; or, (4) three (3) days after the notice is deposited in the U. S. mail with first class or better postage fully prepaid, addressed to the party as indicated below.

22.2 Notices mailed or faxed to the parties shall be addressed as follows:

TO NMC:
Natividad Medical Center
Attn: CONTRACTS DIVISION
1441 Constitution Blvd
Salinas, CA 93906
PHONE 831-755-4111

TO CONTRACTOR:
19six Architects
303 Potero St., Suite 5
Santa Cruz, CA 95060

23.0 LEGAL DISPUTES

23.1 CONTRACTOR agrees that this AGREEMENT and any dispute arising from the relationship between the parties to this AGREEMENT, shall be governed and interpreted by the laws of the State of California, excluding any laws that direct the application of another jurisdiction's laws.

23.2 Any dispute that arises under or relates to this AGREEMENT (whether contract, tort, or both) shall be resolved in the Superior Court of California in Monterey County, California.

23.3 CONTRACTOR shall continue to perform under this AGREEMENT during any dispute.

22.4 The parties agree to waive their separate rights to a trial by jury. This waiver means that the trial will be before a judge.

24.0 GENERAL PROVISIONS

23.1 Counterparts. This Agreement may be executed in one or more counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.

23.2 Entire Agreement. This Agreement is the entire understanding and agreement of the Parties regarding its subject matter, and supersedes any prior oral or written agreements, representations, understandings or discussions between the Parties. Subject to Section 22.3, no other understanding between the Parties shall be binding on them unless set forth in writing, signed and attached to this Agreement.

23.3 Exhibits. The attached Exhibits, together with all documents incorporated by reference in the exhibits, form an integral part of this Agreement and are incorporated by reference into this Agreement, wherever reference is made to them to the same extent as if they were set out in full at the point at which such reference is made.

23.4 Severability. If any provision of this Agreement is determined to be illegal or unenforceable, that provision shall be severed from this Agreement, and such severance shall have no effect upon the enforceability of the remainder of this Agreement.

23.5 Statutes and Regulations. Any reference in this Agreement to any statute, regulation, ruling, or administrative order or decree shall include, and be a reference to any successor statute, regulation, ruling, or administrative order or decree.

23.6 Waiver. No delay or failure to require performance of any provision of this Agreement shall constitute a waiver of that provision as to that or any other instance. Any waiver granted

by a Party must be in writing to be effective, and shall apply solely to the specific instance expressly stated.

The remainder of this page was intentionally left blank.

~ Signature page to follow ~

COUNTY OF MONTEREY on behalf of NATIVIDAD MEDICAL CENTER

By: _____
for Charles R. Harris, Interim CEO

Date: 3-25-22

APPROVED AS TO LEGAL PROVISIONS

By: _____
Monterey County Deputy County Counsel

Chief Deputy County Counsel
Date: 2/28/2022

APPROVED AS TO FISCAL PROVISIONS

By: _____
Monterey County Deputy Auditor/Controller

Date: 3/8/2022

CONTRACTOR

19six Architects
CONTRACTOR's Business Name
See instructions below

By: _____
(Signature of: Chair, President, or Vice-President)

Alan Kroeker, President
Name and Title

Date: 01-13-22

By: _____
(Signature of: Secretary, Asst. Secretary, CFO, Treasurer, or Asst. Treasurer)

Mariana Alvarez-Parga, Secretary
Name and Title

Date: 1-14-22

Instructions

If CONTRACTOR is a corporation; including limited liability and non-profit corporations, the full legal name of the corporation shall be set forth above together with the signatures of two specified officers (two signatures required).

If CONTRACTOR is a partnership; the name of the partnership shall be set forth above together with the signature of a partner who has authority to execute this Agreement on behalf of the partnership (two signatures required).

If CONTRACTOR is contracting in an individual capacity, the individual shall set forth the name of the business, if any and shall personally sign the Agreement (one signature required).

Exhibit A: Scope of Services/Payment Provisions

Staff Member	2022 Hourly Rate
Principal	$325
Sr. Project Manager	$250
Project Manager	$230
Design Principal	$290
Sr. Designer	$235
Project Designer	$190
HCAI (OSHPD) Liaison/Code Specialist	$270
Sr. Project Architect	$250
Project Architect II	$190
Project Architect I	$165
Sr. Project Coordinator	$185
Project Coordinator II	$165
Project Coordinator I	$140
Sr. Interior Designer	$210
Interior Designer II	$180
Interior Designer I	$160
Design Coordinator	$140
Specifications Specialist	$200
Hardware Specialist	$190
Sr. Engineer (Structural, Mechanical, Electrical, and Industrial	$270
Engineer II (Structural, Mechanical, Electrical, and Industrial)	$235
Engineer I (Structural, Mechanical, Electrical, and Industrial)	$200
HCAI (OSHPD) Document Coordinator	$145
Sr. Cost Estimator	$250
Cost Estimator	$195
Administrative Staff	$135

Monterey County
Board of Supervisors

168 West Alisal Street,
1st Floor
Salinas, CA 93901
831.755.5066
www.co.monterey.ca.us

Board Order

A motion was made by Supervisor John M. Phillips, seconded by Supervisor Chris Lopez to:

Agreement No.: A-15729 Hammel, Green and Abrahamson, Inc.
Agreement No.: A-15730 19six Architects
Agreement No.: A-15731 Cedarblade Consulting
Agreement No.: A-15732 Kasavan Architects
Agreement No.: A-15733 Wald, Ruhnke & Dost Architects, LLP
Authorize the Interim Chief Executive Officer for Natividad Medical Center (NMC) or his designee to execute Agreements with Hammel, Green and Abrahamson, Inc., 19six Architects, Cedarblade Consulting, Kasavan Architects, and Wald, Ruhnke & Dost Architects, LLP pursuant to the Request for Qualifications (RFQ) #9600-86, each with a retroactive term of February 1, 2022 through January 31, 2027 with a total aggregate amount for all Agreements not to exceed $5,000,000.

PASSED AND ADOPTED on this 22nd day of March 2022, by roll call vote:

AYES: Supervisors Alejo, Phillips, Lopez, Askew and Adams
NOES: None
ABSENT: None
(Government Code 54953)

I, Valerie Ralph, Clerk of the Board of Supervisors of the County of Monterey, State of California, hereby certify that the foregoing is a true copy of an original order of said Board of Supervisors duly made and entered in the minutes thereof of Minute Book 82 for the meeting March 22, 2022.

Dated: March 24, 2022
File ID: A 22-087
Agenda Item No.: 28

Valerie Ralph, Clerk of the Board of Supervisors
County of Monterey, State of California

Julian Lorenzana, Deputy

AGREEMENT BETWEEN COUNTY OF MONTEREY ON BEHALF OF NATIVIDAD MEDICAL CENTER AND CEDARBLADE CONSULTING

This AGREEMENT is made and entered into by and between County of Monterey, on behalf of Natividad Medical Center, a political subdivision of the State of California, (hereinafter referred to as "COUNTY"), and Cedarblade Consulting, hereinafter referred to as "CONTRACTOR."

1.0 RECITALS

County of Monterey ("County") owns and operates Natividad, a general acute care teaching hospital facility located in Salinas, California and various outpatient clinics (collectively, the "Clinic") under its acute care hospital license.

WHEREAS, COUNTY has invited proposals through the Request for Qualifications RFQ# 9600-86 for to provide **ON-CALL ARCHITECTURAL SERVICES WHEREBY THE TOTAL FEE FOR THE ARCHITRECTURAL SERVICES IS UNDER AND OVER $100,000 PER EACH PROJECT**, in accordance with the specifications set forth in this AGREEMENT; and

WHEREAS, CONTRACTOR has submitted a responsive and responsible proposal to perform such services; and

WHEREAS, CONTRACTOR has the expertise and capabilities necessary to provide the services requested.

NOW THEREFORE, COUNTY and CONTRACTOR, for the consideration hereinafter named, agree as follows:

2.0 PERFORMANCE OF THE AGREEMENT

2.1 After consideration and evaluation of the CONTRACTOR'S proposal, COUNTY hereby engages CONTRACTOR to provide the services set forth in RFQ #9600-86 and in this AGREEMENT on the terms and conditions contained herein and in RFQ #9600-86. The intent of this AGREEMENT is to summarize the contractual obligations of the parties. The component parts of this AGREEMENT include the following:

This AGREEMENT including all its attachments, Exhibits and Appendix
RFQ #9600-86 plus all associated Addenda
CONTRACTOR'S Qualifications Package dated 10/29/21
Certificate of Insurance
Additional Insured Endorsements

2.2 All of the above-referenced contract documents are intended to be complementary. Work required by one of the above-referenced contract documents and not by others shall be done

as if required by all. In the event of a conflict between or among component parts of the contract, the contract documents shall be construed in the following order: plus, RFQ Addenda #9600-86, CONTRACTOR's Qualifications Package, Certificate of Insurance and Additional Insured Endorsements.

2.3 CONTRACTOR warrants that CONTRACTOR and CONTRACTOR's agents, employees, and subcontractors performing services under this AGREEMENT are specially trained, experienced, competent, and appropriately licensed to perform the work and deliver the services required under this AGREEMENT and are not employees of the County, or immediate family of an employee of the County.

2.4 CONTRACTOR, its agents, employees, and subcontractors shall perform all work in a safe and skillful manner and in compliance with all applicable laws and regulations. All work performed under this AGREEMENT that is required by law to be performed or supervised by licensed personnel shall be performed in accordance with such licensing requirements.

2.4.1 CONTRACTOR must maintain all licenses throughout the term of the AGREEMENT.

2.5 CONTRACTOR shall furnish, at its own expense, all materials, equipment, and personnel necessary to carry out the terms of this AGREEMENT, except as otherwise specified in this AGREEMENT. CONTRACTOR shall not use COUNTY premises, property (including equipment, instruments, or supplies) or personnel for any purpose other than in the performance of its obligations under this AGREEMENT.

3.0 SCOPE OF SERVICE

3.1 The scope of services shall include, in general, the full range of professional architectural services typically required for architectural projects in the public sector. Tasks may include but are not limited to the following:

- Program Development to Program Validation including Concept Development and Spatial Programming Studies
- Feasibility Studies/Project Definition
- Bid Scoping Documents
- All Phases of Project Design and Disciplines
- Specifications
- Design Reviews
- Cost Estimating
- Value Engineering
- Constructability Reviews
- Building Evaluations
- Troubleshooting
- Construction Support Services
- BIM/CADD/Drafting Work

3.2 Additional requirements include but are not limited to the following:

3.2.1 Services will be rendered at the request of County. As projects arise County will select qualified architectural firms based upon specialty in most situations and request that they provide a detailed scope and cost. Proposals submitted on a per-project basis after an Agreement has been executed may be subject to negotiation. County reserves the right to select the architect it believes to be the most qualified for each project that arises.

3.2.2 County has a implemented Job Order Contracting (JOC) construction delivery method. Not all construction projects will use the JOC program. For those projects which Natividad does use the JOC program to complete, CONTRACTOR shall become familiar with the quality and workmanship required by the applicable Construction Task Catalogs (CTC) and coordinates and adjusts specifications and details produced by the JOC General Contractor.

3.3 CONTRACTOR will advocate for County and ensure the project produced is in the best interest of County. **CONTRACTOR is expected to deliver products on or ahead of the required schedule and within budget.**

3.4 All work shall be done in conformance with all applicable County, State and Federal laws, County Design Manuals, County Standard Plans, all Caltrans manuals, policies, State Standard Plans and Specifications, Manual of Uniform Control Devices, Uniform Building Code, (Fire, Electrical), Americans with Disabilities Act (ADA), California Green Building Standards Code (Part 11, Title 24, California Code of Regulations); and as revised and amended by County ordinance.

4.0 TERM OF AGREEMENT

4.1 The initial term shall commence with the signing of this AGREEMENT for a period of 5 years.

4.2 CONTRACTOR shall commence negotiations for any desired fee changes a minimum of sixty days (90) prior to the expiration of this AGREEMENT in order to be considered.

3.2.1 Both parties shall agree upon changes to fees in writing.

4.3 COUNTY reserves the right to cancel this AGREEMENT, or any extension of this AGREEMENT, without cause, with a thirty day (30) written notice, or immediately with cause.

5.0 COMPENSATION AND PAYMENTS

5.1 There is no specific dollar amount associated with the Agreement(s) awarded per RFQ #9600-63. Services are on an as-needed basis and shall be authorized by NMC only upon

mutual agreement of CONTRACTORS project proposal. Project proposals will be requested as needed and are subject to negotiations.

5.2 CONTRACTOR billing rates attached to the Agreement shall remain firm for the initial term of this AGREEMENT. Any proposed rate adjustments shall adhere to Section 3.2 and 3.2.1 herein.

5.3 Any discount offered by the CONTRACTOR must allow for payment after receipt and acceptance of services, material or equipment and correct invoice, whichever is later. In no case will a discount be considered that requires payment in less than 30 days.

5.4 CONTRACTOR shall levy no additional fees or surcharges of any kind during the term of this AGREEMENT without first obtaining approval from COUNTTY in writing.

5.5 Tax:

4.5.1 Pricing as per this AGREEMENT is inclusive of all applicable taxes.

4.5.2 County is registered with the Internal Revenue Service, San Francisco office, and registration number 94-6000524. The County is exempt from Federal Transportation Tax; an exemption certificate is not required where shipping documents show Monterey County as consignee.

5.6 COUNTY does not guarantee any minimum or maximum amount of dollars to be spent under this AGREEMENT.

6.0 INVOICES AND PURCHASE ORDERS

6.1 Invoices for all services rendered per this AGREEMENT shall be billed directly Natividad Medical Center at the following address:

Natividad Medical Center
Attn: Accounts Payable
PO Box 81611
Salinas, CA 93912

6.2 CONTACTOR shall reference RFQ #9600-86 on all invoices submitted to Natividad Medical Center. CONTRACTOR shall submit such invoices periodically or at the completion of services, but in any event, not later than 30 days after completion of services. The invoice shall set forth the amounts claimed by CONTRACTOR for the previous period, together with an itemized basis for the amounts claimed, and such other information pertinent to the invoice. Natividad shall certify the invoice, either in the requested amount or in such other amount as Natividad approves in conformity with this AGREEMENT, and shall promptly submit such invoice to County Auditor-Controller for payment. County Auditor- Controller shall pay the amount certified within 30 days of receiving the certified invoice.

6.3 All Natividad Purchase Orders issued for the AGREEMENT are valid only during the fiscal year in which they are issued (the fiscal year is defined as July 1 through June 30).

6.4 Unauthorized Surcharges or Fees: Invoices containing unauthorized surcharges or unauthorized fees of any kind shall be rejected by NMC. Surcharges and additional fees not included the AGREEMENT must be approved by NMC in writing via an Amendment.

7.0 DESIGN PROFESSIONAL INDEMNIFICATION

7.1 For purposes of the following indemnification provisions ("Indemnification Agreement"), "design professional" has the same meaning as set forth in California Civil Code section 2782.8. If any term, provision or application of this Indemnification Agreement is found to be invalid, in violation of public policy or unenforceable to any extent, such finding shall not invalidate any other term or provision of this Indemnification Agreement and such other terms and provisions shall continue in full force and effect. If there is any conflict between the terms, provisions or application of this Indemnification Agreement and the provisions of California Civil Code Sections 2782 or 2782.8, the broadest indemnity protection for COUNTY under this Indemnity Agreement that is permitted by law shall be provided by CONTRACTOR.

7.2 Indemnification for Design Professional Services Claims:
CONTRACTOR shall indemnify, defend and hold harmless COUNTY, its governing board, directors, officers, employees, and agents against any claims that arise out of, or pertain to, or relate to the negligence, recklessness, or willful misconduct of CONTRACTOR, its employees, subcontractors, and agents in the performance of design professional services under this Agreement, excepting only liability arising from the sole negligence, active negligence or willful misconduct of COUNTY, or defect in a design furnished by COUNTY, but in no event shall the amount of such CONTRACTOR's liability exceed such CONTRACTOR's proportionate percentage of fault as determined by a court, arbitrator or mediator, or as set out in a settlement agreement. In the event one (1) or more defendants to any action involving such claim or claims against COUNTY is unable to pay its share of defense costs due to bankruptcy or dissolution of the business, such CONTRACTOR shall meet and confer with the other parties to such action regarding unpaid defense costs.

7.3 Indemnification for All Other Claims or Loss:
For any claim, loss, injury, damage, expense or liability other than claims arising out of CONTRACTOR's performance of design professional services under this Agreement, CONTRACTOR shall indemnify, defend and hold harmless COUNTY, its governing board, directors, officers, employees, and agents against any claim for loss, injury, damage, expense or liability resulting from or alleging injury to or death of any person or loss of use of or damage to property, arising from or related to the performance of services under this Agreement by COUNTY, its employees, subcontractors or agents, excepting only liability arising from the sole negligence, active negligence or willful misconduct of COUNTY, or defect in a design furnished by COUNTY.

8.0 INSURANCE REQUIREMENTS

8.1 Evidence of Coverage:

8.1.1 Prior to commencement of this AGREEMENT, CONTRACTOR shall provide a "Certificate of Insurance" certifying that coverage as required herein has been obtained. Individual endorsements executed by the insurance carrier shall accompany the certificate. In addition, CONTRACTOR, upon request, shall

provide a certified copy of the policy or policies.

8.1.2 This verification of coverage shall be sent to the County's Contracts/Purchasing Department, unless otherwise directed. CONTRACTOR shall not receive a "Notice to Proceed" with the work under this AGREEMENT until it has obtained all insurance required and such, insurance has been approved by COUNTY. This approval of insurance shall neither relieve nor decrease the liability of CONTRACTOR.

8.2 Qualifying Insurers: All coverages, except surety, shall be issued by companies which hold a current policy holder's alphabetic and financial size category rating of not less than A- VII, according to the current Best's Key Rating Guide or a company of equal financial stability that is approved by County's Purchasing Officer.

8.3 Insurance Coverage Requirements:

8.3.1 Without limiting CONTRACTOR's duty to indemnify, CONTRACTOR shall maintain in effect throughout the term of this AGREEMENT a policy or policies of insurance with the following minimum limits of liability:

8.3.1.1 Commercial general liability insurance, including but not limited to premises and operations, including coverage for Bodily Injury and Property Damage, Personal Injury, Contractual Liability, Broadform Property Damage, Independent Contractors, Products and Completed Operations, with a combined single limit for Bodily Injury and Property Damage of not less than $1,000,000 per occurrence.

8.3.1.2 Business automobile liability insurance, covering all motor vehicles, including owned, leased, non-owned, and hired vehicles, used in providing services under this AGREEMENT, with a combined single limit for Bodily Injury and Property Damage of not less than $1,000,000 per occurrence.

8.3.1.3 Workers' Compensation Insurance, if CONTRACTOR employs others in the performance of this AGREEMENT, in accordance with California Labor Code section 3700 and with Employer's Liability limits not less than $1,000,000 each person, $1,000,000 each accident and $1,000,000 each disease.

8.3.1.4 Professional liability insurance, if required for the professional services being provided, (e.g., those persons authorized by a license to engage in a business or profession regulated by the California Business and Professions Code), in the amount of not less than $1,000,000 per claim and $2,000,000 in the aggregate, to cover liability for malpractice or errors or omissions made in the course of rendering professional services. If professional liability insurance is written on a "claims-made" basis rather than an occurrence basis, CONTRACTOR shall, upon the expiration or earlier termination of this AGREEMENT, obtain extended reporting coverage ("tail coverage") with the same liability limits. Any such tail coverage shall continue for at least three years following the expiration or earlier termination of this AGREEMENT.

8.4 Other Insurance Requirements:

8.4.1 All insurance required by this AGREEMENT shall be with a company acceptable to County and issued and executed by an admitted insurer authorized to transact Insurance business in the State of California. Unless otherwise specified by this AGREEMENT, all such insurance shall be written on an occurrence basis, or, if the policy is not written on an occurrence basis, such policy with the coverage required herein shall continue in effect for a period of three years following the date CONTRACTOR completes its performance of services under this AGREEMENT.

8.4.2 Each liability policy shall provide that COUNTY shall be given notice in writing at least thirty days in advance of any endorsed reduction in coverage or limit, cancellation, or intended non-renewal thereof. Each policy shall provide coverage for CONTRACTOR and additional insureds with respect to claims arising from each subcontractor, if any, performing work under this AGREEMENT, or be accompanied by a certificate of insurance from each subcontractor showing each subcontractor has identical insurance coverage to the above requirements.

8.4.3 *Commercial general liability and automobile liability policies shall provide an endorsement naming the County of Monterey, its officers, agents, and employees as Additional Insureds with respect to liability arising out of the CONTRACTOR'S work, including ongoing and completed operations, and shall further provide that such insurance is primary insurance to any insurance or self- insurance maintained by the County and that the insurance of the Additional Insureds shall not be called upon to contribute to a loss covered by the CONTRACTOR'S insurance. The required endorsement form for Commercial General Liability Additional Insured is ISO Form CG 20 10 11-85 or CG 20 10 10 01 in tandem with CG 20 37 10 01 (2000). The required endorsement form for Automobile Additional Insured endorsement is ISO Form CA 20 48 02 99.*

8.4.4 Prior to the execution of this AGREEMENT by COUNTY, CONTRACTOR shall file certificates of insurance with County's contract administrator and County's Contracts/Purchasing Division, showing that CONTRACTOR has in effect the insurance required by this AGREEMENT. CONTRACTOR shall file a new or amended certificate of insurance within five calendar days after any change is made in any insurance policy, which would alter the information on the certificate then on file. Acceptance or approval of insurance shall in no way modify or change the indemnification clause in this AGREEMENT, which shall continue in full force and effect.

8.4.5 CONTRACTOR shall at all times during the term of this AGREEMENT maintain in force the insurance coverage required under this AGREEMENT and shall send, without demand by COUNTY, annual certificates to County's Contract Administrator and County's Contracts/Purchasing Division. If the certificate is not received by the expiration date, COUNTY shall notify CONTRACTOR and CONTRACTOR shall have five calendar days to send in the certificate, evidencing no lapse in coverage during the interim. Failure by CONTRACTOR to maintain such insurance is a default of this AGREEMENT, which entitles COUNTY, at its sole discretion, to terminate this AGREEMENT immediately.

9.0 RECORDS AND CONFIDENTIALITY

9.1 Confidentiality: CONTRACTOR and its officers, employees, agents, and subcontractors shall comply with any and all federal, state, and local laws, which provide for the confidentiality of records and other information. CONTRACTOR shall not disclose any confidential records or other confidential information received from COUNTY or prepared in connection with the performance of this AGREEMENT, unless NMC specifically permits CONTRACTOR to disclose such records or information. CONTRACTOR shall promptly transmit to COUNTY any and all requests for disclosure of any such confidential records or information. CONTRACTOR shall not use any confidential information gained by CONTRACTOR in the performance of this AGREEMENT except for the sole purpose of carrying out CONTRACTOR's obligations under this AGREEMENT.

9.2 County of Monterey Records: When this AGREEMENT expires or terminates, CONTRACTOR shall return to COUNTY any COUNTY records which CONTRACTOR used or received from NMC to perform services under this AGREEMENT.

9.3 Maintenance of Records: CONTRACTOR shall prepare, maintain, and preserve all reports and records that may be required by federal, state, and COUNTY and Natividad Medical Center rules and regulations related to services performed under this AGREEMENT.

9.4 Access to and Audit of Records: Natividad Medical Center (COUNTY) have the right to examine, monitor and audit all records, documents, conditions, and activities of CONTRACTOR and its subcontractors related to services provided under this AGREEMENT. The parties to this AGREEMENT may be subject, at the request of COUNTY or as part of any audit of COUNTY, to the examination and audit of the State Auditor pertaining to matters connected with the performance of this AGREEMENT for a period of three years after final payment under the AGREEMENT.

9.5 CONTRACTOR agrees that any information, whether proprietary or not, made known to or discovered by it during the performance of or in connection with this AGREEMENT for COUNTY will be kept confidential and not be disclosed to any other person. CONTRACTOR agrees to immediately notify COUNTY in accordance with the Notices Section of this AGREEMENT, if it is requested to disclose any information made known to or discovered by it during the performance of or in connection with this AGREEMENT. These conflict of interest and future service provisions and limitations shall remain fully effective five (5) years after termination of services to COUNTY hereunder.

10.0 NON-DISCRIMINATION

10.1 During the performance of this contract, CONTRACTOR shall not unlawfully discriminate against any employee or applicant for employment because of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, age (over 40), sex, or sexual orientation. CONTRACTOR shall ensure that the evaluation and treatment of its employees and applicants for employment are free of such

discrimination.

10.2 The applicable regulations of the Fair Employment and Housing Commission implementing Government Code, §12900, et seq., set forth in Chapter 5 of Division 4 of Title 2 of the California Code of Regulations are incorporated into this AGREEMENT by reference and made a part hereof as if set forth in full.

10.3 CONTRACTOR shall include the non-discrimination and compliance provisions of the clause in all agreements with subcontractors to perform work under the contract.

11.0 OVERRIDING CONTRACTOR PERFORMANCE REQUIREMENTS

11.1 Independent Contractor: CONTRACTOR shall be an independent contractor and shall not be an employee of Monterey County, nor immediate family of an employee of County. CONTRACTOR shall be responsible for all insurance (General Liability, Automobile, Workers' Compensation, unemployment, etc.,) and all payroll-related taxes. CONTRACTOR shall not be entitled to any employee benefits. CONTRACTOR shall control the manner and means of accomplishing the result contracted for herein.

11.2 Minimum Work Performance Percentage: CONTRACTOR shall perform with his own organization contract work amounting to not less than 50 percent of the original total AGREEMENT amount, except that any designated 'Specialty Items' may be performed by subcontract and the amount of any such 'Specialty Items' so performed may be deducted from the original total AGREEMENT amount before computing the amount of work required to be performed by CONTRACTOR with his own organization or per a consortium.

11.3 Non-Assignment: CONTRACTOR shall not assign this contract or the work required herein without the prior written consent of County.

11.4 Any subcontractor shall comply with all of COUNTY requirements, including insurance and indemnification requirements as detailed in SAMPLE AGREEMENT.

12.0 CONFLICT OF INTEREST

12.1 CONTRACTOR covenants that it presently has no interest, and shall not have any interest, direct or indirect, which would conflict in any manner with the performance of services required under this AGREEMENT. Without limitation, CONTRACTOR represents to and agrees with COUNTY that CONTRACTOR has no present, and will have no future, conflict of interest between providing COUNTY hereunder and any other person or entity (including but not limited to any federal or state environmental or regulatory agency) which has any interest adverse or potentially adverse to COUNTY, as determined in the reasonable judgment of the Board of Supervisors of County.

13.0 COMPLIANCE WITH APPLICABLE LAWS

13.1 CONTRACTOR shall keep itself informed of and in compliance with all federal, state and local laws, ordinances, regulations, and orders, including but not limited to all state and federal tax laws that may affect in any manner the Project or the performance of the Services or those engaged to perform Services under this AGREEMENT. CONTRACTOR shall procure all permits and licenses, pay all charges and fees, and give all notices required by law in the performance of the Services.

13.2 CONTRACTOR shall report immediately to Natividad's Contracts/Purchasing Officer, in writing, any discrepancy or inconsistency it discovers in the laws, ordinances, regulations, orders, and/or guidelines in relation to the Project of the performance of the Services.

13.3 All documentation prepared by CONTRACTOR shall provide for a completed project that conforms to all applicable codes, rules, regulations and guidelines that are in force at the time such documentation is prepared.

13.4 COMPLIANCE WITH TERMS OF STATE OR FEDERAL GRANT. If this Agreement has been or will be funded with monies received by the County pursuant to a contract with the state or federal government in which the COUNTY is the grantee, CONTRACTOR will comply with all the provisions of said contract, to the extent applicable to CONTRACTOR as a subgrantee under said contract, and said provisions shall be deemed a part of this AGREEMENT, as though fully set forth herein. Upon request, NMC will deliver a copy of said contract to CONTRACTOR, at no cost to CONTRACTOR.

14.0 PREVAILING WAGE

14.1 CONTRACTOR shall comply with Section 1720, et. seq., of the Labor Code, regarding the general prevailing wage rates of per diem, holiday, and overtime wages for each craft, classification, or type of worker needed to execute the AGREEMENT where applicable.

15.0 DRUG FREE WORKPLACE

15.1 CONTRACTOR and CONTRACTOR'S employees shall comply with the County's policy of maintaining a drug free workplace. Neither CONTRACTOR nor CONTRACTOR'S employees shall unlawfully manufacture, distribute, dispense, possess or use controlled substances, as defined in 21 U.S. Code § 812, including, but not limited to, marijuana, heroin, cocaine, and amphetamines, at any County facility or work site. If CONTRACTOR or any employee of CONTRACTOR is convicted or pleads no contest to a criminal drug statute violation occurring at a County facility or work site, the CONTRACTOR shall, within five days thereafter notify the head of the NMC department/agency for which the AGREEMENT services are performed. Violation of this provision shall constitute a material breach of this AGREEMENT.

16.0 TIME OF ESSENCE

16.1 Time is of the essence in respect to all provisions of this AGREEMENT that specify a time for performance; provided, however, that the foregoing shall not be construed to limit or deprive a party of the benefits of any grace or use period allowed in this AGREEMENT.

17.0 PERFORMANCE ASSURANCE

17.1 Assurance of Performance: If at any time COUNTY believes CONTRACTOR may not be adequately performing its obligations under this AGREEMENT or that CONTRACTOR may fail to complete the Services as required by this AGREEMENT, County may request from CONTRACTOR prompt written assurances of performance and a written plan acceptable to County, to correct the observed deficiencies in CONTRACTOR'S performance. CONTRACTOR shall provide such written assurances and written plan within ten (10) calendar days of its receipt of COUNTY's request and shall thereafter diligently commence and fully perform such written plan. CONTRACTOR acknowledges and agrees that any failure to provide such written assurances and written plan within the required time is a material breach under this AGREEMENT. If COUNTY accepts the plan it shall issue a signed waiver.

17.1.1 Waiver: No waiver of a breach, failure of any condition, or any right or remedy contained in or granted by the provisions of this AGREEMENT shall be effective unless it is in writing and signed by the party waiving the breach, failure, right or remedy. No waiver of any breach, failure, right or remedy shall be deemed a waiver of any other breach, failure, right or remedy, whether or not similar, nor shall any waiver constitute a continuing waiver unless the writing so specifies.

18.0 TRAVEL REIMBURSEMENT

18.1 Travel reimbursements are not permitted for this AGREEMENT.

19.0 EMERGENCY SITUATIONS

19.1 CONTRACTOR shall provide the name and contact information of a representative who shall be available 24 hours a day, 7 days a week, in the event of an emergency. During the emergency, CONTRACTOR shall provide COUNTY with all available supplies, materials, equipment and/or services on a priority basis.

19.2 COUNTY expects emergency deliveries to occur within 4 hours of order placement and may be required during evenings, weekends, and holidays. Time is of the essence for delivery during emergency situations. Delivery location(s) and estimated arrival will be mutually agreed upon, by COUNTY and CONTRACTOR, at time of order and will be

determined based on need and existing conditions. It is understood that current conditions, such as power outages, road closures, and damages to CONTRACTOR's facility and/or equipment, will be taken into consideration.

20.0 NON-APPROPRIATIONS CLAUSE

20.1 Notwithstanding anything contained in this AGREEMENT to the contrary, if insufficient funds are appropriated, or funds are otherwise unavailable in the budget for COUNTY for any reason whatsoever in any fiscal year, for payments due under this AGREEMENT, COUNTY will immediately notify CONTRACTOR of such occurrence, and this AGREEMENT shall terminate after the last day during the fiscal year for which appropriations shall have been budgeted for COUNTY or are otherwise available for payments.

21.0 WARRANTY BY CONTRACTOR

21.1 CONTRACTOR shall perform all services and provide all drawing and documents in accordance with applicable codes and regulations, and shall be fully responsible for the content of all design documents prepared or provided under this AGREEMENT. Time is of the essence of this AGREEMENT.

22.0 NOTICES

22.1 Notices required to be given to the respective parties under this AGREEMENT shall be deemed given by any of the following means: (1) when personally delivered to NMC's contract administrator or to CONTRACTOR'S responsible officer; (2) when personally delivered to the party's principle place of business during normal business hours, by leaving notice with any person apparently in charge of the office and advising such person of the import and contents of the notice; (3) 24 hours after the notice is transmitted by FAX machine to the other party, at the party's FAX number specified pursuant to this AGREEMENT, provided that the party giving notice by FAX must promptly confirm receipt of the FAX by telephone to the receiving party's office; or, (4) three (3) days after the notice is deposited in the U. S. mail with first class or better postage fully prepaid, addressed to the party as indicated below.

22.2 Notices mailed or faxed to the parties shall be addressed as follows:

TO NMC:
Natividad Medical Center
Attn: CONTRACTS DIVISION
1441 Constitution Blvd
Salinas, CA 93906
PHONE 831-755-4111

TO CONTRACTOR:
Cedarblade Consulting
2173 Hicks Ave.
San Jose, CA 95125

23.0 LEGAL DISPUTES

23.1 CONTRACTOR agrees that this AGREEMENT and any dispute arising from the relationship between the parties to this AGREEMENT, shall be governed and interpreted by the laws of the State of California, excluding any laws that direct the application of another jurisdiction's laws.

23.2 Any dispute that arises under or relates to this AGREEMENT (whether contract, tort, or both) shall be resolved in the Superior Court of California in Monterey County, California.

23.3 CONTRACTOR shall continue to perform under this AGREEMENT during any dispute.

22.4 The parties agree to waive their separate rights to a trial by jury. This waiver means that the trial will be before a judge.

24.0 GENERAL PROVISIONS

23.1 Counterparts. This Agreement may be executed in one or more counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.

23.2 Entire Agreement. This Agreement is the entire understanding and agreement of the Parties regarding its subject matter, and supersedes any prior oral or written agreements, representations, understandings or discussions between the Parties. Subject to Section 22.3, no other understanding between the Parties shall be binding on them unless set forth in writing, signed and attached to this Agreement.

23.3 Exhibits. The attached Exhibits, together with all documents incorporated by reference in the exhibits, form an integral part of this Agreement and are incorporated by reference into this Agreement, wherever reference is made to them to the same extent as if they were set out in full at the point at which such reference is made.

23.4 Severability. If any provision of this Agreement is determined to be illegal or unenforceable, that provision shall be severed from this Agreement, and such severance shall have no effect upon the enforceability of the remainder of this Agreement.

23.5 Statutes and Regulations. Any reference in this Agreement to any statute, regulation, ruling, or administrative order or decree shall include, and be a reference to any successor statute, regulation, ruling, or administrative order or decree.

23.6 Waiver. No delay or failure to require performance of any provision of this Agreement shall constitute a waiver of that provision as to that or any other instance. Any waiver granted

by a Party must be in writing to be effective, and shall apply solely to the specific instance expressly stated.

The remainder of this page was intentionally left blank.

~ Signature page to follow ~

COUNTY OF MONTEREY on behalf of NATIVIDAD MEDICAL CENTER

By: _____
for Charles R. Harris, Interim CEO

Date: 3-25-22

APPROVED AS TO LEGAL PROVISIONS

By: _____
Monterey County Deputy County Counsel

Date: Chief Deputy County Counsel, 2/28/2022

APPROVED AS TO FISCAL PROVISIONS

By: Joey Nolasco
Monterey County Deputy Auditor/Controller

Date: 3/8/2022

CONTRACTOR

Cedarblade Consulting
CONTRACTOR's Business Name
See instructions below

By: _____
(Signature of: Chair, President, or Vice-President)

Frank Cedarblade - President
Name and Title

Date: 1/13/2022

By: _____
(Signature of: Secretary, Asst. Secretary, CFO, Treasurer, or Asst. Treasurer)

_____
Name and Title

Date: _____

Instructions

If CONTRACTOR is a corporation; including limited liability and non-profit corporations, the full legal name of the corporation shall be set forth above together with the signatures of two specified officers (two signatures required).

If CONTRACTOR is a partnership; the name of the partnership shall be set forth above together with the signature of a partner who has authority to execute this Agreement on behalf of the partnership (two signatures required).

If CONTRACTOR is contracting in an individual capacity, the individual shall set forth the name of the business, if any and shall personally sign the Agreement (one signature required).

Exhibit A: Scope of Work/Payment Provisions

Please list all key personnel and fees to be utilized for on-call Architectural Services for NMC:

Position/Title (Indicate Below)	**Hourly Rate**
Frank Cedarblade (Principal Architect)	$220/hr.
Clementine Mainini (Sr. Project Manager)	$195/hr.
Job Captain	$145/hr.
Draftsperson	$130/hr.
Administration	$105/hr.

Reimbursable Items to be Billed (please list)	**Estimated Cost Bills** (Note, indicated markup should not exceed 10%)	
	Total Cost (if applicable at the time of RFQ)	% of Markup Calculated
Reproduction/Printing	T.B.D.	10%
Mailing/courier	T.B.D.	10%

All Travel and Expenses will be paid per the Monterey County Travel Policy:
http://www.co.monterey.ca.us/auditor/pdfs/County_Travel_Business_Expense_Policy_12-5-12.pdf

Monterey County
Board of Supervisors

168 West Alisal Street,
1st Floor
Salinas, CA 93901
831.755.5066
www.co.monterey.ca.us

Board Order

A motion was made by Supervisor John M. Phillips, seconded by Supervisor Chris Lopez to:

Agreement No.: A-15729 Hammel, Green and Abrahamson, Inc.
Agreement No.: A-15730 19six Architects
Agreement No.: A-15731 Cedarblade Consulting
Agreement No.: A-15732 Kasavan Architects
Agreement No.: A-15733 Wald, Ruhnke & Dost Architects, LLP
Authorize the Interim Chief Executive Officer for Natividad Medical Center (NMC) or his designee to execute Agreements with Hammel, Green and Abrahamson, Inc., 19six Architects, Cedarblade Consulting, Kasavan Architects, and Wald, Ruhnke & Dost Architects, LLP pursuant to the Request for Qualifications (RFQ) #9600-86, each with a retroactive term of February 1, 2022 through January 31, 2027 with a total aggregate amount for all Agreements not to exceed $5,000,000.

PASSED AND ADOPTED on this 22nd day of March 2022, by roll call vote:

AYES: Supervisors Alejo, Phillips, Lopez, Askew and Adams
NOES: None
ABSENT: None
(Government Code 54953)

I, Valerie Ralph, Clerk of the Board of Supervisors of the County of Monterey, State of California, hereby certify that the foregoing is a true copy of an original order of said Board of Supervisors duly made and entered in the minutes thereof of Minute Book 82 for the meeting March 22, 2022.

Dated: March 24, 2022
File ID: A 22-087
Agenda Item No.: 28

Valerie Ralph, Clerk of the Board of Supervisors
County of Monterey, State of California

Julian Lorenzana, Deputy

AGREEMENT BETWEEN COUNTY OF MONTEREY ON BEHALF OF NATIVIDAD MEDICAL CENTER AND KASAVAN ARCHITECTS

This AGREEMENT is made and entered into by and between County of Monterey, on behalf of Natividad Medical Center, a political subdivision of the State of California, (hereinafter referred to as "COUNTY"), and Kasavan Architects, Inc., hereinafter referred to as "CONTRACTOR."

1.0 RECITALS

County of Monterey ("County") owns and operates Natividad, a general acute care teaching hospital facility located in Salinas, California and various outpatient clinics (collectively, the "Clinic") under its acute care hospital license.

WHEREAS, COUNTY has invited proposals through the Request for Qualifications RFQ# 9600-86 for to provide **ON-CALL ARCHITECTURAL SERVICES WHEREBY THE TOTAL FEE FOR THE ARCHITRECTURAL SERVICES IS UNDER AND OVER $100,000 PER EACH PROJECT**, in accordance with the specifications set forth in this AGREEMENT; and

WHEREAS, CONTRACTOR has submitted a responsive and responsible proposal to perform such services; and

WHEREAS, CONTRACTOR has the expertise and capabilities necessary to provide the services requested.

NOW THEREFORE, COUNTY and CONTRACTOR, for the consideration hereinafter named, agree as follows:

2.0 PERFORMANCE OF THE AGREEMENT

2.1 After consideration and evaluation of the CONTRACTOR'S proposal, COUNTY hereby engages CONTRACTOR to provide the services set forth in RFQ #9600-86 and in this AGREEMENT on the terms and conditions contained herein and in RFQ #9600-86. The intent of this AGREEMENT is to summarize the contractual obligations of the parties. The component parts of this AGREEMENT include the following:

This AGREEMENT including all its attachments, Exhibits and Appendix
RFQ #9600-86 plus all associated Addenda
CONTRACTOR'S Qualifications Package dated 10/29/21
Certificate of Insurance
Additional Insured Endorsements

2.2 All of the above-referenced contract documents are intended to be complementary. Work required by one of the above-referenced contract documents and not by others shall be done

as if required by all. In the event of a conflict between or among component parts of the contract, the contract documents shall be construed in the following order: plus, RFQ Addenda #9600-86, CONTRACTOR's Qualifications Package, Certificate of Insurance and Additional Insured Endorsements.

2.3 CONTRACTOR warrants that CONTRACTOR and CONTRACTOR's agents, employees, and subcontractors performing services under this AGREEMENT are specially trained, experienced, competent, and appropriately licensed to perform the work and deliver the services required under this AGREEMENT and are not employees of the County, or immediate family of an employee of the County.

2.4 CONTRACTOR, its agents, employees, and subcontractors shall perform all work in a safe and skillful manner and in compliance with all applicable laws and regulations. All work performed under this AGREEMENT that is required by law to be performed or supervised by licensed personnel shall be performed in accordance with such licensing requirements.

2.4.1 CONTRACTOR must maintain all licenses throughout the term of the AGREEMENT.

2.5 CONTRACTOR shall furnish, at its own expense, all materials, equipment, and personnel necessary to carry out the terms of this AGREEMENT, except as otherwise specified in this AGREEMENT. CONTRACTOR shall not use COUNTY premises, property (including equipment, instruments, or supplies) or personnel for any purpose other than in the performance of its obligations under this AGREEMENT.

3.0 SCOPE OF SERVICE

3.1 The scope of services shall include, in general, the full range of professional architectural services typically required for architectural projects in the public sector. Tasks may include but are not limited to the following:

- Program Development to Program Validation including Concept Development and Spatial Programming Studies
- Feasibility Studies/Project Definition
- Bid Scoping Documents
- All Phases of Project Design and Disciplines
- Specifications
- Design Reviews
- Cost Estimating
- Value Engineering
- Constructability Reviews
- Building Evaluations
- Troubleshooting
- Construction Support Services
- BIM/CADD/Drafting Work

3.2 Additional requirements include but are not limited to the following:

3.2.1 Services will be rendered at the request of County. As projects arise County will select qualified architectural firms based upon specialty in most situations and request that they provide a detailed scope and cost. Proposals submitted on a per-project basis after an Agreement has been executed may be subject to negotiation. County reserves the right to select the architect it believes to be the most qualified for each project that arises.

3.2.2 County has a implemented Job Order Contracting (JOC) construction delivery method. Not all construction projects will use the JOC program. For those projects which Natividad does use the JOC program to complete, CONTRACTOR shall become familiar with the quality and workmanship required by the applicable Construction Task Catalogs (CTC) and coordinates and adjusts specifications and details produced by the JOC General Contractor.

3.3 CONTRACTOR will advocate for County and ensure the project produced is in the best interest of County. **CONTRACTOR is expected to deliver products on or ahead of the required schedule and within budget.**

3.4 All work shall be done in conformance with all applicable County, State and Federal laws, County Design Manuals, County Standard Plans, all Caltrans manuals, policies, State Standard Plans and Specifications, Manual of Uniform Control Devices, Uniform Building Code, (Fire, Electrical), Americans with Disabilities Act (ADA), California Green Building Standards Code (Part 11, Title 24, California Code of Regulations); and as revised and amended by County ordinance.

4.0 TERM OF AGREEMENT

4.1 The initial term shall commence with the signing of this AGREEMENT for a period of 5 years.

4.2 CONTRACTOR shall commence negotiations for any desired fee changes a minimum of sixty days (90) prior to the expiration of this AGREEMENT in order to be considered.

3.2.1 Both parties shall agree upon changes to fees in writing.

4.3 COUNTY reserves the right to cancel this AGREEMENT, or any extension of this AGREEMENT, without cause, with a thirty day (30) written notice, or immediately with cause.

5.0 COMPENSATION AND PAYMENTS

5.1 There is no specific dollar amount associated with the Agreement(s) awarded per RFQ #9600-63. Services are on an as-needed basis and shall be authorized by NMC only upon

mutual agreement of CONTRACTORS project proposal. Project proposals will be requested as needed and are subject to negotiations.

5.2 CONTRACTOR billing rates attached to the Agreement shall remain firm for the initial term of this AGREEMENT. Any proposed rate adjustments shall adhere to Section 3.2 and 3.2.1 herein.

5.3 Any discount offered by the CONTRACTOR must allow for payment after receipt and acceptance of services, material or equipment and correct invoice, whichever is later. In no case will a discount be considered that requires payment in less than 30 days.

5.4 CONTRACTOR shall levy no additional fees or surcharges of any kind during the term of this AGREEMENT without first obtaining approval from COUNTTY in writing.

5.5 Tax:

4.5.1 Pricing as per this AGREEMENT is inclusive of all applicable taxes.

4.5.2 County is registered with the Internal Revenue Service, San Francisco office, and registration number 94-6000524. The County is exempt from Federal Transportation Tax; an exemption certificate is not required where shipping documents show Monterey County as consignee.

5.6 COUNTY does not guarantee any minimum or maximum amount of dollars to be spent under this AGREEMENT.

6.0 INVOICES AND PURCHASE ORDERS

6.1 Invoices for all services rendered per this AGREEMENT shall be billed directly Natividad Medical Center at the following address:

Natividad Medical Center
Attn: Accounts Payable
PO Box 81611
Salinas, CA 93912

6.2 CONTACTOR shall reference RFQ #9600-86 on all invoices submitted to Natividad Medical Center. CONTRACTOR shall submit such invoices periodically or at the completion of services, but in any event, not later than 30 days after completion of services. The invoice shall set forth the amounts claimed by CONTRACTOR for the previous period, together with an itemized basis for the amounts claimed, and such other information pertinent to the invoice. Natividad shall certify the invoice, either in the requested amount or in such other amount as Natividad approves in conformity with this AGREEMENT, and shall promptly submit such invoice to County Auditor-Controller for payment. County Auditor- Controller shall pay the amount certified within 30 days of receiving the certified invoice.

6.3 All Natividad Purchase Orders issued for the AGREEMENT are valid only during the fiscal year in which they are issued (the fiscal year is defined as July 1 through June 30).

6.4 Unauthorized Surcharges or Fees: Invoices containing unauthorized surcharges or unauthorized fees of any kind shall be rejected by NMC. Surcharges and additional fees not included the AGREEMENT must be approved by NMC in writing via an Amendment.

7.0 DESIGN PROFESSIONAL INDEMNIFICATION

7.1 For purposes of the following indemnification provisions ("Indemnification Agreement"), "design professional" has the same meaning as set forth in California Civil Code section 2782.8. If any term, provision or application of this Indemnification Agreement is found to be invalid, in violation of public policy or unenforceable to any extent, such finding shall not invalidate any other term or provision of this Indemnification Agreement and such other terms and provisions shall continue in full force and effect. If there is any conflict between the terms, provisions or application of this Indemnification Agreement and the provisions of California Civil Code Sections 2782 or 2782.8, the broadest indemnity protection for COUNTY under this Indemnity Agreement that is permitted by law shall be provided by CONTRACTOR.

7.2 Indemnification for Design Professional Services Claims:
CONTRACTOR shall indemnify, defend and hold harmless COUNTY, its governing board, directors, officers, employees, and agents against any claims that arise out of, or pertain to, or relate to the negligence, recklessness, or willful misconduct of CONTRACTOR, its employees, subcontractors, and agents in the performance of design professional services under this Agreement, excepting only liability arising from the sole negligence, active negligence or willful misconduct of COUNTY, or defect in a design furnished by COUNTY, but in no event shall the amount of such CONTRACTOR's liability exceed such CONTRACTOR's proportionate percentage of fault as determined by a court, arbitrator or mediator, or as set out in a settlement agreement. In the event one (1) or more defendants to any action involving such claim or claims against COUNTY is unable to pay its share of defense costs due to bankruptcy or dissolution of the business, such CONTRACTOR shall meet and confer with the other parties to such action regarding unpaid defense costs.

7.3 Indemnification for All Other Claims or Loss:
For any claim, loss, injury, damage, expense or liability other than claims arising out of CONTRACTOR's performance of design professional services under this Agreement, CONTRACTOR shall indemnify, defend and hold harmless COUNTY, its governing board, directors, officers, employees, and agents against any claim for loss, injury, damage, expense or liability resulting from or alleging injury to or death of any person or loss of use of or damage to property, arising from or related to the performance of services under this Agreement by COUNTY, its employees, subcontractors or agents, excepting only liability arising from the sole negligence, active negligence or willful misconduct of COUNTY, or defect in a design furnished by COUNTY.

8.0 INSURANCE REQUIREMENTS

8.1 Evidence of Coverage:

8.1.1 Prior to commencement of this AGREEMENT, CONTRACTOR shall provide a "Certificate of Insurance" certifying that coverage as required herein has been obtained. Individual endorsements executed by the insurance carrier shall accompany the certificate. In addition, CONTRACTOR, upon request, shall

provide a certified copy of the policy or policies.

8.1.2 This verification of coverage shall be sent to the County's Contracts/Purchasing Department, unless otherwise directed. CONTRACTOR shall not receive a "Notice to Proceed" with the work under this AGREEMENT until it has obtained all insurance required and such, insurance has been approved by COUNTY. This approval of insurance shall neither relieve nor decrease the liability of CONTRACTOR.

8.2 Qualifying Insurers: All coverages, except surety, shall be issued by companies which hold a current policy holder's alphabetic and financial size category rating of not less than A- VII, according to the current Best's Key Rating Guide or a company of equal financial stability that is approved by County's Purchasing Officer.

8.3 Insurance Coverage Requirements:

8.3.1 Without limiting CONTRACTOR's duty to indemnify, CONTRACTOR shall maintain in effect throughout the term of this AGREEMENT a policy or policies of insurance with the following minimum limits of liability:

8.3.1.1 Commercial general liability insurance, including but not limited to premises and operations, including coverage for Bodily Injury and Property Damage, Personal Injury, Contractual Liability, Broadform Property Damage, Independent Contractors, Products and Completed Operations, with a combined single limit for Bodily Injury and Property Damage of not less than $1,000,000 per occurrence.

8.3.1.2 Business automobile liability insurance, covering all motor vehicles, including owned, leased, non-owned, and hired vehicles, used in providing services under this AGREEMENT, with a combined single limit for Bodily Injury and Property Damage of not less than $1,000,000 per occurrence.

8.3.1.3 Workers' Compensation Insurance, if CONTRACTOR employs others in the performance of this AGREEMENT, in accordance with California Labor Code section 3700 and with Employer's Liability limits not less than $1,000,000 each person, $1,000,000 each accident and $1,000,000 each disease.

8.3.1.4 Professional liability insurance, if required for the professional services being provided, (e.g., those persons authorized by a license to engage in a business or profession regulated by the California Business and Professions Code), in the amount of not less than $1,000,000 per claim and $2,000,000 in the aggregate, to cover liability for malpractice or errors or omissions made in the course of rendering professional services. If professional liability insurance is written on a "claims-made" basis rather than an occurrence basis, CONTRACTOR shall, upon the expiration or earlier termination of this AGREEMENT, obtain extended reporting coverage ("tail coverage") with the same liability limits. Any such tail coverage shall continue for at least three years following the expiration or earlier termination of this AGREEMENT.

8.4 Other Insurance Requirements:

8.4.1 All insurance required by this AGREEMENT shall be with a company acceptable to County and issued and executed by an admitted insurer authorized to transact Insurance business in the State of California. Unless otherwise specified by this AGREEMENT, all such insurance shall be written on an occurrence basis, or, if the policy is not written on an occurrence basis, such policy with the coverage required herein shall continue in effect for a period of three years following the date CONTRACTOR completes its performance of services under this AGREEMENT.

8.4.2 Each liability policy shall provide that COUNTY shall be given notice in writing at least thirty days in advance of any endorsed reduction in coverage or limit, cancellation, or intended non-renewal thereof. Each policy shall provide coverage for CONTRACTOR and additional insureds with respect to claims arising from each subcontractor, if any, performing work under this AGREEMENT, or be accompanied by a certificate of insurance from each subcontractor showing each subcontractor has identical insurance coverage to the above requirements.

8.4.3 *Commercial general liability and automobile liability policies shall provide an endorsement naming the County of Monterey, its officers, agents, and employees as Additional Insureds with respect to liability arising out of the CONTRACTOR'S work, including ongoing and completed operations, and shall further provide that such insurance is primary insurance to any insurance or self- insurance maintained by the County and that the insurance of the Additional Insureds shall not be called upon to contribute to a loss covered by the CONTRACTOR'S insurance. The required endorsement form for Commercial General Liability Additional Insured is ISO Form CG 20 10 11-85 or CG 20 10 10 01 in tandem with CG 20 37 10 01 (2000). The required endorsement form for Automobile Additional Insured endorsement is ISO Form CA 20 48 02 99.*

8.4.4 Prior to the execution of this AGREEMENT by COUNTY, CONTRACTOR shall file certificates of insurance with County's contract administrator and County's Contracts/Purchasing Division, showing that CONTRACTOR has in effect the insurance required by this AGREEMENT. CONTRACTOR shall file a new or amended certificate of insurance within five calendar days after any change is made in any insurance policy, which would alter the information on the certificate then on file. Acceptance or approval of insurance shall in no way modify or change the indemnification clause in this AGREEMENT, which shall continue in full force and effect.

8.4.5 CONTRACTOR shall at all times during the term of this AGREEMENT maintain in force the insurance coverage required under this AGREEMENT and shall send, without demand by COUNTY, annual certificates to County's Contract Administrator and County's Contracts/Purchasing Division. If the certificate is not received by the expiration date, COUNTY shall notify CONTRACTOR and CONTRACTOR shall have five calendar days to send in the certificate, evidencing no lapse in coverage during the interim. Failure by CONTRACTOR to maintain such insurance is a default of this AGREEMENT, which entitles COUNTY, at its sole discretion, to terminate this AGREEMENT immediately.

9.0 RECORDS AND CONFIDENTIALITY

9.1 Confidentiality: CONTRACTOR and its officers, employees, agents, and subcontractors shall comply with any and all federal, state, and local laws, which provide for the confidentiality of records and other information. CONTRACTOR shall not disclose any confidential records or other confidential information received from COUNTY or prepared in connection with the performance of this AGREEMENT, unless NMC specifically permits CONTRACTOR to disclose such records or information. CONTRACTOR shall promptly transmit to COUNTY any and all requests for disclosure of any such confidential records or information. CONTRACTOR shall not use any confidential information gained by CONTRACTOR in the performance of this AGREEMENT except for the sole purpose of carrying out CONTRACTOR's obligations under this AGREEMENT.

9.2 County of Monterey Records: When this AGREEMENT expires or terminates, CONTRACTOR shall return to COUNTY any COUNTY records which CONTRACTOR used or received from NMC to perform services under this AGREEMENT.

9.3 Maintenance of Records: CONTRACTOR shall prepare, maintain, and preserve all reports and records that may be required by federal, state, and COUNTY and Natividad Medical Center rules and regulations related to services performed under this AGREEMENT.

9.4 Access to and Audit of Records: Natividad Medical Center (COUNTY) have the right to examine, monitor and audit all records, documents, conditions, and activities of CONTRACTOR and its subcontractors related to services provided under this AGREEMENT. The parties to this AGREEMENT may be subject, at the request of COUNTY or as part of any audit of COUNTY, to the examination and audit of the State Auditor pertaining to matters connected with the performance of this AGREEMENT for a period of three years after final payment under the AGREEMENT.

9.5 CONTRACTOR agrees that any information, whether proprietary or not, made known to or discovered by it during the performance of or in connection with this AGREEMENT for COUNTY will be kept confidential and not be disclosed to any other person. CONTRACTOR agrees to immediately notify COUNTY in accordance with the Notices Section of this AGREEMENT, if it is requested to disclose any information made known to or discovered by it during the performance of or in connection with this AGREEMENT. These conflict of interest and future service provisions and limitations shall remain fully effective five (5) years after termination of services to COUNTY hereunder.

10.0 NON-DISCRIMINATION

10.1 During the performance of this contract, CONTRACTOR shall not unlawfully discriminate against any employee or applicant for employment because of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, age (over 40), sex, or sexual orientation. CONTRACTOR shall ensure that the evaluation and treatment of its employees and applicants for employment are free of such

discrimination.

10.2 The applicable regulations of the Fair Employment and Housing Commission implementing Government Code, §12900, et seq., set forth in Chapter 5 of Division 4 of Title 2 of the California Code of Regulations are incorporated into this AGREEMENT by reference and made a part hereof as if set forth in full.

10.3 CONTRACTOR shall include the non-discrimination and compliance provisions of the clause in all agreements with subcontractors to perform work under the contract.

11.0 OVERRIDING CONTRACTOR PERFORMANCE REQUIREMENTS

11.1 Independent Contractor: CONTRACTOR shall be an independent contractor and shall not be an employee of Monterey County, nor immediate family of an employee of County. CONTRACTOR shall be responsible for all insurance (General Liability, Automobile, Workers' Compensation, unemployment, etc.,) and all payroll-related taxes. CONTRACTOR shall not be entitled to any employee benefits. CONTRACTOR shall control the manner and means of accomplishing the result contracted for herein.

11.2 Minimum Work Performance Percentage: CONTRACTOR shall perform with his own organization contract work amounting to not less than 50 percent of the original total AGREEMENT amount, except that any designated 'Specialty Items' may be performed by subcontract and the amount of any such 'Specialty Items' so performed may be deducted from the original total AGREEMENT amount before computing the amount of work required to be performed by CONTRACTOR with his own organization or per a consortium.

11.3 Non-Assignment: CONTRACTOR shall not assign this contract or the work required herein without the prior written consent of County.

11.4 Any subcontractor shall comply with all of COUNTY requirements, including insurance and indemnification requirements as detailed in SAMPLE AGREEMENT.

12.0 CONFLICT OF INTEREST

12.1 CONTRACTOR covenants that it presently has no interest, and shall not have any interest, direct or indirect, which would conflict in any manner with the performance of services required under this AGREEMENT. Without limitation, CONTRACTOR represents to and agrees with COUNTY that CONTRACTOR has no present, and will have no future, conflict of interest between providing COUNTY hereunder and any other person or entity (including but not limited to any federal or state environmental or regulatory agency) which has any interest adverse or potentially adverse to COUNTY, as determined in the reasonable judgment of the Board of Supervisors of County.

13.0 COMPLIANCE WITH APPLICABLE LAWS

13.1 CONTRACTOR shall keep itself informed of and in compliance with all federal, state and local laws, ordinances, regulations, and orders, including but not limited to all state and federal tax laws that may affect in any manner the Project or the performance of the Services or those engaged to perform Services under this AGREEMENT. CONTRACTOR shall procure all permits and licenses, pay all charges and fees, and give all notices required by law in the performance of the Services.

13.2 CONTRACTOR shall report immediately to Natividad's Contracts/Purchasing Officer, in writing, any discrepancy or inconsistency it discovers in the laws, ordinances, regulations, orders, and/or guidelines in relation to the Project of the performance of the Services.

13.3 All documentation prepared by CONTRACTOR shall provide for a completed project that conforms to all applicable codes, rules, regulations and guidelines that are in force at the time such documentation is prepared.

13.4 COMPLIANCE WITH TERMS OF STATE OR FEDERAL GRANT. If this Agreement has been or will be funded with monies received by the County pursuant to a contract with the state or federal government in which the COUNTY is the grantee, CONTRACTOR will comply with all the provisions of said contract, to the extent applicable to CONTRACTOR as a subgrantee under said contract, and said provisions shall be deemed a part of this AGREEMENT, as though fully set forth herein. Upon request, NMC will deliver a copy of said contract to CONTRACTOR, at no cost to CONTRACTOR.

14.0 PREVAILING WAGE

14.1 CONTRACTOR shall comply with Section 1720, et. seq., of the Labor Code, regarding the general prevailing wage rates of per diem, holiday, and overtime wages for each craft, classification, or type of worker needed to execute the AGREEMENT where applicable.

15.0 DRUG FREE WORKPLACE

15.1 CONTRACTOR and CONTRACTOR'S employees shall comply with the County's policy of maintaining a drug free workplace. Neither CONTRACTOR nor CONTRACTOR'S employees shall unlawfully manufacture, distribute, dispense, possess or use controlled substances, as defined in 21 U.S. Code § 812, including, but not limited to, marijuana, heroin, cocaine, and amphetamines, at any County facility or work site. If CONTRACTOR or any employee of CONTRACTOR is convicted or pleads no contest to a criminal drug statute violation occurring at a County facility or work site, the CONTRACTOR shall, within five days thereafter notify the head of the NMC department/agency for which the AGREEMENT services are performed. Violation of this provision shall constitute a material breach of this AGREEMENT.

16.0 TIME OF ESSENCE

16.1 Time is of the essence in respect to all provisions of this AGREEMENT that specify a time for performance; provided, however, that the foregoing shall not be construed to limit or deprive a party of the benefits of any grace or use period allowed in this AGREEMENT.

17.0 PERFORMANCE ASSURANCE

17.1 Assurance of Performance: If at any time COUNTY believes CONTRACTOR may not be adequately performing its obligations under this AGREEMENT or that CONTRACTOR may fail to complete the Services as required by this AGREEMENT, County may request from CONTRACTOR prompt written assurances of performance and a written plan acceptable to County, to correct the observed deficiencies in CONTRACTOR'S performance. CONTRACTOR shall provide such written assurances and written plan within ten (10) calendar days of its receipt of COUNTY's request and shall thereafter diligently commence and fully perform such written plan. CONTRACTOR acknowledges and agrees that any failure to provide such written assurances and written plan within the required time is a material breach under this AGREEMENT. If COUNTY accepts the plan it shall issue a signed waiver.

17.1.1 Waiver: No waiver of a breach, failure of any condition, or any right or remedy contained in or granted by the provisions of this AGREEMENT shall be effective unless it is in writing and signed by the party waiving the breach, failure, right or remedy. No waiver of any breach, failure, right or remedy shall be deemed a waiver of any other breach, failure, right or remedy, whether or not similar, nor shall any waiver constitute a continuing waiver unless the writing so specifies.

18.0 TRAVEL REIMBURSEMENT

18.1 Travel reimbursements are not permitted for this AGREEMENT.

19.0 EMERGENCY SITUATIONS

19.1 CONTRACTOR shall provide the name and contact information of a representative who shall be available 24 hours a day, 7 days a week, in the event of an emergency. During the emergency, CONTRACTOR shall provide COUNTY with all available supplies, materials, equipment and/or services on a priority basis.

19.2 COUNTY expects emergency deliveries to occur within 4 hours of order placement and may be required during evenings, weekends, and holidays. Time is of the essence for delivery during emergency situations. Delivery location(s) and estimated arrival will be mutually agreed upon, by COUNTY and CONTRACTOR, at time of order and will be

determined based on need and existing conditions. It is understood that current conditions, such as power outages, road closures, and damages to CONTRACTOR's facility and/or equipment, will be taken into consideration.

20.0 NON-APPROPRIATIONS CLAUSE

20.1 Notwithstanding anything contained in this AGREEMENT to the contrary, if insufficient funds are appropriated, or funds are otherwise unavailable in the budget for COUNTY for any reason whatsoever in any fiscal year, for payments due under this AGREEMENT, COUNTY will immediately notify CONTRACTOR of such occurrence, and this AGREEMENT shall terminate after the last day during the fiscal year for which appropriations shall have been budgeted for COUNTY or are otherwise available for payments.

21.0 WARRANTY BY CONTRACTOR

21.1 CONTRACTOR shall perform all services and provide all drawing and documents in accordance with applicable codes and regulations, and shall be fully responsible for the content of all design documents prepared or provided under this AGREEMENT. Time is of the essence of this AGREEMENT.

22.0 NOTICES

22.1 Notices required to be given to the respective parties under this AGREEMENT shall be deemed given by any of the following means: (1) when personally delivered to NMC's contract administrator or to CONTRACTOR'S responsible officer; (2) when personally delivered to the party's principle place of business during normal business hours, by leaving notice with any person apparently in charge of the office and advising such person of the import and contents of the notice; (3) 24 hours after the notice is transmitted by FAX machine to the other party, at the party's FAX number specified pursuant to this AGREEMENT, provided that the party giving notice by FAX must promptly confirm receipt of the FAX by telephone to the receiving party's office; or, (4) three (3) days after the notice is deposited in the U. S. mail with first class or better postage fully prepaid, addressed to the party as indicated below.

22.2 Notices mailed or faxed to the parties shall be addressed as follows:

TO NMC:
Natividad Medical Center
Attn: CONTRACTS DIVISION
1441 Constitution Blvd
Salinas, CA 93906
PHONE 831-755-4111

TO CONTRACTOR:
Kasavan Architects, Inc.
60 W. Market St. Suite 300
Salinas, CA 93901

23.0 LEGAL DISPUTES

23.1 CONTRACTOR agrees that this AGREEMENT and any dispute arising from the relationship between the parties to this AGREEMENT, shall be governed and interpreted by the laws of the State of California, excluding any laws that direct the application of another jurisdiction's laws.

23.2 Any dispute that arises under or relates to this AGREEMENT (whether contract, tort, or both) shall be resolved in the Superior Court of California in Monterey County, California.

23.3 CONTRACTOR shall continue to perform under this AGREEMENT during any dispute.

22.4 The parties agree to waive their separate rights to a trial by jury. This waiver means that the trial will be before a judge.

24.0 GENERAL PROVISIONS

23.1 Counterparts. This Agreement may be executed in one or more counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.

23.2 Entire Agreement. This Agreement is the entire understanding and agreement of the Parties regarding its subject matter, and supersedes any prior oral or written agreements, representations, understandings or discussions between the Parties. Subject to Section 22.3, no other understanding between the Parties shall be binding on them unless set forth in writing, signed and attached to this Agreement.

23.3 Exhibits. The attached Exhibits, together with all documents incorporated by reference in the exhibits, form an integral part of this Agreement and are incorporated by reference into this Agreement, wherever reference is made to them to the same extent as if they were set out in full at the point at which such reference is made.

23.4 Severability. If any provision of this Agreement is determined to be illegal or unenforceable, that provision shall be severed from this Agreement, and such severance shall have no effect upon the enforceability of the remainder of this Agreement.

23.5 Statutes and Regulations. Any reference in this Agreement to any statute, regulation, ruling, or administrative order or decree shall include, and be a reference to any successor statute, regulation, ruling, or administrative order or decree.

23.6 Waiver. No delay or failure to require performance of any provision of this Agreement shall constitute a waiver of that provision as to that or any other instance. Any waiver granted

by a Party must be in writing to be effective, and shall apply solely to the specific instance expressly stated.

The remainder of this page was intentionally left blank.

~ Signature page to follow ~

COUNTY OF MONTEREY on behalf of NATIVIDAD MEDICAL CENTER

By: _____
for Charles R. Harris, Interim CEO

Date: 3-25-22

APPROVED AS TO LEGAL PROVISIONS

By: _____
Monterey County Deputy County Counsel

Chief Deputy County Counsel
Date: 2/28/2022

APPROVED AS TO FISCAL PROVISIONS

By: Joey Nolasco
Monterey County Deputy Auditor/Controller

Date: 3/8/2022

CONTRACTOR

Kasavan Architects, Inc.
CONTRACTOR's Business Name
See instructions below

By: _____
(Signature of: Chair, President, or Vice-President)

PETER KASAVAN PRESIDENT
Name and Title

Date: JAN 13, 2022

By: _____
(Signature of: Secretary, Asst. Secretary, CFO, Treasurer, or Asst. Treasurer)

PETER KASAVAN SECRETARY
Name and Title

Date: Jan 13, 2022

Instructions

If CONTRACTOR is a corporation; including limited liability and non-profit corporations, the full legal name of the corporation shall be set forth above together with the signatures of two specified officers (two signatures required).

If CONTRACTOR is a partnership; the name of the partnership shall be set forth above together with the signature of a partner who has authority to execute this Agreement on behalf of the partnership (two signatures required).

If CONTRACTOR is contracting in an individual capacity, the individual shall set forth the name of the business, if any and shall personally sign the Agreement (one signature required).

Exhibit A: Scope of Work/Payment Provisions

Please list all key personnel and fees to be utilized for on-call Architectural Services for NMC:

Position/Title (Indicate Below)	**Hourly Rate**
President Principal	$ 210 $ 195
Project Architect Sr. Project Manager	$ 190 $ 190
Project Manager Asst. Project Manager	$ 175 $ 150
Senior Designer Designer III	$ 165 $ 145
Designer II Designer I	$ 126 $ 95
CADD Administrative	$ 120 $ 100
Clerical	$ 76

Reimbursable Items to be Billed (please list)	**Estimated Cost Bills** (Note, indicated markup should not exceed 10%)	
Travel outside Monterey County, mileage, subsistence, telephone, fax, postage, shipping, copy	Total Cost (if applicable at the time of RFQ)	% of Markup Calculated 10%
Subconsultants		15%

All Travel and Expenses will be paid per the Monterey County Travel Policy:
http://www.co.monterey.ca.us/auditor/pdfs/County_Travel_Business_Expense_Policy_12-5-12.pdf

Monterey County
Board of Supervisors

168 West Alisal Street,
1st Floor
Salinas, CA 93901
831.755.5066
www.co.monterey.ca.us

Board Order

A motion was made by Supervisor John M. Phillips, seconded by Supervisor Chris Lopez to:

Agreement No.: A-15729 Hammel, Green and Abrahamson, Inc.
Agreement No.: A-15730 19six Architects
Agreement No.: A-15731 Cedarblade Consulting
Agreement No.: A-15732 Kasavan Architects
Agreement No.: A-15733 Wald, Ruhnke & Dost Architects, LLP
Authorize the Interim Chief Executive Officer for Natividad Medical Center (NMC) or his designee to execute Agreements with Hammel, Green and Abrahamson, Inc., 19six Architects, Cedarblade Consulting, Kasavan Architects, and Wald, Ruhnke & Dost Architects, LLP pursuant to the Request for Qualifications (RFQ) #9600-86, each with a retroactive term of February 1, 2022 through January 31, 2027 with a total aggregate amount for all Agreements not to exceed $5,000,000.

PASSED AND ADOPTED on this 22nd day of March 2022, by roll call vote:

AYES: Supervisors Alejo, Phillips, Lopez, Askew and Adams
NOES: None
ABSENT: None
(Government Code 54953)

I, Valerie Ralph, Clerk of the Board of Supervisors of the County of Monterey, State of California, hereby certify that the foregoing is a true copy of an original order of said Board of Supervisors duly made and entered in the minutes thereof of Minute Book 82 for the meeting March 22, 2022.

Dated: March 24, 2022
File ID: A 22-087
Agenda Item No.: 28

Valerie Ralph, Clerk of the Board of Supervisors
County of Monterey, State of California

Julian Lorenzana, Deputy

AGREEMENT BETWEEN COUNTY OF MONTEREY ON BEHALF OF NATIVIDAD MEDICAL CENTER AND WALD, RUHNKE, DOST ARCHITECTS

This AGREEMENT is made and entered into by and between County of Monterey, on behalf of Natividad Medical Center, a political subdivision of the State of California, (hereinafter referred to as "COUNTY"), and Wald, Ruhnke, Dost Architects LLP, hereinafter referred to as "CONTRACTOR."

1.0 RECITALS

County of Monterey ("County") owns and operates Natividad, a general acute care teaching hospital facility located in Salinas, California and various outpatient clinics (collectively, the "Clinic") under its acute care hospital license.

WHEREAS, COUNTY has invited proposals through the Request for Qualifications RFQ# 9600-86 for to provide **ON-CALL ARCHITECTURAL SERVICES WHEREBY THE TOTAL FEE FOR THE ARCHITRECTURAL SERVICES IS UNDER AND OVER $100,000 PER EACH PROJECT**, in accordance with the specifications set forth in this AGREEMENT; and

WHEREAS, CONTRACTOR has submitted a responsive and responsible proposal to perform such services; and

WHEREAS, CONTRACTOR has the expertise and capabilities necessary to provide the services requested.

NOW THEREFORE, COUNTY and CONTRACTOR, for the consideration hereinafter named, agree as follows:

2.0 PERFORMANCE OF THE AGREEMENT

2.1 After consideration and evaluation of the CONTRACTOR'S proposal, COUNTY hereby engages CONTRACTOR to provide the services set forth in RFQ #9600-86 and in this AGREEMENT on the terms and conditions contained herein and in RFQ #9600-86. The intent of this AGREEMENT is to summarize the contractual obligations of the parties. The component parts of this AGREEMENT include the following:

This AGREEMENT including all its attachments, Exhibits and Appendix
RFQ #9600-86 plus all associated Addenda
CONTRACTOR'S Qualifications Package dated 10/29/21
Certificate of Insurance
Additional Insured Endorsements

2.2 All of the above-referenced contract documents are intended to be complementary. Work required by one of the above-referenced contract documents and not by others shall be done as if required by all. In the event of a conflict between or among component parts of the contract, the contract documents shall be construed in the following order: plus, RFQ Addenda #9600-86, CONTRACTOR's Qualifications Package, Certificate of Insurance and Additional Insured Endorsements.

2.3 CONTRACTOR warrants that CONTRACTOR and CONTRACTOR's agents, employees, and subcontractors performing services under this AGREEMENT are specially trained, experienced, competent, and appropriately licensed to perform the work and deliver the services required under this AGREEMENT and are not employees of the County, or immediate family of an employee of the County.

2.4 CONTRACTOR, its agents, employees, and subcontractors shall perform all work in a safe and skillful manner and in compliance with all applicable laws and regulations. All work performed under this AGREEMENT that is required by law to be performed or supervised by licensed personnel shall be performed in accordance with such licensing requirements.

2.4.1 CONTRACTOR must maintain all licenses throughout the term of the AGREEMENT.

2.5 CONTRACTOR shall furnish, at its own expense, all materials, equipment, and personnel necessary to carry out the terms of this AGREEMENT, except as otherwise specified in this AGREEMENT. CONTRACTOR shall not use COUNTY premises, property (including equipment, instruments, or supplies) or personnel for any purpose other than in the performance of its obligations under this AGREEMENT.

3.0 SCOPE OF SERVICE

3.1 The scope of services shall include, in general, the full range of professional architectural services typically required for architectural projects in the public sector. Tasks may include but are not limited to the following:

- Program Development to Program Validation including Concept Development and Spatial Programming Studies
- Feasibility Studies/Project Definition
- Bid Scoping Documents
- All Phases of Project Design and Disciplines
- Specifications
- Design Reviews
- Cost Estimating
- Value Engineering
- Constructability Reviews
- Building Evaluations
- Troubleshooting
- Construction Support Services
- BIM/CADD/Drafting Work

3.2 Additional requirements include but are not limited to the following:

3.2.1 Services will be rendered at the request of County. As projects arise County will select qualified architectural firms based upon specialty in most situations and request that they provide a detailed scope and cost. Proposals submitted on a per-project basis after an Agreement has been executed may be subject to negotiation. County reserves the right to select the architect it believes to be the most qualified for each project that arises.

3.2.2 County has a implemented Job Order Contracting (JOC) construction delivery method. Not all construction projects will use the JOC program. For those projects which Natividad does use the JOC program to complete, CONTRACTOR shall become familiar with the quality and workmanship required by the applicable Construction Task Catalogs (CTC) and coordinates and adjusts specifications and details produced by the JOC General Contractor.

3.3 CONTRACTOR will advocate for County and ensure the project produced is in the best interest of County. **CONTRACTOR is expected to deliver products on or ahead of the required schedule and within budget.**

3.4 All work shall be done in conformance with all applicable County, State and Federal laws, County Design Manuals, County Standard Plans, all Caltrans manuals, policies, State Standard Plans and Specifications, Manual of Uniform Control Devices, Uniform Building Code, (Fire, Electrical), Americans with Disabilities Act (ADA), California Green Building Standards Code (Part 11, Title 24, California Code of Regulations); and as revised and amended by County ordinance.

4.0 TERM OF AGREEMENT

4.1 The initial term shall commence with the signing of this AGREEMENT for a period of 5 years.

4.2 CONTRACTOR shall commence negotiations for any desired fee changes a minimum of sixty days (90) prior to the expiration of this AGREEMENT in order to be considered.

3.2.1 Both parties shall agree upon changes to fees in writing.

4.3 COUNTY reserves the right to cancel this AGREEMENT, or any extension of this AGREEMENT, without cause, with a thirty day (30) written notice, or immediately with cause.

5.0 COMPENSATION AND PAYMENTS

5.1 There is no specific dollar amount associated with the Agreement(s) awarded per RFQ

#9600-63. Services are on an as-needed basis and shall be authorized by NMC only upon mutual agreement of CONTRACTORS project proposal. Project proposals will be requested as needed and are subject to negotiations.

5.2 CONTRACTOR billing rates attached to the Agreement shall remain firm for the initial term of this AGREEMENT. Any proposed rate adjustments shall adhere to Section 3.2 and 3.2.1 herein.

5.3 Any discount offered by the CONTRACTOR must allow for payment after receipt and acceptance of services, material or equipment and correct invoice, whichever is later. In no case will a discount be considered that requires payment in less than 30 days.

5.4 CONTRACTOR shall levy no additional fees or surcharges of any kind during the term of this AGREEMENT without first obtaining approval from COUNTTY in writing.

5.5 Tax:

4.5.1 Pricing as per this AGREEMENT is inclusive of all applicable taxes.

4.5.2 County is registered with the Internal Revenue Service, San Francisco office, and registration number 94-6000524. The County is exempt from Federal Transportation Tax; an exemption certificate is not required where shipping documents show Monterey County as consignee.

5.6 COUNTY does not guarantee any minimum or maximum amount of dollars to be spent under this AGREEMENT.

6.0 INVOICES AND PURCHASE ORDERS

6.1 Invoices for all services rendered per this AGREEMENT shall be billed directly Natividad Medical Center at the following address:

Natividad Medical Center
Attn: Accounts Payable
PO Box 81611
Salinas, CA 93912

6.2 CONTACTOR shall reference RFQ #9600-86 on all invoices submitted to Natividad Medical Center. CONTRACTOR shall submit such invoices periodically or at the completion of services, but in any event, not later than 30 days after completion of services. The invoice shall set forth the amounts claimed by CONTRACTOR for the previous period, together with an itemized basis for the amounts claimed, and such other information pertinent to the invoice. Natividad shall certify the invoice, either in the requested amount or in such other amount as Natividad approves in conformity with this AGREEMENT, and shall promptly submit such invoice to County Auditor-Controller for payment. County Auditor- Controller shall pay the amount certified within 30 days of receiving the certified invoice.

6.3 All Natividad Purchase Orders issued for the AGREEMENT are valid only during the fiscal year in which they are issued (the fiscal year is defined as July 1 through June 30).

6.4 Unauthorized Surcharges or Fees: Invoices containing unauthorized surcharges or unauthorized fees of any kind shall be rejected by NMC. Surcharges and additional fees not

included the AGREEMENT must be approved by NMC in writing via an Amendment.

7.0 DESIGN PROFESSIONAL INDEMNIFICATION

7.1 For purposes of the following indemnification provisions ("Indemnification Agreement"), "design professional" has the same meaning as set forth in California Civil Code section 2782.8. If any term, provision or application of this Indemnification Agreement is found to be invalid, in violation of public policy or unenforceable to any extent, such finding shall not invalidate any other term or provision of this Indemnification Agreement and such other terms and provisions shall continue in full force and effect. If there is any conflict between the terms, provisions or application of this Indemnification Agreement and the provisions of California Civil Code Sections 2782 or 2782.8, the broadest indemnity protection for COUNTY under this Indemnity Agreement that is permitted by law shall be provided by CONTRACTOR.

7.2 Indemnification for Design Professional Services Claims:
CONTRACTOR shall indemnify, defend and hold harmless COUNTY, its governing board, directors, officers, employees, and agents against any claims that arise out of, or pertain to, or relate to the negligence, recklessness, or willful misconduct of CONTRACTOR, its employees, subcontractors, and agents in the performance of design professional services under this Agreement, excepting only liability arising from the sole negligence, active negligence or willful misconduct of COUNTY, or defect in a design furnished by COUNTY, but in no event shall the amount of such CONTRACTOR's liability exceed such CONTRACTOR's proportionate percentage of fault as determined by a court, arbitrator or mediator, or as set out in a settlement agreement. In the event one (1) or more defendants to any action involving such claim or claims against COUNTY is unable to pay its share of defense costs due to bankruptcy or dissolution of the business, such CONTRACTOR shall meet and confer with the other parties to such action regarding unpaid defense costs.

7.3 Indemnification for All Other Claims or Loss:
For any claim, loss, injury, damage, expense or liability other than claims arising out of CONTRACTOR's performance of design professional services under this Agreement, CONTRACTOR shall indemnify, defend and hold harmless COUNTY, its governing board, directors, officers, employees, and agents against any claim for loss, injury, damage, expense or liability resulting from or alleging injury to or death of any person or loss of use of or damage to property, arising from or related to the performance of services under this Agreement by COUNTY, its employees, subcontractors or agents, excepting only liability arising from the sole negligence, active negligence or willful misconduct of COUNTY, or defect in a design furnished by COUNTY.

8.0 INSURANCE REQUIREMENTS

8.1 Evidence of Coverage:

8.1.1 Prior to commencement of this AGREEMENT, CONTRACTOR shall provide a "Certificate of Insurance" certifying that coverage as required herein has been obtained. Individual endorsements executed by the insurance carrier shall

accompany the certificate. In addition, CONTRACTOR, upon request, shall provide a certified copy of the policy or policies.

8.1.2 This verification of coverage shall be sent to the County's Contracts/Purchasing Department, unless otherwise directed. CONTRACTOR shall not receive a "Notice to Proceed" with the work under this AGREEMENT until it has obtained all insurance required and such, insurance has been approved by COUNTY. This approval of insurance shall neither relieve nor decrease the liability of CONTRACTOR.

8.2 Qualifying Insurers: All coverages, except surety, shall be issued by companies which hold a current policy holder's alphabetic and financial size category rating of not less than A- VII, according to the current Best's Key Rating Guide or a company of equal financial stability that is approved by County's Purchasing Officer.

8.3 Insurance Coverage Requirements:

8.3.1 Without limiting CONTRACTOR's duty to indemnify, CONTRACTOR shall maintain in effect throughout the term of this AGREEMENT a policy or policies of insurance with the following minimum limits of liability:

8.3.1.1 Commercial general liability insurance, including but not limited to premises and operations, including coverage for Bodily Injury and Property Damage, Personal Injury, Contractual Liability, Broadform Property Damage, Independent Contractors, Products and Completed Operations, with a combined single limit for Bodily Injury and Property Damage of not less than $1,000,000 per occurrence.

8.3.1.2 Business automobile liability insurance, covering all motor vehicles, including owned, leased, non-owned, and hired vehicles, used in providing services under this AGREEMENT, with a combined single limit for Bodily Injury and Property Damage of not less than $1,000,000 per occurrence.

8.3.1.3 Workers' Compensation Insurance, if CONTRACTOR employs others in the performance of this AGREEMENT, in accordance with California Labor Code section 3700 and with Employer's Liability limits not less than $1,000,000 each person, $1,000,000 each accident and $1,000,000 each disease.

8.3.1.4 Professional liability insurance, if required for the professional services being provided, (e.g., those persons authorized by a license to engage in a business or profession regulated by the California Business and Professions Code), in the amount of not less than $1,000,000 per claim and $2,000,000 in the aggregate, to cover liability for malpractice or errors or omissions made in the course of rendering professional services. If professional liability insurance is written on a "claims-made" basis rather than an occurrence basis, CONTRACTOR shall, upon the expiration or earlier termination of this AGREEMENT, obtain extended reporting coverage ("tail coverage") with the same liability limits. Any such tail coverage shall continue for at least three years following the expiration or

earlier termination of this AGREEMENT.

8.4 Other Insurance Requirements:

8.4.1 All insurance required by this AGREEMENT shall be with a company acceptable to County and issued and executed by an admitted insurer authorized to transact Insurance business in the State of California. Unless otherwise specified by this AGREEMENT, all such insurance shall be written on an occurrence basis, or, if the policy is not written on an occurrence basis, such policy with the coverage required herein shall continue in effect for a period of three years following the date CONTRACTOR completes its performance of services under this AGREEMENT.

8.4.2 Each liability policy shall provide that COUNTY shall be given notice in writing at least thirty days in advance of any endorsed reduction in coverage or limit, cancellation, or intended non-renewal thereof. Each policy shall provide coverage for CONTRACTOR and additional insureds with respect to claims arising from each subcontractor, if any, performing work under this AGREEMENT, or be accompanied by a certificate of insurance from each subcontractor showing each subcontractor has identical insurance coverage to the above requirements.

8.4.3 *Commercial general liability and automobile liability policies shall provide an endorsement naming the County of Monterey, its officers, agents, and employees as Additional Insureds with respect to liability arising out of the CONTRACTOR'S work, including ongoing and completed operations, and shall further provide that such insurance is primary insurance to any insurance or self- insurance maintained by the County and that the insurance of the Additional Insureds shall not be called upon to contribute to a loss covered by the CONTRACTOR'S insurance. The required endorsement form for Commercial General Liability Additional Insured is ISO Form CG 20 10 11-85 or CG 20 10 10 01 in tandem with CG 20 37 10 01 (2000). The required endorsement form for Automobile Additional Insured endorsement is ISO Form CA 20 48 02 99.*

8.4.4 Prior to the execution of this AGREEMENT by COUNTY, CONTRACTOR shall file certificates of insurance with County's contract administrator and County's Contracts/Purchasing Division, showing that CONTRACTOR has in effect the insurance required by this AGREEMENT. CONTRACTOR shall file a new or amended certificate of insurance within five calendar days after any change is made in any insurance policy, which would alter the information on the certificate then on file. Acceptance or approval of insurance shall in no way modify or change the indemnification clause in this AGREEMENT, which shall continue in full force and effect.

8.4.5 CONTRACTOR shall at all times during the term of this AGREEMENT maintain in force the insurance coverage required under this AGREEMENT and shall send, without demand by COUNTY, annual certificates to County's Contract Administrator and County's Contracts/Purchasing Division. If the certificate is not received by the expiration date, COUNTY shall notify CONTRACTOR and CONTRACTOR shall have five calendar days to send in the certificate, evidencing no lapse in coverage during the interim. Failure by CONTRACTOR to maintain such insurance is a default of this AGREEMENT, which entitles COUNTY, at its

sole discretion, to terminate this AGREEMENT immediately.

9.0 RECORDS AND CONFIDENTIALITY

9.1 Confidentiality: CONTRACTOR and its officers, employees, agents, and subcontractors shall comply with any and all federal, state, and local laws, which provide for the confidentiality of records and other information. CONTRACTOR shall not disclose any confidential records or other confidential information received from COUNTY or prepared in connection with the performance of this AGREEMENT, unless NMC specifically permits CONTRACTOR to disclose such records or information. CONTRACTOR shall promptly transmit to COUNTY any and all requests for disclosure of any such confidential records or information. CONTRACTOR shall not use any confidential information gained by CONTRACTOR in the performance of this AGREEMENT except for the sole purpose of carrying out CONTRACTOR's obligations under this AGREEMENT.

9.2 County of Monterey Records: When this AGREEMENT expires or terminates, CONTRACTOR shall return to COUNTY any COUNTY records which CONTRACTOR used or received from NMC to perform services under this AGREEMENT.

9.3 Maintenance of Records: CONTRACTOR shall prepare, maintain, and preserve all reports and records that may be required by federal, state, and COUNTY and Natividad Medical Center rules and regulations related to services performed under this AGREEMENT.

9.4 Access to and Audit of Records: Natividad Medical Center (COUNTY) have the right to examine, monitor and audit all records, documents, conditions, and activities of CONTRACTOR and its subcontractors related to services provided under this AGREEMENT. The parties to this AGREEMENT may be subject, at the request of COUNTY or as part of any audit of COUNTY, to the examination and audit of the State Auditor pertaining to matters connected with the performance of this AGREEMENT for a period of three years after final payment under the AGREEMENT.

9.5 CONTRACTOR agrees that any information, whether proprietary or not, made known to or discovered by it during the performance of or in connection with this AGREEMENT for COUNTY will be kept confidential and not be disclosed to any other person. CONTRACTOR agrees to immediately notify COUNTY in accordance with the Notices Section of this AGREEMENT, if it is requested to disclose any information made known to or discovered by it during the performance of or in connection with this AGREEMENT. These conflict of interest and future service provisions and limitations shall remain fully effective five (5) years after termination of services to COUNTY hereunder.

10.0 NON-DISCRIMINATION

10.1 During the performance of this contract, CONTRACTOR shall not unlawfully discriminate against any employee or applicant for employment because of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, age (over 40), sex, or sexual orientation. CONTRACTOR shall ensure that the

evaluation and treatment of its employees and applicants for employment are free of such discrimination.

10.2 The applicable regulations of the Fair Employment and Housing Commission implementing Government Code, §12900, et seq., set forth in Chapter 5 of Division 4 of Title 2 of the California Code of Regulations are incorporated into this AGREEMENT by reference and made a part hereof as if set forth in full.

10.3 CONTRACTOR shall include the non-discrimination and compliance provisions of the clause in all agreements with subcontractors to perform work under the contract.

11.0 OVERRIDING CONTRACTOR PERFORMANCE REQUIREMENTS

11.1 Independent Contractor: CONTRACTOR shall be an independent contractor and shall not be an employee of Monterey County, nor immediate family of an employee of County. CONTRACTOR shall be responsible for all insurance (General Liability, Automobile, Workers' Compensation, unemployment, etc.,) and all payroll-related taxes. CONTRACTOR shall not be entitled to any employee benefits. CONTRACTOR shall control the manner and means of accomplishing the result contracted for herein.

11.2 Minimum Work Performance Percentage: CONTRACTOR shall perform with his own organization contract work amounting to not less than 50 percent of the original total AGREEMENT amount, except that any designated 'Specialty Items' may be performed by subcontract and the amount of any such 'Specialty Items' so performed may be deducted from the original total AGREEMENT amount before computing the amount of work required to be performed by CONTRACTOR with his own organization or per a consortium.

11.3 Non-Assignment: CONTRACTOR shall not assign this contract or the work required herein without the prior written consent of County.

11.4 Any subcontractor shall comply with all of COUNTY requirements, including insurance and indemnification requirements as detailed in SAMPLE AGREEMENT.

12.0 CONFLICT OF INTEREST

12.1 CONTRACTOR covenants that it presently has no interest, and shall not have any interest, direct or indirect, which would conflict in any manner with the performance of services required under this AGREEMENT. Without limitation, CONTRACTOR represents to and agrees with COUNTY that CONTRACTOR has no present, and will have no future, conflict of interest between providing COUNTY hereunder and any other person or entity (including but not limited to any federal or state environmental or regulatory agency) which has any interest adverse or potentially adverse to COUNTY, as determined in the reasonable judgment of the Board of Supervisors of County.

13.0 COMPLIANCE WITH APPLICABLE LAWS

13.1 CONTRACTOR shall keep itself informed of and in compliance with all federal, state and local laws, ordinances, regulations, and orders, including but not limited to all state and federal tax laws that may affect in any manner the Project or the performance of the Services or those engaged to perform Services under this AGREEMENT. CONTRACTOR shall procure all permits and licenses, pay all charges and fees, and give all notices required by law in the performance of the Services.

13.2 CONTRACTOR shall report immediately to Natividad's Contracts/Purchasing Officer, in writing, any discrepancy or inconsistency it discovers in the laws, ordinances, regulations, orders, and/or guidelines in relation to the Project of the performance of the Services.

13.3 All documentation prepared by CONTRACTOR shall provide for a completed project that conforms to all applicable codes, rules, regulations and guidelines that are in force at the time such documentation is prepared.

13.4 COMPLIANCE WITH TERMS OF STATE OR FEDERAL GRANT. If this Agreement has been or will be funded with monies received by the County pursuant to a contract with the state or federal government in which the COUNTY is the grantee, CONTRACTOR will comply with all the provisions of said contract, to the extent applicable to CONTRACTOR as a subgrantee under said contract, and said provisions shall be deemed a part of this AGREEMENT, as though fully set forth herein. Upon request, NMC will deliver a copy of said contract to CONTRACTOR, at no cost to CONTRACTOR.

14.0 PREVAILING WAGE

14.1 CONTRACTOR shall comply with Section 1720, et. seq., of the Labor Code, regarding the general prevailing wage rates of per diem, holiday, and overtime wages for each craft, classification, or type of worker needed to execute the AGREEMENT where applicable.

15.0 DRUG FREE WORKPLACE

15.1 CONTRACTOR and CONTRACTOR'S employees shall comply with the County's policy of maintaining a drug free workplace. Neither CONTRACTOR nor CONTRACTOR'S employees shall unlawfully manufacture, distribute, dispense, possess or use controlled substances, as defined in 21 U.S. Code § 812, including, but not limited to, marijuana, heroin, cocaine, and amphetamines, at any County facility or work site. If CONTRACTOR or any employee of CONTRACTOR is convicted or pleads no contest to a criminal drug statute violation occurring at a County facility or work site, the CONTRACTOR shall, within five days thereafter notify the head of the NMC department/agency for which the AGREEMENT services are performed. Violation of this provision shall constitute a material breach of this AGREEMENT.

16.0 TIME OF ESSENCE

16.1 Time is of the essence in respect to all provisions of this AGREEMENT that specify a time for performance; provided, however, that the foregoing shall not be construed to limit or deprive a party of the benefits of any grace or use period allowed in this AGREEMENT.

17.0 PERFORMANCE ASSURANCE

17.1 Assurance of Performance: If at any time COUNTY believes CONTRACTOR may not be adequately performing its obligations under this AGREEMENT or that CONTRACTOR may fail to complete the Services as required by this AGREEMENT, County may request from CONTRACTOR prompt written assurances of performance and a written plan acceptable to County, to correct the observed deficiencies in CONTRACTOR'S performance. CONTRACTOR shall provide such written assurances and written plan within ten (10) calendar days of its receipt of COUNTY's request and shall thereafter diligently commence and fully perform such written plan. CONTRACTOR acknowledges and agrees that any failure to provide such written assurances and written plan within the required time is a material breach under this AGREEMENT. If COUNTY accepts the plan it shall issue a signed waiver.

17.1.1 Waiver: No waiver of a breach, failure of any condition, or any right or remedy contained in or granted by the provisions of this AGREEMENT shall be effective unless it is in writing and signed by the party waiving the breach, failure, right or remedy. No waiver of any breach, failure, right or remedy shall be deemed a waiver of any other breach, failure, right or remedy, whether or not similar, nor shall any waiver constitute a continuing waiver unless the writing so specifies.

18.0 TRAVEL REIMBURSEMENT

18.1 Travel reimbursements are not permitted for this AGREEMENT.

19.0 EMERGENCY SITUATIONS

19.1 CONTRACTOR shall provide the name and contact information of a representative who shall be available 24 hours a day, 7 days a week, in the event of an emergency. During the emergency, CONTRACTOR shall provide COUNTY with all available supplies, materials, equipment and/or services on a priority basis.

19.2 COUNTY expects emergency deliveries to occur within 4 hours of order placement and may be required during evenings, weekends, and holidays. Time is of the essence for delivery during emergency situations. Delivery location(s) and estimated arrival will be

mutually agreed upon, by COUNTY and CONTRACTOR, at time of order and will be determined based on need and existing conditions. It is understood that current conditions, such as power outages, road closures, and damages to CONTRACTOR's facility and/or equipment, will be taken into consideration.

20.0 NON-APPROPRIATIONS CLAUSE

20.1 Notwithstanding anything contained in this AGREEMENT to the contrary, if insufficient funds are appropriated, or funds are otherwise unavailable in the budget for COUNTY for any reason whatsoever in any fiscal year, for payments due under this AGREEMENT, COUNTY will immediately notify CONTRACTOR of such occurrence, and this AGREEMENT shall terminate after the last day during the fiscal year for which appropriations shall have been budgeted for COUNTY or are otherwise available for payments.

21.0 WARRANTY BY CONTRACTOR

21.1 CONTRACTOR shall perform all services and provide all drawing and documents in accordance with applicable codes and regulations, and shall be fully responsible for the content of all design documents prepared or provided under this AGREEMENT. Time is of the essence of this AGREEMENT.

22.0 NOTICES

22.1 Notices required to be given to the respective parties under this AGREEMENT shall be deemed given by any of the following means: (1) when personally delivered to NMC's contract administrator or to CONTRACTOR'S responsible officer; (2) when personally delivered to the party's principle place of business during normal business hours, by leaving notice with any person apparently in charge of the office and advising such person of the import and contents of the notice; (3) 24 hours after the notice is transmitted by FAX machine to the other party, at the party's FAX number specified pursuant to this AGREEMENT, provided that the party giving notice by FAX must promptly confirm receipt of the FAX by telephone to the receiving party's office; or, (4) three (3) days after the notice is deposited in the U. S. mail with first class or better postage fully prepaid, addressed to the party as indicated below.

22.2 Notices mailed or faxed to the parties shall be addressed as follows:

TO NMC:
Natividad Medical Center
Attn: CONTRACTS DIVISION
1441 Constitution Blvd
Salinas, CA 93906
PHONE 831-755-4111

TO CONTRACTOR:
Wald, Ruhnke, Dost Architects, LLP
2340 Garden Road, Suite 100
Monterey, CA 93940

23.0 LEGAL DISPUTES

23.1 CONTRACTOR agrees that this AGREEMENT and any dispute arising from the relationship between the parties to this AGREEMENT, shall be governed and interpreted by the laws of the State of California, excluding any laws that direct the application of another jurisdiction's laws.

23.2 Any dispute that arises under or relates to this AGREEMENT (whether contract, tort, or both) shall be resolved in the Superior Court of California in Monterey County, California.

23.3 CONTRACTOR shall continue to perform under this AGREEMENT during any dispute.

22.4 The parties agree to waive their separate rights to a trial by jury. This waiver means that the trial will be before a judge.

24.0 GENERAL PROVISIONS

23.1 Counterparts. This Agreement may be executed in one or more counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.

23.2 Entire Agreement. This Agreement is the entire understanding and agreement of the Parties regarding its subject matter, and supersedes any prior oral or written agreements, representations, understandings or discussions between the Parties. Subject to Section 22.3, no other understanding between the Parties shall be binding on them unless set forth in writing, signed and attached to this Agreement.

23.3 Exhibits. The attached Exhibits, together with all documents incorporated by reference in the exhibits, form an integral part of this Agreement and are incorporated by reference into this Agreement, wherever reference is made to them to the same extent as if they were set out in full at the point at which such reference is made.

23.4 Severability. If any provision of this Agreement is determined to be illegal or unenforceable, that provision shall be severed from this Agreement, and such severance shall have no effect upon the enforceability of the remainder of this Agreement.

23.5 Statutes and Regulations. Any reference in this Agreement to any statute, regulation, ruling, or administrative order or decree shall include, and be a reference to any successor statute, regulation, ruling, or administrative order or decree.

23.6 Waiver. No delay or failure to require performance of any provision of this Agreement shall constitute a waiver of that provision as to that or any other instance. Any waiver granted

by a Party must be in writing to be effective, and shall apply solely to the specific instance expressly stated.

The remainder of this page was intentionally left blank.

~ Signature page to follow ~

COUNTY OF MONTEREY on behalf of NATIVIDAD MEDICAL CENTER

By: _____
for Charles R. Harris, Interim CEO

Date: 3-25-22

APPROVED AS TO LEGAL PROVISIONS

By: _____
Monterey County Deputy County Counsel

Chief Deputy County Counsel
Date: 2/28/2022

APPROVED AS TO FISCAL PROVISIONS

By: _____
Monterey County Deputy Auditor/Controller

Date: 3/8/2022

CONTRACTOR

Wald, Ruhnke, Dost Architects, LLP
CONTRACTOR's Business Name
See instructions below

By: _____
(Signature of: Chair, President, or Vice-President)

Henry Ruhnke, Principal
Name and Title

Date: January 13, 2022

By: _____
(Signature of: Secretary, Asst. Secretary, CFO, Treasurer, or Asst. Treasurer)

Christopher Barlow, Principal
Name and Title

Date: January 13, 2022

Instructions

If CONTRACTOR is a corporation; including limited liability and non-profit corporations, the full legal name of the corporation shall be set forth above together with the signatures of two specified officers (two signatures required).

If CONTRACTOR is a partnership; the name of the partnership shall be set forth above together with the signature of a partner who has authority to execute this Agreement on behalf of the partnership (two signatures required).

If CONTRACTOR is contracting in an individual capacity, the individual shall set forth the name of the business, if any and shall personally sign the Agreement (one signature required).

Exhibit A: Scope of Services/Payment Provisions

Position/Title (Indicate Below)	Hourly Rate (w/applicable contract Year shown in parenthe is)
Principal	$255(2022);$260(2023);$265(2024);$270(2025);$275(2026)
Project Architect / Manager	$200(2022);$205(2023);$210(2024);$215(2025);$220(2026)
Job Captain	$180(2022);$185(2023);$190(2024);$195(2025);$200(2026)
Interior Designers	$170(2022);$175(2023);$180(2024);$185(2025);$190(2026)
CAD Technicians	$150(2022);$155(2023);$160(2024);$165(2025);$170(2026)
Administrative Assistants	$120(2022);$125(2023);$130(2024);$135(2025);$140(2026)

Reimbursable Items to be Billed (please list)	Estimated Cost Bills (Note, indicated markup should not exceed 10%)	
(Please see attached schedule of reimbursable items)	Total Cost (if applicable at the time of RFQ)	% of Markup Calculated

All Travel and Expenses will be paid per the Monterey County Travel Policy:
http://www.co.monterey.ca.us/auditor/pdfs/County_Travel_Business_Expense_Policy_12-5-12.pdf

WALD RUHNKE & DOST
ARCHITECTS LLP

Effective October 1, 2021

Reimbursable Expenses:

Travel	
Mileage	Current Federal Rate +10%
In House Charges	
B&W prints/copies - Letter/Legal	$ 0.25 per page
B&W prints/copies - Ledger	$ 0.65 per page
Color prints/copies - Letter/Legal	$ 0.80 each
Color prints/copies - Ledger	$ 1.65 each
Fax Charges	$ 0.50 per page
Comb Binding /Binders	$ 6.00 each
Printing & Plotting	
Bond 24" X 36"	$ 3.50 per sheet
Bond 30" X 42"	$ 4.50 per sheet
Color 24" X 36"	$10.00 per sheet
Color 30" X 42"	$14.00 per sheet
Scanning	
8½" X 11" - Letter/Legal	$ 0.55 per sheet
11" X 17" - Ledger	$ 0.55 per sheet
24" x 36"	$ 8.50 per sheet
30" x 42"	$12.50 per sheet

Other Charges

Consultant charges are billed at cost, plus ten (10%) percent.

Outside reproduction charges, government agency fees, postage, phone charges, travel, and related reimbursable expenses are billed at actual face value of the invoice, plus ten (10%) percent.

Staff travel time is billed at the office personnel hourly rates.

Fees subject to change

Introduced: 9/29/2025

Current Status: Natividad Medical Center - Consent

Version: 1

Matter Type: BoS Agreement

a. Authorize the Chief Executive Officer (CEO) for Natividad Medical Center (NMC) or his designee to execute the Third Amendment to the Professional and Call Coverage Services Agreement with Katharina Pellegrin, MD Inc. to provide general and critical care surgical services, extending the term by 12 months (July 1, 2026 to June 30, 2027) for a revised full agreement term of October 1, 2021 to June 30, 2027 and adding $200,000 for a revised not to exceed amount of $400,000 in the aggregate; and
b. Authorize the CEO or his designee to sign up to three (3) future amendments to this agreement where the total amendments do not significantly change the scope of work, do not cause an increase of more than 10% ($10,000) of the original contract amount and do not increase the total contract amount above $410,000.

RECOMMENDATION:
It is recommended that the Board of Supervisors:
a. Authorize the Chief Executive Officer (CEO) for Natividad Medical Center (NMC) or his designee to execute the Third Amendment to the Professional and Call Coverage Services Agreement with Katharina Pellegrin, MD Inc. to provide general and critical care surgical services, extending the term by 12 months (July 1, 2026 to June 30, 2027) for a revised full agreement term of October 1, 2021 to June 30, 2027 and adding $200,000 for a revised not to exceed amount of $400,000 in the aggregate; and
b. Authorize the CEO or his designee to sign up to three (3) future amendments to this agreement where the total amendments do not significantly change the scope of work, do not cause an increase of more than 10% ($10,000) of the original contract amount and do not increase the total contract amount above $410,000.

SUMMARY:
Natividad received its designation as the Level II Trauma Center for Monterey County in January 2015. The American College of Surgeons requires critical care surgeons to be available in-house with a 15-minute response time for Level II Trauma Centers. In order to provide 24/7 care, it is necessary to maintain a core team of quality surgeons made up of employed and independent contract physicians to provide daily call coverage in the Emergency Department and follow-up care to patients in the Intensive Care Unit.

DISCUSSION:
NMC has an agreement with Katharina Pellegrin, MD, a board-certified fellowship trained trauma

surgeon, to provide general and critical care surgical services as part of the comprehensive trauma services required for a Level II Trauma Center. NMC wishes to amend this agreement to add the provision of backup call services and extend the natural term of the agreement by 12 months so that Dr. Pellegrin can continue to participate in the on-call panel.. NMC has obtained an independent opinion of fair market value supporting the payment terms of this Agreement.

OTHER AGENCY INVOLVEMENT/COMMITTEE ACTIONS:
The Office of County Counsel has reviewed and approved this Amendment as to legal form, and the Auditor-Controller has reviewed and approved this Amendment as to payment provisions. The Amendment has also been reviewed and approved by NMC's Finance Committee and by its Board of Trustees.

FINANCING:
The cost of this Amendment is $200,000. The total not to exceed amount of this Agreement is $400,000. The actual cost is contingent upon Dr. Pellegrin's participation in the call panel which may fluctuate based on her availability. Natividad has agreements with multiple providers to ensure sufficient coverage of the trauma services where the total expenditure will not exceed $1,795,932 annually which is included in Fiscal Year 2025/2026 Adopted Budget. The remaining balance will be budgeted in the subsequent fiscal years. Funding will be provided from NMC's Enterprise Fund 451-9600-6608.

BOARD OF SUPERVISORS STRATEGIC PLAN GOALS:
The services rendered in this agreement are required for a Level II Trauma Center and provides NMC with the additional support it needs in order to provide exceptional facilities and health programs to create safe and healthy communities where all can thrive.

Mark a check to the related Board of Supervisors Strategic Plan Goals
__X_ Well-Being and Quality of Life
____ Sustainable Infrastructure for the Present and Future
____ Safe and Resilient Communities
____ Diverse and Thriving Economy
____ Dynamic Organization and Employer of Choice
____ Administrative

Prepared by: Jeanne-Ann Balza, Director of Physician Services, 783.2506
Approved by: Dr. Charles R. Harris, Chief Executive Officer, 783.2551

Attachments:
Board Report
Third Amendment
Second Amendment
First Amendment

Agreement

Attachments on file with the Clerk of the Board

Introduced: 9/29/2025
Version: 1

Current Status: Agenda Ready
Matter Type: BoS Agreement

a. Authorize the Chief Executive Officer (CEO) for Natividad Medical Center (NMC) or his designee to execute the Third Amendment to the Professional and Call Coverage Services Agreement with Katharina Pellegrin, MD Inc. to provide general and critical care surgical services, extending the term by 12 months (July 1, 2026 to June 30, 2027) for a revised full agreement term of October 1, 2021 to June 30, 2027 and adding $200,000 for a revised not to exceed amount of $400,000 in the aggregate; and
b. Authorize the CEO or his designee to sign up to three (3) future amendments to this agreement where the total amendments do not significantly change the scope of work, do not cause an increase of more than 10% ($10,000) of the original contract amount and do not increase the total contract amount above $410,000.

RECOMMENDATION:
It is recommended that the Board of Supervisors:
a. Authorize the Chief Executive Officer (CEO) for Natividad Medical Center (NMC) or his designee to execute the Third Amendment to the Professional and Call Coverage Services Agreement with Katharina Pellegrin, MD Inc. to provide general and critical care surgical services, extending the term by 12 months (July 1, 2026 to June 30, 2027) for a revised full agreement term of October 1, 2021 to June 30, 2027 and adding $200,000 for a revised not to exceed amount of $400,000 in the aggregate; and
b. Authorize the CEO or his designee to sign up to three (3) future amendments to this agreement where the total amendments do not significantly change the scope of work, do not cause an increase of more than 10% ($10,000) of the original contract amount and do not increase the total contract amount above $410,000.

SUMMARY:
Natividad received its designation as the Level II Trauma Center for Monterey County in January 2015. The American College of Surgeons requires critical care surgeons to be available in-house with a 15-minute response time for Level II Trauma Centers. In order to provide 24/7 care, it is necessary to maintain a core team of quality surgeons made up of employed and independent contract physicians to provide daily call coverage in the Emergency Department and follow-up care to patients in the Intensive Care Unit.

DISCUSSION:
NMC has an agreement with Katharina Pellegrin, MD, a board-certified fellowship trained trauma surgeon, to provide general and critical care surgical services as part of the comprehensive trauma services required for a Level II Trauma Center. NMC wishes to amend

this agreement to add the provision of backup call services and extend the natural term of the agreement by 12 months so that Dr. Pellegrin can continue to participate in the on-call panel.. NMC has obtained an independent opinion of fair market value supporting the payment terms of this Agreement.

OTHER AGENCY INVOLVEMENT/COMMITTEE ACTIONS:
The Office of County Counsel has reviewed and approved this Amendment as to legal form, and the Auditor-Controller has reviewed and approved this Amendment as to payment provisions. The Amendment has also been reviewed and approved by NMC's Finance Committee and by its Board of Trustees.

FINANCING:
The cost of this Amendment is $200,000. The total not to exceed amount of this Agreement is $400,000. The actual cost is contingent upon Dr. Pellegrin's participation in the call panel which may fluctuate based on her availability. Natividad has agreements with multiple providers to ensure sufficient coverage of the trauma services where the total expenditure will not exceed $1,795,932 annually which is included in Fiscal Year 2025/2026 Adopted Budget. The remaining balance will be budgeted in the subsequent fiscal years. Funding will be provided from NMC's Enterprise Fund 451-9600-6608.

BOARD OF SUPERVISORS STRATEGIC PLAN GOALS:
The services rendered in this agreement are required for a Level II Trauma Center and provides NMC with the additional support it needs in order to provide exceptional facilities and health programs to create safe and healthy communities where all can thrive.

Mark a check to the related Board of Supervisors Strategic Plan Goals
__X_ Well-Being and Quality of Life
____ Sustainable Infrastructure for the Present and Future
____ Safe and Resilient Communities
____ Diverse and Thriving Economy
____ Dynamic Organization and Employer of Choice
____ Administrative

Prepared by: Jeanne-Ann Balza, Director of Physician Services, 783.2506
Approved by: Dr. Charles R. Harris, Chief Executive Officer, 783.2551

Attachments:
Board Report
Third Amendment
Second Amendment
First Amendment
Agreement

Attachments on file with the Clerk of the Board

Docusign Envelope ID: CC9BCE14-F81F-46A8-AE31-7A48769CA935

THIRD AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT

THIS THIRD AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT (the **"Amendment"**) is made and entered into as of November 1, 2025, by and between COUNTY OF MONTEREY (**"County"**) on behalf of NATIVIDAD MEDICAL CENTER (**"Hospital"**), and KATHARINA PELLEGRIN, M.D., an individual (**"Contractor"**) with respect to the following:

RECITALS

A. County owns and operates Hospital, a general acute care teaching hospital facility and Level II Trauma Center located in Salinas, California and various outpatient clinics (collectively, the **"Clinic"**) under its acute care license.

B. Contractor and Hospital have entered into that certain Professional Services Agreement dated effective as of September 20, 2022, as amended effective September 20, 2023 and May 1, 2025 (collectively, the **"Agreement"**) pursuant to which Contractor provides Specialty services.

C. Hospital and Contractor desire to amend the Agreement to add backup call coverage services, extend the term by twelve (12) months, and add Two Hundred Thousand Dollars ($200,000) to the aggregate amount payable to Contractor.

AGREEMENT

IN CONSIDERATION of the foregoing recitals and the mutual promises and covenants contained herein, Hospital and Contractor agree as follows:

1. **Defined Terms**. Capitalized terms not otherwise defined herein shall have the meaning ascribed to them in the Agreement.

2. **Section 1.1**. Section 1.1 to the Agreement is hereby amended and restated to read in its entirety as follows:

> **"1.1 Professional Services.**
>
> (a) Contractor shall provide professional services in the Specialty to Patients, upon the terms and subject to the conditions set forth in this Agreement (the **"Professional Services"**).

Docusign Envelope ID: CC9BCE14-F81F-46A8-AE31-7A48769CA935

(b) Contractor shall be available to provide, twenty-four (24) hour shifts (each a **"Shift"** and collectively, **"Shifts"**) of on-site coverage services at Hospital and be available on an on-call basis to provide Professional Services to Patients within fifteen (15) minutes of notification, upon the terms and conditions set forth in this Agreement (**"Trauma Coverage Services"**). Trauma Coverage Services shall include acute care surgery and critical care services as well as inpatient and outpatient procedures performed in Hospital's operating rooms.

(c) Contractor shall also be available on an on-call basis to serve as the back- up physician in the Specialty to provide Professional Services to Patients when the primary on- call Specialty physician is unavailable (**"Back-Up Call Coverage Services"**). For the purpose of this Agreement, Back-Up Call Coverage Services shall be provided in Shifts.

(d) Contractor shall be available to provide Shifts of off-site coverage services at Hospital and be available on an on-call basis to provide Professional Services to Patients within thirty (30) minutes of notification, upon the terms and conditions set forth in this Agreement (**"General Surgery Coverage Services"**). General Surgery Coverage Services shall include trauma back-up coverage services, follow-up and inpatient rounding on patients as necessary during the twenty (24) hour period. Trauma Coverage Services, Back-up Call Coverage Services and General Surgery Coverage Services are sometimes referred to collectively in this Agreement as **"Coverage Services"**.

(e) Contractor shall provide Coverage Services along with other Panel Members in a manner that is sufficient to ensure Specialty coverage for the Hospital twenty-four (24) hours per day, seven (7) days per week, including all holidays, in accordance with the schedule developed by the trauma program director designated by Hospital (the **"Trauma Program Director"**). For the avoidance of doubt, Contractor shall provide Coverage Services with other Panel Members, and nothing in this Agreement or in any other written or oral agreement between Hospital and Contractor contemplates or guarantees any minimum number of Shifts of Coverage Services to be provided by Contractor.

(f) Contractor shall provide timely initial follow-up care for all Hospital patients referred for care by the ED or attending physician. If Contractor is the physician on-call at the time of the referral, Contractor shall provide any necessary follow-up care for such patients regardless of the patient's ability to pay for services at the time of the first visit.

Docusign Envelope ID: CC9BCE14-F81F-46A8-AE31-7A48769CA935

(g) Contractor shall also be available to provide Professional Services in the Clinic (the **"Clinic Services"**).

3. **Section 1.3.** Section 1.3 to the Agreement is hereby amended and restated to read in its entirety as follows:

> **"1.3 Additional Services.** Contractor shall provide to Hospital those additional services set forth in **Exhibit 1.3** (the **"Additional Services"**), upon the terms and subject to the conditions set forth in this Agreement. The Professional Services, Teaching Services, Coverage Services, Clinic Services, and Additional Services are sometimes referred to collectively in this Agreement as the **"Services**.**"**

4. **Section 2.1**. Section 5.1 to the Agreement is hereby amended and restated to read in its entirety as follows:

> **"2.1 Compensation.** Hospital shall pay to Contractor the amount determined in accordance with **Exhibit 2.1** (the **"Compensation"**), upon the terms and conditions set forth therein. The total amount payable by Hospital to Contractor under this Agreement shall not exceed the sum of Four hundred Thousand Dollars ($400,000).**"**

5. **Section 5.1**. Section 5.1 to the Agreement is hereby amended and restated to read in its entirety as follows:

> **"5.1 Term.** This Agreement shall become effective on November 1, 2025 (the **"Effective Date"**) and shall continue until June 30, 2027 (the **"Expiration Date"**), subject to the termination provisions of this Agreement.**"**

6. **Exhibit 2.1.** Exhibit 2.1 to the Agreement is herby deleted and replaced in its entirety and incorporated by reference as attached **Exhibit 2.1**.

7. **Counterparts**. This Amendment may be executed in one or more counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.

8. **Continuing Effect of Agreement**. Except as herein provided, all of the terms and conditions of the Agreement remain in full force and effect from the Effective Date of the Agreement.

9. **Reference**. After the date of this Amendment, any reference to the Agreement shall mean the Agreement as amended by this Amendment.

[signature page follows]

Docusign Envelope ID: CC9BCE14-F81F-46A8-AE31-7A48769CA935

IN WITNESS WHEREOF, Hospital and Contractor have executed this Amendment as of the day and year first written above.

CONTRACTOR

KATHARINA PELLEGRIN, M.D., an individual

DocuSigned by:
Katharina Pellegrin
3E7BCFC32DCE42F...

Date: 9/23/2025 | 5:37 PM PDT

NATIVIDAD MEDICAL CENTER

_____

Deputy Purchasing Agent

Date: _____

APPROVED AS TO LEGAL PROVISIONS:

Signed by:
Stacy Saetta
696D2ADD44C4341D...

Stacy Saetta, Deputy County Counsel

Date: 9/24/2025 | 5:11 PM PDT

APPROVED AS TO FISCAL PROVISIONS:

DocuSigned by:
Patricia Ruiz
E79E64E5745456...

Deputy Auditor/Controller

Date: 9/26/2025 | 7:49 AM PDT

Docusign Envelope ID: CC9BCE14-F81F-46A8-AE31-7A48769CA935

Exhibit 2.1

COMPENSATION

1. **Coverage Services Compensation.**

   a. Hospital shall pay to Contractor an amount equal to Four Thousand Six Hundred Sixty Dollars ($4,600) per Shift of Trauma Coverage Services;

   b. Hospital shall pay to Contractor an amount equal to Two Thousand Dollars ($2,000) per Shift of General Surgery Coverage Services provided pursuant to this Agreement; provided, however, that Contractor is in compliance with the terms and conditions of this Agreement. For the avoidance of doubt, Contractor shall not simultaneously provide Trauma Coverage Services and General Surgery Coverage Services during the same Shift.

   c. If Contractor is asked to provide trauma back-up call coverage separate of General Surgery Coverage Services, Contractor shall be paid an amount equal to Five Hundred Dollars ($500) per Shift (**"Back-up Call Coverage Compensation"**), plus One Hundred Ninety One Dollars and Sixty Six Cents ($191.66) per each hour that Contractor is required to be physically present at Hospital, not to exceed Four Thousand Five Hundred Sixty Dollars ($4,600) per day in the aggregate.

2. **Professional Liability Reimbursement.** In the event that Contractor does not purchase the professional liability insurance set forth in the Agreement, Hospital will deduct Twenty-Eight Dollars and Eleven Cents ($28.11) per Shift, not to exceed Eight Hundred Fifty-Four Dollars and Ninety-One Cents ($854.91) per month to compensate for Hospital's payment of professional liability insurance premiums on behalf of Contractor. This amount reflects the then-current rate, rates are subject to change.

3. **Timing.** Hospital shall pay the compensation due for Services performed by Contractor after Contractor's submission of the monthly invoice of preceding month's activity and time report in accordance with this Agreement; provided, however, that if Contractor does not submit an invoice and time sheet within sixty (60) days of the end of the month during which Services were performed, Hospital shall not be obligated to pay Contractor for Services performed during that month. The County of Monterey Standard Payment Terms for contracts/PSAs and paying invoices is "30 days after receipt of the certified invoice in the Auditor-Controller's Office".

Docusign Envelope ID: 2B93578C-920B-4F2F-8244-6A7BEB0EA60C

SECOND AMENDMENT TO PROFESSIONAL AND CALL COVERAGE SERVICES AGREEMENT

THIS SECOND AMENDMENT TO PROFESSIONAL AND CALL COVERAGE SERVICES AGREEMENT (the **"Amendment"**) is made and entered into as of May 1, 2025, by and between COUNTY OF MONTEREY (**"County"**) on behalf of NATIVIDAD MEDICAL CENTER (**"Hospital"**), and KATHARINA PELLEGRIN, M.D., an individual (**"Contractor"**) with respect to the following:

RECITALS

A. County owns and operates Hospital, a general acute care teaching hospital facility and Level II Trauma Center located in Salinas, California and various outpatient clinics (collectively, the **"Clinic"**) under its acute care license.

B. Contractor and Hospital have entered into that certain Professional Services Agreement dated effective as of October 1, 2021, as amended effective October 1, 2023 (collectively, the **"Agreement"**), pursuant to which Contractor provides Specialty services.

C. Hospital and Contractor desire to amend the Agreement to extend the term by nine (9) months, and add One Hundred Thousand Dollars ($100,000) to the aggregate amount payable to Contractor.

AGREEMENT

IN CONSIDERATION of the foregoing recitals and the mutual promises and covenants contained herein, Hospital and Contractor agree as follows:

1. **Defined Terms**. Capitalized terms not otherwise defined herein shall have the meaning ascribed to them in the Agreement.

2. **Section 2.1**. Section 2.1 to the Agreement is hereby amended and restated to read in its entirety as follows:

> **"2.1 Compensation.** Hospital shall pay to Contractor the amount determined in accordance with **Exhibit 2.1** (the **"Compensation"**), upon the terms and conditions set forth therein. The total amount payable by Hospital to Contractor under this Agreement shall not exceed the sum of Two hundred Thousand Dollars ($200,000)."

Docusign Envelope ID: 2B93578C-920B-4F2F-8244-6A7BEB0EA60C

3. **Section 5.1**. Section 5.1 to the Agreement is hereby amended and restated to read in its entirety as follows:

> **"5.1 Term.** This Agreement shall become effective on October 1, 2021 (the **"Effective Date"**), and shall continue until June 30, 2026 (the **"Expiration Date"**), subject to the termination provisions of this Agreement."

4. **Counterparts**. This Amendment may be executed in one or more counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.

5. **Continuing Effect of Agreement**. Except as herein provided, all of the terms and conditions of the Agreement remain in full force and effect from the Effective Date of the Agreement.

6. **Reference**. After the date of this Amendment, any reference to the Agreement shall mean the Agreement as amended by this Amendment.

[signature page follows]

IN WITNESS WHEREOF, Hospital and Contractor have executed this Amendment as of the day and year first written above.

CONTRACTOR

KATHARINA PELLEGRIN, M.D., an individual

DocuSigned by:
Katharina Pellegrin
3E7BCFC32DCE42F...

Date: 4/2/2025 | 6:49 PM PDT

NATIVIDAD MEDICAL CENTER

DocuSigned by:
Charles R. Harris
[illegible]

Date: 4/3/2025 | 2:13 PM PDT

Deputy Purchasing Agent

APPROVED AS TO LEGAL PROVISIONS:

Signed by:
Stacy Saetta
696E21B44C134D...

Date: 4/3/2025 | 2:09 PM PDT

Stacy Saetta, Deputy County Counsel

APPROVED AS TO FISCAL PROVISIONS:

DocuSigned by:
Patricia Ruiz
[illegible]

Date: 4/3/2025 | 2:00 PM PDT

Deputy Auditor/Controller

DocuSign Envelope ID: 1DD998E3-A3D5-43BF-A0BC-2414F731031E

FIRST AMENDMENT TO PROFESSIONAL AND CALL COVERAGE SERVICES AGREEMENT

THIS FIRST AMENDMENT TO PROFESSIONAL AND CALL COVERAGE SERVICES AGREEMENT (the **"Amendment"**) is made and entered into as of October 1, 2023, by and between COUNTY OF MONTEREY (**"County"**) on behalf of NATIVIDAD MEDICAL CENTER (**"Hospital"**), and KATHARINA PELLEGRIN, M.D., an individual (**"Contractor"**) with respect to the following:

RECITALS

A. County owns and operates Hospital, a general acute care teaching hospital facility and Level II Trauma Center located in Salinas, California and various outpatient clinics (collectively, the **"Clinic"**) under its acute care license.

B. Contractor and Hospital have entered into that certain Professional Services Agreement dated effective as of October 1, 2021 (the **"Agreement"**), pursuant to which Contractor provides Specialty services.

C. Hospital and Contractor desire to amend the Agreement to extend the term for an additional twenty-four (24) months, as set forth below.

AGREEMENT

IN CONSIDERATION of the foregoing recitals and the mutual promises and covenants contained herein, Hospital and Contractor agree as follows:

1. **Defined Terms**. Capitalized terms not otherwise defined herein shall have the meaning ascribed to them in the Agreement.

2. **Section 5.1**. Section 5.1 to the Agreement is hereby amended and restated to read in its entirety as follows:

> **"5.1 Term.** This Agreement shall become effective on October 1, 2021 (the **"Effective Date"**), and shall continue until September 30, 2025 (the **"Expiration Date"**), subject to the termination provisions of this Agreement.**"**

3. **Counterparts**. This Amendment may be executed in one or more counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.

4. **Continuing Effect of Agreement**. Except as herein provided, all of the terms and conditions of the Agreement remain in full force and effect from the Effective Date of the Agreement.

5. **Reference**. After the date of this Amendment, any reference to the Agreement shall mean the Agreement as amended by this Amendment.

[signature page follows]

IN WITNESS WHEREOF, Hospital and Contractor have executed this Amendment as of the day and year first written above.

CONTRACTOR

KATHARINA PELLEGRIN, M.D., an individual

DocuSigned by:
Katharina Pellegrin
3E7BCFC32DCE42F...

Date: 8/31/2023 | 4:35 PM PDT

NATIVIDAD MEDICAL CENTER

DocuSigned by:
Charles Harris
4E1F837D204E481...

Date: 9/1/2023 | 9:45 AM PDT

Deputy Purchasing Agent

APPROVED AS TO LEGAL PROVISIONS:

DocuSigned by:
Stacy Saetta
C0ECE1B99F444A9...

Date: 8/31/2023 | 6:28 PM PDT

Stacy Saetta, Deputy County Counsel

APPROVED AS TO FISCAL PROVISIONS:

DocuSigned by:
Jennifer Forsyth
4E7E657875454AE...

Date: 9/1/2023 | 8:56 AM PDT

Deputy Auditor/Controller

PROFESSIONAL AND CALL COVERAGE SERVICES AGREEMENT

by and between

NATIVIDAD MEDICAL CENTER ("Hospital")

and

KATHARINA PELLEGRIN, M.D. ("Contractor")

PROFESSIONAL AND CALL COVERAGE SERVICES AGREEMENT

THIS PROFESSIONAL AND CALL COVERAGE SERVICES AGREEMENT (this **"Agreement"**) is entered into as of October 1, 2021, by and between COUNTY OF MONTEREY (**"County"**) on behalf of NATIVIDAD MEDICAL CENTER (**"Hospital"**), and KATHARINA PELLEGRIN, M.D., an individual (**"Contractor"**). County, Hospital and Contractor are sometimes referred to in this Agreement as a **"Party"** or, collectively, as the **"Parties**."

RECITALS

A. County owns and operates Hospital, a general acute care teaching hospital facility and Level II Trauma Center located in Salinas, California and various outpatient clinics (collectively, the **"Clinic"**) under its acute care license.

B. Contractor is duly licensed to practice medicine in the State of California (the **"State"**). Contractor is board certified for the practice of medicine in the specialty of general and critical care surgery (collectively, the **"Specialty"**).

C. Hospital must arrange for the provision of professional consultation and treatment of patients who present to the emergency department (**"ED"**) and who are admitted as Hospital inpatients in need of medical care or treatment in the Specialty, including inpatient and outpatient procedures performed in Hospital's operating room and who present to Hospital's Clinic (collectively, the **"Patients"**), without regard to any consideration other than medical condition.

D. In order to ensure adequate and continued Specialty coverage for the Hospital as required by applicable federal and state laws, Hospital desires to engage a panel of physicians specializing in the Specialty, including Contractor (each, a **"Panel Member"** and, collectively, the **"Panel Members"**), to provide call coverage for the Hospital, upon the terms and subject to the conditions set forth in this Agreement.

E. Hospital has considered the following factors in determining the necessity and amount of compensation payable to Contractor pursuant to this Agreement:

1. The nature of Contractor's duties as contemplated by this Agreement.

2. Contractor's qualifications.

3. The benefits to Hospital's community resulting from Contractor's performance of the services described in this Agreement.

AGREEMENT

THE PARTIES AGREE AS FOLLOWS:

ARTICLE I.
CONTRACTOR'S OBLIGATIONS

1.1 Professional Services.

(a) Contractor shall provide the Specialty professional services Contractor is qualified to provide (the **"Professional Services"**) to Patients, upon the terms and subject to the conditions set forth in this Agreement.

(b) Contractor shall be available on an on-call basis to provide Specialty medical care and treatment to Patients (**"Coverage Services"**), upon the terms and conditions set forth in this Agreement.

(c) Contractor shall provide timely initial follow-up care for all Hospital patients referred for care by the ED or attending physician. If Contractor is the physician on-call at the time of the referral, Contractor shall provide any necessary follow-up care for such patients regardless of the patient's ability to pay for services at the time of the first visit.

1.2 Teaching Services. Contractor shall provide to Hospital those teaching services set forth in **Exhibit 1.2** (collectively, the **"Teaching Services"**). Contractor shall not be separately compensated for the provision of Teaching Services under this Agreement.

1.3 Additional Services. Contractor shall provide to Hospital those additional services set forth in **Exhibit 1.3** (the **"Additional Services"**), upon the terms and subject to the conditions set forth in this Agreement. The Professional Services, Teaching Services, Coverage Services and Additional Services are sometimes referred to collectively in this Agreement as the **"Services."**

1.4 Personal Services. This Agreement is entered into by Hospital in reliance on the professional skills of Contractor. Contractor shall be solely responsible for performing the Services and otherwise fulfilling the terms of this Agreement, except as specifically set forth in this Agreement.

1.5 Time Commitment. Contractor shall allocate time among the Professional Services, Teaching Services, Coverage Services and Additional Services as reasonably requested by Hospital from time to time.

1.6 Availability. Contractor shall provide Coverage Services along with other Panel Members in a manner that is sufficient to ensure Specialty coverage for the Hospital twenty-four (24) hours per day, seven (7) days per week, including all holidays, in accordance with the schedule developed by Hospital in consultation with the Panel Members from time to time. On or before the first (1st) day of each month, Contractor shall inform Hospital of Contractor's schedule of availability to perform the Services during the following month. Contractor shall use his or her best efforts to adjust such schedule of availability if reasonably requested by Hospital in order to meet Hospital's needs for the Services. Contractor shall not be simultaneously on-call to any other hospital or health care facility while scheduled to provide Coverage Services for the Hospital, except as otherwise approved in writing by Hospital. Contractor's breach of this Section 1.6 shall constitute grounds for immediate removal from future trauma call at Hospital. If Contractor is for any reason unable to perform Coverage Services as scheduled, Contractor shall inform Hospital within thirty (30) days prior to the day Contractor is scheduled to provide the Coverage Services.

~~**1.7 Absences.** If Contractor is for any reason unable to perform Coverage Services as scheduled, Contractor shall inform Hospital within thirty (30) days prior to the day Contractor is scheduled to provide the Coverage Services. If Contractor is unable or reasonably expected to be unable to provide the Services for any reason for a period of greater than thirty (30) consecutive days or sixty (60) days in the aggregate over any three (3) month period, Contractor shall designate a qualified replacement to provide the Services on behalf of Contractor, subject to the prior written approval of Hospital. Contractor shall ensure that any such designated replacement meets any and all obligations and requirements of Contractor under this Agreement. If the length of Contractor's absence is anticipated to be or actually is longer than sixty (60) calendar days, the person who provides the Services in Contractor's absence shall execute a written acknowledgment in form and substance acceptable to Hospital agreeing to be bound by all terms of this Agreement. Except in the event of absence due to illness or disability, Hospital shall have the right to approve the length of Contractor's absence, and any unapproved absence shall constitute a breach of this Agreement.~~

1.8 Time Reports. Contractor shall maintain and submit to Hospital monthly time sheets that provide a true and accurate accounting of time spent on a daily basis providing the Services. Such time sheets shall be on the then-current form provided by Hospital attached hereto as **Exhibit 1.8**. Contractor shall submit all such time sheets to Hospital no later than the tenth (10th) day of each month for Services provided by Contractor during the immediately preceding month.

1.9 Medical Staff. Contractor shall be a member in good standing and active on the Hospital's medical staff (the **"Medical Staff"**) and have and maintain all clinical privileges at Hospital necessary for the performance of Contractor's obligations under this Agreement. If, as of the Effective Date (as defined in Section 5.1), Contractor is not a member in good standing or active on the Medical Staff or does not hold all clinical privileges at Hospital necessary for the performance of Contractor's obligations hereunder, Contractor shall have a reasonable amount of time, which in no event shall exceed sixty (60) calendar days from the Effective Date, to obtain such membership and/or clinical privileges; provided, however, that Hospital may immediately terminate this Agreement if Hospital determines that Contractor is not diligently pursuing such membership and/or clinical privileges in accordance with the normal procedures set forth in the

Medical Staff bylaws. Contractor may obtain and maintain medical staff privileges at any other hospital or health care facility at Contractor's sole expense.

1.10 Professional Qualifications. Contractor shall have and maintain an unrestricted license to practice medicine in the State. Contractor shall be board certified in the Specialty by the applicable medical specialty board approved by the American Board of Medical Specialties. Contractor shall have and maintain a valid and unrestricted United States Drug Enforcement Administration (**"DEA"**) registration.

1.11 Review of Office of the Inspector General ("OIG") Medicare Compliance Bulletins. The OIG from time to time issues Medicare compliance alert bulletins. To the extent applicable to Contractor's performance under this Agreement, Contractor shall undertake to review, be familiar with and comply with all applicable requirements of such OIG compliance bulletins.

1.12 Performance Standards. Contractor shall comply with all bylaws, Medical Staff policies, rules and regulations of Hospital and the Medical Staff (collectively, the **"Hospital Rules"**), and all protocols applicable to the Services or the Hospital (the **"Protocols"**).

1.13 Code of Conduct. Contractor hereby acknowledges receipt of Hospital's Code of Conduct which is attached to this Agreement as **Exhibit 1.13** (the **"Code"**), and agrees that Contractor has been given ample opportunity to read, review and understand the Code. With respect to Contractor's business dealings with Hospital and Contractor's performance of the Services described in this Agreement, Contractor shall not act in any manner which conflicts with or violates the Code, and shall not cause another person to act in any manner which conflicts with or violates the Code. Contractor shall comply with the Code as it relates to Contractor's business relationship with Hospital or any Affiliate, subsidiaries, employees, agents, servants, officers, directors, contractors and suppliers of every kind.

1.14 Continuing Medical Education. Contractor shall participate in continuing medical education (**"CME"**) as necessary to maintain licensure, professional competence and skills commensurate with the standards of the medical community, as required under the American College of Surgeons trauma center requirements and guidelines (**"ACS Requirements"**) or as otherwise required by the medical profession. Contractor must provide to Hospital documentation showing Contractor's completion of a minimum of sixteen (16) hours of CME per year, or forty-eight (48) hours over three (3) years of external trauma-related CME.

1.15 Use of Space. Contractor shall use Hospital's premises and space solely and exclusively for the provision of the Services, except in an emergency or with Hospital's prior written consent.

1.16 Notification of Certain Events. Contractor shall notify Hospital in writing within twenty-four (24) hours after the occurrence of any one or more of the following events:

(a) Contractor becomes the subject of, or materially involved in, any investigation, proceeding, or disciplinary action by: Medicare and Medicaid programs or any other Federal health care program, as defined at 42 U.S.C. Section 1320a-7b(f) (collectively, the **"Federal Health Care Programs"**) or state equivalent, any state's medical board, any agency responsible for professional licensing, standards or behavior, or any medical staff;

(b) Contractor's medical staff membership or clinical privileges at any hospital are denied, suspended, restricted, revoked or voluntarily relinquished, regardless of the availability of civil or administrative hearing rights or judicial review with respect thereto;

(c) Contractor becomes the subject of any suit, action or other legal proceeding arising out of Contractor's professional services;

(d) Contractor is required to pay damages or any other amount in any malpractice action by way of judgment or settlement;

(e) Contractor becomes the subject of any disciplinary proceeding or action before any state's medical board or similar agency responsible for professional standards or behavior;

(f) Contractor voluntarily or involuntarily retires from the practice of medicine;

(g) Contractor's license to practice medicine in the State is restricted, suspended or terminated, regardless of the availability of civil or administrative hearing rights or judicial review with respect thereto;

(h) Contractor is charged with or convicted of a criminal offense;

(i) any act of nature or any other event occurs which has a material adverse effect on Contractor's ability to provide the Services; or

(j) Contractor is debarred, suspended, excluded or otherwise ineligible to participate in any Federal Health Care Program or state equivalent.

1.17 Representations and Warranties by Contractor. Contractor represents and warrants that: (a) Contractor's license to practice medicine in any state has never been suspended, revoked or restricted; (b) Contractor has never been reprimanded, sanctioned or disciplined by any licensing board or medical specialty board; (c) Contractor has never been excluded or suspended from participation in, or sanctioned by, any Federal Health Care Program; (d) Contractor has never been denied membership and/or reappointment to the medical staff of any hospital or health care facility; (e) Contractor's medical staff membership or clinical privileges at any hospital or health care facility have never been suspended, limited or revoked for a medical disciplinary cause or reason; and (f) Contractor has never been charged with or convicted of a felony, a misdemeanor involving fraud, dishonesty, controlled substances, or

moral turpitude, or any crime relevant to the provision of medical services or the practice of medicine.

1.18 Nondiscrimination. Contractor shall not differentiate or discriminate in performing the Services on the basis of race, religion, creed, color, national origin, ancestry, sex, physical disability, mental disability, medical condition, marital status, age, sexual orientation or payor, or on any other basis prohibited by applicable law.

1.19 Non-Exclusive Services. The Services provided by Contractor hereunder are intended to be non-exclusive. Notwithstanding the above, during the term of this Agreement, Contractor shall undertake to retain the service capacity necessary to provide those Services described in this Agreement, to the extent necessary to serve the reasonably foreseeable patient needs for medical care at Hospital and the administrative services hereunder.

1.20 Compliance with Grant Terms. If this Agreement has been or will be funded with monies received by Hospital or County pursuant to a contract with the state or federal government or private entity in which Hospital or County is the grantee, Contractor shall comply with all the provisions of said contract, and said provisions shall be deemed a part of this Agreement, as though fully set forth herein. Upon request, Hospital shall deliver a copy of said contract to Contractor at no cost to Contractor.

1.21 Coordination with Attending Physicians. Contractor shall promptly report the results of all professional services furnished to an ED patient to such patient's attending physician(s) and any other physician(s) engaged in specialty consultation or treatment for such patient.

1.22 Medical Records and Claims.

(a) Contractor shall prepare complete, timely, accurate and legible medical and other records with respect to the services and treatment furnished by Contractor to ED patients, in accordance with the Hospital Rules, federal and state laws and regulations, and standards and recommendations of such nationally recognized accrediting organization as Hospital designates from time to time. All such information and records relating to any ED patient shall be: (i) prepared on forms developed, provided or approved by Hospital; (ii) the sole property of Hospital; and (iii) maintained at Hospital in accordance with the terms of this Agreement and for so long as is required by applicable laws and regulations.

(b) Contractor shall maintain and upon request provide to ED patients, Hospital, and state and federal agencies, all financial books and records and medical records and charts as may be necessary for Contractor and/or Hospital to comply with applicable state, federal, and local laws and regulations and with contracts between Hospital and third party payors. Contractor shall cooperate with Hospital in completing such claim forms for ED patients as may be required by insurance carriers, health care service plans, governmental agencies, or other third party payors. Contractor shall retain all such records and information for at least ten (10) years following the expiration or termination of this Agreement. This Section 1.22(b) shall survive the expiration or termination of this Agreement.

1.23 Records Available to Contractor. Both during and after the term of this Agreement, Hospital shall permit Contractor and Contractor's agents to inspect and/or duplicate, at Contractor's sole cost and expense, any medical chart and record to the extent necessary to meet Contractor's professional responsibilities to patients, to assist in the defense of any malpractice or similar claim to which such chart or record may be pertinent, and/or to fulfill requirements pursuant to provider contracts to provide patient information; provided, however, such inspection or duplication is permitted and conducted in accordance with applicable legal requirements and pursuant to commonly accepted standards of patient confidentiality. Contractor shall be solely responsible for maintaining patient confidentiality with respect to any information which Contractor obtains pursuant to this Section.

1.24 Response Times. Contractor shall be promptly available and respond in person to a request for an emergency evaluation by the attending physician or the ED physician within a response time frame as required by the patient's medical condition and in accordance with the requirements set forth in **Exhibit 1.24**, the Hospital Rules and ACS Requirements. Contractor shall respond within thirty (30) minutes by phone, if asked to respond by phone, to any request for an ED or patient phone consultation and subsequent follow-up at Hospital.

ARTICLE II.
COMPENSATION

2.1 Compensation. Hospital shall pay to Contractor the amount determined in accordance with **Exhibit 2.1** (the **"Compensation"**), upon the terms and conditions set forth therein. The total amount payable by Hospital to Contractor under this Agreement shall not exceed the sum of One Hundred Thousand Dollars ($100,000).

2.2 Billing and Collection. Hospital shall have the sole and exclusive right to bill and collect for any and all Professional Services rendered to Patients by Contractor under this Agreement (the **"NMC Services"**). Hospital shall have the sole and exclusive right, title and interest in and to accounts receivable with respect to such NMC Services.

(a) **Assignment of Claims.** Contractor hereby assigns (or reassigns, as the case may be) to Hospital all claims, demands and rights of Contractor for any and all NMC Services rendered by Contractor pursuant to this Agreement. Contractor shall take such action and execute such documents (e.g., CMS Forms 855R and 855I), as may be reasonably necessary or appropriate to effectuate the assignment (or reassignment, as the case may be) to Hospital of all claims, demands and rights of Contractor for any and all NMC Services rendered by Contractor pursuant to this Agreement.

(b) **Cooperation with Billing and Collections.** Contractor shall cooperate with Hospital in the billing and collection of fees with respect to NMC Services rendered by Contractor. Without limiting the generality of the foregoing, Contractor shall cooperate with Hospital in completing such claim forms with respect to NMC Services rendered by Contractor pursuant to this Agreement as may be required by insurance carriers, health care service plans, governmental agencies, or other third party payors.

(c) **Hospital as Exclusive Source for Compensation for NMC Services.** Contractor shall seek and obtain compensation for the performance of NMC Services only from Hospital. Contractor shall not, bill, assess or charge any fee, assessment or charge of any type against any Hospital patient or any other person or entity for NMC Services rendered by Contractor pursuant to this Agreement. Contractor shall promptly deliver to Hospital any and all compensation, in whatever form, that is received by Contractor for NMC Services rendered by Contractor pursuant to this Agreement, including any amount received from any Managed Care Organization (as defined below) for NMC Services rendered by Contractor pursuant to this Agreement.

(d) **Joint and Several Liability**. Hospital and Contractor acknowledge that they will be jointly and severally liable for any Federal Health Care Program overpayments relating to claims with respect to NMC Services furnished by Contractor pursuant to this Agreement. The foregoing is not intended and shall not be construed to diminish, limit, alter or otherwise modify in any way the Parties' respective indemnification obligations under this Agreement.

(e) **Indemnification for Billing Information.** Contractor hereby agrees to indemnify County, Hospital, its officers, supervisors, trustees, employees and agents, from and against any and all liability, cost, loss, penalty or expense (including, without limitation, attorneys' fees and court costs) incurred by Hospital resulting from negligent acts or negligent omissions of Contractor which result in inaccurate and/or improper billing information furnished by Contractor and relied on by Hospital regarding Professional Services rendered by Contractor to Patients, to the extent such liability, cost, loss, penalty or expense exceeds the amount of payment or reimbursement actually received by Hospital for such services.

2.3 Third Party Payor Arrangements.

(a) Contractor shall cooperate in all reasonable respects necessary to facilitate Hospital's entry into or maintenance of any third party payor arrangements for the provision of services under Federal Health Care Programs or any other public or private health and/or hospital care programs, including insurance programs, self-funded employer health programs, health care service plans and preferred provider organizations.

(b) To enable Hospital or the Clinic to participate in any third party payor arrangement, Contractor shall, not more than ten (10) business days following Hospital's request:

(i) Initiate enrollment as a provider (if required by the third party payor), separate from Hospital and Clinic, with any third party payor or intermediate organization (including any independent practice association) (each, a **"Managed Care Organization"**) designated by Hospital for the provision of Professional Services to Hospital patients covered by such Managed Care Organization;

(ii) Complete any documents (e.g., CAQH Universal Provider Datasource form) as may be reasonably necessary or appropriate to effectuate enrollment;

(iii) Enter into a written agreement with such Managed Care Organization as may be necessary or appropriate for the provision of Professional Services to Hospital patients covered by such Managed Care Organization; and/or

(iv) Enter into a written agreement with Hospital regarding global billing, capitation or other payment arrangements as may be necessary or appropriate for the provision of Professional Services to Hospital patients covered by such Managed Care Organization.

ARTICLE III.
INSURANCE AND INDEMNITY

3.1 Evidence of Coverage. Prior to commencement of this Agreement, the Contractor shall provide a "Certificate of Insurance" certifying that coverage as required herein has been obtained. Individual endorsements executed by the insurance carrier shall accompany the certificate. In addition, the Contractor upon request shall provide a certified copy of the policy or policies. This verification of coverage shall be sent to Hospital's Medical Staff Office, unless otherwise directed. The Contractor shall not receive a "Notice to Proceed" with the work under this Agreement until it has obtained all insurance required and Hospital has approved such insurance. This approval of insurance shall neither relieve nor decrease the liability of the Contractor.

3.2 Qualifying Insurers. All coverages except surety, shall be issued by companies which hold a current policy holder's alphabetic and financial size category rating of not less than A-VII, according to the current Best's Key Rating Guide or a company of equal financial stability that is approved by Hospital's Contracts/Purchasing Director.

3.3 Insurance Coverage Requirements. Without limiting Contractor's duty to indemnify, Contractor shall maintain in effect throughout the term of this Agreement, at Contractor's sole cost and expense, a policy or policies of insurance with the following minimum limits of liability:

(a) **Professional liability insurance**, covering Contractor with coverage of not less than One-Million Dollars ($1,000,000) per physician per occurrence and Three-Million Dollars ($3,000,000) per physician in the aggregate; or such other amount(s) of professional liability insurance as may be required by Article 2.2-1 of Hospital's Medical Staff Bylaws from time to time, to cover liability for malpractice and/or errors or omissions made in the course of rendering services under this Agreement. If any professional liability insurance covering Contractor is procured on a "Claims Made" rather than "Occurrence" basis, then Contractor shall either continue such coverage or obtain extended reporting coverage (**"Tail Coverage"**), as appropriate, upon the occurrence of any of the following: (i) termination or expiration of this Agreement; (ii) change of coverage if such change shall result in a gap in coverage; or (iii) amendment, reduction or other material change in the then existing professional liability coverage of Contractor if such amendment, reduction or other material change will result in a gap in coverage. Any Tail Coverage shall have liability limits in the amount set forth above and shall in all events continue in existence until the greater of: (a) three (3) years or (b) the longest

statute of limitations for professional and general liability for acts committed has expired. All insurance required by this Agreement shall be with a company acceptable to County and issued and executed by an admitted insurer authorized to transact insurance business in the State.

(b) **Commercial general liability insurance**, including but not limited to premises and operations, including coverage for Bodily Injury and Property Damage, Personal Injury, Contractual Liability, Broad form Property Damage, Independent Contractors, Products and Completed Operations, with a combined single limit for Bodily Injury and Property Damage of not less than One Million Dollars ($1,000,000) per occurrence.

☐ Exemption/Modification (Justification attached; subject to approval).

(c) **Business automobile liability insurance**, covering all motor vehicles, including owned, leased, non-owned, and hired vehicles, used in providing services under this Agreement, with a combined single limit for Bodily Injury and Property Damage of not less than One Million Dollars ($1,000,000) per occurrence.

☐ Exemption/Modification (Justification attached; subject to approval).

(d) **Workers' Compensation Insurance**, if Contractor employs others in the performance of this Agreement, in accordance with California Labor Code Section 3700 and with Employer's Liability limits not less than One Million Dollars ($1,000,000) each person, One Million Dollars ($1,000,000) each accident and One Million Dollars ($1,000,000) each disease.

☐ Exemption/Modification (Justification attached; subject to approval).

3.4 Other Insurance Requirements. All insurance required by this Agreement shall be with a company acceptable to Hospital and issued and executed by an admitted insurer authorized to transact insurance business in the State. Unless otherwise specified by this Agreement, all such insurance shall be written on an occurrence basis, or, if the policy is not written on an occurrence basis, such policy with the coverage required herein shall continue in effect for a period of three (3) years following the date Contractor completes its performance of services under this Agreement.

Each liability policy shall provide that Hospital shall be given notice in writing at least thirty (30) days in advance of any endorsed reduction in coverage or limit, cancellation, or intended non-renewal thereof. Each policy shall provide coverage for Contractor and additional insured with respect to claims arising from each subcontractor, if any, performing work under this Agreement, or be accompanied by a certificate of insurance from each subcontractor showing each subcontractor has identical insurance coverage to the above requirements.

Commercial general liability and automobile liability policies shall provide an endorsement naming the County of Monterey, its officers, agents, and employees as Additional Insureds with respect to liability arising out of the Contractor's work, including ongoing and completed operations, and shall further provide that such insurance is primary insurance to any insurance or self-insurance maintained by the County and that the insurance of the Additional Insureds shall not be called upon to contribute to a loss covered by the Contractor's insurance. The required endorsement from for Commercial General Liability Additional Insured is ISO Form CG 20 10 11-85 or CG 20 10 10 01 in tandem with CG 20 37 10 01 (2000). The required endorsement from for Automobile Additional Insured Endorsement is ISO Form CA 20 48 02 99.

Prior to the execution of this Agreement by Hospital, Contractor shall file certificates of insurance with Hospital's Medical Staff Office, showing that the Contractor has in effect the insurance required by this Agreement. The Contractor shall file a new or amended certificate of insurance within five (5) calendar days after any change is made in any insurance policy, which would alter the information on the certificate then on file. Acceptance or approval of insurance shall in no way modify or change the indemnification clause in this Agreement, which shall continue in full force and effect.

Contractor shall at all times during the term of this Agreement maintain in force the insurance coverage required under this Agreement and shall send, without demand by Hospital, annual certificates to Hospital's Medical Staff Office. If the certificate is not received by the expiration date, Hospital shall notify Contractor and Contractor shall have five (5) calendar days to send in the certificate, evidencing no lapse in coverage during the interim. Failure by Contractor to maintain such insurance is a default of this Agreement, which entitles Hospital, at its sole discretion, to terminate the Agreement immediately.

3.5 Right to Offset Insurance Costs.

(a) In the event that Contractor does not purchase or otherwise have the liability insurance set forth in this Section at any time during the term of this Agreement, and without limiting any rights or remedies of County, County may at its option and within its sole discretion provide the liability insurance required by this Section and continue to pay the premiums therefor. If Contractor does not promptly reimburse all such amounts, then County shall have the right to withhold and offset the compensation due to Contractor under this Agreement, in addition to such other rights or privileges as County may have at law or in equity.

(b) The County's option to provide such insurance and to offset the compensation otherwise due to the Contractor shall also apply to the "Tail Coverage" referenced in Section 3.3, including for general liability if during the term of the Agreement such coverage has been written on a claims made basis, which is required to remain effective after the expiration or termination of this Agreement for any reason.

3.6 Indemnification.

(a) **Indemnification by Contractor.** Contractor shall indemnify, defend, and hold harmless County, its officers, agents, and employees, from and against any and all claims, liabilities, and losses whatsoever (including damages to property and injuries to or death of persons, court costs, and reasonable attorneys' fees) occurring or resulting to any and all persons, firms or corporations furnishing or supplying work, services, materials, or supplies in connection with the performance of this Agreement, and from any and all claims, liabilities, and losses occurring or resulting to any person, firm, or corporation for damage, injury, or death arising out of or connected with Contractor's performance of this Agreement, unless such claims, liabilities, or losses arise out of the sole negligence or willful misconduct of County. "Contractor's performance" includes Contractor's acts or omissions and the acts or omissions of Contractor's officers, employees, agents and subcontractors.

(b) **Indemnification by County.** County agrees to defend, indemnify, and hold harmless Contractor, to the extent permitted by applicable law, from and against any and all claims and losses whatsoever accruing or resulting to any person, firm or corporation for damages, injury or death arising out of or connected with any negligent act or omission or willful misconduct of County or any of its agents or employees.

3.7 Indemnification for Timely Payment of Tax Contributions. It is expressly agreed by the Parties hereto that no work, act, commission or omission of Contractor shall be construed to make or render Contractor the agent, employee or servant of County. Contractor agrees to indemnify, defend and hold harmless County and Hospital from and against any and all liability, loss, costs or obligations (including, without limitation, interest, penalties and attorney's fees in defending against the same) against County or Hospital based upon any claim that Contractor has failed to make proper and timely payment of any required tax contributions for itself, its employees, or its purported agents or independent contractors.

3.8 Hospital Services. Hospital shall retain professional and administrative responsibility for the operation of the Hospital and/or Clinic, as and to the extent required by Title 22, California Code of Regulations, Section 70713. Hospital's retention of such responsibility is not intended and shall not be construed to diminish, limit, alter or otherwise modify in any way the obligations of Contractor under this Agreement, including, without limitation, the obligations under the insurance and indemnification provisions set forth in this Article III.

3.9 Survival of Obligations. The Parties' obligations under this Article III shall survive the expiration or termination of this Agreement for any reason.

ARTICLE IV.
RELATIONSHIP BETWEEN THE PARTIES

4.1 Independent Contractor.

(a) Contractor is and shall at all times be an independent contractor with respect to Hospital in the performance of Contractor's obligations under this Agreement. Nothing in this Agreement shall be construed to create an employer/employee, joint venture, partnership, lease or landlord/tenant relationship between Hospital and Contractor. Contractor shall not hold himself or herself out as an officer, agent or employee of Hospital, and shall not incur any contractual or financial obligation on behalf of Hospital without Hospital's prior written consent.

(b) If the Internal Revenue Service (**"IRS"**) or any other governmental agency should inquire about, question or challenge the independent contractor status of Contractor with respect to County, the Parties hereto mutually agree that: (i) each shall inform the other Party hereto of such inquiry or challenge; and (ii) County and Contractor shall each have the right to participate in any discussion or negotiation occurring with the taxing agency, regardless of who initiated such discussions or negotiations. In the event the taxing agency concludes that an independent contractor relationship does not exist, County may terminate this Agreement effective immediately upon written notice. In the event of such termination, the Parties remain free to negotiate an employer/employee contract.

4.2 Limitation on Control. Hospital shall neither have nor exercise any control or direction over Contractor's professional medical judgment or the methods by which Contractor performs professional medical services; provided, however, that Contractor shall be subject to and shall at all times comply with the Protocols and the bylaws, guidelines, policies and rules applicable to other members of the Medical Staff.

4.3 Practice of Medicine. Contractor and Hospital acknowledge that Hospital is neither authorized nor qualified to engage in any activity which may be construed or deemed to constitute the practice of medicine. To the extent that any act or service required of, or reserved to, Hospital in this Agreement is construed or deemed to constitute the practice of medicine, the performance of such act or service by Hospital shall be deemed waived or unenforceable, unless this Agreement can be amended to comply with the law, in which case the Parties shall make such amendment.

4.4 No Benefit Contributions. Hospital shall have no obligation under this Agreement to compensate or pay applicable taxes for, or provide employee benefits of any kind (including contributions to government mandated, employment-related insurance and similar programs) to, or on behalf of, Contractor or any other person employed or retained by Contractor. Notwithstanding the foregoing, if Hospital determines or is advised that it is required by law to compensate or pay applicable taxes for, or provide employee benefits of any kind (including contributions to government mandated, employment-related insurance and similar programs) to, or on behalf of, Contractor or any other person employed or retained by Contractor, Contractor shall reimburse Hospital for any such expenditure within thirty (30) calendar days after being notified of such expenditure.

4.5 Referrals. Contractor shall be entitled to refer patients to any hospital or other health care facility or provider deemed by Contractor best qualified to deliver medical services to any particular patient; provided, however, that Contractor shall not refer any Hospital patient to any provider of health care services which Contractor knows or should have known is excluded or suspended from participation in, or sanctioned by, any state or Federal Health Care Program. Nothing in this Agreement or in any other written or oral agreement between Hospital and Contractor, nor any consideration offered or paid in connection with this Agreement, contemplates or requires the admission or referral of any patients or business to Hospital or any Affiliate. In the event that any governmental agency, any court or any other judicial body of competent jurisdiction, as applicable, issues an opinion, ruling or decision that any payment, fee or consideration provided for hereunder is made or given in return for patient referrals, either Party may at its option terminate this Agreement with three (3) days' notice to the other Party. Contractor's rights under this Agreement shall not be dependent in any way on the referral of patients or business to Hospital or any Affiliate by Contractor or any person employed or retained by Contractor.

4.6 Form 1099 or W-2. If required to do so under applicable law, Hospital shall issue an Internal Revenue Service Form 1099 or Form W-2 to Contractor.

4.7 Contractor Compensation Arrangements. Contractor represents and warrants to Hospital that the compensation paid or to be paid by Contractor to any physician is and will at all times be fair market value for services and items actually provided by such physician, not taking into account the value or volume of referrals or other business generated by such physician for Hospital or any Affiliate. Contractor further represents and warrants to Hospital that Contractor has and will at all times maintain a written agreement with each physician receiving compensation from Contractor.

4.8 Cooperation.

(a) The Parties recognize that, during the term of this Agreement and for an undetermined time period thereafter, certain risk management issues, legal issues, claims or actions may arise that involve or could potentially involve the Parties and their respective employees and agents. The Parties further recognize the importance of cooperating with each other in good faith when such issues, claims or actions arise, to the extent such cooperation does not violate any applicable laws, cause the breach of any duties created by any policies of insurance or programs of self-insurance, or otherwise compromise the confidentiality of communications or information regarding the issues, claims or actions. As such, the Parties hereby agree to cooperate in good faith, using their best efforts, to address such risk management and legal issues, claims, or actions.

(b) The Parties further agree that if a controversy, dispute, claim, action or lawsuit (each, an **"Action"**) arises with a third party wherein both the Parties are included as defendants, each Party shall promptly disclose to the other Party in writing the existence and continuing status of the Action and any negotiations relating thereto. Each Party shall make every reasonable attempt to include the other Party in any settlement offer or negotiations. In the event the other Party is not included in the settlement, the settling Party shall immediately disclose to the other Party in writing the acceptance of any settlement and terms relating thereto, if allowed by the settlement agreement.

(c) Contractor shall cooperate with the individual designated by Hospital to have principal responsibility for the administration and operation of the Hospital and/or Clinic. Such cooperation shall include supervision, selection, assignment, and evaluation of personnel; management and direction of equipment maintenance; development of budgets; and oversight of the acquisition of materials, supplies, and equipment.

(d) Contractor shall assist Hospital, as reasonably requested by Hospital, in Hospital's compliance with applicable laws and the standards, requirements, guidelines and recommendations of any governing or advisory body having authority to set standards relating to the operation of Hospital, or any nationally recognized accrediting organization that Hospital designates from time to time.

4.9 Contractor's Performance. County or Hospital, at its option and within its sole discretion, may seek evaluation of contractual performance by requesting input from Hospital's Medical Director/Chief Medical Officer and from other professionals within Hospital.

4.10 Right of Inspection. Upon reasonable prior written notice, Hospital and County officials and their designees may inspect the books and records of Contractor which are necessary to determine that work performed by Contractor to patients hereunder is in accord with the requirements of this Agreement. Such inspection shall be made in a manner so as not to disrupt the operations of Hospital or Contractor.

4.11 Access to and Audit of Records. Hospital shall have the right to examine, monitor and audit all records, documents, conditions, and activities of the Contractor and its subcontractors related to services provided under this Agreement. Pursuant to Government Code Section 8546.7, if this Agreement involves the expenditure of public funds in excess of Ten Thousand Dollars ($10,000), the Parties may be subject, at the request of Hospital or as part of any audit of Hospital, to the examination and audit of the State Auditor pertaining to matters connected with the performance of this Agreement for a period of three (3) years after final payment under the Agreement.

ARTICLE V.
TERM AND TERMINATION

5.1 Term. This Agreement shall become effective on October 1, 2021 (the **"Effective Date"**), and shall continue until September 30, 2023 (the **"Expiration Date"**), subject to the termination provisions of this Agreement.

5.2 Termination by Hospital. Hospital shall have the right to terminate this Agreement upon the occurrence of any one or more of the following events:

(a) breach of this Agreement by Contractor where the breach is not cured within thirty (30) calendar days after Hospital gives written notice of the breach to Contractor;

(b) death or permanent disability of Contractor;

(c) Contractor's voluntary retirement from the practice of medicine;

(d) neglect of professional duty by Contractor in a manner that violates Hospital's policies, rules or regulations;

(e) Contractor is unable or reasonably expected to be unable to provide the Services for any reason for a period in excess of thirty (30) consecutive days or sixty (60) days in the aggregate over any three (3) month period;

(f) Contractor's clinical privileges or medical staff membership at any hospital are denied, suspended, terminated, restricted, revoked or relinquished for any reason, whether voluntarily or involuntarily, temporarily or permanently, regardless of the availability of civil or administrative hearing rights or judicial review with respect thereto;

(g) Contractor's license to practice medicine in the State is restricted, suspended or terminated, regardless of the availability of civil or administrative hearing rights or judicial review with respect thereto;

(h) Contractor for any reason is not a member in good standing in the "active staff" category of the Medical Staff or does not hold all clinical privileges at Hospital necessary for Contractor's performance of the Services or Contractor is the subject of one or more investigations, proceedings or peer review or other disciplinary actions by the Medical Staff;

(i) Contractor is charged with or convicted of a criminal offense;

(j) Contractor's performance of this Agreement, in the sole determination of Hospital, jeopardizes the mental or physical health or well-being of patients of Hospital;

(k) Contractor is debarred, suspended, excluded or otherwise ineligible to participate in any state or Federal Health Care Program or state equivalent;

(l) Contractor acts, or causes another person to act, in a manner which conflicts with or violates the Code;

(m) breach by Contractor of any HIPAA Obligation (as defined in **Exhibit 6.3**);

(n) Contractor makes an assignment for the benefit of creditors, admits in writing the inability to pay his or her debts as they mature, applies to any court for the appointment of a trustee or receiver over his or her assets, or upon commencement of any voluntary or involuntary proceedings under any bankruptcy, reorganization, arrangement, insolvency, readjustment of debt, dissolution liquidation or other similar law of any jurisdiction;

(o) the insurance required to be maintained by Contractor under this Agreement is terminated, reduced below the minimum coverage requirements set forth in this Agreement, not renewed or cancelled (whether by action of the insurance company or Contractor) for any reason, and Contractor has not obtained replacement coverage as required by this Agreement prior to the effective date of such termination, reduction, non-renewal or cancellation;

(p) Contractor is rendered unable to comply with the terms of this Agreement for any reason; or

(q) upon a sale of all or substantially all assets comprising Hospital's acute care hospital facility, any change of control in Hospital's organization, or any change in control of its day to day operations, whether through a membership change or by management contract. Hospital shall notify Contractor in writing of such sale or change of control at least thirty (30) days prior to the closing date of any such sale or the effective date of any such change of control.

5.3 Termination by Contractor. Contractor shall have the right to terminate this Agreement upon breach of this Agreement by Hospital where the breach is not cured within thirty (30) calendar days after Contractor gives written notice of the breach to Hospital.

5.4 Termination or Modification in the Event of Government Action.

(a) If the Parties receive notice of any Government Action, the Parties shall attempt to amend this Agreement in order to comply with the Government Action.

(b) If the Parties, acting in good faith, are unable to make the amendments necessary to comply with the Government Action, or, alternatively, if either Party determines in good faith that compliance with the Government Action is impossible or infeasible, this Agreement shall terminate ten (10) calendar days after one Party notices the other of such fact.

(c) For the purposes of this Section, **"Government Action"** shall mean any legislation, regulation, rule or procedure passed, adopted or implemented by any federal, state or local government or legislative body or any private agency, or any notice of a decision, finding, interpretation or action by any governmental or private agency, court or other third party which, in the opinion of counsel to Hospital, because of the arrangement between the Parties pursuant to this Agreement, if or when implemented, would:

(i) revoke or jeopardize the status of any health facility license granted to Hospital or any Affiliate of Hospital;

(ii) revoke or jeopardize the federal, state or local tax-exempt status of Hospital or any Affiliate of Hospital, or their respective tax-exempt financial obligations;

(iii) prevent Contractor from being able to access and use the facilities of Hospital or any Affiliate of Hospital;

(iv) constitute a violation of 42 U.S.C. Section 1395nn (commonly referred to as the Stark law) if Contractor referred patients to Hospital or any Affiliate of Hospital;

(v) prohibit Hospital or any Affiliate of Hospital from billing for services provided to patients referred to by Contractor;

(vi) subject Hospital or Contractor, or any Affiliate of Hospital, or any of their respective employees or agents, to civil or criminal prosecution (including any excise tax penalty under Internal Revenue Code Section 4958), on the basis of their participation in executing this Agreement or performing their respective obligations under this Agreement; or

(vii) jeopardize Hospital's full accreditation with any accrediting organization as Hospital designates from time to time.

(d) For the purposes of this Agreement, **"Affiliate"** shall mean any entity which, directly or indirectly, controls, is controlled by or is under common control with Hospital.

5.5 Termination without Cause. Either Party may terminate this Agreement without cause, expense or penalty, effective sixty (60) calendar days after written notice of termination is given to the other Party.

5.6 Effect of Termination or Expiration. Upon any termination or expiration of this Agreement:

(a) All rights and obligations of the Parties shall cease except: (i) those rights and obligations that have accrued and remain unsatisfied prior to the termination or expiration of this Agreement; (ii) those rights and obligations which expressly survive termination or expiration of this Agreement; and (iii) Contractor's obligation to continue to provide services to Hospital patients under Contractor's care at the time of expiration or termination of this Agreement, until the patient's course of treatment is completed or the patient is transferred to the care of another physician.

(b) Contractor shall not do anything or cause any other person to do anything that interferes with Hospital's efforts to engage any other person or entity for the provision of the Services, or interfere in any way with any relationship between Hospital and any other person or entity who may be engaged to provide the Services to Hospital.

(c) Contractor shall not have any right to a "fair hearing" or any other similar rights or procedures under the Medical Staff bylaws or otherwise.

(d) This Section 5.6 shall survive the expiration or termination for any reason of this Agreement.

5.7 Return of Property. Upon any termination or expiration of this Agreement, Contractor shall immediately return to Hospital all of Hospital's property, including Hospital's equipment, supplies, furniture, furnishings and patient records, which is in Contractor's possession or under Contractor's control.

5.8 Termination or Amendment in Response to Reduction of Government Funding. Notwithstanding any other provision of this Agreement, if Federal, State or local government terminates or reduces its funding to the County for services that are to be provided under this Agreement, County, in its sole and absolute discretion after consultation with the Contractor, may elect to terminate this Agreement by giving written notice of termination to Contractor effective immediately or on such other date as County specifies in the notice. Alternatively, County and Contractor may mutually agree to amend the Agreement in response to a reduction in Federal, State or local funding.

ARTICLE VI.
GENERAL PROVISIONS

6.1 Amendment. This Agreement may be modified or amended only by mutual written agreement of the Parties. Any such modification or amendment must be in writing, dated and signed by the Parties and attached to this Agreement.

6.2 Assignment. Except for assignment by Hospital to an entity owned, controlled by, or under common control with Hospital, neither Party may assign any interest or obligation under this Agreement without the other Party's prior written consent. Subject to the foregoing, this Agreement shall be binding on and shall inure to the benefit of the Parties and their respective successors and assigns.

6.3 Compliance with HIPAA. Contractor shall comply with the obligations under the Health Insurance Portability and Accountability Act of 1996 (42 U.S.C. § 1320d et seq.), as amended by the Health Information Technology for Economic and Clinical Health Act of 2009, and all rules and regulations promulgated thereunder (collectively, **"HIPAA,"** the obligations collectively referred to herein as **"HIPAA Obligations"**), as set forth in **Exhibit 6.3**. The HIPAA Obligations shall survive the expiration or termination of this Agreement for any reason.

6.4 Compliance with Laws and Accreditation. Contractor shall comply with all applicable laws, ordinances, codes and regulations of federal, state and local governments (collectively, **"Laws"**) applicable to Contractor, the provision of the Services, Hospital's trauma center designation, or the obligations of Contractor under this Agreement, including without limitation laws that require Contractor to disclose any economic interest or relationship with Hospital, the Emergency Medical Treatment and Active Labor Act and the rules and regulations thereunder (**"EMTALA"**), and California Health and Safety Code Section 1317 and the rules and regulations thereunder (**"Health and Safety Code §1317"**). Contractor shall perform and handle all patient transfers and reports in accordance with applicable Laws, including EMTALA, and Health and Safety Code §1317. Contractor shall take actions necessary to ensure that the Hospital and/or Clinic are operated in accordance with: all requirements of a nationally recognized accrediting organization that Hospital designates from time to time, all applicable licensing requirements, and all other relevant requirements promulgated by any federal, state or local agency.

6.5 Compliance with Medicare Rules. To the extent required by law or regulation, Contractor shall make available, upon written request from Hospital, the Secretary of Health and Human Services, the Comptroller General of the United States, or any other duly authorized agent or representative, this Agreement and Contractor's books, documents and records. Contractor shall preserve and make available such books, documents and records for a period of ten (10) years after the end of the term of this Agreement, or the length of time required by state or federal law. If Contractor is requested to disclose books, documents or records pursuant to this Section for any purpose, Contractor shall notify Hospital of the nature and scope of such request, and Contractor shall make available, upon written request of Hospital, all such books, documents or records. Contractor shall indemnify and hold harmless Hospital if any amount of reimbursement is denied or disallowed because of Contractor's failure to comply with the obligations set forth in this Section. Such indemnity shall include, but not be limited to, the amount of reimbursement denied, plus any interest, penalties and legal costs. This Section shall survive the expiration or termination for any reason of this Agreement.

6.6 Confidential Information.

(a) During the term of this Agreement, Contractor may have access to and become acquainted with Trade Secrets and Confidential Information of Hospital. **"Trade Secrets"** includes information and data relating to payor contracts and accounts, clients, patients, patient groups, patient lists, billing practices and procedures, business techniques and methods, strategic plans, operations and related data. **"Confidential Information"** includes Trade Secrets and any information related to the past, current or proposed operations, business or strategic plans, financial statements or reports, technology or services of Hospital or any Affiliate that Hospital discloses or otherwise makes available in any manner to Contractor, or to which Contractor may gain access in the performance of the Services under this Agreement, or which Contractor knows or has reason to know is confidential information of Hospital or any Affiliate; whether such information is disclosed orally, visually or in writing, and whether or not bearing any legend or marking indicating that such information or data is confidential. By way of example, but not limitation, Confidential Information includes any and all know-how, processes, manuals, confidential reports, procedures and methods of Hospital, any Hospital patient's individually identifiable health information (as defined under HIPAA), and any information,

records and proceedings of Hospital and/or Medical Staff committees, peer review bodies, quality committees and other committees or bodies charged with the evaluation and improvement of the quality of care. Confidential Information also includes proprietary or confidential information of any third party that may be in Hospital's or any Affiliate's possession.

(b) Confidential Information shall be and remain the sole property of Hospital, and shall, as applicable, be proprietary information protected under the Uniform Trade Secrets Act. Contractor shall not use any Confidential Information for any purpose not expressly permitted by this Agreement, or disclose any Confidential Information to any person or entity, without the prior written consent of Hospital. Contractor shall protect the Confidential Information from unauthorized use, access, or disclosure in the same manner as Contractor protects his or her own confidential or proprietary information of a similar nature and with no less than reasonable care. All documents that Contractor prepares, or Confidential Information that might be given to Contractor in the course of providing Services under this Agreement, are the exclusive property of Hospital, and, without the prior written consent of Hospital, shall not be removed from Hospital's premises.

(c) Contractor shall return to Hospital all Confidential Information and all copies thereof in Contractor's possession or control, and permanently erase all electronic copies of such Confidential Information, promptly upon the written request of Hospital, or the termination or expiration of this Agreement. Contractor shall not copy, duplicate or reproduce any Confidential Information without the prior written consent of Hospital.

(d) This Section shall survive the expiration or termination of this Agreement.

6.7 Counterparts. This Agreement may be executed in one or more counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.

6.8 Disclosure of Interests. Contractor shall provide to Hospital, as requested by Hospital from time to time, information sufficient to disclose any ownership, investment or compensation interest or arrangement of Contractor, or any of Contractor's immediate family members, in any entity providing "designated health services" (as such term is defined in the Stark Law (42 U.S.C. Section 1395nn) and its regulations) or any other health care services. This Section shall not impose on Hospital any disclosure or reporting requirements or obligations imposed on Contractor under any governmental program or create an assumption of such disclosure obligations by Hospital. Contractor shall have the sole responsibility to fulfill any such federal and/or state reporting requirements or obligations.

6.9 Dispute Resolution. In the event of any dispute, controversy, claim or disagreement arising out of or related to this Agreement or the acts or omissions of the Parties with respect to this Agreement (each, a **"Dispute"**), the Parties shall resolve such Dispute as follows:

(a) **Meet and Confer.** The Parties shall, as soon as reasonably practicable, but in no case more than ten (10) days after one Party gives written notice of a Dispute to the other Party (the **"Dispute Notice"**), meet and confer in good faith regarding such Dispute at such time and place as mutually agreed upon by the Parties (the **"Meet and Confer"**). The obligation to conduct a Meet and Confer pursuant to this Section does not obligate either Party to agree to any compromise or resolution of the Dispute that such Party does not determine, in its sole and absolute discretion, to be a satisfactory resolution of the Dispute. The Meet and Confer shall be considered a settlement negotiation for the purpose of all applicable Laws protecting statements, disclosures or conduct in such context, and any offer in compromise or other statements or conduct made at or in connection with any Meet and Confer shall be protected under such Laws.

(b) **Arbitration.** If any Dispute is not resolved to the mutual satisfaction of the Parties within ten (10) business days after delivery of the Dispute Notice (or such other period as may be mutually agreed upon by the Parties in writing), the Parties shall submit such Dispute to arbitration conducted by Judicial Arbitration and Mediation Services, Inc. (**"JAMS"**), or other arbitration and/or mediation services company as agreed to by the Parties, in accordance with the following rules and procedures:

(i) Each Party may commence arbitration by giving written notice to the other Party demanding arbitration (the **"Arbitration Notice"**). The Arbitration Notice shall specify the Dispute, the particular claims and/or causes of actions alleged by the Party demanding arbitration, and the factual and legal basis in support of such claims and/or causes of action.

(ii) The arbitration shall be conducted in the County in which the Hospital is located and in accordance with the commercial arbitration rules and procedures of JAMS (or other arbitration company as mutually agreed to by the Parties) to the extent such rules and procedures are not inconsistent with the provisions set forth in this Section. In the event of a conflict between any rules and/or procedures of JAMS (or other arbitration company as mutually agreed to by the Parties) and the rules and/or procedures set forth in this Section, the rules and/or procedures set forth in this Section shall govern.

(iii) The arbitration shall be conducted before a single impartial retired member of the JAMS panel of arbitrators (or panel of arbitrators from such other arbitration company as mutually agreed to by the Parties) covering the County in which the Hospital is located (the **"Panel"**). The Parties shall use their good faith efforts to agree upon a mutually acceptable arbitrator within thirty (30) days after delivery of the Arbitration Notice. If the Parties are unable to agree upon a mutually acceptable arbitrator within such time period, then each Party shall select one arbitrator from the Panel, and those arbitrators shall select a single impartial arbitrator from the Panel to serve as arbitrator of the Dispute.

(iv) The Parties expressly waive any right to any and all discovery in connection with the arbitration; provided, however, that each Party shall have the right to conduct no more than two (2) depositions and submit one set of interrogatories with a maximum of forty (40) questions, including subparts of such questions.

(v) The arbitration hearing shall commence within thirty (30) days after appointment of the arbitrator. The substantive internal law (and not the conflict of laws) of the State shall be applied by the arbitrator to the resolution of the Dispute, and the Evidence Code of the State shall apply to all testimony and documents submitted to the arbitrator. The arbitrator shall have no authority to amend or modify the limitation on the discovery rights of the Parties or any of the other rules and/or procedures set forth in this Section. As soon as reasonably practicable, but not later than thirty (30) days after the arbitration hearing is completed, the arbitrator shall arrive at a final decision, which shall be reduced to writing, signed by the arbitrator and mailed to each of the Parties and their respective legal counsel.

(vi) Any Party may apply to a court of competent jurisdiction for entry and enforcement of judgment based on the arbitration award. The award of the arbitrator shall be final and binding upon the Parties without appeal or review except as permitted by the Arbitration Act of the State.

(vii) The fees and costs of JAMS (or other arbitration company as mutually agreed to by the Parties) and the arbitrator, including any costs and expenses incurred by the arbitrator in connection with the arbitration, shall be borne equally by the Parties, unless otherwise agreed to by the Parties.

(viii) Except as set forth in Section 6.9(b)(vii), each Party shall be responsible for the costs and expenses incurred by such Party in connection with the arbitration, including its own attorneys' fees and costs; provided, however, that the arbitrator shall require one Party to pay the costs and expenses of the prevailing Party, including attorneys' fees and costs and the fees and costs of experts and consultants, incurred in connection with the arbitration if the arbitrator determines that the claims and/or position of a Party were frivolous and without reasonable foundation.

(c) **Waiver of Injunctive or Similar Relief.** The Parties hereby waive the right to seek specific performance or any other form of injunctive or equitable relief or remedy arising out of any Dispute, except that such remedies may be utilized for purposes of enforcing this Section and sections governing Confidential Information, Compliance with HIPAA, Compliance with Laws and Accreditation and Compliance with Medicare Rules of this Agreement. Except as expressly provided herein, upon any determination by a court or by an arbitrator that a Party has breached this Agreement or improperly terminated this Agreement, the other Party shall accept monetary damages, if any, as full and complete relief and remedy, to the exclusion of specific performance or any other form of injunctive or equitable relief or remedy.

(d) **Injunctive or Similar Relief.** Notwithstanding anything to the contrary in this Section, the Parties reserve the right to seek specific performance or any other form of injunctive relief or remedy in any state or federal court located within the County in which the Hospital is located for purposes of enforcing this Section and sections governing Confidential Information, Compliance with HIPAA, Compliance with Laws and Accreditation and Compliance with Medicare Rules of this Agreement. Contractor hereby consents to the jurisdiction of any such court and to venue therein, waives any and all rights under the Laws of any other state to object to jurisdiction within the State, and consents to the service of process in any such action or proceeding, in addition to any other manner permitted by applicable Law, by compliance with the notices provision of this Agreement. The non-prevailing Party in any such action or proceeding shall pay to the prevailing Party reasonable fees and costs incurred in such action or proceeding, including attorneys' fees and costs and the fees and costs of experts and consultants. The prevailing Party shall be the Party who is entitled to recover its costs of suit (as determined by the court of competent jurisdiction), whether or not the action or proceeding proceeds to final judgment or award.

(e) **Survival.** This Section shall survive the expiration or termination of this Agreement.

6.10 Entire Agreement. This Agreement is the entire understanding and agreement of the Parties regarding its subject matter, and supersedes any prior oral or written agreements, representations, understandings or discussions between the Parties. No other understanding between the Parties shall be binding on them unless set forth in writing, signed and attached to this Agreement.

6.11 Exhibits. The attached exhibits, together with all documents incorporated by reference in the exhibits, form an integral part of this Agreement and are incorporated into this Agreement wherever reference is made to them to the same extent as if they were set out in full at the point at which such reference is made.

6.12 Force Majeure. Neither Party shall be liable for nonperformance or defective or late performance of any of its obligations under this Agreement to the extent and for such periods of time as such nonperformance, defective performance or late performance is due to reasons outside such Party's control, including acts of God, war (declared or undeclared), terrorism, action of any governmental authority, civil disturbances, riots, revolutions, vandalism, accidents, fire, floods, explosions, sabotage, nuclear incidents, lightning, weather, earthquakes, storms, sinkholes, epidemics, failure of transportation infrastructure, disruption of public utilities, supply chain interruptions, information systems interruptions or failures, breakdown of machinery or strikes (or similar nonperformance, defective performance or late performance of employees, suppliers or subcontractors); provided, however, that in any such event, each Party shall use its good faith efforts to perform its duties and obligations under this Agreement.

6.13 Governing Law. This Agreement shall be construed in accordance with and governed by the laws of the State.

6.14 Headings. The headings in this Agreement are intended solely for convenience of reference and shall be given no effect in the construction or interpretation of this Agreement.

6.15 Litigation Consultation. Contractor shall not accept consulting assignments or otherwise contract, agree, or enter into any arrangement to provide expert testimony or evaluation on behalf of a plaintiff in connection with any claim against Hospital or any Affiliate named, or expected to be named as a defendant. Contractor shall not accept similar consulting assignments if (a) the defendants or anticipated defendants include a member of the medical staff of Hospital or any Affiliate, and (b) the matter relates to events that occurred at Hospital or any Affiliate; provided, however, the provisions of this Section shall not apply to situations in which Contractor served as a treating physician.

6.16 Master List. The Parties acknowledge and agree that this Agreement, together with any other contracts between Hospital and Contractor, will be included on the master list of physician contracts maintained by Hospital.

6.17 Meaning of Certain Words. Wherever the context may require, any pronouns used in this Agreement shall include the corresponding masculine, feminine, or neuter forms, and the singular form of nouns shall include the plural and vice versa. Unless otherwise specified: (i) "days" shall be considered "calendar days;" (ii) "months" shall be considered "calendar months;" and (iii) "including" means "including, without limitation" in this Agreement and its exhibits and attachments.

6.18 No Conflicting Obligations. Contractor represents and warrants that the execution and delivery of this Agreement and the performance of his or her obligations hereunder do not and will not: (a) present a conflict of interest or materially interfere with the performance of Contractor's duties under any other agreement or arrangement; or (b) violate, conflict with, or result in a breach of any provision of, or constitute a default (or an event which, with notice and/or lapse of time, would constitute a default) under, terminate, accelerate the performance required by, or result in a right of termination or acceleration under any of the terms, conditions or provisions of any other agreement, indebtedness, note, bond, indenture, security or pledge agreement, license, franchise, permit, or other instrument or obligation to which Contractor is a party or by which Contractor is bound. Contractor shall immediately inform Hospital of any other agreements to which Contractor is a party that may present a conflict of interest or materially interfere with performance of Contractor's duties under this Agreement.

6.19 No Third Party Beneficiary Rights. The Parties do not intend to confer and this Agreement shall not be construed to confer any rights or benefits to any person, firm, group, corporation or entity other than the Parties.

6.20 Notices. All notices or communications required or permitted under this Agreement shall be given in writing and delivered personally or sent by United States registered or certified mail with postage prepaid and return receipt requested or by overnight delivery service (e.g., Federal Express, DHL). Notice shall be deemed given when sent, if sent as specified in this Section, or otherwise deemed given when received. In each case, notice shall be delivered or sent to:

If to Hospital, addressed to:

NATIVIDAD MEDICAL CENTER
1441 Constitution Blvd., Bldg. 300
Salinas, California 93906
Attention: Deputy Purchasing Agent

If to Contractor, addressed to:

KATHARINA PELLEGRIN, M.D.
_____
_____

6.21 Participation in Federal Health Care Programs. Contractor hereby represents that Contractor is not debarred, suspended, excluded or otherwise ineligible to participate in any Federal Health Care Program.

6.22 Representations. Each Party represents with respect to itself that: (a) no representation or promise not expressly contained in this Agreement has been made by any other Party or by any Parties' agents, employees, representatives or attorneys; (b) this Agreement is not being entered into on the basis of, or in reliance on, any promise or representation, expressed or implied, other than such as are set forth expressly in this Agreement; and (c) Party has been represented by legal counsel of Party's own choice or has elected not to be represented by legal counsel in this matter.

6.23 Severability. If any provision of this Agreement is determined to be illegal or unenforceable, that provision shall be severed from this Agreement, and such severance shall have no effect upon the enforceability of the remainder of this Agreement.

6.24 Statutes and Regulations. Any reference in this Agreement to any statute, regulation, ruling, or administrative order or decree shall include, and be a reference to any successor statute, regulation, ruling, or administrative order or decree.

6.25 Waiver. No delay or failure to require performance of any provision of this Agreement shall constitute a waiver of that provision as to that or any other instance. Any waiver granted by a Party must be in writing to be effective, and shall apply solely to the specific instance expressly stated.

[*signature page follows*]

The Parties have executed this Agreement on the date first above written, and signify their agreement with duly authorized signatures.

CONTRACTOR

KATHARINA PELLEGRIN, M.D., an individual

Katharina Pellegrin

Date: 11 September, 2021

NATIVIDAD MEDICAL CENTER

Deputy Purchasing Agent

Date: 9/13, 2021

APPROVED AS TO LEGAL PROVISIONS:

Stacy Saetta, Deputy County Counsel

Date: 9/13/2021, 20__

APPROVED AS TO FISCAL PROVISIONS:

Gary Giboney

Deputy Auditor/Controller

Date: 9-13-2021, 20__

Exhibit 1.2

TEACHING SERVICES TO BE PROVIDED BY CONTRACTOR

Contractor shall:

1. supervise patient care in a constructive and supportive way;

2. demonstrate effective interviewing, physical examination, procedures, use of diagnostic and therapeutic interventions, and medical records documentation;

3. create a professional role model; and

4. evaluate resident performance in a meaningful, objective fashion.

Exhibit 1.3

ADDITIONAL SERVICES TO BE PROVIDED BY CONTRACTOR

Contractor shall:

1. provide teaching, educational or training services, as reasonably requested by Hospital;

2. participate in utilization review programs, as reasonably requested by Hospital;

3. participate in risk management, quality assurance and peer review programs, as reasonably requested by Hospital;

4. accept third party insured patients and referrals of patients which are made by members of the Medical Staff, subject only to the limitations of scheduling and Contractor's professional qualifications;

5. assist Hospital in monitoring and reviewing the clinical performance of health care professionals who provide services to Hospital's patients; including reviewing incident reports and patient satisfaction studies relevant to the Specialty, and assisting Hospital in implementing any necessary corrective actions to address any issues identified during the course of such review;

6. assist in monitoring the performance of those professionals who are not meeting Hospital quality and/or performance standards, including, without limitation, direct observation of the provision of care by such professionals, and in disciplining any professionals who continue poor performance, recognizing that the Hospital Board of Directors is ultimately responsible for maintaining the standards of care provided to patients;

7. assist Hospital management with all preparation for, and conduct of, any inspections and on-site surveys of Hospital or Clinic conducted by governmental agencies or accrediting organizations, including those specific obligations set forth in **Attachment A**;

8. cooperate with Hospital in all litigation matters affecting Contractor or Hospital, consistent with advice from Contractor's legal counsel;

9. cooperate and comply with Hospital's policies and procedures which are pertinent to patient relations, quality assurance, scheduling, billing, collections and other administrative matters and cooperate with Hospital's efforts to bill and collect fees for services rendered to Hospital's patients. All business transactions related to the Services provided by Contractor, such as enrollment, verification and billings, shall be conducted by and in the name of Hospital; and

10. assist Hospital in developing, implementing and monitoring a program by which quality measures are reportable to Hospital with respect to the Specialty. The quality program shall include at the least those characteristics set forth in **Attachment A**.

Attachment A

ADDITIONAL OBLIGATIONS

Contractor shall participate in performance improvement activities associated with the American College of Surgeons National Surgical Quality Improvement Program (ACS NSQIP).

Exhibit 1.8

CONTRACTOR'S MONTHLY TIME REPORT

(See attached.)

Natividad MEDICAL CENTER

Accurately document all time in quarter hour (.25 hour) increments. Do not exceed 24 hours in a single day.
Directions and examples are located on back of timesheet.

Name:			Direct			Hospital Administrations and Teaching Services							Other Admin		Non-billable Activities				Total
Employee #:			00001			00002	00003	00004	00005	00006	00007	00008	00009		00010		00011	00012	
Dept Name:			Direct Patient Care Services												Non-Productive Hrs				
Cost Center:			Sched. IP/ OP Care (PR)	In House On-Call (PR)	Off-Site Call (PR)	Supervision & Training of Nurses & Techs, etc.	Utilization Review and Other Committee Meetings	Quality Control, Medical Review, Autopsy	Supervision of Interns and Residents	Teaching of Interns & Residents	Teaching & Supervision of Allied Hlth Professionals	Other Administrative (specify)	CME (PR)	Conferences and Training (PR)	Paid Time Off (Sick/ Vacation) (PR)	Holiday (PR)	Research	Other Non-Billable Activities (specify)	TOTAL HOURS
Period Ending:																			
1	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	
2	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	
3	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	
4	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	
5	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	
6	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	
7	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	
8	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	
9	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	
10	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	
11	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	
12	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	
13	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	
14	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	

SIGN IN BLUE INK | **SIGN IN BLUE INK**

I certify that the above information is a true and accurate statement of the hours and locations indicated.

Provider: _____

Telephone Number: _____ Date: _____

I certify that the hours and types of service shown below are correct and that the employee performed satisfactorily, meeting all requirements.

Service Director: _____

Telephone Number: _____ Date: _____

REV. 4/20/2011

Exhibit 1.13

Natividad MEDICAL CENTER

MEDICAL STAFF POLICY

Title: Practitioner Code of Conduct	**Effective:** 05/09 **Reviewed/Revised:** 08/11
Standard: MSP004-2	**Approved: MEC** 08/11 **BOT** 09/11

As a member of the Medical Staff or an Allied Health Professional (AHP) of Natividad Medical Center (NMC) (collectively Practitioners), I acknowledge that the ability of Practitioners and NMC employees to jointly deliver high quality health care depends significantly upon their ability to communicate well, collaborate effectively, and work as a team. I recognize that patients, family members, visitors, colleagues and NMC staff members must be treated in a dignified and respectful manner at all times.

POLICY

In keeping with the accepted standards of the health care profession as evidenced by the Hippocratic Oath, the Code of Ethics of the American Medical Association (AMA) and other professional societies, and the values of NMC, Practitioners are leaders in maintaining professional standards of behavior. In keeping with this responsibility to maintain professional standards of behavior at NMC, Practitioners:

1. Facilitate effective patient care by consistent, active, and cooperative participation as members of the NMC health care team.

2. Recognize the individual and independent responsibilities of all other members of the NMC health care team and their right to independently advocate on behalf of the patient.

3. Maintain respect for the dignity and sensitivities of patients and families, as well as colleagues, NMC employees, and all other health care professionals.

4. Participate in the Medical Staff quality assessment and peer review activities, and in organizational performance improvement activities.

5. Contribute to the overall educational mission of NMC.

6. Reflect positively upon the reputation of the health care profession, the Medical Staff, and NMC in their language, action, attitude, and behavior.

Behaviors of Practitioners which do not meet the professional behavior standards established in this Code of Conduct (Code) shall be referred to as Disruptive or Unprofessional Behavior. Disruptive or Unprofessional Behavior by Practitioners exhibited on the premises of NMC, whether or not the Practitioner is on duty or functioning in his/her professional capacity, are subject to this Code.

EXAMPLES OF PROFESSIONAL BEHAVIOR

Practitioners are expected to exhibit professional behavior at NMC, consistent with this Code, as follows:

1. Be consistently available with cooperative and timely responsiveness to appropriate requests from physicians, nurses, and all other members of the NMC health care team in patient care and other professional responsibilities.

2. Provide for and communicate alternate coverage arrangements to assure the continuity and quality of care.

3. Demonstrate language, action, attitude and behavior which consistently convey to patients, families, colleagues, and all other members of the NMC health care team a sense of compassion and respect for human dignity.

4. Understand and accept individual cultural differences.

5. Maintain appropriate, timely, and legible medical record entries which enable all NMC professionals to understand and effectively participate in a cohesive plan of management to assure continuity, quality, and efficiency of care and effective post-discharge planning and follow-up.

6. Respect the right of patients, families or other designated surrogates to participate in an informed manner in decisions pertaining to patient care.

7. Treat patients and all persons functioning in any capacity within NMC with courtesy, respect, and human dignity.

8. Conduct one's practice at NMC in a manner that will facilitate timely commencement of medical/surgical procedures at NMC, including but not limited to, timely arrival at the hospital, pre-ordering all needed special equipment and/or supplies, and timely notification of required staff.

EXAMPLES OF DISRUPTIVE OR UNPROFESSIONAL BEHAVIOR

Disruptive or Unprofessional Behavior, as characterized in this Code, includes but is not limited to:

1. Misappropriation or unauthorized removal or possession of NMC owned property.

2. Falsification of medical records, including timekeeping records and other NMC documents.

3. Working under the influence of alcohol or illegal drugs.

4. Working under the influence of prescription or over-the-counter medications when use of such medications significantly affects the practitioner's level of cognitive functioning.

5. Possession, distribution, purchase, sale, transfer, transport or use of illegal drugs in the workplace.

6. Possession of dangerous or unauthorized materials such as explosives, firearms, or other weapons in the workplace.

7. Writing derogatory and/or accusatory notes in the medical record which are not necessary for the provision of quality patient care services. Concerns regarding the performance of other Practitioners or NMC employees should be reported on a NMC Quality Review Report form and submitted pursuant to NMC policy and should not be entered into the patient's medical record.

8. Harassment

    a. Harassment is verbal or physical contact that denigrates or shows hostility or aversion toward an individual based on race, religion, color, national origin, ancestry, age, disability, marital status, gender, sexual orientation, or any other basis protected by federal, state, or local law or ordinance, and that:

        1. Has the purpose or effect of creating an intimidating, hostile, or offensive working environment, or;

        2. Has the purpose or effect of unreasonably interfering with an individual's work performance, or;

        3. Otherwise aversely affects an individual's employment opportunity.

    b. Harassing conduct includes, but is not limited to:

        1. Epithets, slurs, negative stereotyping, threatening, intimidating, or hostile acts that relate to race, religion, color, national origin, ancestry, age, disability, marital status, gender, or sexual orientation.

        2. Written material or illustrations that denigrate or show hostility or aversion toward an individual or group because of race, religion, color, national origin, ancestry, age, disability, marital status, gender, or sexual orientation, and is placed on walls; bulletin boards, or elsewhere on NMC's premises or circulated in the workplace.

9. Physical behavior that is harassing, intimidating, or threatening, from the viewpoint of the recipient, including touching, obscene or intimidating gestures, or throwing of objects;

10. Passive behaviors, such as refusing to perform assigned tasks or to answer questions, return phone calls, or pages;

11. Language that is a reasonable adult would consider to be foul, abusive, degrading, demeaning, or threatening, such as crude comments, degrading jokes or comments, yelling or shouting at a person, or threatening violence or retribution;

12. Single incident of egregious behavior, such as an assault or other criminal act.

13. Criticism of NMC staff in front of patients, families, or other staff.

PROCEDURE

1. Any person who functions in any capacity at NMC who observes Practitioner language, action, attitude, or behavior which may be unprofessional, harassing, or disruptive to the provision of quality patient care services should document the incident on a NMC Quality Review Report form.

2. Identified incidents involving Practitioners shall be reviewed pursuant to the current Road Map for Handling Reports of Disruptive or Unprofessional Behavior or the County Sexual Harassment Policy, as determined by the nature of the behavior and the person who exhibits it.

I acknowledge that I have received and read this Practitioner Code of Conduct. I acknowledge that hospitals are required to define and address disruptive and inappropriate conduct to comply with The Joint Commission standards for accreditation. I agree to adhere to the guidelines in this Code and conduct myself in a professional manner. I further understand that failure to behave in a professional fashion may result in disciplinary actions set forth in the RoadMap for Handling Reports of Disruptive or Unprofessional Behavior or as determined by the Medical Executive Committee pursuant to the Medical Staff Bylaws.

Exhibit 1.24

COVERAGE SERVICES AND RESPONSE TIME REQUIREMENTS

Contractor shall meet the following requirements when providing Coverage Services in the Specialty, including trauma, acute care surgery and surgical critical care as well as inpatient and outpatient procedures performed in Hospital's operating rooms, under this Agreement:

1. Contractor shall provide Coverage Services along with other Panel Members in a manner that is sufficient to ensure Specialty coverage for the Hospital twenty-four (24) hours per day, seven (7) days per week, including all holidays, in accordance with the schedule developed by the trauma program director designated by Hospital (the **"Trauma Program Director"**) in consultation with the Panel Members from time to time;

2. Contractor shall be in the ED on patient arrival, with adequate notification from the field. Contractor shall adhere to the Level II trauma center requirements regarding response times. The maximum acceptable response time is thirty (30) minutes for Level II trauma centers. **"Response time"** means the Contractor is physically present in the trauma resuscitation room as documented by the trauma scribe on the trauma run sheet;

3. Contractor shall be in the ED on patient arrival, with adequate notification from the field;

4. Contractor's presence in the trauma resuscitation room must be in compliance at least eighty percent (80%) of the time. Demonstration of the Contractor's prompt arrival for patients with appropriate activation criteria will be monitored by the Hospital's trauma Performance Improvement and Patient Safety (PIPS) program as documented by the trauma scribe on the trauma run document; and

5. Contractor shall identify himself or herself as present to the trauma scribe. It is the Contractor's sole responsibility to ensure his or her presence in the trauma room is documented by the trauma scribe on the trauma run sheet. If Contractor's presence is not documented, Contractor will be considered not to be present. Failure to meet these time restrictions may lead to immediate removal from the call panel by the Trauma Program Director.

Exhibit 2.1

COMPENSATION

1. **Coverage Stipend.** Hospital shall pay to Contractor an amount equal to Four Thousand Six Hundred Dollars ($4,600) per diem for Coverage Services provided pursuant to this Agreement.

2. **Clinic Services.** Contractor shall provide Professional Services in the Clinics as requested by Hospital from time to time. In recognition of the mutual obligations of the Parties hereunder, Hospital and Contractor acknowledge that there shall be no monetary compensation to Contractor for the Professional Services furnished by Contractor to the Clinics hereunder.

3. **Professional Liability Reimbursement.** In the event that Contractor does not purchase the professional liability insurance set forth in the Agreement, Hospital will deduct Twenty Dollars and Fifty-Two Cents ($20.52) per 24-hour shift worked by Contractor to compensate for Hospital's payment of professional liability insurance premiums on behalf of Contractor.

4. **Timing.** Hospital shall pay the compensation due for Services performed by Contractor after Contractor's submission of the monthly invoice of preceding month's activity and time report in accordance with this Agreement; provided, however, that if Contractor does not submit an invoice and time sheet within sixty (60) days of the end of the month during which Services were performed, Hospital shall not be obligated to pay Contractor for Services performed during that month. The County of Monterey Standard Payment Terms for contracts/PSAs and paying invoices is "30 days after receipt of the certified invoice in the Auditor-Controller's Office".

Exhibit 6.3

BUSINESS ASSOCIATE AGREEMENT

This Business Associate Agreement ("Agreement"), effective July 1, 2021 ("Effective Date"), is entered into by and among the County of Monterey, a political subdivision of the State of California, on behalf of Natividad Medical Center ("Covered Entity") and Katharina Pellegrin, M.D. ("Business Associate") (each a "Party" and collectively the "Parties").

Business Associate provides certain services for Covered Entity ("Services") that involve the use and disclosure of Protected Health Information that is created or received by Business Associate from or on behalf of Covered Entity ("PHI"). The Parties are committed to complying with the Standards for Privacy of Individually Identifiable Health Information, 45 C.F.R. Part 160 and Part 164, Subparts A and E as amended from time to time (the "Privacy Rule"), and with the Security Standards, 45 C.F.R. Part 160 and Part 164, Subpart C as amended from time to time (the "Security Rule"), under the Health Insurance Portability and Accountability Act of 1996 ("HIPAA"), as amended by the Health Information Technology for Economic and Clinical Health Act and its implementing regulations ("HITECH"). Business Associate acknowledges that, pursuant to HITECH, 45 C.F.R. §§ 164.308 (administrative safeguards), 164.310 (physical safeguards), 164.312 (technical safeguards), 164.316 (policies and procedures and documentation requirements) and 164.502 *et. seq.* apply to Business Associate in the same manner that such sections apply to Covered Entity. The additional requirements of Title XIII of HITECH contained in Public Law 111-005 that relate to privacy and security and that are made applicable with respect to covered entities shall also be applicable to Business Associate. The Parties are also committed to complying with the California Confidentiality of Medical Information Act, Ca. Civil Code §§ 56 *et seq.* ("CMIA"), where applicable. Business Associate acknowledges that the CMIA prohibits Business Associate from further disclosing the PHI it receives from Covered Entity where such disclosure would be violative of the CMIA. The Parties are also committed to complying with applicable requirements of the Red Flag Rules issued pursuant to the Fair and Accurate Credit Transactions Act of 2003 ("Red Flag Rules"). This Agreement sets forth the terms and conditions pursuant to which PHI, and, when applicable, Electronic Protected Health Information ("EPHI"), shall be handled. The Parties further acknowledge that state statutes or other laws or precedents may impose data breach notification or information security obligations, and it is their further intention that each shall comply with such laws as well as HITECH and HIPAA in the collection, handling, storage, and disclosure of personal data of patients or other personal identifying information exchanged or stored in connection with their relationship.

The Parties agree as follows:

1. DEFINITIONS

All capitalized terms used in this Agreement but not otherwise defined shall have the meaning set forth in the Privacy Rule, Security Rule and HITECH.

2. PERMITTED USES AND DISCLOSURES OF PHI

2.1 Unless otherwise limited herein, Business Associate may:

(a) use or disclose PHI to perform functions, activities or Services for, or on behalf of, Covered Entity as requested by Covered Entity from time to time, provided that such use or disclosure would not violate the Privacy or Security Rules or the standards for Business Associate Agreements set forth in 45 C.F.R. § 164.504(e), exceed the minimum necessary to accomplish the intended purpose of such use or disclosure, violate the additional requirements of HITECH contained in Public Law 111-005 that relate to privacy and security, or violate the CMIA;

(b) disclose PHI for the purposes authorized by this Agreement only: (i) to its employees, subcontractors and agents; (ii) as directed by this Agreement; or (iii) as otherwise permitted by the terms of this Agreement;

(c) use PHI in its possession to provide Data Aggregation Services to Covered Entity as permitted by 45 C.F.R. § 164.504(e)(2)(i)(B);

(d) use PHI in its possession for proper management and administration of Business Associate or to carry out the legal responsibilities of Business Associate as permitted by 45 C.F.R. § 164.504(e)(4)(i);

(e) disclose the PHI in its possession to third parties for the proper management and administration of Business Associate to the extent and in the manner permitted under 45 C.F.R. § 164.504(e)(4)(ii); provided that disclosures are Required by Law , or Business Associate obtains reasonable assurances from the persons to whom the information is disclosed that it will remain confidential and used or further disclosed only as Required by Law or for the purpose for which it was disclosed to the person, and the person notifies the Business Associate of any instances of which it is aware in which the confidentiality of the information has been breached;

(f) use PHI to report violations of law to appropriate Federal and state authorities, consistent with 45 C.F.R. § 164.502(j)(1);

(g) de-identify any PHI obtained by Business Associate under this Agreement for further use or disclosure only to the extent such de-identification is pursuant to this Agreement, and use such de-identified data in accordance with 45 C.F.R. § 164.502(d)(1).

3. RESPONSIBILITIES OF THE PARTIES WITH RESPECT TO PHI

3.1 Responsibilities of Business Associate. With regard to its use and/or disclosure of PHI, Business Associate shall:

(a) use and/or disclose the PHI only as permitted or required by this Agreement or as otherwise Required by Law;

(b) report to the privacy officer of Covered Entity, in writing, (i) any use and/or disclosure of the PHI that is not permitted or required by this Agreement of which Business Associate becomes aware, and (ii) any Breach of unsecured PHI as specified by HITECH, within two (2) days of Business Associate's determination of the occurrence of such unauthorized use and/or disclosure. In such event, the Business Associate shall, in consultation with the Covered Entity, mitigate, to the extent practicable, any harmful effect that is known to the Business Associate of such improper use or disclosure. The notification of any Breach of unsecured PHI shall include, to the extent possible, the identification of each individual whose unsecured PHI has been, or is reasonably believed by the Business Associate to have been, accessed, acquired, used or disclosed during the Breach.

(c) use commercially reasonable safeguards to maintain the security of the PHI and to prevent use and/or disclosure of such PHI other than as provided herein;

(d) obtain and maintain an agreement with all of its subcontractors and agents that receive, use, or have access to, PHI pursuant to which agreement such subcontractors and agents agree to adhere to the same restrictions and conditions on the use and/or disclosure of PHI that apply to Business Associate pursuant to this Agreement;

(e) make available all internal practices, records, books, agreements, policies and procedures and PHI relating to the use and/or disclosure of PHI to the Secretary for purposes of determining Covered Entity or Business Associate's compliance with the Privacy Rule;

(f) document disclosures of PHI and information related to such disclosure and, within ten (10) days of receiving a written request from Covered Entity, provide to Covered Entity such information as is requested by Covered Entity to permit Covered Entity to respond to a request by an individual for an accounting of the disclosures of the individual's PHI in accordance with 45 C.F.R. § 164.528, as well as provide an accounting of disclosures, as required by HITECH, directly to an individual provided that the individual has made a request directly to Business Associate for such an accounting. At a minimum, the Business Associate shall provide the Covered Entity with the following information: (i) the date of the disclosure, (ii) the name of the entity or person who received the PHI, and if known, the address of such entity or person; (iii) a brief description of the PHI disclosed; and (iv) a brief statement of the purpose of such disclosure which includes an explanation of the basis for such disclosure. In the event the request for an accounting is delivered directly to the Business Associate, the Business Associate shall, within two (2) days, forward such request to the Covered Entity. The Business Associate shall implement an appropriate recordkeeping process to enable it to comply with the requirements of this Section;

(g) subject to Section 4.4 below, return to Covered Entity within twenty-one (21) days of the termination of this Agreement, the PHI in its possession and retain no copies, including backup copies;

(h) disclose to its subcontractors, agents or other third parties, and request from Covered Entity, only the minimum PHI necessary to perform or fulfill a specific function required or permitted hereunder;

(i) if all or any portion of the PHI is maintained in a Designated Record Set:

(i) upon ten (10) days' prior written request from Covered Entity, provide access to the PHI in a Designated Record Set to Covered Entity or, as directed by Covered Entity, the individual to whom such PHI relates or his or her authorized representative to meet a request by such individual under 45 C.F.R. § 164.524; and

(ii) upon ten (10) days' prior written request from Covered Entity, make any amendment(s) to the PHI that Covered Entity directs pursuant to 45 C.F.R. § 164.526;

(j) maintain policies and procedures to detect and prevent identity theft in connection with the provision of the Services, to the extent required to comply with the Red Flag Rules;

(k) notify the Covered Entity within five (5) days of the Business Associate's receipt of any request or subpoena for PHI. To the extent that the Covered Entity decides to assume responsibility for challenging the validity of such request, the Business Associate shall cooperate fully with the Covered Entity in such challenge;

(l) maintain a formal security program materially in accordance with all applicable data security and privacy laws and industry standards designed to ensure the security and integrity of the Covered Entity's data and protect against threats or hazards to such security

The Business Associate acknowledges that, as between the Business Associate and the Covered Entity, all PHI shall be and remain the sole property of the Covered Entity.

3.2 Additional Responsibilities of Business Associate with Respect to EPHI. In the event that Business Associate has access to EPHI, in addition to the other requirements set forth in this Agreement relating to PHI, Business Associate shall:

(a) implement administrative, physical, and technical safeguards that reasonably and appropriately protect the confidentiality, integrity, and availability of EPHI that Business Associate creates, receives, maintains, or transmits on behalf of Covered Entity as required by 45 C.F.R. Part 164, Subpart C;

(b) ensure that any subcontractor or agent to whom Business Associate provides any EPHI agrees in writing to implement reasonable and appropriate safeguards to protect such EPHI; and

(c) report to the privacy officer of Covered Entity, in writing, any Security Incident involving EPHI of which Business Associate becomes aware within two (2) days of Business Associate's discovery of such Security Incident. For purposes of this Section, a Security Incident shall mean (consistent with the definition set forth at 45 C.F.R. § 164.304), the attempted or successful unauthorized access, use, disclosure, modification, or destruction of information or interference with systems operations in an information system. In such event, the Business Associate shall, in consultation with the Covered Entity, mitigate, to the extent practicable, any harmful effect that is known to the Business Associate of such improper use or disclosure.

3.3 Responsibilities of Covered Entity. Covered Entity shall, with respect to Business Associate:

(a) provide Business Associate a copy of Covered Entity's notice of privacy practices ("Notice") currently in use;

(b) notify Business Associate of any limitations in the Notice pursuant to 45 C.F.R.
§ 164.520, to the extent that such limitations may affect Business Associate's use or disclosure of PHI;

(c) notify Business Associate of any changes to the Notice that Covered Entity provides to individuals pursuant to 45 C.F.R. § 164.520, to the extent that such changes may affect Business Associate's use or disclosure of PHI;

(d) notify Business Associate of any changes in, or withdrawal of, the consent or authorization of an individual regarding the use or disclosure of PHI provided to Covered Entity pursuant to 45 C.F.R. § 164.506 or § 164.508, to the extent that such changes may affect Business Associate's use or disclosure of PHI; and

(e) notify Business Associate, in writing and in a timely manner, of any restrictions on use and/or disclosure of PHI as provided for in 45 C.F.R. § 164.522 agreed to by Covered Entity, to the extent that such restriction may affect Business Associate's use or disclosure of PHI.

4. TERMS AND TERMINATION

4.1 Term. This Agreement shall become effective on the Effective Date and shall continue in effect unless terminated as provided in this Article 4. Certain provisions and requirements of this Agreement shall survive its expiration or other termination as set forth in Section 5.1 herein.

4.2 Termination. Either Covered Entity or Business Associate may terminate this Agreement and any related agreements if the terminating Party determines in good faith that the terminated Party has breached a material term of this Agreement; provided, however, that no Party may terminate this Agreement if the breaching Party cures such breach to the reasonable satisfaction of the terminating Party within thirty (30) days after the breaching Party's receipt of written notice of such breach.

4.3 Automatic Termination. This Agreement shall automatically terminate without any further action of the Parties upon the termination or expiration of Business Associate's provision of Services to Covered Entity.

4.4 Effect of Termination. Upon termination or expiration of this Agreement for any reason, Business Associate shall return all PHI pursuant to 45 C.F.R. § 164.504(e)(2)(ii)(I) if, and to the extent that, it is feasible to do so. Prior to doing so, Business Associate shall recover any PHI in the possession of its subcontractors or agents. To the extent it is not feasible for Business Associate to return or destroy any portion of the PHI, Business Associate shall provide Covered Entity a statement that Business Associate has determined that it is infeasible to return or destroy all or some portion of the PHI in its possession or in possession of its subcontractors or agents. Business Associate shall extend any and all protections, limitations and restrictions contained in this Agreement to any PHI retained after the termination of this Agreement until such time as the PHI is returned to Covered Entity or destroyed.

5. MISCELLANEOUS

5.1 Survival. The respective rights and obligations of Business Associate and Covered Entity under the provisions of Sections 4.4, 5.1, 5.6, and 5.7, and Section 2.1 (solely with respect to PHI that Business Associate retains in accordance with Section 4.4 because it is not feasible to return or destroy such PHI), shall survive termination of this Agreement until such time as the PHI is returned to Covered Entity or destroyed. In addition, Section 3.1(i) shall survive termination of this Agreement, provided that Covered Entity determines that the PHI being retained pursuant to Section 4.4 constitutes a Designated Record Set.

5.2 Amendments; Waiver. This Agreement may not be modified or amended, except in a writing duly signed by authorized representatives of the Parties. To the extent that any relevant provision of the HIPAA, HITECH or Red Flag Rules is materially amended in a manner that changes the obligations of Business Associates or Covered Entities, the Parties agree to negotiate in good faith appropriate amendment(s) to this Agreement to give effect to the revised obligations. Further, no provision of this Agreement shall be waived, except in a writing duly signed by authorized representatives of the Parties. A waiver with respect to one event shall not be construed as continuing, or as a bar to or waiver of any right or remedy as to subsequent events.

5.3 No Third Party Beneficiaries. Nothing express or implied in this Agreement is intended to confer, nor shall anything herein confer, upon any person other than the Parties and the respective successors or assigns of the Parties, any rights, remedies, obligations, or liabilities whatsoever.

5.4 Notices. Any notices to be given hereunder to a Party shall be made via U.S. Mail or express courier to such Party's address given below, and/or via facsimile to the facsimile telephone numbers listed below.

If to Business Associate, to:

Katharina Pellegrin, M.D.
3987 W. Stratford Rd.
Virginia Beach, VA 23455

Attn:_____
Phone:_____
Fax:_____

If to Covered Entity, to:

Natividad Medical Center
Compliance Officer
1441 Constitution Blvd
Salinas, CA 93906
Phone: 831.755.4111
Fax: 831.757.2592

Each Party named above may change its address and that of its representative for notice by the giving of notice thereof in the manner hereinabove provided. Such notice is effective upon receipt of notice, but receipt is deemed to occur on next business day if notice is sent by FedEx or other overnight delivery service.

5.5 Counterparts; Facsimiles. This Agreement may be executed in any number of counterparts, each of which shall be deemed an original. Facsimile copies hereof shall be deemed to be originals.

5.6 Choice of Law; Interpretation. This Agreement shall be governed by the laws of the State of California; as provided, however, that any ambiguities in this Agreement shall be resolved in a manner that allows Business Associate to comply with the Privacy Rule, and, if applicable, the Security Rule and the CMIA.

5.7 Indemnification. Contractor shall indemnify, defend, and hold harmless the County of Monterey (hereinafter County), its officers, agents, and employees from any claim, liability, loss, injury, cost, expense, penalty or damage, including the County's reasonable cost of providing notification of and of mitigating any acquisition, access, use or disclosure of PHI in a manner not permitted by this BAA, arising out of, or in connection with, performance of this BAA by Contractor and/or its agents, members, employees, or sub-contractors, excepting only loss, injury, cost, expense, penalty or damage caused by the negligence or willful misconduct of personnel employed by the County. It is the intent of the parties to this BAA to provide the broadest possible indemnification for the County. Contractor shall reimburse the County for all costs, attorneys' fees, expenses, and liabilities incurred by the County with respect to any investigation, enforcement proceeding or litigation in which Contractor is obligated to indemnify, defend, and hold harmless the County under this BAA. This provision is in addition to and independent of any indemnification provision in any related or other agreement between the Covered Entity and the Business Associate.

IN WITNESS WHEREOF, each of the undersigned has caused this Agreement to be duly executed in its name and on its behalf as of the Effective Date.

KATHARINA PELLEGRIN, M.D.

By:_____

Print Name:_____

Print Title:_____

Date:_____

COUNTY OF MONTEREY, ON BEHALF OF
NATIVIDAD MEDICAL CENTER

By:_____

Print Name:_____

Print Title:_____

Date:_____

1.6 Availability. Contractor shall provide Coverage Services along with other Panel Members in a manner that is sufficient to ensure Specialty coverage for the Hospital twenty-four (24) hours per day, seven (7) days per week, including all holidays, in accordance with the schedule developed by Hospital in consultation with the Panel Members from time to time. On or before the first (1st) day of each month, Contractor shall inform Hospital of Contractor's schedule of availability to perform the Services during the following month. Contractor shall use his or her best efforts to adjust such schedule of availability if reasonably requested by Hospital in order to meet Hospital's needs for the Services. Contractor shall not be simultaneously on-call to any other hospital or health care facility while scheduled to provide Coverage Services for the Hospital, except as otherwise approved in writing by Hospital. Contractor's breach of this Section 1.6 shall constitute grounds for immediate removal from future trauma call at Hospital. If Contractor is for any reason unable to perform Coverage Services as scheduled, Contractor shall inform Hospital within thirty (30) days prior to the day Contractor is scheduled to provide the Coverage Services.

~~1.7 Absences. If Contractor is for any reason unable to perform Coverage Services as scheduled, Contractor shall inform Hospital within thirty (30) days prior to the day Contractor is scheduled to provide the Coverage Services. If Contractor is unable or reasonably expected to be unable to provide the Services for any reason for a period of greater than thirty (30) consecutive days or sixty (60) days in the aggregate over any three (3) month period, Contractor shall designate a qualified replacement to provide the Services on behalf of Contractor, subject to the prior written approval of Hospital. Contractor shall ensure that any such designated replacement meets any and all obligations and requirements of Contractor under this Agreement. If the length of Contractor's absence is anticipated to be or actually is longer than sixty (60) calendar days, the person who provides the Services in Contractor's absence shall execute a written acknowledgment in form and substance acceptable to Hospital agreeing to be bound by all terms of this Agreement. Except in the event of absence due to illness or disability, Hospital shall have the right to approve the length of Contractor's absence, and any unapproved absence shall constitute a breach of this Agreement.~~ KP 9/15/21

1.8 Time Reports. Contractor shall maintain and submit to Hospital monthly time sheets that provide a true and accurate accounting of time spent on a daily basis providing the Services. Such time sheets shall be on the then-current form provided by Hospital attached hereto as **Exhibit 1.8**. Contractor shall submit all such time sheets to Hospital no later than the tenth (10th) day of each month for Services provided by Contractor during the immediately preceding month.

1.9 Medical Staff. Contractor shall be a member in good standing and active on the Hospital's medical staff (the "**Medical Staff**") and have and maintain all clinical privileges at Hospital necessary for the performance of Contractor's obligations under this Agreement. If, as of the Effective Date (as defined in Section 5.1), Contractor is not a member in good standing or active on the Medical Staff or does not hold all clinical privileges at Hospital necessary for the performance of Contractor's obligations hereunder, Contractor shall have a reasonable amount of time, which in no event shall exceed sixty (60) calendar days from the Effective Date, to obtain such membership and/or clinical privileges; provided, however, that Hospital may immediately terminate this Agreement if Hospital determines that Contractor is not diligently pursuing such membership and/or clinical privileges in accordance with the normal procedures set forth in the

1.6 Availability. Contractor shall provide Coverage Services along with other Panel Members in a manner that is sufficient to ensure Specialty coverage for the Hospital twenty-four (24) hours per day, seven (7) days per week, including all holidays, in accordance with the schedule developed by Hospital in consultation with the Panel Members from time to time. On or before the first (1st) day of each month, Contractor shall inform Hospital of Contractor's schedule of availability to perform the Services during the following month. Contractor shall use his or her best efforts to adjust such schedule of availability if reasonably requested by Hospital in order to meet Hospital's needs for the Services. Contractor shall not be simultaneously on-call to any other hospital or health care facility while scheduled to provide Coverage Services for the Hospital, except as otherwise approved in writing by Hospital. Contractor's breach of this Section 1.6 shall constitute grounds for immediate removal from future trauma call at Hospital. If Contractor is for any reason unable to perform Coverage Services as scheduled, Contractor shall inform Hospital within thirty (30) days prior to the day Contractor is scheduled to provide the Coverage Services.

~~**1.7 Absences.** If Contractor is for any reason unable to perform Coverage Services as scheduled, Contractor shall inform Hospital within thirty (30) days prior to the day Contractor is scheduled to provide the Coverage Services. If Contractor is unable or reasonably expected to be unable to provide the Services for any reason for a period of greater than thirty (30) consecutive days or sixty (60) days in the aggregate over any three (3) month period, Contractor shall designate a qualified replacement to provide the Services on behalf of Contractor, subject to the prior written approval of Hospital. Contractor shall ensure that any such designated replacement meets any and all obligations and requirements of Contractor under this Agreement. If the length of Contractor's absence is anticipated to be or actually is longer than sixty (60) calendar days, the person who provides the Services in Contractor's absence shall execute a written acknowledgment in form and substance acceptable to Hospital agreeing to be bound by all terms of this Agreement. Except in the event of absence due to illness or disability, Hospital shall have the right to approve the length of Contractor's absence, and any unapproved absence shall constitute a breach of this Agreement.~~

CH initial

2/27/21 date

1.8 Time Reports. Contractor shall maintain and submit to Hospital monthly time sheets that provide a true and accurate accounting of time spent on a daily basis providing the Services. Such time sheets shall be on the then-current form provided by Hospital attached hereto as **Exhibit 1.8**. Contractor shall submit all such time sheets to Hospital no later than the tenth (10th) day of each month for Services provided by Contractor during the immediately preceding month.

1.9 Medical Staff. Contractor shall be a member in good standing and active on the Hospital's medical staff (the **"Medical Staff"**) and have and maintain all clinical privileges at Hospital necessary for the performance of Contractor's obligations under this Agreement. If, as of the Effective Date (as defined in Section 5.1), Contractor is not a member in good standing or active on the Medical Staff or does not hold all clinical privileges at Hospital necessary for the performance of Contractor's obligations hereunder, Contractor shall have a reasonable amount of time, which in no event shall exceed sixty (60) calendar days from the Effective Date, to obtain such membership and/or clinical privileges; provided, however, that Hospital may immediately terminate this Agreement if Hospital determines that Contractor is not diligently pursuing such membership and/or clinical privileges in accordance with the normal procedures set forth in the

Introduced: 9/29/2025
Version: 1

Current Status: Agenda Ready
Matter Type: BoS Agreement

a. Authorize the Chief Executive Officer (CEO) for Natividad Medical Center (NMC) or his designee to execute the Professional and Call Coverage Services Agreement with ATP Partners of California, P.C. to provide neurology services for the period November 1, 2025 to December 31, 2028 for an amount not to exceed $1,500,000 in the aggregate; and
b. Authorize the CEO for NMC or his designee to sign up to three (3) future amendments to this Agreement where the total amendments do not significantly change the scope of work, do not exceed 10% ($150,000) of the original contract amount and do not increase the total contract amount above $1,500,000; and
c. Approve the NMC's Chief Executive Officer's recommendation to accept non-standard indemnification, insurance, limitations on liability, and limitations on damages provisions within the agreement.

RECOMMENDATION:
It is recommended that the Board of Supervisors:
a. Authorize the Chief Executive Officer (CEO) for Natividad Medical Center (NMC) or his designee to execute the Professional and Call Coverage Services Agreement with ATP Partners of California, P.C. to provide neurology services for the period November 1, 2025 to December 31, 2028 for an amount not to exceed $1,500,000 in the aggregate; and
b. Authorize the CEO for NMC or his designee to sign up to three (3) future amendments to this Agreement where the total amendments do not significantly change the scope of work, do not exceed 10% ($150,000) of the original contract amount and do not increase the total contract amount above $1,500,000; and
c. Approve the NMC's Chief Executive Officer's recommendation to accept non-standard indemnification, insurance, limitations on liability, and limitations on damages provisions within the agreement.

SUMMARY:

NMC offers a wide range of inpatient, outpatient, emergency, diagnostic and specialty medical care for adults and children. NMC must arrange for the provision of professional consultation and treatment of patients who present to the emergency department and who are admitted to the hospital in need of medical care the specialty of neurology including stroke.

DISCUSSION

NMC would like to enter into an agreement with ATP Partners of California, P.C., a team of board-certified neurologists including subspecialists such as stroke specialists, to provide 24/7 neurology urgent and consultative services for patients via specialized electronic telemedicine equipment. Services include indirect physical exams, history taking, diagnostic protocols, image analysis and recommendations for therapeutic interventions and/or diagnostic tests for any neurologic emergency. ATP Partners will also provide technical support of its telemedicine software platform. NMC has obtained an independent opinion of fair market value for the payment terms of this agreement.

OTHER AGENCY INVOLVEMENT:

The Office of County Counsel has reviewed and approved this Agreement as to form, and the Auditor-Controller has reviewed and approved as to payment provisions. The Agreement has also been reviewed and approved by NMC's Finance Committee and by its Board of Trustees.

FINANCING:

The cost for this Agreement is $1,500,000, of which $500,000 is included in the FY 2025-26 Adopted Budget. the remaining balance will be budgeted in the subsequent fiscal years. Funding will be provided from NMC's Enterprise Fund 451-9600-6608.

BOARD OF SUPERVISORS STRATEGIC PLAN GOALS SECTION:

The services rendered in this agreement provide Natividad with the additional support it needs to provide reliable and high-quality patient care which improves the health and quality of life for Monterey County residents and their families.

_X Well-Being and Quality of Life
__ Sustainable Infrastructure for Present and Future
__Safe and Resilient Communities
__Diverse and Thriving Economy
__ Administrative

Prepared by: Jeanne-Ann Balza, Director of Physician Services, 783-2506
Approved by: Dr. Charles R. Harris, Chief Executive Officer, 783-2551

Attachment(s):
Board Report
Original Agreement

Attachments on file with the Clerk of the Board

Introduced: 9/29/2025
Version: 1

Current Status: Agenda Ready
Matter Type: BoS Agreement

a. Authorize the Chief Executive Officer (CEO) for Natividad Medical Center (NMC) or his designee to execute the Professional and Call Coverage Services Agreement with ATP Partners of California, P.C. to provide neurology services for the period November 1, 2025 to December 31, 2028 for an amount not to exceed $1,500,000 in the aggregate; and
b. Authorize the CEO for NMC or his designee to sign up to three (3) future amendments to this Agreement where the total amendments do not significantly change the scope of work, do not exceed 10% ($150,000) of the original contract amount and do not increase the total contract amount above $1,500,000; and
c. Approve the NMC's Chief Executive Officer's recommendation to accept non-standard indemnification, insurance, limitations on liability, and limitations on damages provisions within the agreement.

RECOMMENDATION:
It is recommended that the Board of Supervisors:
a. Authorize the Chief Executive Officer (CEO) for Natividad Medical Center (NMC) or his designee to execute the Professional and Call Coverage Services Agreement with ATP Partners of California, P.C. to provide neurology services for the period November 1, 2025 to December 31, 2028 for an amount not to exceed $1,500,000 in the aggregate; and
b. Authorize the CEO for NMC or his designee to sign up to three (3) future amendments to this Agreement where the total amendments do not significantly change the scope of work, do not exceed 10% ($150,000) of the original contract amount and do not increase the total contract amount above $1,500,000; and
c. Approve the NMC's Chief Executive Officer's recommendation to accept non-standard indemnification, insurance, limitations on liability, and limitations on damages provisions within the agreement.

SUMMARY:

NMC offers a wide range of inpatient, outpatient, emergency, diagnostic and specialty medical care for adults and children. NMC must arrange for the provision of professional consultation and treatment of patients who present to the emergency department and who are admitted to the hospital in need of medical care the specialty of neurology including stroke.

DISCUSSION

NMC would like to enter into an agreement with ATP Partners of California, P.C., a team of board-certified neurologists including subspecialists such as stroke specialists, to provide 24/7

neurology urgent and consultative services for patients via specialized electronic telemedicine equipment. Services include indirect physical exams, history taking, diagnostic protocols, image analysis and recommendations for therapeutic interventions and/or diagnostic tests for any neurologic emergency. ATP Partners will also provide technical support of its telemedicine software platform. NMC has obtained an independent opinion of fair market value for the payment terms of this agreement.

OTHER AGENCY INVOLVEMENT:

The Office of County Counsel has reviewed and approved this Agreement as to form, and the Auditor-Controller has reviewed and approved as to payment provisions. The Agreement has also been reviewed and approved by NMC's Finance Committee and by its Board of Trustees.

FINANCING:

The cost for this Agreement is $1,500,000, of which $500,000 is included in the FY 2025-26 Adopted Budget. the remaining balance will be budgeted in the subsequent fiscal years. Funding will be provided from NMC's Enterprise Fund 451-9600-6608.

BOARD OF SUPERVISORS STRATEGIC PLAN GOALS SECTION:

The services rendered in this agreement provide Natividad with the additional support it needs to provide reliable and high-quality patient care which improves the health and quality of life for Monterey County residents and their families.

_X Well-Being and Quality of Life
__ Sustainable Infrastructure for Present and Future
__Safe and Resilient Communities
__Diverse and Thriving Economy
__ Administrative

Prepared by: Jeanne-Ann Balza, Director of Physician Services, 783-2506
Approved by: Dr. Charles R. Harris, Chief Executive Officer, 783-2551

Attachment(s):
Board Report
Original Agreement

Attachments on file with the Clerk of the Board

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

PROFESSIONAL AND CALL COVERAGE SERVICES AGREEMENT

by and between COUNTY OF MONTEREY ("County") on behalf of

NATIVIDAD MEDICAL CENTER ("Hospital")

and

ATP PARTNERS OF CALIFORNIA, P.C. ("Contractor")

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

PROFESSIONAL AND CALL COVERAGE SERVICES AGREEMENT

THIS PROFESSIONAL AND CALL COVERAGE SERVICES AGREEMENT (this **"Agreement"**) is entered into as of November 1, 2025 by and between COUNTY OF MONTEREY (**"County"**) on behalf of NATIVIDAD MEDICAL CENTER (**"Hospital"**), and ATP PARTNERS OF CALIFORNIA, P.C., a California professional corporation (**"Contractor"**). County, Hospital and Contractor are sometimes referred to in this Agreement as a **"Party"** or, collectively, as the **"Parties."**

RECITALS

A. County owns and operates Hospital, a general acute care teaching hospital facility and Level II Trauma Center located in Salinas, California under its acute care license.

B. Contractor is a professional corporation organized under the laws of the State of California (the **"State"**), consisting of employees and contractors (collectively, **"Group Physicians"** and each, a **"Group Physician"**), each of whom is a physician duly licensed and qualified to practice medicine in the State. Each Group Physician is board certified for the practice of medicine in the specialty of neurology (the **"Specialty"**).

C. Contractor contracts with NeuroX LLC, a Florida-based virtual brain health company (**"NeuroX"**), for management and technology services. Contractor uses NeuroX platform (powered by SmartClinix) to provide services in this Agreement.

D. Hospital must arrange for the provision of professional consultation and treatment of patients who present to the emergency department (**"ED"**) and who are admitted as Hospital inpatients in need of medical care or treatment in the Specialty, including inpatient and outpatient procedures performed in Hospital's operating room (collectively, the **"Patients"**), , without regard to any consideration other than medical condition.

E. Hospital has considered the following factors in determining the necessity and amount of compensation payable to Contractor pursuant to this Agreement:

1. The nature of Contractor's duties as contemplated by this Agreement.

2. Contractor's qualifications.

3. The difficulty in obtaining a qualified physician to provide the services described in this Agreement.

4. The benefits to Hospital's community resulting from Contractor's performance of the services described in this Agreement.

5. The economic conditions locally and in the health care industry generally.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

AGREEMENT

THE PARTIES AGREE AS FOLLOWS:

ARTICLE I.
CONTRACTOR'S OBLIGATIONS

1.1 Telemedicine Services.

(a) Contractor shall provide the professional services described in **Exhibit 1.1(a)** (the **"Professional Services"**) to Patients, upon the terms and subject to the conditions set forth in this Agreement. Professional Services will be rendered by means of medical information exchanged via electronic communications by and between the Patient's treating physician and Group Physician (the **"Telemedicine Services"**).

(b) Contractor shall ensure at least Group Physician is available on an on-call basis, 24 hours a day / 7 days a week, to provide Telemedicine Services to Patients (**"Coverage Services"**), upon the terms and conditions set forth in this Agreement.

(c) Contractor shall provide timely initial follow-up care for all Hospital patients referred for care by the ED or attending physician. If Contractor is the physician on-call at the time of the referral, Contractor shall provide any necessary follow-up care for such patients regardless of the patient's ability to pay for services at the time of the first visit.

(d) Contractor shall ensure at least one (1) Group Physician is available for daily rounding services via electronic communications (**"Tele-Rounding"**) for Patients on the floor and in the intensive care unit (**"ICU"**), with support from an onsite nurse or designated Hospital staff member.

1.2 Teaching Services. Contractor shall provide to Hospital those teaching services set forth in **Exhibit 1.2** (collectively, the **"Teaching Services"**). Contractor shall not be separately compensated for the provision of Teaching Services under this Agreement.

1.3 Additional Services. Contractor shall provide to Hospital those additional services set forth in **Exhibit 1.3** (the **"Additional Services"**), upon the terms and subject to the conditions set forth in this Agreement. The Professional Services, Teaching Services, Telemedicine Services, Tele-Rounding, and Additional Services are sometimes referred to collectively in this Agreement as the **"Services**." Services may be provided remotely.

1.4 Time Commitment. Contractor shall allocate time among the Professional Services, Teaching Services and Additional Services as reasonably requested by Hospital from time to time.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

1.5 Availability. Contractor shall ensure that one (1) or more of its Group Physicians shall be available to provide the Services on a twenty-four (24) hour per day, seven (7) day per week basis. On or before the first (1st) day of each month, Contractor shall inform Hospital of Group Physicians' schedule of availability to perform the Services during the following month. Group Physicians shall use their best efforts to adjust such schedule of availability if reasonably requested by Hospital in order to meet Hospital's needs for the Services.

1.6 Medical Staff. Each Group Physician shall be a member in good standing and active on the Hospital's Medical Staff and have and maintain all clinical privileges at Hospital necessary for the performance of Group Physician's obligations under this Agreement. If, as of the Effective Date (as defined in Section 5.1), any Group Physician is not a member in good standing or active on the Medical Staff or does not hold all clinical privileges at Hospital necessary for the performance of Group Physician's obligations hereunder, such Group Physician shall have a reasonable amount of time, which in no event shall exceed sixty (60) calendar days from the Effective Date, to obtain such membership and/or clinical privileges; provided, however, that such Group Physician diligently pursues such membership and/or clinical privileges in accordance with the normal procedures set forth in the Medical Staff bylaws; and provided, however, that, at all times, Group Physician has been granted privileges to perform the Services. Any Group Physician may obtain and maintain medical staff privileges at any other hospital or health care facility at Group Physician's sole expense.

1.7 Professional Qualifications. Each Group Physician shall have and maintain an unrestricted license to practice medicine in the State. Each Group Physician shall be board certified in the Specialty by the applicable medical specialty board approved by the American Board of Medical Specialties. Each Group Physician shall have and maintain a valid and unrestricted United States Drug Enforcement Administration (**"DEA"**) registration.

1.8 Review of Office of the Inspector General ("OIG") Medicare Compliance Bulletins. The OIG from time to time issues Medicare compliance alert bulletins. To the extent applicable to Contractor's performance under this Agreement, Contractor and each Group Physician shall undertake to review, be familiar with and comply with all applicable requirements of such OIG compliance bulletins.

1.9 Performance Standards. Contractor and each Group Physician shall comply with all bylaws, Medical Staff policies, rules and regulations of Hospital and the Medical Staff (collectively, the **"Hospital Rules"**), and all protocols applicable to the Services or the Hospital (the **"Protocols"**).

1.10 Code of Conduct. Contractor hereby acknowledges receipt of Hospital's Code of Conduct which is attached to this Agreement as **Exhibit 1.10** (the **"Code"**), and agrees that Contractor and each Group Physician has been given ample opportunity to read, review and understand the Code. With respect to Contractor's and the Group Physicians' business dealings with Hospital and their performance of the Services described in this Agreement, neither Contractor nor any Group Physician shall act in any manner which conflicts with or violates the Code, nor cause another person to act in any manner which conflicts with or violates the Code. Contractor and each Group Physician shall comply with the Code as it relates to their business

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

relationship with Hospital or any Affiliate, subsidiaries, employees, agents, servants, officers, directors, contractors and suppliers of every kind.

1.11 Continuing Medical Education. Contractor shall ensure that each Group Physician participates in continuing medical education as necessary to maintain licensure, professional competence and skills commensurate with the standards of the medical community and as otherwise required by the medical profession.

1.12 Use of Space. Contractor and each Group Physician shall use Hospital's premises and space solely and exclusively for the provision of the Services, except in an emergency or with Hospital's prior written consent.

1.13 Notification of Certain Events. Contractor shall notify Hospital in writing within twenty-four (24) hours after the occurrence of any one or more of the following events:

(a) Contractor or any Group Physician becomes the subject of, or materially involved in, any investigation, proceeding, or disciplinary action by: Medicare and Medicaid programs or any other Federal health care program, as defined at 42 U.S.C. Section 1320a-7b(f) (collectively, the **"Federal Health Care Programs"**) or state equivalent, any state's medical board, any agency responsible for professional licensing, standards or behavior, or any medical staff;

(b) the medical staff membership or clinical privileges of any Group Physician at any hospital are denied, suspended, restricted, revoked or voluntarily relinquished, regardless of the availability of civil or administrative hearing rights or judicial review with respect thereto;

(c) any Group Physician becomes the subject of any suit, action or other legal proceeding arising out of Contractor's professional services;

(d) any Group Physician voluntarily or involuntarily retires from the practice of medicine;

(e) any Group Physician's license to practice medicine in the State is restricted, suspended or terminated, regardless of the availability of civil or administrative hearing rights or judicial review with respect thereto;

(f) Contractor or any Group Physician is charged with or convicted of a criminal offense;

(g) Contractor changes the location of Contractor's office;

(h) any act of nature or any other event occurs which has a material adverse effect on Contractor's or any Group Physician's ability to provide the Services; or

(i) Contractor or any Group Physician is debarred, suspended, excluded or otherwise ineligible to participate in any Federal Health Care Program or state equivalent.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

1.14 Representations and Warranties by Contractor. Contractor represents and warrants that: (a) no Group Physician's license to practice medicine in any state has ever been suspended, revoked or restricted; (b) neither Contractor nor any Group Physician has ever been reprimanded, sanctioned or disciplined by any licensing board or medical specialty board; (c) neither Contractor nor Group Physician has ever been excluded or suspended from participation in, or sanctioned by, any Federal Health Care Program; (d) no Group Physician has ever been denied membership and/or reappointment to the medical staff of any hospital or health care facility; (e) no Group Physician's medical staff membership or clinical privileges at any hospital or health care facility have ever been suspended, limited or revoked for a medical disciplinary cause or reason; and (f) no Group Physician has ever been charged with or convicted of a felony, a misdemeanor involving fraud, dishonesty, controlled substances, or moral turpitude, or any crime relevant to the provision of medical services or the practice of medicine.

1.15 Nondiscrimination. Neither Contractor nor any Group Physician shall differentiate or discriminate in performing the Services on the basis of race, religion, creed, color, national origin, ancestry, sex, physical disability, mental disability, medical condition, marital status, age, sexual orientation or payor, or on any other basis prohibited by applicable law.

1.16 Exclusive Services.

(a) During the term of this Agreement, Hospital shall not, employ or contract with any person or entity other than Contractor to provide Professional Services in the Specialty. Nothing in this Section is intended or shall be construed to preclude Hospital from granting clinical privileges to any other physician or physicians consistent with the Hospital Rules that would permit such physician or physicians to provide professional services.

(b) In the event Contractor fails to or is reasonably anticipated to be unable to provide staffing and/or coverage in accordance with the terms and conditions of this Agreement, Hospital shall have the right, at its option and notwithstanding any provision of this Agreement to the contrary, to make alternative arrangements for the provision of the Professional Services. Hospital's rights under this Section shall not (i) relieve Contractor of its obligations under this Agreement, (ii) affect Hospital's right to terminate this Agreement, or (iii) adversely affect Hospital's right to seek indemnity as a result of the breach of this Agreement by Contractor.

(c) Before sending a notice of default in accordance with Section 1.16 above, Parties shall first attempt to meet and confer to discuss the Contractor's alleged failure to perform or fulfill its obligations under this Agreement and shall permit Contractor a reasonable period, but not less than thirty (30) days and not more than sixty (60) days, to respond to or cure such alleged failure.

.

1.17 Compliance with Grant Terms. If this Agreement has been or will be funded with monies received by Hospital or County pursuant to a contract with the state or federal government or private entity in which Hospital or County is the grantee, Contractor and Group Physicians shall comply with all the provisions of said contract, and said provisions shall be

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

deemed a part of this Agreement, as though fully set forth herein. Upon request, Hospital shall deliver a copy of said contract to Contractor at no cost to Contractor.

1.18 Coordination with Attending Physicians. Contractor shall ensure that each Group Physician promptly reports the results of all professional services furnished to Patients to such Patients' attending physician(s) and any other physician(s) engaged in specialty consultation or treatment for such Patients.

1.19 Medical Records and Claims.

(a) Contractor shall ensure that each Group Physician prepares complete, timely, accurate and legible medical and other records with respect to the services and treatment furnished to Patients, in accordance with the Hospital Rules, federal and state laws and regulations, and standards and recommendations of such nationally recognized accrediting organization as Hospital designates from time to time. All such information and records relating to any Patient shall be: (i) prepared on forms developed, provided or approved by Hospital; (ii) the sole property of Hospital; and (iii) maintained at Hospital in accordance with the terms of this Agreement and for so long as is required by applicable laws and regulations.

(b) Contractor shall maintain and upon request provide to patients, Hospital, and state and federal agencies, all financial books and records and medical records and charts as may be necessary for Contractor and/or Hospital to comply with applicable state, federal, and local laws and regulations and with contracts between Hospital and third-party payors. Contractor shall cooperate with Hospital in completing such claim forms for patients as may be required by insurance carriers, health care service plans, governmental agencies, or other third-party payors. This Section 1.19(b) shall survive the expiration or termination of this Agreement.

1.20 Records Available to Contractor. Both during and after the term of this Agreement, Hospital shall permit Contractor and Contractor's agents to inspect and/or duplicate, at Contractor's sole cost and expense, any medical chart and record to the extent necessary to meet Contractor's professional responsibilities to patients, to assist in the defense of any malpractice or similar claim to which such chart or record may be pertinent, and/or to fulfill requirements pursuant to provider contracts to provide patient information; provided, however, such inspection or duplication is permitted and conducted in accordance with applicable legal requirements and pursuant to commonly accepted standards of patient confidentiality. Contractor shall be solely responsible for maintaining patient confidentiality with respect to any information which Contractor obtains pursuant to this Section.

1.21 Group Physicians.

(a) Contractor shall employ, contract with, or otherwise engage Group Physicians. Contractor has initially engaged those Group Physicians listed (and identified by NPI number) on **Exhibit 1.21(a)** to provide the Services, which Group Physicians are hereby approved and accepted by Hospital.

(b) Contractor may from time to time engage one (1) or more additional Group Physicians (including locum tenens physicians) to provide the Services under this Agreement, subject to Hospital's prior written approval, which approval may be given, withheld

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

or conditioned by Hospital in its sole discretion. In the event Hospital withholds approval with respect to any additional Group Physician, such Group Physician shall not be entitled to any "fair hearing" or any other hearing or appellate review under any provision of the Medical Staff Bylaws, unless Hospital determines that the withholding of approval is reportable to any state's medical board or other agency responsible for professional licensing, standards or behavior.

(c) Contractor shall ensure that, during the term of this Agreement, any and all Group Physicians (including locum tenens physicians) providing the Services satisfy the professional standards and qualifications set forth in this Article I of this Agreement.

(d) Contractor shall provide prompt written notice to Hospital in the event any Group Physician resigns, is terminated by Contractor, or otherwise ceases to provide the Services.

(e) Contractor shall ensure that the Services are performed only by Group Physicians who have been approved and accepted by Hospital, and have not been removed in accordance with this Agreement.

(f) Contractor shall cause each Group Physician providing the Services to comply with all obligations, prohibitions, covenants and conditions imposed on Contractor pursuant to this Agreement. Contractor shall cause each Group Physician to execute and deliver to Hospital a letter of acknowledgment in the form attached as **Exhibit 1.21(f)** prior to providing any Services under this Agreement.

ARTICLE II.
COMPENSATION

2.1 Compensation. Hospital shall pay to Contractor the amount determined in accordance with **Exhibit 2.1** (the **"Compensation"**), upon the terms and conditions set forth therein. The total amount payable by Hospital to Contractor under this Agreement shall not exceed the sum of One Million Five Hundred Thousand Dollars ($1,500,000).

2.2 Billing and Collection. Hospital shall have the sole and exclusive right to bill and collect for any and all Professional Services rendered to Patients by Contractor or any Group Physician under this Agreement (the **"NMC Services"**). Hospital shall have the sole and exclusive right, title and interest in and to accounts receivable with respect to such NMC Services.

(a) **Assignment of Claims.** Contractor hereby assigns (or reassigns, as the case may be) to Hospital all claims, demands and rights of Contractor for any and all NMC Services rendered by Contractor pursuant to this Agreement. Contractor shall take such action and execute such documents (e.g., CMS Forms 855R and 855I), as may be reasonably necessary or appropriate to effectuate the assignment (or reassignment, as the case may be) to Hospital of all claims, demands and rights of Contractor for any and all NMC Services rendered by Contractor pursuant to this Agreement.

(b) **Cooperation with Billing and Collections.** Contractor shall cooperate with Hospital in the billing and collection of fees with respect to NMC Services rendered by

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

Contractor. Without limiting the generality of the foregoing, Contractor shall cooperate with Hospital in completing such claim forms with respect to NMC Services rendered by Contractor pursuant to this Agreement as may be required by insurance carriers, health care service plans, governmental agencies, or other third party payors.

(c) **Hospital as Exclusive Source for Compensation for NMC Services.** Contractor shall seek and obtain compensation for the performance of NMC Services only from Hospital. Contractor shall not, bill, assess or charge any fee, assessment or charge of any type against any Hospital patient or any other person or entity for NMC Services rendered by Contractor pursuant to this Agreement. Contractor shall promptly deliver to Hospital any and all compensation, in whatever form, that is received by Contractor or any Group Physician for NMC Services rendered by Contractor or any Group Physician pursuant to this Agreement, including any amount received from any Managed Care Organization (as defined below) for NMC Services rendered by Contractor or any Group Physician pursuant to this Agreement.

(d) **Joint and Several Liability.** Hospital and Contractor acknowledge that they will be jointly and severally liable for any Federal Health Care Program overpayments relating to claims with respect to NMC Services furnished by Contractor pursuant to this Agreement. The foregoing is not intended and shall not be construed to diminish, limit, alter or otherwise modify in any way the Parties' respective indemnification obligations under this Agreement.

(e) **Indemnification for Billing Information.** Contractor hereby agrees to indemnify County, Hospital, its officers, supervisors, trustees, employees and agents, from and against any all liability, cost, lost penalty or expense (including without limitation, attorneys' fees and court costs) incurred by Hospital resulting from negligent acts or negligent omissions of Contractor which result in inaccurate and/or improper billing information furnished by Contractor and relied on by Hospital regarding Professional Services rendered by Contractor to Patients, to the extent such liability, cost, loss, penalty or expense exceeds the amount of payment or reimbursement actually received by Hospital for such services.

2.3 Third Party Payor Arrangements.

(a) Contractor shall cause Group Physician to cooperate in all reasonable respects necessary to facilitate Hospital's entry into or maintenance of any third-party payor arrangements for the provision of services under Federal Health Care Programs or any other public or private health and/or hospital care programs, including insurance programs, self-funded employer health programs, health care service plans and preferred provider organizations.

(b) To enable Hospital to participate in any third-party payor arrangement, Contractor shall cause Group Physician to, not more than ten (10) business days following Hospital's request:

(i) Initiate enrollment as a provider (if required by the third-party payor), separate from Hospital, with any third party payor or intermediate organization (including any independent practice association) (each, a **"Managed Care Organization"**) designated

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

by Hospital for the provision of Professional Services to Hospital patients covered by such Managed Care Organization;

(ii) Complete any documents (e.g., CAQH Universal Provider Datasource form) as may be reasonably necessary or appropriate to effectuate enrollment;

(iii) Enter into a written agreement with such Managed Care Organization as may be necessary or appropriate for the provision of Professional Services to Hospital patients covered by such Managed Care Organization; and/or

(iv) Enter into a written agreement with Hospital regarding global billing, capitation or other payment arrangements as may be necessary or appropriate for the provision of Professional Services to Hospital patients covered by such Managed Care Organization.

(c) Hospital shall retain all responsibility for billing, contracting, and reimbursement with third-party payors for services provided under this Agreement.

ARTICLE III.
INSURANCE AND INDEMNITY

3.1 Evidence of Coverage. Prior to commencement of this Agreement, the Contractor shall provide a "Certificate of Insurance" certifying that coverage as required herein has been obtained. Individual endorsements executed by the insurance carrier shall accompany the certificate. In addition, the Contractor upon request shall provide a certified copy of the policy or policies. This verification of coverage shall be sent to Hospital's Medical Staff Office, unless otherwise directed. The Contractor shall not receive a "Notice to Proceed" with the work under this Agreement until it has obtained all insurance required and Hospital has approved such insurance. This approval of insurance shall neither relieve nor decrease the liability of the Contractor.

3.2 Qualifying Insurers. All coverages except surety, shall be issued by companies which hold a current policy holder's alphabetic and financial size category rating of not less than A-VII, according to the current Best's Key Rating Guide or a company of equal financial stability that is approved by Hospital's Contracts/Purchasing Director.

3.3 Insurance Coverage Requirements. Without limiting Contractor's or Group Physician's duty to indemnify, Contractor shall maintain in effect throughout the term of this Agreement, at Contractor's sole cost and expense, a policy or policies of insurance with the following minimum limits of liability:

(a) **Professional liability insurance**, covering Contractor and each Group Physician with coverage of not less than One-Million Dollars ($1,000,000) per physician per occurrence and Three-Million Dollars ($3,000,000) per physician in the aggregate; or such other

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

amount(s) of professional liability insurance as may be required by Article 2.2-1 of Hospital's Medical Staff Bylaws from time to time, to cover liability for malpractice and/or errors or omissions made in the course of rendering services under this Agreement. If any professional liability insurance covering Contractor and Group Physician is procured on a "Claims Made" rather than "Occurrence" basis, then Contractor and Group Physician shall either continue such coverage or obtain extended reporting coverage (**"Tail Coverage"**), as appropriate, upon the occurrence of any of the following: (i) termination or expiration of this Agreement; (ii) change of coverage if such change shall result in a gap in coverage; or (iii) amendment, reduction or other material change in the then existing professional liability coverage of Contractor if such amendment, reduction or other material change will result in a gap in coverage. Any Tail Coverage shall have liability limits in the amount set forth above and shall in all events continue in existence until the greater of: (a) three (3) years or (b) the longest statute of limitations for professional and general liability for acts committed has expired. All insurance required by this Agreement shall be with a company acceptable to County and issued and executed by an admitted insurer authorized to transact insurance business in the State.

(b) **Commercial general liability insurance**, including but not limited to premises and operations, including coverage for Bodily Injury and Property Damage, Personal Injury, Contractual Liability, Broad form Property Damage, Independent Contractors, Products and Completed Operations, with a combined single limit for Bodily Injury and Property Damage of not less than One Million Dollars ($1,000,000) per occurrence.

☐ Exemption/Modification (Justification attached; subject to approval).

(c) **Business automobile liability insurance**, covering all motor vehicles, including owned, leased, non-owned, and hired vehicles, used in providing services under this Agreement, with a combined single limit for Bodily Injury and Property Damage of not less than One Million Dollars ($1,000,000) per occurrence.

☒ Exemption/Modification (Justification attached; subject to approval).

Contractor does not provide Services on the premises of Hospital and does not drive on county property to fulfill its obligations under the Agreement.

(d) **Workers' Compensation Insurance**, if Contractor employs others in the performance of this Agreement, in accordance with California Labor Code Section 3700 and with Employer's Liability limits not less than One Million Dollars ($1,000,000) each person, One Million Dollars ($1,000,000) each accident and One Million Dollars ($1,000,000) each disease.

☐ Exemption/Modification (Justification attached; subject to approval).

3.4 Other Insurance Requirements. All insurance required by this Agreement shall be with a company acceptable to Hospital and issued and executed by an admitted insurer authorized to transact insurance business in the State. Unless otherwise specified by this Agreement, all such insurance shall be written on an occurrence basis, or, if the policy is not written on an occurrence basis, such policy with the coverage required herein shall continue in

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

effect for a period of three (3) years following the date Contractor and Group Physicians complete their performance of services under this Agreement.

Each liability policy shall provide that Hospital shall be given notice in writing at least thirty (30) days in advance of any endorsed reduction in coverage or limit, cancellation, or intended non-renewal thereof. Each policy shall provide coverage for Contractor, Group Physicians, and additional insured with respect to claims arising from each subcontractor, if any, performing work under this Agreement, or be accompanied by a certificate of insurance from each subcontractor showing each subcontractor has identical insurance coverage to the above requirements.

Commercial general liability and automobile liability policies shall provide an endorsement naming the County of Monterey, its officers, agents, and employees as Additional Insureds with respect to liability arising out of the Contractor's work, including ongoing and completed operations, and shall further provide that such insurance is primary insurance to any insurance or self-insurance maintained by the County and that the insurance of the Additional Insureds shall not be called upon to contribute to a loss covered by the Contractor's insurance.

Prior to the execution of this Agreement by Hospital, Contractor shall file certificates of insurance with Hospital's Medical Staff Office, showing that the Contractor has in effect the insurance required by this Agreement. The Contractor shall file a new or amended certificate of insurance within five (5) calendar days after any change is made in any insurance policy, which would alter the information on the certificate then on file. Acceptance or approval of insurance shall in no way modify or change the indemnification clause in this Agreement, which shall continue in full force and effect.

Contractor and each Group Physician shall at all times during the term of this Agreement maintain in force the insurance coverage required under this Agreement and shall send, without demand by Hospital, annual certificates to Hospital's Medical Staff Office. If the certificate is not received by the expiration date, Hospital shall notify Contractor and Contractor shall have five (5) calendar days to send in the certificate, evidencing no lapse in coverage during the interim. Failure by Contractor to maintain such insurance is a default of this Agreement, which entitles Hospital, at its sole discretion, to terminate the Agreement immediately.

3.5 Right to Offset Insurance Costs.

(a) In the event that Contractor does not purchase or otherwise have the liability insurance set forth in this Section at any time during the term of this Agreement, and without limiting any rights or remedies of County, County may at its option and within its sole discretion provide the liability insurance required by this Section and continue to pay the premiums therefor. If Contractor does not promptly reimburse all such amounts, then County shall have the right to withhold and offset the compensation due to Contractor under this Agreement, in addition to such other rights or privileges as County may have at law or in equity.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

(b) The County's option to provide such insurance and to offset the compensation otherwise due to the Contractor shall also apply to the "Tail Coverage" referenced in Section 3.3, including for general liability if during the term of the Agreement such coverage has been written on a claims made basis, which is required to remain effective after the expiration or termination of this Agreement for any reason.

3.6 Indemnification.

(a) **Indemnification by Contractor.** Contractor and each Group Physician shall indemnify, defend, and hold harmless County, its officers, agents, and employees, from and against any and all claims, liabilities, and losses whatsoever (including damages to property and injuries to or death of persons, court costs, and reasonable attorneys' fees) occurring or resulting to any and all persons, firms or corporations furnishing or supplying work, services, materials, or supplies in connection with the performance of this Agreement, and from any and all claims, liabilities, and losses occurring or resulting to any person, firm, or corporation for damage, injury, or death arising out of or connected with Contractor's or Group Physicians' performance of this Agreement, unless such claims, liabilities, or losses arise out of the sole negligence or willful misconduct of County. "Contractor's performance" includes Contractor's and Group Physicians' acts or omissions and the acts or omissions of Contractor's officers, employees, agents and subcontractors.

(b) **Indemnification by County.** County agrees to defend, indemnify, and hold harmless Contractor and Group Physicians, to the extent permitted by applicable law, from and against any and all claims and losses whatsoever accruing or resulting to any person, firm or corporation for damages, injury or death arising out of or connected with any negligent act or omission or willful misconduct of County or any of its agents or employees.

3.7 Indemnification for Timely Payment of Tax Contributions. It is expressly agreed by the Parties hereto that no work, act, commission or omission of Contractor or any Group Physician shall be construed to make or render Contractor or any Group Physician the agent, employee or servant of County. Contractor and each Group Physician agrees to indemnify, defend and hold harmless County and Hospital from and against any and all liability, loss, costs or obligations (including, without limitation, interest, penalties and attorney's fees in defending against the same) against County or Hospital based upon any claim that Contractor has failed to make proper and timely payment of any required tax contributions for itself, its employees, or its purported agents or independent contractors.

3.8 Hospital Services. Hospital shall retain professional and administrative responsibility for the operation of the Hospital, as and to the extent required by Title 22, California Code of Regulations, Section 70713. Hospital's retention of such responsibility is not intended and shall not be construed to diminish, limit, alter or otherwise modify in any way the obligations of Contractor under this Agreement, including, without limitation, the obligations under the insurance and indemnification provisions set forth in this Article III.

3.9 Survival of Obligations. The Parties' obligations under this Article III shall survive the expiration or termination of this Agreement for any reason.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

ARTICLE IV.
RELATIONSHIP BETWEEN THE PARTIES

4.1 Independent Contractor.

(a) Contractor and each Group Physician is and shall at all times be an independent contractor with respect to Hospital in the performance of Contractor's and Group Physician's obligations under this Agreement. Nothing in this Agreement shall be construed to create an employer/employee, joint venture, partnership, lease or landlord/tenant relationship between Hospital and Contractor or Hospital and any Group Physician. No Group Physician shall hold himself or herself out as an officer, agent or employee of Hospital, and shall not incur any contractual or financial obligation on behalf of Hospital without Hospital's prior written consent.

(b) If the Internal Revenue Service (**"IRS"**) or any other governmental agency should inquire about, question or challenge the independent contractor status of Contractor or any Group Physician with respect to County, the Parties hereto mutually agree that: (i) each shall inform the other Party hereto of such inquiry or challenge; and (ii) County and Contractor shall each have the right to participate in any discussion or negotiation occurring with the taxing agency, regardless of who initiated such discussions or negotiations. In the event the taxing agency concludes that an independent contractor relationship does not exist, County may terminate this Agreement effective immediately upon written notice. In the event of such termination, the Parties remain free to negotiate an employer/employee contract with any Group Physician.

4.2 Limitation on Control. Hospital shall neither have nor exercise any control or direction over Contractor's or any Group Physician's professional medical judgment or the methods by which Contractor or any Group Physician performs professional medical services; provided, however, that Contractor and Group Physicians shall be subject to and shall at all times comply with the Protocols and the bylaws, guidelines, policies and rules applicable to other members of the Medical Staff.

4.3 Practice of Medicine. Contractor and Hospital acknowledge that Hospital is neither authorized nor qualified to engage in any activity which may be construed or deemed to constitute the practice of medicine. To the extent that any act or service required of, or reserved to, Hospital in this Agreement is construed or deemed to constitute the practice of medicine, the performance of such act or service by Hospital shall be deemed waived or unenforceable, unless this Agreement can be amended to comply with the law, in which case the Parties shall make such amendment.

4.4 No Benefit Contributions. Hospital shall have no obligation under this Agreement to compensate or pay applicable taxes for, or provide employee benefits of any kind (including contributions to government mandated, employment-related insurance and similar programs) to, or on behalf of, Contractor or any other person employed or retained by Contractor. Notwithstanding the foregoing, if Hospital determines or is advised that it is required by law to compensate or pay applicable taxes for, or provide employee benefits of any kind (including contributions to government mandated, employment-related insurance and

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

similar programs) to, or on behalf of, Contractor or any other person employed or retained by Contractor, Contractor shall reimburse Hospital for any such expenditure within thirty (30) calendar days after being notified of such expenditure.

4.5 Referrals. Contractor and the Group Physicians shall be entitled to refer patients to any hospital or other health care facility or provider deemed by Contractor or the Group Physicians best qualified to deliver medical services to any particular patient; provided; however, that neither Contractor nor any Group Physician shall refer any Hospital patient to any provider or health care services which either Contractor or any Group Physician knows or should have known is excluded or suspended from participation in, or sanctioned by, any Federal Health Care Program or state equivalent. Nothing in this Agreement or in any other written or oral agreement between Hospital and Contractor or Hospital and the Group Physicians, nor any consideration offered or paid in connection with this Agreement, contemplates or requires the admission or referral of any patients or business to Hospital or any Affiliate. In the event that any governmental agency, any court or any other judicial body of competent jurisdiction, as applicable, issues an opinion, ruling or decision that any payment, fee or consideration provided for hereunder is made or given in return for patient referrals, either Party may at its option terminate this Agreement with three (3) days notice to the other Party. Contractor's rights under this Agreement shall not be dependent in any way on the referral of patients or business to Hospital or any Affiliate by Contractor, Group Physician or any person employed or retained by Contractor.

4.6 Form 1099 or W-2. If required to do so under applicable law, Hospital shall issue an Internal Revenue Service Form 1099 or Form W-2 to Contractor.

4.7 Contractor Compensation Arrangements. Contractor represents and warrants to Hospital that the compensation paid or to be paid by Contractor to any physician is and will at all times be fair market value for services and items actually provided by such physician, not taking into account the value or volume of referrals or other business generated by such physician for Hospital or any Affiliate. Contractor further represents and warrants to Hospital that Contractor has and will at all times maintain a written agreement with each physician receiving compensation from Contractor.

4.8 Cooperation.

(a) The Parties recognize that, during the term of this Agreement and for an undetermined time period thereafter, certain risk management issues, legal issues, claims or actions may arise that involve or could potentially involve the Parties and their respective employees and agents. The Parties further recognize the importance of cooperating with each other in good faith when such issues, claims or actions arise, to the extent such cooperation does not violate any applicable laws, cause the breach of any duties created by any policies of insurance or programs of self-insurance, or otherwise compromise the confidentiality of communications or information regarding the issues, claims or actions. As such, the Parties hereby agree to cooperate in good faith, using their best efforts, to address such risk management and legal issues, claims, or actions.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

(b) The Parties further agree that if a controversy, dispute, claim, action or lawsuit (each, an **"Action"**) arises with a third party wherein both the Parties are included as defendants, each Party shall promptly disclose to the other Party in writing the existence and continuing status of the Action and any negotiations relating thereto. Each Party shall make every reasonable attempt to include the other Party in any settlement offer or negotiations. In the event the other Party is not included in the settlement, the settling Party shall immediately disclose to the other Party in writing the acceptance of any settlement and terms relating thereto, if allowed by the settlement agreement.

(c) Contractor shall cooperate with the individual designated by Hospital to have principal responsibility for the administration and operation of the Hospital. Such cooperation shall include supervision, selection, assignment, and evaluation of personnel; management and direction of equipment maintenance; development of budgets; and oversight of the acquisition of materials, supplies, and equipment.

(d) Contractor shall assist Hospital, as reasonably requested by Hospital, in Hospital's compliance with applicable laws and the standards, requirements, guidelines and recommendations of any governing or advisory body having authority to set standards relating to the operation of Hospital, or any nationally recognized accrediting organization that Hospital designates from time to time.

4.9 Contractor's Performance. County or Hospital, at its option and within its sole discretion, may seek evaluation of contractual performance by requesting input from Hospital's Medical Director/Chief Medical Officer and from other professionals within Hospital.

4.10 Right of Inspection. Upon reasonable prior written notice, Hospital and County officials and their designees may inspect the books and records of Contractor which are necessary to determine that work performed by Contractor or any Group Physician to patients hereunder is in accord with the requirements of this Agreement. Such inspection shall be made in a manner so as not to disrupt the operations of Hospital or Contractor.

4.11 Access to and Audit of Records. Hospital shall have the right to examine, monitor and audit all records, documents, conditions, and activities of the Contractor and its subcontractors related to services provided under this Agreement. Pursuant to Government Code Section 8546.7, if this Agreement involves the expenditure of public funds in excess of Ten Thousand Dollars ($10,000), the Parties may be subject, at the request of Hospital or as part of any audit of Hospital, to the examination and audit of the State Auditor pertaining to matters connected with the performance of this Agreement for a period of three (3) years after final payment under the Agreement.

ARTICLE V.
TERM AND TERMINATION

5.1 Term. This Agreement shall become effective on November 1, 2025 (the **"Effective Date"**), with Services commencing on December 6, 2025 (the "**Go-Live Date**") and shall continue until December 31, 2028 (the **"Expiration Date"**), subject to the termination provisions of this Agreement.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

5.2 Termination by Hospital. Hospital shall have the right to terminate this Agreement upon the occurrence of any one or more of the following events:

(a) breach of this Agreement by Contractor or any Group Physician where the breach is not cured within thirty (30) calendar days after Hospital gives written notice of the breach to Contractor;

(b) neglect of professional duty by Contractor or any Group Physician in a manner that poses an imminent danger to the health or safety of any individual, or violates Hospital's policies, rules or regulations;

(c) there is a "substantial change" in Contractor which has not received prior written approval or subsequent ratification by Hospital. The retirement, withdrawal, termination, or suspension of one (1) or more Group Physicians of Contractor at any time during the term of this Agreement shall be considered to be a "substantial change" in Contractor only if there is a reduction in hours equivalent to in excess of one full-time Group Physician. Notwithstanding anything in the foregoing to the contrary, the retirement, withdrawal, termination, or suspension of any single Group Physician of Contractor shall not constitute a "substantial change" in Contractor as that term is used herein;

(d) breach by Contractor or any Group Physician of any HIPAA Obligation (as defined in **Exhibit 6.3**);

(e) Contractor makes an assignment for the benefit of creditors, admits in writing the inability to pay its debts as they mature, applies to any court for the appointment of a trustee or receiver over its assets, or upon commencement of any voluntary or involuntary proceedings under any bankruptcy, reorganization, arrangement, insolvency, readjustment of debt, dissolution liquidation or other similar law of any jurisdiction;

(f) the insurance required to be maintained by Contractor under this Agreement is terminated, reduced below the minimum coverage requirements set forth in this Agreement, not renewed or cancelled (whether by action of the insurance company or Contractor) for any reason, and Contractor has not obtained replacement coverage as required by this Agreement prior to the effective date of such termination, reduction, non-renewal or cancellation;

(g) Contractor is rendered unable to comply with the terms of this Agreement for any reason; or

(h) upon a sale of all or substantially all assets comprising Hospital's acute care hospital facility, any change of control in Hospital's organization, or any change in control of its day to day operations, whether through a membership change or by management contract. Hospital shall notify Contractor in writing of such sale or change of control at least thirty (30) days prior to the closing date of any such sale or the effective date of any such change of control.

5.3 Termination by Contractor. Contractor shall have the right to terminate this Agreement upon breach of this Agreement by Hospital where the breach is not cured within thirty (30) calendar days after Contractor gives written notice of the breach to Hospital.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

5.4 Termination or Modification in the Event of Government Action.

(a) If the Parties receive notice of any Government Action, the Parties shall attempt to amend this Agreement in order to comply with the Government Action.

(b) If the Parties, acting in good faith, are unable to make the amendments necessary to comply with the Government Action, or, alternatively, if either Party determines in good faith that compliance with the Government Action is impossible or infeasible, this Agreement shall terminate ten (10) calendar days after one Party notices the other of such fact.

(c) For the purposes of this Section, **"Government Action"** shall mean any legislation, regulation, rule or procedure passed, adopted or implemented by any federal, state or local government or legislative body or any private agency, or any notice of a decision, finding, interpretation or action by any governmental or private agency, court or other third party which, in the opinion of counsel to Hospital, because of the arrangement between the Parties pursuant to this Agreement, if or when implemented, would:

(i) revoke or jeopardize the status of any health facility license granted to Hospital or any Affiliate of Hospital;

(ii) revoke or jeopardize the federal, state or local tax-exempt status of Hospital or any Affiliate of Hospital, or their respective tax-exempt financial obligations;

(iii) prevent Contractor or any Group Physician from being able to access and use the facilities of Hospital or any Affiliate of Hospital;

(iv) constitute a violation of 42 U.S.C. Section 1395nn (commonly referred to as the Stark law) if Contractor or any Group Physician referred patients to Hospital or any Affiliate of Hospital;

(v) prohibit Hospital or any Affiliate of Hospital from billing for services provided to patients referred to by Contractor or any Group Physician;

(vi) subject Hospital or Contractor, any Group Physician, or any Affiliate of Hospital, or any of their respective employees or agents, to civil or criminal prosecution (including any excise tax penalty under Internal Revenue Code Section 4958), on the basis of their participation in executing this Agreement or performing their respective obligations under this Agreement; or

(vii) jeopardize Hospital's full accreditation with any accrediting organization as Hospital designates from time to time.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

(d) For the purposes of this Agreement, **"Affiliate"** shall mean any entity which, directly or indirectly, controls, is controlled by, or is under common control with Hospital.

5.5 Termination without Cause. Either Party may terminate this Agreement without cause, expense or penalty, effective one hundred twenty (120) calendar days after written notice of termination is given to the other Party.

5.6 Effect of Termination or Expiration. Upon any termination or expiration of this Agreement:

(a) all rights and obligations of the Parties shall cease except (i) those rights and obligations that have accrued and remain unsatisfied prior to the termination or expiration of this Agreement, and (ii) those rights and obligations which expressly survive termination or expiration of this Agreement;

(b) upon Hospital's request, Contractor and any Group Physician shall immediately vacate the premises, removing any and all of Contractor's and Group Physicians' personal property, and Hospital may remove and store, at Contractor's expense, any personal property that either Contractor or any Group Physician has not so removed;

(c) Contractor and Group Physicians shall immediately return to Hospital all of Hospital's property, including Hospital's equipment, supplies, furniture, furnishings and patient records, in Contractor's or Group Physicians' possession or under Contractor's or Group Physicians' control;

(d) Contractor and Group Physicians shall not do anything or cause any other person to do anything that interferes with Hospital's efforts to engage any other person or entity for the provision of the Services, or interferes in any way with any relationship between Hospital and any other person or entity who may be engaged to provide the Services to Hospital;

(e) The expiration or termination of this Agreement shall not entitle Contractor or Group Physicians to the right to a "fair hearing" or any other similar rights or procedures more particularly set forth in the Medical Staff bylaws or otherwise; and

(f) This Section 5.6 shall survive the expiration or termination for any reason of this Agreement.

5.7 Immediate Removal of Group Physicians. Contractor shall immediately remove any Group Physician from furnishing Services under this Agreement who:

(a) has his or her Medical Staff membership or clinical privileges at Hospital terminated, suspended, revoked or relinquished for any reason, whether voluntarily or involuntarily, temporarily or permanently, regardless of the availability of civil or administrative hearing rights or judicial review with respect thereto;

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

(b) has his or her license to practice medicine in the State, DEA registration denied, suspended, restricted, terminated, revoked or relinquished for any reason, whether voluntarily or involuntarily, temporarily or permanently, regardless of the availability of civil or administrative hearing rights or judicial review with respect thereto;

(c) is convicted of a felony, a misdemeanor involving fraud, dishonesty, or moral turpitude, or any crime relevant to Professional Services or the practice of medicine;

(d) is debarred, suspended, excluded or otherwise ineligible to participate in any Federal Health Care Program or state equivalent;

(e) fails to satisfy any of the standards and qualifications set forth in Sections 1.6, 1.7, 1.9, 1.10 and 1.11 of this Agreement; or

(f) fails to be covered by the professional liability insurance required to be maintained under this Agreement.

5.8 Removal of Group Physicians upon Hospital Request. Upon written request by Hospital, Contractor shall immediately remove any Group Physician from furnishing Services under this Agreement who:

(a) engages in conduct that, in Hospital's good faith determination, jeopardizes the mental or physical health, safety or well-being of any person or damages the reputation of Hospital;

(b) fails to comply with any other material terms or conditions of this Agreement after being given written notice of that failure and a reasonable opportunity to comply;

(c) within a twelve (12) month period, has two (2) or more medical malpractice judgments filed against him or her, or he or she becomes the subject of two (2) or more proceedings by the Medical Staff regarding the performance of professional medical services.

5.9 Effect of Removal. Upon the removal of a Group Physician pursuant to Section 5.7 or Section 5.8 of this Agreement, Contractor shall employ, contract with, or otherwise engage, at its cost and expense, a qualified substitute for the removed Group Physician, or shall demonstrate to Hospital's satisfaction Contractor's ability to continuously perform the Services without such a substitute. Failure to take such action shall constitute a material breach of this Agreement, subject to Section 5.2. Nothing herein shall be construed to limit Hospital's rights under Section 5.2 or any other provision of this Agreement.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

5.10 Return of Property. Upon any termination or expiration of this Agreement, Contractor shall immediately return to Hospital all of Hospital's property, including Hospital's equipment, supplies, furniture, furnishings and patient records, which is in Contractor's or any Group Physician's possession or under Contractor's or any Group Physician's control.

5.11 Termination or Amendment in Response to Reduction of Government Funding. Notwithstanding any other provision of this Agreement, if Federal, State or local government terminates or reduces its funding to the County for services that are to be provided under this Agreement, County, in its sole and absolute discretion after consultation with the Contractor, may elect to terminate this Agreement by giving written notice of termination to Contractor effective immediately or on such other date as County specifies in the notice. Alternatively, County and Contractor may mutually agree to amend the Agreement in response to a reduction in Federal, State or local funding.

ARTICLE VI.
GENERAL PROVISIONS

6.1 Amendment. This Agreement may be modified or amended only by mutual written agreement of the Parties. Any such modification or amendment must be in writing, dated and signed by the Parties and attached to this Agreement.

6.2 Assignment. This Agreement is entered into by Hospital in reliance on the professional and administrative skills of Contractor. Contractor shall be solely responsible for providing the Services and otherwise fulfilling the terms of this Agreement, except as specifically set forth in this Agreement. Except for assignment by Hospital to an entity owned, controlled by, or under common control with Hospital, neither Party may assign any interest or obligation under this Agreement without the other Party's prior written consent. Subject to the foregoing, this Agreement shall be binding on and shall inure to the benefit of the Parties and their respective successors and assigns.

6.3 Compliance with HIPAA. Contractor and Group Physicians shall comply with the obligations under the Health Insurance Portability and Accountability Act of 1996 (42 U.S.C. § 1320d et seq.), as amended by the Health Information Technology for Economic and Clinical Health Act of 2009, and all rules and regulations promulgated thereunder (collectively, **"HIPAA,"** the obligations collectively referred to herein as **"HIPAA Obligations"**), as set forth in **Exhibit 6.3**. The HIPAA Obligations shall survive the expiration or termination of this Agreement for any reason.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

6.4 Compliance with Laws and Accreditation. Contractor shall comply with all applicable laws, ordinances, codes and regulations of federal, state and local governments (collectively, **"Laws"**) applicable to Contractor, the provision of the Services, or the obligations of Contractor under this Agreement, including without limitation laws that require Contractor to disclose any economic interest or relationship with Hospital, the Emergency Medical Treatment and Active Labor Act and the rules and regulations thereunder (**"EMTALA"**), and California Health and Safety Code Section 1317 and the rules and regulations thereunder (**"Health and Safety Code §1317"**). Contractor shall perform and handle all patient transfers and reports in accordance with applicable Laws, including EMTALA, and Health and Safety Code §1317. Contractor shall take actions necessary to ensure that the Hospital is operated in accordance with: all requirements of a nationally recognized accrediting organization that Hospital designates from time to time, all applicable licensing requirements, and all other relevant requirements promulgated by any federal, state or local agency.

6.5 Compliance with Medicare Rules. To the extent required by law or regulation, Contractor shall make available, upon written request from Hospital, the Secretary of Health and Human Services, the Comptroller General of the United States, or any other duly authorized agent or representative, a copy of this Agreement and Contractor's books, documents and records. Contractor shall preserve and make available such books, documents and records for a period of ten (10) years after the end of the term of this Agreement, or the length of time required by state or federal law. If Contractor is requested to disclose books, documents or records pursuant to this Section for any purpose, Contractor shall notify Hospital of the nature and scope of such request, and Contractor shall make available, upon written request of Hospital, all such books, documents or records. Contractor shall indemnify and hold harmless Hospital if any amount of reimbursement is denied or disallowed because of Contractor's failure to comply with the obligations set forth in this Section. Hospital shall remain responsible for any losses solely attributable to its own billing practices. Such indemnity shall include, but not be limited to, the amount of reimbursement denied, plus any interest, penalties and legal costs. This Section shall survive the expiration or termination for any reason of this Agreement.

If Contractor carries out any of the duties of the contract through a subcontract, with a value or cost of Ten Thousand Dollars ($10,000) or more over a twelve (12) month period, with a related organization, such subcontract shall contain a clause to the effect that until the expiration of ten (10) years after the furnishing of such Services pursuant to such subcontract, the related organization shall make available, upon written request by the Secretary, or upon request by the Comptroller General, or any of their duly authorized representatives, the subcontract and books, documents and records of such organization that are necessary to verify the nature and extent of such costs.

6.6 Confidential Information.

(a) During the term of this Agreement, Contractor and Group Physicians may have access to and become acquainted with Trade Secrets and Confidential Information of Hospital. **"Trade Secrets"** includes information and data relating to payor contracts and accounts, clients, patients, patient groups, patient lists, billing practices and procedures, business techniques and methods, strategic plans, operations and related data. **"Confidential Information"** includes Trade Secrets and any information related to the past, current or

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

proposed operations, business or strategic plans, financial statements or reports, technology or services of Hospital or any Affiliate that Hospital discloses or otherwise makes available in any manner to Contractor or Group Physicians, or to which Contractor or Group Physicians may gain access in the performance of the Services under this Agreement, or which Contractor or any Group Physician knows or has reason to know is confidential information of Hospital or any Affiliate; whether such information is disclosed orally, visually or in writing, and whether or not bearing any legend or marking indicating that such information or data is confidential. By way of example, but not limitation, Confidential Information includes any and all know-how, processes, manuals, confidential reports, procedures and methods of Hospital, any Hospital patient's individually identifiable health information (as defined under HIPAA), and any information, records and proceedings of Hospital and/or Medical Staff committees, peer review bodies, quality committees and other committees or bodies charged with the evaluation and improvement of the quality of care. Confidential Information also includes proprietary or confidential information of any third party that may be in Hospital's or any Affiliate's possession.

(b) Confidential Information shall be and remain the sole property of Hospital, and shall, as applicable, be proprietary information protected under the Uniform Trade Secrets Act. Neither Contractor nor any Group Physician shall use any Confidential Information for any purpose not expressly permitted by this Agreement, or disclose any Confidential Information to any person or entity, without the prior written consent of Hospital. Contractor and Group Physicians shall protect the Confidential Information from unauthorized use, access, or disclosure in the same manner as Contractor and any Group Physician protects his, her, or its own confidential or proprietary information of a similar nature and with no less than reasonable care. All documents that Contractor and Group Physicians prepare, or Confidential Information that might be given to Contractor in the course of providing Services under this Agreement, are the exclusive property of Hospital, and, without the prior written consent of Hospital, shall not be removed from Hospital's premises.

(c) Contractor and Group Physicians shall return to Hospital all Confidential Information and all copies thereof in Contractor's and Group Physicians' possession or control, and permanently erase all electronic copies of such Confidential Information, promptly upon the written request of Hospital, or the termination or expiration of this Agreement. Neither Contractor nor any Group Physician shall copy, duplicate or reproduce any Confidential Information without the prior written consent of Hospital.

(d) Hospital acknowledges that in the course of performing Services under this Agreement, Contractor may disclose or Hospital may otherwise gain access to confidential or proprietary information belonging to Contractor, including without limitation, technology platforms, workflows, pricing structures, operational methods, and strategic plans ("Contractor Confidential Information"). Hospital agrees to maintain the confidentiality of all such Contractor Confidential Information with the same degree of care it uses to protect its own confidential information, and not less than reasonable care. Hospital shall not use or disclose Contractor Confidential Information for any purpose other than to fulfill its obligations under this Agreement and shall not disclose such information to any third party without the prior written consent of Contractor. The obligations in this section shall survive the termination or expiration

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

of this Agreement. This Agreement or any amendments thereto, including pricing terms, are deemed public records pursuant to the California Public Records Act.

(e) This Section shall survive the expiration or termination of this Agreement.

6.7 Counterparts. This Agreement may be executed in one or more counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.

6.8 Disclosure of Interests. Contractor or any Group Physician shall provide to Hospital, as requested by Hospital from time to time, information sufficient to disclose any ownership, investment or compensation interest or arrangement of Contractor, or any of Contractor's or any Group Physician's immediate family members, in any entity providing "designated health services" (as such term is defined in the Stark Law (42 U.S.C. Section 1395nn) and its regulations) or any other health care services. This Section shall not impose on Hospital any disclosure or reporting requirements or obligations imposed on Contractor or any Group Physician under any governmental program or create an assumption of such disclosure obligations by Hospital. Contractor and Group Physicians shall have the sole responsibility to fulfill any such federal and/or state reporting requirements or obligations.

6.9 Dispute Resolution. In the event of any dispute, controversy, claim or disagreement arising out of or related to this Agreement or the acts or omissions of the Parties with respect to this Agreement (each, a **"Dispute"**), the Parties shall resolve such Dispute as follows:

(a) **Meet and Confer.** The Parties shall, as soon as reasonably practicable, but in no case more than ten (10) days after one Party gives written notice of a Dispute to the other Party (the **"Dispute Notice"**), meet and confer in good faith regarding such Dispute at such time and place as mutually agreed upon by the Parties (the **"Meet and Confer"**). The obligation to conduct a Meet and Confer pursuant to this Section does not obligate either Party to agree to any compromise or resolution of the Dispute that such Party does not determine, in its sole and absolute discretion, to be a satisfactory resolution of the Dispute. The Meet and Confer shall be considered a settlement negotiation for the purpose of all applicable Laws protecting statements, disclosures or conduct in such context, and any offer in compromise or other statements or conduct made at or in connection with any Meet and Confer shall be protected under such Laws.

(b) **Arbitration.** If any Dispute is not resolved to the mutual satisfaction of the Parties within ten (10) business days after delivery of the Dispute Notice (or such other period as may be mutually agreed upon by the Parties in writing), the Parties shall submit such Dispute to arbitration conducted by Judicial Arbitration and Mediation Services, Inc. (**"JAMS"**), or other arbitration and/or mediation services company as agreed to by the Parties, in accordance with the following rules and procedures:

(i) Each Party may commence arbitration by giving written notice to the other Party demanding arbitration (the **"Arbitration Notice"**). The Arbitration Notice shall specify the Dispute, the particular claims and/or causes of actions alleged by the Party demanding

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

arbitration, and the factual and legal basis in support of such claims and/or causes of action.

(ii) The arbitration shall be conducted in the County in which the Hospital is located and in accordance with the commercial arbitration rules and procedures of JAMS (or other arbitration company as mutually agreed to by the Parties) to the extent such rules and procedures are not inconsistent with the provisions set forth in this Section. In the event of a conflict between any rules and/or procedures of JAMS (or other arbitration company as mutually agreed to by the Parties) and the rules and/or procedures set forth in this Section, the rules and/or procedures set forth in this Section shall govern.

(iii) The arbitration shall be conducted before a single impartial retired member of the JAMS panel of arbitrators (or panel of arbitrators from such other arbitration company as mutually agreed to by the Parties) covering the County in which the Hospital is located (the **"Panel"**). The Parties shall use their good faith efforts to agree upon a mutually acceptable arbitrator within thirty (30) days after delivery of the Arbitration Notice. If the Parties are unable to agree upon a mutually acceptable arbitrator within such time period, then each Party shall select one arbitrator from the Panel, and those arbitrators shall select a single impartial arbitrator from the Panel to serve as arbitrator of the Dispute.

(iv) The Parties expressly waive any right to any and all discovery in connection with the arbitration; provided, however, that each Party shall have the right to conduct no more than two (2) depositions and submit one set of interrogatories with a maximum of forty (40) questions, including subparts of such questions.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

(v) The arbitration hearing shall commence within thirty (30) days after appointment of the arbitrator. The substantive internal law (and not the conflict of laws) of the State shall be applied by the arbitrator to the resolution of the Dispute, and the Evidence Code of the State shall apply to all testimony and documents submitted to the arbitrator. The arbitrator shall have no authority to amend or modify the limitation on the discovery rights of the Parties or any of the other rules and/or procedures set forth in this Section. As soon as reasonably practicable, but not later than thirty (30) days after the arbitration hearing is completed, the arbitrator shall arrive at a final decision, which shall be reduced to writing, signed by the arbitrator and mailed to each of the Parties and their respective legal counsel.

(vi) Any Party may apply to a court of competent jurisdiction for entry and enforcement of judgment based on the arbitration award. The award of the arbitrator shall be final and binding upon the Parties without appeal or review except as permitted by the Arbitration Act of the State.

(vii) The fees and costs of JAMS (or other arbitration company as mutually agreed to by the Parties) and the arbitrator, including any costs and expenses incurred by the arbitrator in connection with the arbitration, shall be borne equally by the Parties, unless otherwise agreed to by the Parties.

(viii) Except as set forth in Section 6.9(b)(vii), each Party shall be responsible for the costs and expenses incurred by such Party in connection with the arbitration, including its own attorneys' fees and costs; provided, however, that the arbitrator shall require one Party to pay the costs and expenses of the prevailing Party, including attorneys' fees and costs and the fees and costs of experts and consultants, incurred in connection with the arbitration if the arbitrator determines that the claims and/or position of a Party were frivolous and without reasonable foundation.

(c) **Waiver of Injunctive or Similar Relief.** The Parties hereby waive the right to seek specific performance or any other form of injunctive or equitable relief or remedy arising out of any Dispute, except that such remedies may be utilized for purposes of enforcing this Section and sections governing Confidential Information, Compliance with HIPAA, Compliance with Laws and Accreditation and Compliance with Medicare Rules of this Agreement. Except as expressly provided herein, upon any determination by a court or by an arbitrator that a Party has breached this Agreement or improperly terminated this Agreement, the other Party shall accept monetary damages, if any, as full and complete relief and remedy, to the exclusion of specific performance or any other form of injunctive or equitable relief or remedy.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

(d) **Injunctive or Similar Relief.** Notwithstanding anything to the contrary in this Section, the Parties reserve the right to seek specific performance or any other form of injunctive relief or remedy in any state or federal court located within the County in which the Hospital is located for purposes of enforcing this Section and sections governing Confidential Information, Compliance with HIPAA, Compliance with Laws and Accreditation and Compliance with Medicare Rules of this Agreement. Contractor hereby consents to the jurisdiction of any such court and to venue therein, waives any and all rights under the Laws of any other state to object to jurisdiction within the State, and consents to the service of process in any such action or proceeding, in addition to any other manner permitted by applicable Law, by compliance with the notices provision of this Agreement. The non-prevailing Party in any such action or proceeding shall pay to the prevailing Party reasonable fees and costs incurred in such action or proceeding, including attorneys' fees and costs and the fees and costs of experts and consultants. The prevailing Party shall be the Party who is entitled to recover its costs of suit (as determined by the court of competent jurisdiction), whether or not the action or proceeding proceeds to final judgment or award.

(e) **Survival.** This Section shall survive the expiration or termination of this Agreement.

6.10 Entire Agreement. This Agreement is the entire understanding and agreement of the Parties regarding its subject matter, and supersedes any prior oral or written agreements, representations, understandings or discussions between the Parties. No other understanding between the Parties shall be binding on them unless set forth in writing, signed and attached to this Agreement.

6.11 Exhibits. The attached exhibits, together with all documents incorporated by reference in the exhibits, form an integral part of this Agreement and are incorporated by reference into this Agreement, wherever reference is made to them to the same extent as if they were set out in full at the point at which such reference is made.

6.12 Force Majeure. Neither Party shall be liable for nonperformance or defective or late performance of any of its obligations under this Agreement to the extent and for such periods of time as such nonperformance, defective performance or late performance is due to reasons outside such Party's control, including acts of God, war (declared or undeclared), terrorism, action of any governmental authority, civil disturbances, riots, revolutions, vandalism, accidents, fire, floods, explosions, sabotage, nuclear incidents, lightning, weather, earthquakes, storms, sinkholes, epidemics, failure of transportation infrastructure, disruption of public utilities, supply chain interruptions, information systems interruptions or failures, breakdown of machinery or strikes (or similar nonperformance, defective performance or late performance of employees, suppliers or subcontractors); provided, however, that in any such event, each Party shall use its good faith efforts to perform its duties and obligations under this Agreement.

6.13 Governing Law. This Agreement shall be construed in accordance with and governed by the laws of the State.

6.14 Headings. The headings in this Agreement are intended solely for convenience of reference and shall be given no effect in the construction or interpretation of this Agreement.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

6.15 Litigation Consultation. Contractor shall ensure that no Group Physician accepts consulting assignments or otherwise contract, agree, or enter into any arrangement to provide expert testimony or evaluation on behalf of a plaintiff in connection with any claim against Hospital or any Affiliate named, or expected to be named as a defendant. Contractor shall ensure that no Group Physician accepts similar consulting assignments if (a) the defendants or anticipated defendants include a member of the medical staff of Hospital or any Affiliate, and (b) the matter relates to events that occurred at Hospital or any Affiliate; provided, however, the provisions of this Section shall not apply to situations in which a Group Physician served as a treating physician.

6.16 Master List. The Parties acknowledge and agree that this Agreement, together with any other contracts between Hospital and Contractor, will be included on the master list of physician contracts maintained by Hospital.

6.17 Meaning of Certain Words. Wherever the context may require, any pronouns used in this Agreement shall include the corresponding masculine, feminine, or neuter forms, and the singular form of nouns shall include the plural and vice versa. Unless otherwise specified: (i) "days" shall be considered "calendar days;" (ii) "months" shall be considered "calendar months;" and (iii) "including" means "including, without limitation" in this Agreement and its exhibits and attachments.

6.18 New Group Physicians. Each new Group Physician shall agree in writing to be bound by the terms of and conditions of this Agreement.

6.19 No Conflicting Obligations. Contractor represents and warrants that the execution and delivery of this Agreement and the performance of its obligations hereunder do not and will not: (a) present a conflict of interest or materially interfere with the performance of Contractor's duties under any other agreement or arrangement; or (b) violate, conflict with, or result in a breach of any provision of, or constitute a default (or an event which, with notice and/or lapse of time, would constitute a default) under, terminate, accelerate the performance required by, or result in a right of termination or acceleration under any of the terms, conditions or provisions of any other agreement, indebtedness, note, bond, indenture, security or pledge agreement, license, franchise, permit, or other instrument or obligation to which Contractor is a party or by which Contractor is bound. Contractor shall immediately inform Hospital of any other agreements to which Contractor is a party that may present a conflict of interest or materially interfere with performance of Contractor's or Group Physicians' duties under this Agreement.

6.20 No Third Party Beneficiary Rights. The Parties do not intend to confer and this Agreement shall not be construed to confer any rights or benefits to any person, firm, group, corporation or entity other than the Parties.

6.21 Notices. All notices or communications required or permitted under this Agreement shall be given in writing and delivered personally or sent by United States registered or certified mail with postage prepaid and return receipt requested or by overnight delivery service (e.g., Federal Express, DHL). Notice shall be deemed given when sent, if sent as

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

specified in this Section, or otherwise deemed given when received. In each case, notice shall be delivered or sent to:

If to Hospital, addressed to:

NATIVIDAD MEDICAL CENTER
1441 Constitution Blvd., Bldg. 300
Salinas, California 93906
Attention: Physician Services

If to Contractor, addressed to:

ATP Partners of California, P.C.
10175 Fortune Parkway, Suite 302
Jacksonville, FL 322556

6.22 Participation in Federal Health Care Programs. Contractor hereby represents that neither it nor any Group Physician is debarred, suspended, excluded or otherwise ineligible to participate in any Federal Health Care Program.

6.23 Representations. Each Party represents with respect to itself that: (a) no representation or promise not expressly contained in this Agreement has been made by any other Party or by any Parties' agents, employees, representatives or attorneys; (b) this Agreement is not being entered into on the basis of, or in reliance on, any promise or representation, expressed or implied, other than such as are set forth expressly in this Agreement; and (c) Party has been represented by legal counsel of Party's own choice or has elected not to be represented by legal counsel in this matter.

6.24 Severability. If any provision of this Agreement is determined to be illegal or unenforceable, that provision shall be severed from this Agreement, and such severance shall have no effect upon the enforceability of the remainder of this Agreement.

6.25 Statutes and Regulations. Any reference in this Agreement to any statute, regulation, ruling, or administrative order or decree shall include, and be a reference to any successor statute, regulation, ruling, or administrative order or decree.

6.26 Waiver. No delay or failure to require performance of any provision of this Agreement shall constitute a waiver of that provision as to that or any other instance. Any waiver granted by a Party must be in writing to be effective, and shall apply solely to the specific instance expressly stated.

[*signature page follows*]

The Parties have executed this Agreement on the date first above written, and signify their agreement with duly authorized signatures.

CONTRACTOR

ATP PARTNERS OF CALIFORNIA, P.C., a California professional corporation

DocuSigned by:
By: Waqas Ahmed Date: 9/24/2025 | 2:00 PM EDT
5D7F3507C415411...
Its CEO

By: _____
Its _____

NATIVIDAD MEDICAL CENTER

_____ Date: _____
Deputy Purchasing Agent

APPROVED AS TO LEGAL PROVISIONS:

DocuSigned by:
Stacy Saetta Date: 9/24/2025 | 2:43 PM PDT
C0ECE1B99F444A9...
Stacy Saetta, Deputy County Counsel

APPROVED AS TO FISCAL PROVISIONS:

DocuSigned by:
Patricia Ruiz Date: 9/25/2025 | 1:52 PM PDT
E79EF64E57454F6...
Deputy Auditor/Controller

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

Exhibit 1.1(a)

PROFESSIONAL SERVICES

1. Contractor shall provide sufficient amount of Group Physicians for the continuous coverage for ED and Hospital Patients.

2. At least one Group Physician shall be available daily to provide Telemedicine Service for Patients on the floor and in the ICU, with support from an onsite nurse or designated hospital staff member. Neurologists shall conduct video consultations using a mutually agreed-upon telemedicine platform, including the NeuroX platform if selected, and shall document encounters in the Hospital's EMR system directly or through available integration.

3. Telemedicine Services will be delivered using the Hospital's existing telehealth carts and hardware. Contractor shall utilize a secure and compliant telemedicine platform agreed upon by both Parties for conducting video consultations and coordinating care. The NeuroX platform may be used for this purpose if mutually agreed. Contractor will collaborate with the Hospital's IT team to ensure access, support, and documentation compatibility.

4. Hospital shall identify and schedule appropriate onsite personnel to support the delivery of Telemedicine Services. These Hospital staff members shall be trained in accordance with Contractor's standard training protocols and made available during scheduled Tele-Rounding hours.

a. Typical Diagnoses May Include:
Subacute stroke/TIA management, encephalopathy, vertigo, headache, epilepsy, and similar conditions.

b. Out-of-Scope Diagnoses Include:
Neurosurgical conditions, brain death determination, hypoxic-ischemic injury prognostication, and spinal or peripheral nervous system disorders that require in-person evaluation.

c. Hospital Staff Responsibilities:
Hospital shall designate clinical staff to perform medically necessary procedures as ordered by the consulting neurologist, including but not limited to:
- CT Scan
- EKG
- EEG
- STAT laboratory tests
- MRI
- Lumbar puncture

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

- Echocardiogram

If such procedures are unavailable, Contractor may recommend transfer of the patient to another facility, where appropriate.

d. Onsite Support During Service Hours:
Hospital shall ensure coverage by an onsite physician and trained tele-presenter.
i. The tele-presenter must be proficient in conducting Neurological Assessments under remote physician supervision.
ii. Neurologic evaluations are limited by the skills of the tele-presenter, available clinical data, and technology. When limitations impact diagnostic certainty, the consulting physician may recommend a higher level of care or patient transfer.

e. The Contractor shall not be liable for delays in service delivery resulting from temporary downtime, internet outages, or other technical interruptions of the cart or platform. Contractor shall also not be responsible for clinical outcomes impacted by any technical limitations beyond its control.

f. Clinical Criteria and Workflow:
Hospital shall collaborate with Contractor to establish appropriate clinical criteria and care pathways for Telemedicine Services. These criteria shall be documented in an Operating Manual maintained by both Parties.

g. Workflow Finalization:
Hospital and Contractor shall mutually define and agree upon an inpatient clinical workflow to ensure smooth service delivery, including, without limitation, the following:

i. indirect physical examination, history taking, diagnostic protocols (paper and/or computer driven), imaging analysis and recommendations for therapeutic interventions and/or diagnostic tests for any neurologic emergencies. Hospital shall ensure that an appropriate healthcare provider (physician, NP, PA, or specifically trained RN) is available at the bedside at the time of the consult to assist with the physical exam;

ii. videoconferencing and teleconferencing, including the discussions between the Group Physician and the patient, the patient's family members and/or adult(s) accompanying the patient regarding any neurologic emergency;

iii. transmission of still images and of vital signs to provide Hospital's physicians with assistance with diagnosis and therapy for specific Patients with neurologic emergencies; and

iv. review of information may include, results, images, reports or records in synchronous (video chat/screen share) or asynchronous (file/document/video recording review). In no case does any Group Physician assume the primary responsibility for the care of the Patient.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

Group Physicians shall transmit the results of their assessment and recommendation to the Patient's attending physician within approximately thirty (30) minutes after the evaluation is completed.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

Attachment C

Neurox Platform and Support Services. Contractor shall deliver its proprietary telemedicine platform ("NeuroX platform (powered by SmartClinix)") for use by the Hospital in connection with the services under this Agreement. Contractor shall not supply telemedicine carts or hardware unless explicitly requested by Hospital. If requested, carts shall be made available on a lease basis at $50 per cart per calendar day. A one-time setup and configuration fee of $2,000 will apply per cart leased.

1. **Platform Support**. Contractor shall provide 24/7 remote technical support for the NeuroX platform (powered by SmartClinix), including assistance with login issues, software navigation, connectivity, and performance. Contractor is not responsible for resolving hardware or local network issues within the Hospital's environment.

2. **Hospital Responsibilities**. Hospital shall be solely responsible for the procurement, functionality, maintenance, and support of all hardware used for telemedicine services, including carts, peripherals, and local IT infrastructure. Hospital shall serve as the first line of support for any technical issues, as most issues typically involve connectivity, hardware setup, or facility-related configurations.

    a. Hospital shall ensure compatibility of its equipment with the NeuroX platform (powered by SmartClinix) based on technical requirements provided by Contractor.

    b. Hospital's IT team shall support Contractor's IT team in addressing platform-related issues, including providing access, logs, or other technical information necessary for troubleshooting and platform optimization.

    c. Hospital shall ensure compatibility of its equipment with the NeuroX platform, based on Contractor's technical requirements.

    d. Hospital shall provide adequate internal IT support to resolve any issues related to its own equipment, internet connectivity, or facility-specific systems.

3. **Limited Warranty.** Contractor warrants that platform support services will be delivered in a professional and workmanlike manner by qualified personnel. Except for the express warranty above, Contractor disclaims all other warranties, including any implied warranties of merchantability or fitness for a particular purpose. Contractor does not warrant uninterrupted access or compatibility with Hospital-owned systems.

4. **Optional Cart Leasing (If requested).** Should the Hospital request Contractor to supply telemedicine carts or other physical equipment, a separate Equipment Lease Addendum shall be executed outlining the applicable terms, including lease rates, setup fees, maintenance, and support responsibilities. Until such addendum is executed, Contractor shall have no obligation to supply or support any physical equipment.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

Exhibit 1.2

TEACHING SERVICES TO BE PROVIDED BY CONTRACTOR

Hospital is a teaching facility. Residents and/or students may be present from time to time. When reasonably requested by Hospital, Group Provider shall:

:

1. supervise patient care in a constructive and supportive way;

2. demonstrate effective interviewing, physical examination, procedures, use of diagnostic and therapeutic interventions, and medical records documentation;

3. create a professional role model; and

4. evaluate resident performance in a meaningful, objective fashion.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

Exhibit 1.3

ADDITIONAL SERVICES TO BE PROVIDED BY CONTRACTOR

Contractor shall:

1. provide teaching, educational or training services, as reasonably requested by Hospital;

2. participate in utilization review programs, as reasonably requested by Hospital;

3. participate in risk management, quality assurance and peer review programs, as reasonably requested by Hospital;

4. accept third party insured patients and referrals of patients which are made by members of the Medical Staff, subject only to the limitations of scheduling and Contractor's professional qualifications;

5.

6. assist Hospital management with all preparation for, and conduct of, any inspections and on-site surveys of Hospital conducted by governmental agencies or accrediting organizations;

7. cooperate with Hospital in all litigation matters affecting Contractor or Hospital, consistent with advice from Contractor's legal counsel;

8. cooperate and comply with Hospital's policies and procedures which are pertinent to patient relations, quality assurance, scheduling, billing, collections and other administrative matters and cooperate with Hospital's efforts to bill and collect fees for services rendered to Hospital's patients. All business transactions related to the Services provided by Contractor, such as enrollment, verification and billings, shall be conducted by and in the name of Hospital; and

9. assist Hospital in developing, implementing and monitoring a program by which quality measures are reportable to Hospital with respect to the Specialty.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

Exhibit 1.10

Natividad
Inspiring healthy lives

MEDICAL STAFF POLICY

Title: Practitioner Code of Conduct	**Number:** MSP004-2 BOT Approval: 1/2023
Standard: Medical Staff (MS)	MEC Approval: 12/22 Responsible: Medical Staff Services Manager

As a member of the Medical Staff or an Advanced Practice Professional (APP) of Natividad (collectively Practitioners), you must acknowledge that the ability of Practitioners and Natividad employees to jointly deliver high quality health care depends significantly upon their ability to communicate well, collaborate effectively, and work as a team, recognizing that patients, family members, visitors, colleagues and Natividad staff members must be treated in a dignified and respectful manner at all times.

1. **POLICY**

In keeping with the accepted standards of the health care profession as evidenced by the Hippocratic Oath, the Code of Ethics of the American Medical Association (AMA) and other professional societies, and the values of Natividad, Practitioners are leaders in maintaining professional standards of behavior. In keeping with this responsibility to maintain professional standards of behavior at Natividad, Practitioners:

1. Facilitate effective patient care by consistent, active, and cooperative participation as members of the Natividad health care team.

2. Recognize the individual and independent responsibilities of all other members of the Natividad health care team and their right to independently advocate on behalf of the patient.

3. Maintain respect for the dignity and sensitivities of patients and families, as well as colleagues, Natividad employees, and all other health care professionals.

4. Participate in the Medical Staff quality assessment and peer review activities, and in organizational performance improvement activities.

5. Reflect positively upon the reputation of the health care profession, the Medical Staff, and Natividad in their language, action, attitude, and behavior.

6. Commit and contribute to the overall educational mission of Natividad and promote an effective, inclusive, equitable and supportive clinical learning environment.

Behaviors of Practitioners which do not meet the professional behavior standards established in

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

this Code of Conduct (Code) shall be referred to as Disruptive or Unprofessional Behavior.

Disruptive or Unprofessional Behavior by Practitioners exhibited on the premises of Natividad, whether or not the Practitioner is on duty or functioning in his/her professional capacity, are subject to this Code.

2. EXAMPLES OF PROFESSIONAL BEHAVIOR

Practitioners are expected to exhibit professional behavior at Natividad, consistent with this Code, as follows:

1. Be consistently available with cooperative and timely responsiveness to appropriate requests from physicians, nurses, and all other members of the Natividad health care team in patient care and other professional responsibilities.

2. Provide for and communicate alternate coverage arrangements to assure the continuity and quality of care.

3. Demonstrate language, action, attitude, and behavior which consistently convey to patients, families, colleagues, and all other members of the Natividad health care team a sense of compassion and respect for human dignity.

4. Understand and accept individual cultural differences.

5. Maintain appropriate, timely, and legible medical record entries which enable all Natividad professionals to understand and effectively participate in a cohesive plan of management to assure continuity, quality, and efficiency of care and effective post-discharge planning and follow-up.

6. Respect the right of patients, families, or other designated surrogates to participate in an informed manner in decisions pertaining to patient care.

7. Treat patients and all persons functioning in any capacity within Natividad with courtesy, respect, and human dignity.

8. Conduct one's practice at Natividad in a manner that will facilitate timely commencement of medical/surgical procedures at Natividad, including but not limited to, timely arrival at the hospital, pre-ordering all needed special equipment and/or supplies, and timely notification of required staff.

3. EXAMPLES OF DISRUPTIVE OR UNPROFESSIONAL BEHAVIOR

Disruptive or Unprofessional Behavior, as characterized in this Code, includes but is not limited to:

1. Misappropriation or unauthorized removal or possession of Natividad owned property.

2. Falsification of medical records, including timekeeping records and other Natividad documents.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

3. Working under the influence of alcohol or illegal drugs.

4. Working under the influence of prescription or over-the-counter medications when use of such medications significantly affects the practitioner's level of cognitive functioning.

5. Possession, distribution, purchase, sale, transfer, transport, or use of illegal drugs in the workplace.

6. Possession of dangerous or unauthorized materials such as explosives, firearms, or other weapons in the workplace.

7. Writing derogatory and/or accusatory notes in the medical record which are not necessary for the provision of quality patient care services. Concerns regarding the performance of other Practitioners or Natividad employees should generate an Occurrence Report in Verge and submit pursuant to Natividad policy and should not be entered into the patient's medical record.

8. Harassment

    a. Harassment is verbal or physical contact that denigrates or shows hostility or aversion toward an individual based on race, religion, color, national origin, ancestry, age, disability, marital status, gender, sexual orientation, or any other basis protected by federal, state, or local law or ordinance, and that:

        1. Has the purpose or effect of creating an intimidating, hostile, or offensive working environment, or;

        2. Has the purpose or effect of unreasonably interfering with an individual's work performance, or;

        3. Otherwise aversely affects an individual's employment opportunity.

    b. Harassing conduct includes, but is not limited to:

        1. Epithets, slurs, negative stereotyping, threatening, intimidating, or hostile acts that relate to race, religion, color, national origin, ancestry, age, disability, marital status, gender, or sexual orientation.

        2. Written material or illustrations that denigrate or show hostility or aversion toward an individual or group because of race, religion, color, national origin, ancestry, age, disability, marital status, gender, or sexual orientation, and is placed on walls; bulletin boards, or elsewhere on Natividad's premises or circulated in the workplace.

9. Physical behavior that is harassing, intimidating, or threatening, from the viewpoint of the recipient, including touching, obscene or intimidating gestures, or throwing of objects.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

10. Passive behaviors, such as refusing to perform assigned tasks or to answer questions, return phone calls, or pages.

11. Language that is a reasonable adult would consider to be foul, abusive, degrading, demeaning, or threatening, such as crude comments, degrading jokes or comments, yelling, or shouting at a person, or threatening violence or retribution.

12. Single incident of egregious behavior, such as an assault or other criminal act.

13. Criticism of Natividad staff in front of patients, families, or other staff.

4. PROCEDURE

5. Any person who functions in any capacity at Natividad who observes Practitioner language, action, attitude, or behavior which may be unprofessional, harassing, or disruptive to the provision of quality patient care services should document the incident via an Occurrence Report in Verge.

6. Identified incidents involving Practitioners shall be reviewed pursuant to the current Road Map for Handling Reports of Disruptive or Unprofessional Behavior or the County Sexual Harassment Policy, as determined by the nature of the behavior and the person who exhibits it.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

Natividad
Inspiring healthy lives

MEDICAL STAFF POLICY

Title: Practitioner Code of Conduct	**Effective:** 05/09 **Reviewed/Revised:** 12/22
Standard: MSP004-2	**Approved:** **MEC** 12/22 **BOT** 1/23

I acknowledge that I have received and read this Practitioner Code of Conduct. I acknowledge that hospitals are required to define and address disruptive and inappropriate conduct to comply with The Joint Commission standards for accreditation. I agree to adhere to the guidelines in this Code and conduct myself in a professional manner. I further understand that failure to behave in a professional fashion may result in disciplinary actions set forth in the RoadMap for Handling Reports of Disruptive or Unprofessional Behavior or as determined by the Medical Executive Committee pursuant to the Medical Staff Bylaws.

Printed name: _____

Signature: _____ Date: _____

Exhibit 1.10-1

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

Exhibit 1.21(a)

GROUP PHYSICIANS

[List Approved Group Physicians Below]

Group Physician	NPI Number

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

Exhibit 1.21(f)

LETTER OF ACKNOWLEDGEMENT

[Hospital Contact]
NATIVIDAD MEDICAL CENTER
1441 Constitution Blvd., Bldg. 300
Salinas, California 93906

Ladies and Gentlemen:

I acknowledge that NATIVIDAD MEDICAL CENTER (***"Hospital"***) and ATP Partners of California, P.C. (***"Contractor"***) have entered into a Professional and Call Coverage Services Agreement (***"Agreement"***) under which Contractor shall perform specified Services (as defined in the Agreement), and that I have been engaged by Contractor to provide Professional Services as a ***"Group Physician"*** (as defined in the Agreement). In consideration of Hospital's approval of me as a Group Physician eligible to furnish the Services, I expressly:

1. Acknowledge that I have read those portions of the Agreement referenced in this Letter of Acknowledgement, and agree to abide by and comply with all of the requirements of the Agreement applicable to Group Physicians;

2. Acknowledge that I have read the Code, and agree to abide by and comply with the Code as they relate to my business relationship with Hospital or any Affiliates, subsidiaries, employees, agents, servants, officers, directors, contractors and suppliers of every kind;

3. Acknowledge that I have no employment, independent contractor or other contractual relationship with Hospital, that my right to practice at Hospital as a Group Physician is derived solely through my employment or contractual relationship with Contractor;

4. Acknowledge that upon the expiration or termination of the Agreement for any reason, or the termination of my employment or other affiliation with Contractor for any reason my clinical privileges to provide Professional Services and my Medical Staff membership if such clinical privileges are the only privileges I hold, will each immediately be relinquished, without any action on the part of Hospital and/or the Medical Staff;

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

5. Acknowledge that, with regard to all of the foregoing, I will not be entitled to any "fair hearing" or any other hearing or appellate review under any provision of the Medical Staff Bylaws, unless Hospital determines that my removal, or the termination of my right to provide Professional Services, as applicable, is reportable to any state's medical board or other agency responsible for professional licensing, standards or behavior, and hereby waive any right to demand or otherwise initiate any such hearing or appellate review under any provision of the Medical Staff Bylaws.

Sincerely,

_____

[Name of Group Physician]

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

Exhibit 2.1

COMPENSATION

1. **Professional Services.** Hospital shall pay to Contractor for those Professional Services rendered by Contractor under this Agreement; provided, however, that Contractor is in compliance with the terms and conditions of this Agreement.

Service	Price
Coverage Services	$250 per calendar day
Each New Consult	$275 per encounter
Each Follow-Up Video Encounter	$175 per video consult
Telephone Consult (Physician-to-Physician)	$95 per consult
Telemedicine Platform with 24/7 IT Support	Included (No Additional Charge)
Routine EEG Reading (Inpatient or Outpatient)	$110 per study
EEG with Video Monitoring (Real-Time Charting)	Up to 12 Hours: $300 13–26 Hours: $450
EEG with Video Monitoring (Single Report)	36–60 Hours: $550 61–84 Hours: $640 >84 Hours: $800
EEG without Video Monitoring (Real-Time Charting)	Up to 12 Hours: $250 13–26 Hours: $375
EEG without Video Monitoring (Single Report)	36–60 Hours: $475 61–84 Hours: $550 >84 Hours: $675

2. **Timing.** Hospital shall pay the compensation due for Services performed by Contractor after Contractor's submission of an invoice of preceding activity in accordance with this Agreement; provided, however, that if Contractor does not submit an invoice within sixty (60) days of the end of the month during which Services were performed, Hospital shall not be obligated to pay Contractor for Services performed during that month. The County of Monterey Standard Payment Terms for contracts/PSAs and paying invoices is "30 days after receipt of the certified invoice in the Auditor-Controller's Office". No payments in advance or in anticipation of services or supplies to be provided under this Agreement shall be made by County.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

Exhibit 2.1-2

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

Exhibit 6.3

BUSINESS ASSOCIATE AGREEMENT

This Business Associate Agreement ("Agreement"), effective November 1, 2025 ("Effective Date"), is entered into by and among the County of Monterey, a political subdivision of the State of California, on behalf of Natividad Medical Center ("Covered Entity") and **ATP Partners of California, P.C.** ("Business Associate") (each a "Party" and collectively the "Parties").

Business Associate provides certain services for Covered Entity ("Services") that involve the use and disclosure of Protected Health Information that is created or received by Business Associate from or on behalf of Covered Entity ("PHI"). The Parties are committed to complying with the Standards for Privacy of Individually Identifiable Health Information, 45 C.F.R. Part 160 and Part 164, Subparts A and E as amended from time to time (the "Privacy Rule"), and with the Security Standards, 45 C.F.R. Part 160 and Part 164, Subpart C as amended from time to time (the "Security Rule"), under the Health Insurance Portability and Accountability Act of 1996 ("HIPAA"), as amended by the Health Information Technology for Economic and Clinical Health Act and its implementing regulations ("HITECH"). Business Associate acknowledges that, pursuant to HITECH, 45 C.F.R. §§ 164.308 (administrative safeguards), 164.310 (physical safeguards), 164.312 (technical safeguards), 164.316 (policies and procedures and documentation requirements) and 164.502 *et. seq.* apply to Business Associate in the same manner that such sections apply to Covered Entity. The additional requirements of Title XIII of HITECH contained in Public Law 111-005 that relate to privacy and security and that are made applicable with respect to covered entities shall also be applicable to Business Associate. The Parties are also committed to complying with the California Confidentiality of Medical Information Act, Ca. Civil Code §§ 56 *et seq.* ("CMIA"), where applicable. Business Associate acknowledges that the CMIA prohibits Business Associate from further disclosing the PHI it receives from Covered Entity where such disclosure would be violative of the CMIA. The Parties are also committed to complying with applicable requirements of the Red Flag Rules issued pursuant to the Fair and Accurate Credit Transactions Act of 2003 ("Red Flag Rules"). This Agreement sets forth the terms and conditions pursuant to which PHI, and, when applicable, Electronic Protected Health Information ("EPHI"), shall be handled. The Parties further acknowledge that state statutes or other laws or precedents may impose data breach notification or information security obligations, and it is their further intention that each shall comply with such laws as well as HITECH and HIPAA in the collection, handling, storage, and disclosure of personal data of patients or other personal identifying information exchanged or stored in connection with their relationship.

The Parties agree as follows:

1. DEFINITIONS

All capitalized terms used in this Agreement but not otherwise defined shall have the meaning set forth in the Privacy Rule, Security Rule and HITECH.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

2. PERMITTED USES AND DISCLOSURES OF PHI

2.1 Unless otherwise limited herein, Business Associate may:

(a) use or disclose PHI to perform functions, activities or Services for, or on behalf of, Covered Entity as requested by Covered Entity from time to time, provided that such use or disclosure would not violate the Privacy or Security Rules or the standards for Business Associate Agreements set forth in 45 C.F.R. § 164.504(e), exceed the minimum necessary to accomplish the intended purpose of such use or disclosure, violate the additional requirements of HITECH contained in Public Law 111-005 that relate to privacy and security, or violate the CMIA;

(b) disclose PHI for the purposes authorized by this Agreement only: (i) to its employees, subcontractors and agents; (ii) as directed by this Agreement; or (iii) as otherwise permitted by the terms of this Agreement;

(c) use PHI in its possession to provide Data Aggregation Services to Covered Entity as permitted by 45 C.F.R. § 164.504(e)(2)(i)(B);

(d) use PHI in its possession for proper management and administration of Business Associate or to carry out the legal responsibilities of Business Associate as permitted by 45 C.F.R. § 164.504(e)(4)(i);

(e) disclose the PHI in its possession to third parties for the proper management and administration of Business Associate to the extent and in the manner permitted under 45 C.F.R. § 164.504(e)(4)(ii); provided that disclosures are Required by Law , or Business Associate obtains reasonable assurances from the persons to whom the information is disclosed that it will remain confidential and used or further disclosed only as Required by Law or for the purpose for which it was disclosed to the person, and the person notifies the Business Associate of any instances of which it is aware in which the confidentiality of the information has been breached;

(f) use PHI to report violations of law to appropriate Federal and state authorities, consistent with 45 C.F.R. § 164.502(j)(1);

(g) de-identify any PHI obtained by Business Associate under this Agreement for further use or disclosure only to the extent such de-identification is pursuant to this Agreement, and use such de-identified data in accordance with 45 C.F.R. § 164.502(d)(1).

3. RESPONSIBILITIES OF THE PARTIES WITH RESPECT TO PHI

3.1 Responsibilities of Business Associate. With regard to its use and/or disclosure of PHI, Business Associate shall:

(a) use and/or disclose the PHI only as permitted or required by this Agreement or as otherwise Required by Law;

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

(b) report to the privacy officer of Covered Entity, in writing, (i) any use and/or disclosure of the PHI that is not permitted or required by this Agreement of which Business Associate becomes aware, and (ii) any Breach of unsecured PHI as specified by HITECH, within two (2) days of Business Associate's determination of the occurrence of such unauthorized use and/or disclosure. In such event, the Business Associate shall, in consultation with the Covered Entity, mitigate, to the extent practicable, any harmful effect that is known to the Business Associate of such improper use or disclosure. The notification of any Breach of unsecured PHI shall include, to the extent possible, the identification of each individual whose unsecured PHI has been, or is reasonably believed by the Business Associate to have been, accessed, acquired, used or disclosed during the Breach.

(c) use commercially reasonable safeguards to maintain the security of the PHI and to prevent use and/or disclosure of such PHI other than as provided herein;

(d) obtain and maintain an agreement with all of its subcontractors and agents that receive, use, or have access to, PHI pursuant to which agreement such subcontractors and agents agree to adhere to the same restrictions and conditions on the use and/or disclosure of PHI that apply to Business Associate pursuant to this Agreement;

(e) make available all internal practices, records, books, agreements, policies and procedures and PHI relating to the use and/or disclosure of PHI to the Secretary for purposes of determining Covered Entity or Business Associate's compliance with the Privacy Rule;

(f) document disclosures of PHI and information related to such disclosure and, within ten (10) days of receiving a written request from Covered Entity, provide to Covered Entity such information as is requested by Covered Entity to permit Covered Entity to respond to a request by an individual for an accounting of the disclosures of the individual's PHI in accordance with 45 C.F.R. § 164.528, as well as provide an accounting of disclosures, as required by HITECH, directly to an individual provided that the individual has made a request directly to Business Associate for such an accounting. At a minimum, the Business Associate shall provide the Covered Entity with the following information: (i) the date of the disclosure, (ii) the name of the entity or person who received the PHI, and if known, the address of such entity or person; (iii) a brief description of the PHI disclosed; and (iv) a brief statement of the purpose of such disclosure which includes an explanation of the basis for such disclosure. In the event the request for an accounting is delivered directly to the Business Associate, the Business Associate shall, within two (2) days, forward such request to the Covered Entity. The Business Associate shall implement an appropriate recordkeeping process to enable it to comply with the requirements of this Section;

(g) subject to Section 4.4 below, return to Covered Entity within twenty-one (21) days of the termination of this Agreement, the PHI in its possession and retain no copies, including backup copies;

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

(h) disclose to its subcontractors, agents or other third parties, and request from Covered Entity, only the minimum PHI necessary to perform or fulfill a specific function required or permitted hereunder;

(i) if all or any portion of the PHI is maintained in a Designated Record Set:

(i) upon ten (10) days' prior written request from Covered Entity, provide access to the PHI in a Designated Record Set to Covered Entity or, as directed by Covered Entity, the individual to whom such PHI relates or his or her authorized representative to meet a request by such individual under 45 C.F.R. § 164.524; and

(ii) upon ten (10) days' prior written request from Covered Entity, make any amendment(s) to the PHI that Covered Entity directs pursuant to 45 C.F.R. § 164.526;

(j) maintain policies and procedures to detect and prevent identity theft in connection with the provision of the Services, to the extent required to comply with the Red Flag Rules;

(k) notify the Covered Entity within five (5) days of the Business Associate's receipt of any request or subpoena for PHI. To the extent that the Covered Entity decides to assume responsibility for challenging the validity of such request, the Business Associate shall cooperate fully with the Covered Entity in such challenge;

(l) maintain a formal security program materially in accordance with all applicable data security and privacy laws and industry standards designed to ensure the security and integrity of the Covered Entity's data and protect against threats or hazards to such security

The Business Associate acknowledges that, as between the Business Associate and the Covered Entity, all PHI shall be and remain the sole property of the Covered Entity.

3.2 Additional Responsibilities of Business Associate with Respect to EPHI. In the event that Business Associate has access to EPHI, in addition to the other requirements set forth in this Agreement relating to PHI, Business Associate shall:

(a) implement administrative, physical, and technical safeguards that reasonably and appropriately protect the confidentiality, integrity, and availability of EPHI that Business Associate creates, receives, maintains, or transmits on behalf of Covered Entity as required by 45 C.F.R. Part 164, Subpart C;

(b) ensure that any subcontractor or agent to whom Business Associate provides any EPHI agrees in writing to implement reasonable and appropriate safeguards to protect such EPHI; and

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

(c) report to the privacy officer of Covered Entity, in writing, any Security Incident involving EPHI of which Business Associate becomes aware within two (2) days of Business Associate's discovery of such Security Incident. For purposes of this Section, a Security Incident shall mean (consistent with the definition set forth at 45 C.F.R. § 164.304), the attempted or successful unauthorized access, use, disclosure, modification, or destruction of information or interference with systems operations in an information system. In such event, the Business Associate shall, in consultation with the Covered Entity, mitigate, to the extent practicable, any harmful effect that is known to the Business Associate of such improper use or disclosure.

3.3 Responsibilities of Covered Entity. Covered Entity shall, with respect to Business Associate:

(a) provide Business Associate a copy of Covered Entity's notice of privacy practices ("Notice") currently in use;

(b) notify Business Associate of any limitations in the Notice pursuant to 45 C.F.R.
§ 164.520, to the extent that such limitations may affect Business Associate's use or disclosure of PHI;

(c) notify Business Associate of any changes to the Notice that Covered Entity provides to individuals pursuant to 45 C.F.R. § 164.520, to the extent that such changes may affect Business Associate's use or disclosure of PHI;

(d) notify Business Associate of any changes in, or withdrawal of, the consent or authorization of an individual regarding the use or disclosure of PHI provided to Covered Entity pursuant to 45 C.F.R. § 164.506 or § 164.508, to the extent that such changes may affect Business Associate's use or disclosure of PHI; and

(e) notify Business Associate, in writing and in a timely manner, of any restrictions on use and/or disclosure of PHI as provided for in 45 C.F.R. § 164.522 agreed to by Covered Entity, to the extent that such restriction may affect Business Associate's use or disclosure of PHI.

4. TERMS AND TERMINATION

4.1 Term. This Agreement shall become effective on the Effective Date and shall continue in effect unless terminated as provided in this Article 4. Certain provisions and requirements of this Agreement shall survive its expiration or other termination as set forth in Section 5.1 herein.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

4.2 Termination. Either Covered Entity or Business Associate may terminate this Agreement and any related agreements if the terminating Party determines in good faith that the terminated Party has breached a material term of this Agreement; provided, however, that no Party may terminate this Agreement if the breaching Party cures such breach to the reasonable satisfaction of the terminating Party within thirty (30) days after the breaching Party's receipt of written notice of such breach.

4.3 Automatic Termination. This Agreement shall automatically terminate without any further action of the Parties upon the termination or expiration of Business Associate's provision of Services to Covered Entity.

4.4 Effect of Termination. Upon termination or expiration of this Agreement for any reason, Business Associate shall return all PHI pursuant to 45 C.F.R. § 164.504(e)(2)(ii)(I) if, and to the extent that, it is feasible to do so. Prior to doing so, Business Associate shall recover any PHI in the possession of its subcontractors or agents. To the extent it is not feasible for Business Associate to return or destroy any portion of the PHI, Business Associate shall provide Covered Entity a statement that Business Associate has determined that it is infeasible to return or destroy all or some portion of the PHI in its possession or in possession of its subcontractors or agents. Business Associate shall extend any and all protections, limitations and restrictions contained in this Agreement to any PHI retained after the termination of this Agreement until such time as the PHI is returned to Covered Entity or destroyed.

5. MISCELLANEOUS

5.1 Survival. The respective rights and obligations of Business Associate and Covered Entity under the provisions of Sections 4.4, 5.1, 5.6, and 5.7, and Section 2.1 (solely with respect to PHI that Business Associate retains in accordance with Section 4.4 because it is not feasible to return or destroy such PHI), shall survive termination of this Agreement until such time as the PHI is returned to Covered Entity or destroyed. In addition, Section 3.1(i) shall survive termination of this Agreement, provided that Covered Entity determines that the PHI being retained pursuant to Section 4.4 constitutes a Designated Record Set.

5.2 Amendments; Waiver. This Agreement may not be modified or amended, except in a writing duly signed by authorized representatives of the Parties. To the extent that any relevant provision of the HIPAA, HITECH or Red Flag Rules is materially amended in a manner that changes the obligations of Business Associates or Covered Entities, the Parties agree to negotiate in good faith appropriate amendment(s) to this Agreement to give effect to the revised obligations. Further, no provision of this Agreement shall be waived, except in a writing duly signed by authorized representatives of the Parties. A waiver with respect to one event shall not be construed as continuing, or as a bar to or waiver of any right or remedy as to subsequent events.

5.3 No Third Party Beneficiaries. Nothing express or implied in this Agreement is intended to confer, nor shall anything herein confer, upon any person other than the Parties and the respective successors or assigns of the Parties, any rights, remedies, obligations, or liabilities whatsoever.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

5.4 Notices. Any notices to be given hereunder to a Party shall be made via U.S. Mail or express courier to such Party's address given below, and/or via facsimile to the facsimile telephone numbers listed below.

If to Business Associate, to:

ATP Partners of California, P.C.
10175 Fortune Parkway, Suite 302
Jacksonville, FL 322556
Attn: Waqas Ahmed
Phone: 8886662042
Fax: 8886264250

If to Covered Entity, to:

NATIVIDAD MEDICAL CENTER
1441 Constitution Blvd., Bldg. 300
Salinas, California 93906
Attn: Compliance Officer
Phone: 831.755.4111
Fax: 831.755.6297

Each Party named above may change its address and that of its representative for notice by the giving of notice thereof in the manner hereinabove provided. Such notice is effective upon receipt of notice, but receipt is deemed to occur on next business day if notice is sent by FedEx or other overnight delivery service.

5.5 Counterparts; Facsimiles. This Agreement may be executed in any number of counterparts, each of which shall be deemed an original. Facsimile copies hereof shall be deemed to be originals.

5.6 Choice of Law; Interpretation. This Agreement shall be governed by the laws of the State of California; as provided, however, that any ambiguities in this Agreement shall be resolved in a manner that allows Business Associate to comply with the Privacy Rule, and, if applicable, the Security Rule and the CMIA.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

5.7 Indemnification. Contractor shall indemnify, defend, and hold harmless the County of Monterey (hereinafter County), its officers, agents, and employees from any claim, liability, loss, injury, cost, expense, penalty or damage, including the County's reasonable cost of providing notification of and of mitigating any acquisition, access, use or disclosure of PHI in a manner not permitted by this BAA, arising out of, or in connection with, performance of this BAA by Contractor and/or its agents, members, employees, or sub-contractors, excepting only loss, injury, cost, expense, penalty or damage caused by the negligence or willful misconduct of personnel employed by the County. It is the intent of the parties to this BAA to provide the broadest possible indemnification for the County. Contractor shall reimburse the County for all costs, attorneys' fees, expenses, and liabilities incurred by the County with respect to any investigation, enforcement proceeding or litigation in which Contractor is obligated to indemnify, defend, and hold harmless the County under this BAA. This provision is in addition to and independent of any indemnification provision in any related or other agreement between the Covered Entity and the Business Associate.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

IN WITNESS WHEREOF, each of the undersigned has caused this Agreement to be duly executed in its name and on its behalf as of the Effective Date.

ATP PARTNERS OF CALIFORNIA, P.C.

By: Waqas Ahmed

Print Name: Waqas Ahmed

Print Title: CEO

Date: 9/24/2025 | 2:00 PM EDT

COUNTY OF MONTEREY, ON BEHALF OF
NATIVIDAD MEDICAL CENTER

By: _____

Print Name: Dr. Charles R. Harris

Print Title: Chief Executive Officer

Date: _____

Introduced: 10/1/2025
Version: 1

Current Status: Agenda Ready
Matter Type: BoS Agreement

a. Authorize the Chief Executive Officer (CEO) for Natividad Medical Center (NMC) or his designee to execute the Fourth Amendment to the Professional Services Agreement (A-14569) with Victoria Chew, M.D. to provide family medicine services, extending the term by twenty-four months (January 1, 2026 to December 31, 2027) for a revised full agreement term of November 1, 2018 to December 31, 2027, and adding $200,000 for a revised total agreement amount not to exceed $600,000 in the aggregate; and
b. Authorize the CEO for NMC or his designee to sign up to three (3) future amendments to this Agreement where the total amendments do not significantly change the scope of work, do not exceed 10% ($10,000) of the original contract amount and do not increase the total contract amount above $610,000.

RECOMMENDATION:

It is recommended the Board of Supervisors:

a. Authorize the Chief Executive Officer (CEO) for Natividad Medical Center (NMC) or his designee to execute the Fourth Amendment to the Professional Services Agreement (A-14569) with Victoria Chew, M.D. to provide family medicine services, extending the term by twenty-four months (January 1, 2026 to December 31, 2027) for a revised full agreement term of November 1, 2018 to December 31, 2027, and adding $200,000 for a revised total agreement amount not to exceed $600,000 in the aggregate; and
b. Authorize the CEO for NMC or his designee to sign up to three (3) future amendments to this Agreement where the total amendments do not significantly change the scope of work, do not exceed 10% ($10,000) of the original contract amount and do not increase the total contract amount above $610,000.

SUMMARY:

NMC operates Family Medicine Residency Program affiliated with the University of California's San Francisco Medical School with a total of 30 residents that practice in multiple settings including the inpatient labor and delivery unit. It is necessary for the Residency Program to maintain a core team of qualified family medicine physicians made up of employed and independent contractor physicians for patient care and the supervision of its residents.

DISCUSSION

NMC has an agreement with Dr. Chew to provide family medicine and supervision of resident services for the Residency Program from time to time as needed. NMC wishes to amend the agreement before the term date to add additional funds and to extend the term by 24 months from the date of expiration so that Dr. Chew can continue to provide the same services without interruption. Due to unanticipated service demands, Dr. Chew has provided significantly more coverage than originally projected under her current agreement, necessitating a request for additional funds prior to the agreement's term date to ensure continuity of care and resident supervision. NMC has obtained an independent opinion of fair market value supporting the payment terms.

OTHER AGENCY INVOLVEMENT:

The Office of County Counsel has reviewed and approved this Fourth Amendment as to legal form, and the Auditor-Controller has reviewed and approved this Amendment as to payment provisions. The Fourth Amendment has also been reviewed and approved by NMC's Finance Committee and by its Board of Trustees.

FINANCING:

The cost of this Amendment is $200,000. The total not to exceed amount of this Agreement is $600,000 for the period November 1, 2018 to December 31, 2027 (109 Months). $100,000 is included in the Fiscal Year 2025/2026 Adopted Budget, the remaining balance will be budgeted in the subsequent fiscal years. Funding will be provided from NMC's Enterprise Fund 451-9600-6608.

BOARD OF SUPERVISORS STRATEGIC PLAN GOALS SECTION:

The services rendered in this agreement provide Natividad with the additional support it needs to provide reliable and high-quality patient care which improves the health and quality of life for Monterey County residents and their families.

_X Well-Being and Quality of Life
__ Sustainable Infrastructure for Present and Future
__Safe and Resilient Communities
__Diverse and Thriving Economy
__ Administrative

Prepared by: Jeanne-Ann Balza, Director of Physician Services, 783.2506
Approved by: Charles R. Harris, Chief Executive Officer, 783-2551

Attachments:

Board Report
Fourth Amendment

Third Amendment
Second Amendment
First Amendment
Original Agreement

Attachments on file with the Clerk of the Board

Introduced: 10/1/2025
Version: 1

Current Status: Agenda Ready
Matter Type: BoS Agreement

a. Authorize the Chief Executive Officer (CEO) for Natividad Medical Center (NMC) or his designee to execute the Fourth Amendment to the Professional Services Agreement (A-14569) with Victoria Chew, M.D. to provide family medicine services, extending the term by twenty-four months (January 1, 2026 to December 31, 2027) for a revised full agreement term of November 1, 2018 to December 31, 2027, and adding $200,000 for a revised total agreement amount not to exceed $600,000 in the aggregate; and
b. Authorize the CEO for NMC or his designee to sign up to three (3) future amendments to this Agreement where the total amendments do not significantly change the scope of work, do not exceed 10% ($10,000) of the original contract amount and do not increase the total contract amount above $610,000.

RECOMMENDATION:

It is recommended the Board of Supervisors:

a. Authorize the Chief Executive Officer (CEO) for Natividad Medical Center (NMC) or his designee to execute the Fourth Amendment to the Professional Services Agreement (A-14569) with Victoria Chew, M.D. to provide family medicine services, extending the term by twenty-four months (January 1, 2026 to December 31, 2027) for a revised full agreement term of November 1, 2018 to December 31, 2027, and adding $200,000 for a revised total agreement amount not to exceed $600,000 in the aggregate; and
b. Authorize the CEO for NMC or his designee to sign up to three (3) future amendments to this Agreement where the total amendments do not significantly change the scope of work, do not exceed 10% ($10,000) of the original contract amount and do not increase the total contract amount above $610,000.

SUMMARY:

NMC operates Family Medicine Residency Program affiliated with the University of California's San Francisco Medical School with a total of 30 residents that practice in multiple settings including the inpatient labor and delivery unit. It is necessary for the Residency Program to maintain a core team of qualified family medicine physicians made up of employed and independent contractor physicians for patient care and the supervision of its residents.

DISCUSSION

NMC has an agreement with Dr. Chew to provide family medicine and supervision of resident

services for the Residency Program from time to time as needed. NMC wishes to amend the agreement before the term date to add additional funds and to extend the term by 24 months from the date of expiration so that Dr. Chew can continue to provide the same services without interruption. Due to unanticipated service demands, Dr. Chew has provided significantly more coverage than originally projected under her current agreement, necessitating a request for additional funds prior to the agreement's term date to ensure continuity of care and resident supervision. NMC has obtained an independent opinion of fair market value supporting the payment terms.

OTHER AGENCY INVOLVEMENT:

The Office of County Counsel has reviewed and approved this Fourth Amendment as to legal form, and the Auditor-Controller has reviewed and approved this Amendment as to payment provisions. The Fourth Amendment has also been reviewed and approved by NMC's Finance Committee and by its Board of Trustees.

FINANCING:

The cost of this Amendment is $200,000. The total not to exceed amount of this Agreement is $600,000 for the period November 1, 2018 to December 31, 2027 (109 Months). $100,000 is included in the Fiscal Year 2025/2026 Adopted Budget, the remaining balance will be budgeted in the subsequent fiscal years. Funding will be provided from NMC's Enterprise Fund 451-9600-6608.

BOARD OF SUPERVISORS STRATEGIC PLAN GOALS SECTION:

The services rendered in this agreement provide Natividad with the additional support it needs to provide reliable and high-quality patient care which improves the health and quality of life for Monterey County residents and their families.

_X Well-Being and Quality of Life
__ Sustainable Infrastructure for Present and Future
__Safe and Resilient Communities
__Diverse and Thriving Economy
__ Administrative

Prepared by: Jeanne-Ann Balza, Director of Physician Services, 783.2506
Approved by: Charles R. Harris, Chief Executive Officer, 783-2551

Attachments:

Board Report
Fourth Amendment
Third Amendment
Second Amendment

First Amendment
Original Agreement

Attachments on file with the Clerk of the Board

Docusign Envelope ID: 237D9975-4CD9-48E3-9825-D946D02A6AB2

FOURTH AMENDMENT TO PROFESSIONAL SERVICESAGREEMENT

THIS FOURTH AMENDMENT TO PROFESSIONAL SERVICE AGREEMENT (the **"Amendment"**) is made and entered into as of November 1, 2025 by and between COUNTY OF MONTEREY (**"County"**) on behalf of NATIVIDAD MEDICAL CENTER (**"Hospital"**), and VICTORIA CHEW, M.D., an individual **("Contractor")** with respect to the following:

RECITALS

A. County owns and operates Hospital, a general acute care teaching hospital facility located in Salinas, California under its acute care license.

B. Contractor and Hospital have entered into that certain Professional Services Agreement dated effective as of November 1, 2018, as amended effective January 1, 2020, January 1, 2022, and January 1, 2024 (collectively, the **"Agreement"**), pursuant to which Contractor provides Specialty services to Hospital's Patients.

C. Hospital and Contractor desire to amend the Agreement to extend the term by twenty-four (24) months, add clarifying language regarding availability and absences, update the Code of Conduct, replace compensation Exhibit 2.1, and add Two Hundred Thousand Dollars ($200,000) to the aggregate amount payable to the Contractor, as set forth below.

AGREEMENT

IN CONSIDERATION of the foregoing recitals and the mutual promises and covenants contained herein, Hospital and Contractor agree as follows:

1. **Defined Terms**. Capitalized terms not otherwise defined herein shall have the meaning ascribed to them in the Agreement.

2. **Section 1.6**. Section 1.6 to the Agreement is hereby amended and restated to read in its entirety as follows:

> **"1.6 Availability**. On or before the first (1st) day of each month, Contractor shall inform Hospital of Contractor's schedule of availability to perform the Services during the following month. Contractor must provide a minimum availability of two (2) shifts per month, including weekends, and one (1) minor and one (1) major holiday per year. Contractor shall use his or her best efforts to adjust such schedule of availability if reasonably requested by Hospital in order to meet Hospital's needs for the Services. Contractor shall provide thirty (30) days' prior written notice in advance of any absence, when practicable.**"**
>
> **(a) Absences**. In the event Contractor is unable to perform the obligations under this Agreement for any justifiable cause, Contractor shall designate a qualified replacement to provide the Services on behalf of Contractor, subject to the prior written approval of Hospital. Contractor shall ensure that any such designated replacement meets any and all obligations and requirements of Contractor under this Agreement. Contractor shall notify the Service Director or

Docusign Envelope ID: 237D9975-4CD9-48E3-9825-D946D02A6AB2

his/her designee in writing and in accordance with Hospital Rules and Department Policies. Except in the event of absence due to illness or disability, Hospital shall have the right to approve the length of Contractor's absence, and any unapproved absence shall constitute a breach of this Agreement."

3. **Section 2.1**. Section 2.1 to the Agreement is hereby amended and restated to reach in its entirety as follows:

> **"2.1 Compensation.** Hospital shall pay to Contractor the amount determined in accordance with **Exhibit 2.1** (the **"Compensation"**), upon the terms and conditions set forth therein. The total amount payable by Hospital to Contractor under this Agreement shall not exceed the aggregate amount of Six Hundred Thousand Dollars ($600,000)."

4. **Section 5.1**. Section 5.1 to the Agreement is hereby amended and restated to read in its entirety as follows:

> **"5.1 Term**. This Agreement shall become effective on November 1, 2018 (the **"Effective Date"**), and shall continue until December 31, 2027 (the **"Expiration Date"**), subject to the termination provisions of this Agreement."

5. **Exhibit 1.13**. Exhibit 1.13 is hereby deleted and replaced in its entirety and incorporated by reference as attached **Exhibit 1.13**.

6. **Exhibit 2.1**. Exhibit 2.1 to the Agreement shall be deleted and replaced in its entirety and attached hereto as **Exhibit 2.1**.

7. **Counterparts**. This Amendment may be executed in one or more counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.

8. **Continuing Effect of Agreement**. Except as herein provided, all of the terms and conditions of the Agreement remain in full force and effect from the Effective Date of the Agreement.

9. **Reference**. After the date of this Amendment, any reference to the Agreement shall mean the Agreement as amended by this Amendment.

[signature page follows]

Docusign Envelope ID: 237D9975-4CD9-48E3-9825-D946D02A6AB2

IN WITNESS WHEREOF, Hospital and Contractor have executed this Amendment as of the day and year first written above.

CONTRACTOR

VICTORIA CHEW, M.D., an individual

Signed by:
Victoria Chew
E00FB1014487405...

Date: 9/22/2025 | 1:23 PM PDT

NATIVIDAD MEDICAL CENTER

_____

Deputy Purchasing Agent

Date: _____

APPROVED AS TO LEGAL PROVISIONS:

DocuSigned by:
Stacy Saetta
C0ECE1B99F444A9...

Stacy Saetta, Deputy County Counsel

Date: 9/26/2025 | 4:06 PM PDT

APPROVED AS TO FISCAL PROVISIONS:

DocuSigned by:
Patricia Ruiz
E79EF64E5745...

Deputy Auditor/Controller

Date: 9/29/2025 | 2:20 PM PDT

Docusign Envelope ID: 237D9975-4CD9-48E3-9825-D946D02A6AB2

EXHIBIT 1.13

MEDICAL STAFF POLICY

Title: Practitioner Code of Conduct	**Number:** MSP004-2 BOT Approval: 1/2023
Standard: Medical Staff (MS)	MEC Approval: 12/22 Responsible: Medical Staff Services Manager

As a member of the Medical Staff or an Advanced Practice Professional (APP) of Natividad (collectively Practitioners), you must acknowledge that the ability of Practitioners and Natividad employees to jointly deliver high quality health care depends significantly upon their ability to communicate well, collaborate effectively, and work as a team, recognizing that patients, family members, visitors, colleagues and Natividad staff members must be treated in a dignified and respectful manner at all times.

POLICY

In keeping with the accepted standards of the health care profession as evidenced by the Hippocratic Oath, the Code of Ethics of the American Medical Association (AMA) and other professional societies, and the values of Natividad, Practitioners are leaders in maintaining professional standards of behavior. In keeping with this responsibility to maintain professional standards of behavior at Natividad, Practitioners:

1. Facilitate effective patient care by consistent, active, and cooperative participation as members of the Natividad health care team.

2. Recognize the individual and independent responsibilities of all other members of the Natividad health care team and their right to independently advocate on behalf of the patient.

3. Maintain respect for the dignity and sensitivities of patients and families, as well as colleagues, Natividad employees, and all other health care professionals.

4. Participate in the Medical Staff quality assessment and peer review activities, and in organizational performance improvement activities.

5. Reflect positively upon the reputation of the health care profession, the Medical Staff, and Natividad in their language, action, attitude, and behavior.
6. Commit and contribute to the overall educational mission of Natividad and promote an effective, inclusive, equitable and supportive clinical learning environment.

Behaviors of Practitioners which do not meet the professional behavior standards established in this Code of Conduct (Code) shall be referred to as Disruptive or Unprofessional Behavior.

Disruptive or Unprofessional Behavior by Practitioners exhibited on the premises of Natividad, whether or not the Practitioner is on duty or functioning in his/her professional capacity, are subject to this Code.

Docusign Envelope ID: 237D9975-4CD9-48E3-9825-D946D02A6AB2

EXAMPLES OF PROFESSIONAL BEHAVIOR

Practitioners are expected to exhibit professional behavior at Natividad, consistent with this Code, as follows:

1. Be consistently available with cooperative and timely responsiveness to appropriate requests from physicians, nurses, and all other members of the Natividad health care team in patient care and other professional responsibilities.

2. Provide for and communicate alternate coverage arrangements to assure the continuity and quality of care.

3. Demonstrate language, action, attitude, and behavior which consistently convey to patients, families, colleagues, and all other members of the Natividad health care team a sense of compassion and respect for human dignity.

4. Understand and accept individual cultural differences.

5. Maintain appropriate, timely, and legible medical record entries which enable all Natividad professionals to understand and effectively participate in a cohesive plan of management to assure continuity, quality, and efficiency of care and effective post-discharge planning and follow-up.

6. Respect the right of patients, families, or other designated surrogates to participate in an informed manner in decisions pertaining to patient care.

7. Treat patients and all persons functioning in any capacity within Natividad with courtesy, respect, and human dignity.

8. Conduct one's practice at Natividad in a manner that will facilitate timely commencement of medical/surgical procedures at Natividad, including but not limited to, timely arrival at the hospital, pre-ordering all needed special equipment and/or supplies, and timely notification of required staff.

EXAMPLES OF DISRUPTIVE OR UNPROFESSIONAL BEHAVIOR

Disruptive or Unprofessional Behavior, as characterized in this Code, includes but is not limited to:

1. Misappropriation or unauthorized removal or possession of Natividad owned property.

2. Falsification of medical records, including timekeeping records and other Natividad documents.

3. Working under the influence of alcohol or illegal drugs.

4. Working under the influence of prescription or over-the-counter medications when use of such medications significantly affects the practitioner's level of cognitive functioning.

5. Possession, distribution, purchase, sale, transfer, transport, or use of illegal drugs in the workplace.

Docusign Envelope ID: 237D9975-4CD9-48E3-9825-D946D02A6AB2

6. Possession of dangerous or unauthorized materials such as explosives, firearms, or other weapons in the workplace.

7. Writing derogatory and/or accusatory notes in the medical record which are not necessary for the provision of quality patient care services. Concerns regarding the performance of other Practitioners or Natividad employees should generate an Occurrence Report in Verge and submit pursuant to Natividad policy and should not be entered into the patient's medical record.

8. Harassment

    a. Harassment is verbal or physical contact that denigrates or shows hostility or aversion toward an individual based on race, religion, color, national origin, ancestry, age, disability, marital status, gender, sexual orientation, or any other basis protected by federal, state, or local law or ordinance, and that:

        1. Has the purpose or effect of creating an intimidating, hostile, or offensive working environment, or;

        2. Has the purpose or effect of unreasonably interfering with an individual's work performance, or;

        3. Otherwise aversely affects an individual's employment opportunity.

    b. Harassing conduct includes, but is not limited to:

        1. Epithets, slurs, negative stereotyping, threatening, intimidating, or hostile acts that relate to race, religion, color, national origin, ancestry, age, disability, marital status, gender, or sexual orientation.

        2. Written material or illustrations that denigrate or show hostility or aversion toward an individual or group because of race, religion, color, national origin, ancestry, age, disability, marital status, gender, or sexual orientation, and is placed on walls; bulletin boards, or elsewhere on
        Natividad's premises or circulated in the workplace.

9. Physical behavior that is harassing, intimidating, or threatening, from the viewpoint of the recipient, including touching, obscene or intimidating gestures, or throwing of objects.

10. Passive behaviors, such as refusing to perform assigned tasks or to answer questions, return phone calls, or pages.

11. Language that is a reasonable adult would consider to be foul, abusive, degrading, demeaning, or threatening, such as crude comments, degrading jokes or comments, yelling, or shouting at a person, or threatening violence or retribution.

12. Single incident of egregious behavior, such as an assault or other criminal act.

13. Criticism of Natividad staff in front of patients, families, or other staff.

Docusign Envelope ID: 237D9975-4CD9-48E3-9825-D946D02A6AB2

PROCEDURE

1. Any person who functions in any capacity at Natividad who observes Practitioner language, action, attitude, or behavior which may be unprofessional, harassing, or disruptive to the provision of quality patient care services should document the incident via an Occurrence Report in Verge.

2. Identified incidents involving Practitioners shall be reviewed pursuant to the current Road Map for Handling Reports of Disruptive or Unprofessional Behavior or the County Sexual Harassment Policy, as determined by the nature of the behavior and the person who exhibits it.

Docusign Envelope ID: 237D9975-4CD9-48E3-9825-D946D02A6AB2

MEDICAL STAFF POLICY

Title: Practitioner Code of Conduct	**Effective:** 05/09 **Reviewed/Revised:** 12/22
Standard: MSP004-2	**Approved: MEC** 12/22 **BOT** 1/23

I acknowledge that I have received and read this Practitioner Code of Conduct. I acknowledge that hospitals are required to define and address disruptive and inappropriate conduct to comply with The Joint Commission standards for accreditation. I agree to adhere to the guidelines in this Code and conduct myself in a professional manner. I further understand that failure to behave in a professional fashion may result in disciplinary actions set forth in the RoadMap for Handling Reports of Disruptive or Unprofessional Behavior or as determined by the Medical Executive Committee pursuant to the Medical Staff Bylaws.

Printed name Victoria Chew

Signature: Signed by: Victoria Chew E00FB1014487405... Date: 9/22/2025 | 1:23 PM PDT

Docusign Envelope ID: 237D9975-4CD9-48E3-9825-D946D02A6AB2

Exhibit 2.1

COMPENSATION

1. **Professional Services.** Hospital shall pay to Contractor the amount of One Hundred Sixteen Dollars ($116) per hour for those Professional Services rendered by Contractor to Patients while providing on-site coverage for Hospital's labor and delivery unit; provided, however, that Contractor is in compliance with the terms and conditions of this Agreement.

2. **Professional Liability Reimbursement.** In the event that Contractor does not purchase the professional liability insurance set forth in the Agreement, Hospital will deduct Twenty-One Dollars and Ninety Cents ($21.90) per day worked by Contractor to compensate for Hospital's payment of professional liability insurance premiums on behalf of Contractor.

3. **Timing.** Hospital shall pay the compensation due for Services performed by Contractor after Contractor's submission of the monthly invoice of preceding month's activity and time report in accordance with this Agreement; provided, however, that if Contractor does not submit an invoice and time sheet within sixty (60) days of the end of the month during which Services were performed, Hospital shall not be obligated to pay Contractor for Services performed during that month. The County of Monterey Standard Payment Terms for contracts/PSAs and paying invoices is "30 days after receipt of the certified invoice in the Auditor-Controller's Office".

Monterey County
Board of Supervisors

168 West Alisal Street,
1st Floor
Salinas, CA 93901
831.755.5066
www.co.monterey.ca.us

Board Order

A motion was made by Supervisor Mary L. Adams, seconded by Supervisor Wendy Root Askew to:

Agreement No.: A-14569 ; Amendment No.: 3
a. Authorize the Chief Executive Officer for Natividad Medical Center (NMC) or his designee to execute the Third Amendment to the Professional Services Agreement (A-14569) with Victoria Chew, M.D. to provide family medicine services, extending the term by twenty-four months (January 1, 2024 to December 31, 2025) for a revised full agreement term of November 1, 2018 to December 31, 2025, but with no change to the aggregate not to exceed amount of $400,000; and
b. Authorize the Chief Executive Officer for Natividad Medical Center (NMC) or his designee to sign up to three (3) future amendments to this Agreement where the total amendments do not significantly change the scope of work, do not exceed 10% ($10,000) of the original contract amount and do not increase the total contract amount above $410,000.

PASSED AND ADOPTED on this 5th day of December 2023, by roll call vote:

AYES: Supervisors Alejo, Church, Lopez, Askew, and Adams
NOES: None
ABSENT: None

I, Valerie Ralph, Clerk of the Board of Supervisors of the County of Monterey, State of California, hereby certify that the foregoing is a true copy of an original order of said Board of Supervisors duly made and entered in the minutes thereof of Minute Book 82 for the meeting December 5, 2023.

Dated: December 13, 2023
File ID: A 23-521
Agenda Item No.: 21

Valerie Ralph, Clerk of the Board of Supervisors
County of Monterey, State of California

Vicente Ramirez, Deputy

DocuSign Envelope ID: 5182E8ED-A536-4806-BBA5-884272E39F91

THIRD AMENDMENT TO PROFESSIONAL SERVICESAGREEMENT

THIS THIRD AMENDMENT TO PROFESSIONAL SERVICE AGREEMENT (the **"Amendment"**) is made and entered into as of January 1, 2024 by and between COUNTY OF MONTEREY (**"County"**) on behalf of NATIVIDAD MEDICAL CENTER (**"Hospital"**), and VICTORIA CHEW, M.D., an individual (**"Contractor")** with respect to the following:

RECITALS

A. County owns and operates Hospital, a general acute care teaching hospital facility located in Salinas, California under its acute care license.

B. Contractor and Hospital have entered into that certain Professional Services Agreement dated effective as of November 1, 2018, and as amended effective January 1, 2020, and January 1, 2022 (collectively, the **"Agreement"**), pursuant to which Contractor provides Specialty services to Hospital's Patients.

C. Hospital and Contractor desire to amend the Agreement to extend the term by twenty-four (24) months and increase the hourly rate for Professional Services compensation as set herein.

AGREEMENT

IN CONSIDERATION of the foregoing recitals and the mutual promises and covenants contained herein, Hospital and Contractor agree as follows:

1. **Defined Terms**. Capitalized terms not otherwise defined herein shall have the meaning ascribed to them in the Agreement.

2. **Section 5.1**. Section 5.1 to the Agreement is hereby amended and restated to read in its entirety as follows:

> **"5.1 Term**. This Agreement shall become effective on November 1, 2018 (the **"Effective Date"**), and shall continue until December 31, 2025 (the **"Expiration Date"**), subject to the termination provisions of this Agreement.**"**

3. **Exhibit 2.1**. Exhibit 2.1 to the Agreement shall be deleted and replaced in its entirety and attached hereto as Exhibit 2.1.

4. **Counterparts**. This Amendment may be executed in one or more counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.

5. **Continuing Effect of Agreement**. Except as herein provided, all of the terms and conditions of the Agreement remain in full force and effect from the Effective Date of the Agreement.

DocuSign Envelope ID: 5182E8ED-A536-4806-BBA5-884272E39F91

6. **Reference**. After the date of this Amendment, any reference to the Agreement shall mean the Agreement as amended by this Amendment.

[signature page follows]

DocuSign Envelope ID: 5182E8ED-A536-4806-BBA5-884272E39F91

IN WITNESS WHEREOF, Hospital and Contractor have executed this Amendment as of the day and year first written above.

CONTRACTOR

VICTORIA CHEW, M.D., an individual

DocuSigned by:
Victoria Chew
E00FB1014487405...

Date: 10/19/2023 | 9:32 AM PDT

NATIVIDAD MEDICAL CENTER

DocuSigned by:
Charles R. Harris
4E1F837D204E481...

Date: 12/13/2023 | 11:03 AM PST

Deputy Purchasing Agent

APPROVED AS TO LEGAL PROVISIONS:

DocuSigned by:
Stacy Saetta
C0ECE1B99F444A9...

Date: 10/19/2023 | 10:59 AM PDT

Stacy Saetta, Deputy County Counsel

APPROVED AS TO FISCAL PROVISIONS:

DocuSigned by:
Patricia Ruiz
E79EF64E5745456...

Date: 10/20/2023 | 7:15 AM PDT

Deputy Auditor/Controller

DocuSign Envelope ID: 5182E8ED-A536-4806-BBA5-884272E39F91

Exhibit 2.1

COMPENSATION

1. **Professional Services.** Hospital shall pay to Contractor the amount of One Hundred Twelve Dollars ($112) per hour for those Professional Services rendered by Contractor to Patients while providing on-site coverage for Hospital's labor and delivery unit; provided, however, that Contractor is in compliance with the terms and conditions of this Agreement.

2. **Professional Liability Reimbursement.** In the event that Contractor does not purchase the professional liability insurance set forth in the Agreement, Hospital will deduct Twenty-One Dollars and Ninety Cents ($21.90) per day worked by Contractor to compensate for Hospital's payment of professional liability insurance premiums on behalf of Contractor. This amount reflects the then-current rate, rates are subject to change.

3. **Timing.** Hospital shall pay the compensation due for Services performed by Contractor after Contractor's submission of the monthly invoice of preceding month's activity and time report in accordance with this Agreement; provided, however, that if Contractor does not submit an invoice and time sheet within sixty (60) days of the end of the month during which Services were performed, Hospital shall not be obligated to pay Contractor for Services performed during that month. The County of Monterey Standard Payment Terms for contracts/PSAs and paying invoices is "30 days after receipt of the certified invoice in the Auditor-Controller's Office".

Monterey County
Board of Supervisors

168 West Alisal Street,
1st Floor
Salinas, CA 93901
831.755.5066
www.co.monterey.ca.us

Board Order

A motion was made by Supervisor Chris Lopez, seconded by Supervisor John M. Phillips to:

Agreement No.: A-14569; Amendment No. 2
a. Authorize the Interim Chief Executive Officer for Natividad or his designee to execute the Second Amendment to the Professional Services Agreement (A-14569) with Victoria Chew, M.D. to provide family medicine services, extending the term by twenty-four months (January 1, 2022 to December 31, 2023) for a revised full agreement term of November 1, 2018 to December 31, 2023, and adding $100,000 for a revised total not to exceed amount of $400,000 in the aggregate; and
b. Authorize the Interim Chief Executive Officer for Natividad or his designee to sign up to three (3) future amendments to this Agreement where the total amendments do not exceed 10% ($10,000) of the original contract amount and do not significantly change the scope of work.

PASSED AND ADOPTED on this 7th day of December 2021, by roll call vote:

AYES: Supervisors Alejo, Phillips, Lopez, Askew and Adams
NOES: None
ABSENT: None
(Government Code 54953)

I, Valerie Ralph, Clerk of the Board of Supervisors of the County of Monterey, State of California, hereby certify that the foregoing is a true copy of an original order of said Board of Supervisors duly made and entered in the minutes thereof of Minute Book 82 for the meeting December 7, 2021.

Dated: December 13, 2021
File ID: A 21-578
Agenda Item No.: 52

Valerie Ralph, Clerk of the Board of Supervisors
County of Monterey, State of California

Julian Lorenzana, Deputy

SECOND AMENDMENT TO PROFESSIONAL SERVICESAGREEMENT

THIS SECOND AMENDMENT TO PROFESSIONAL SERVICE AGREEMENT (the **"Amendment"**) is made and entered into as of January 1, 2022 by and between COUNTY OF MONTEREY (**"County"**) on behalf of NATIVIDAD MEDICAL CENTER (**"Hospital"**), and VICTORIA CHEW, M.D., an individual (**"Contractor")** with respect to the following:

RECITALS

A. County owns and operates Hospital, a general acute care teaching hospital facility located in Salinas, California under its acute care license.

B. Contractor and Hospital have entered into that certain Professional Services Agreement dated effective as of November 1, 2018 and as amended January 1, 2020 (collectively, the **"Agreement"**), pursuant to which Contractor provides Specialty services to Hospital's Patients.

C. Hospital and Contractor desire to amend the Agreement to extend the term by twenty-four (24) months and to increase aggregate compensation amount by One Hundred Thousand Dollars ($100,000), as set forth below.

AGREEMENT

IN CONSIDERATION of the foregoing recitals and the mutual promises and covenants contained herein, Hospital and Contractor agree as follows:

1. **Defined Terms**. Capitalized terms not otherwise defined herein shall have the meaning ascribed to them in the Agreement.

2. **Section 2.1**. Section 2.1 to the Agreement is hereby amended and restated to readin its entirety as follows:

> **"2.1 Compensation.** Hospital shall pay to Contractor the amount determined in accordance with **Exhibit 2.1** (the **"Compensation"**), upon the terms and conditions set forth therein. The total amount payable by Hospital to Contractor under this Agreement shall not exceed the aggregate sum of Four Hundred Thousand Dollars ($400,000)."

3. **Section 5.1**. Section 5.1 to the Agreement is hereby amended and restated to read in its entirety as follows:

> **"5.1 Term.** This Agreement shall become effective on November 1, 2018 (the **"Effective Date"**), and shall continue until December 31, 2023 (the **"Expiration Date"**), subject to the termination provisions of this Agreement."

4. **Exhibit 2.1**. Exhibit 2.1 to the Agreement shall be deleted and replaced in its entirety as attached hereto as Exhibit 2.1.

5. **Counterparts**. This Amendment may be executed in one or more counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.

6. **Continuing Effect of Agreement**. Except as herein provided, all of the terms and conditions of the Agreement remain in full force and effect from the Effective Date of the Agreement.

7. **Reference**. After the date of this Amendment, any reference to the Agreement shall mean the Agreement as amended by this Amendment.

[signature page follows]

IN WITNESS WHEREOF, Hospital and Contractor have executed this Amendment as of the day and year first written above.

CONTRACTOR

VICTORIA CHEW, M.D., an individual

Date: 11/21/2021

NATIVIDAD MEDICAL CENTER

Charles R. Harris
Deputy Purchasing Agent

Date: 12/15/21

APPROVED AS TO LEGAL PROVISIONS:

Stacy Saetta, Deputy County Counsel

Date: 11/23/2021

APPROVED AS TO FISCAL PROVISIONS:

Gary Gibonsey
Deputy Auditor/Controller

Date: 11/23/2021

Exhibit 2.1

COMPENSATION

1. **Professional Services.** Hospital shall pay to Contractor the amount of One Hundred Eight Dollars ($108) per hour for those Professional Services rendered by Contractor to Patients while providing on-site coverage for Hospital's labor and delivery unit; provided, however, that Contractor is in compliance with the terms and conditions of this Agreement.

2. **Professional Liability Reimbursement.** In the event that Contractor does not purchase the professional liability insurance set forth in the Agreement, Hospital will deduct Twenty-One Dollars and Ninety Cents $21.90) per day worked by Contractor to compensate for Hospital's payment of professional liability insurance premiums on behalf of Contractor.

3. **Timing.** Hospital shall pay the compensation due for Services performed by Contractor after Contractor's submission of the monthly invoice of preceding month's activity and time report in accordance with this Agreement; provided, however, that if Contractor does not submit an invoice and time sheet within sixty (60) days of the end of the month during which Services were performed, Hospital shall not be obligated to pay Contractor for Services performed during that month. The County of Monterey Standard Payment Terms for contracts/PSAs and paying invoices is "30 days after receipt of the certified invoice in the Auditor-Controller's Office".

Monterey County
Board of Supervisors

168 West Alisal Street,
1st Floor
Salinas, CA 93901
831.755.5066
www.co.monterey.ca.us

Board Order

A motion was made by Supervisor Chris Lopez, seconded by Supervisor Luis A. Alejo to:

Agreement No. A-14569
a. Authorize the Deputy Purchasing Agent for Natividad Medical Center (NMC) or his designee to execute the First Amendment to the Professional Services Agreement with Victoria Chew, M.D. to provide family medicine services at NMC, extending the term by twenty-four months (January 1, 2020 to December 31, 2021) for a revised full agreement term of November 1, 2018 to December 31, 2021, and adding $200,000 for a revised total not to exceed amount of $300,000 in the aggregate; and
b. Authorize the Deputy Purchasing Agent for NMC or his designee to sign up to three (3) future amendments to this Agreement where the total amendments do not exceed 10% ($10,000) of the original contract amount and do not significantly change the scope of work.

PASSED AND ADOPTED on this 10th day of December 2019, by the following vote, to wit:

AYES: Supervisors Alejo, Lopez, Phillips, Parker and Adams
NOES: None
ABSENT: None

I, Valerie Ralph, Clerk of the Board of Supervisors of the County of Monterey, State of California, hereby certify that the foregoing is a true copy of an original order of said Board of Supervisors duly made and entered in the minutes thereof of Minute Book 82 for the meeting December 10, 2019.

Dated: December 17, 2019
File ID: A 19-413
Agenda Item No.: 39

Valerie Ralph, Clerk of the Board of Supervisors
County of Monterey, State of California

Julian Lorenzana, Deputy

FIRST AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT

THIS FIRST AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT (the **"Amendment"**) is made and entered into as of January 1, 2020, by and between COUNTY OF MONTEREY (**"County"**) on behalf of NATIVIDAD MEDICAL CENTER (**"Hospital"**), and VICTORIA CHEW, M.D., an individual (**"Contractor"**) with respect to the following:

RECITALS

A. County owns and operates Hospital, a general acute care teaching hospital facility located in Salinas, California under its acute care license.

B. Contractor and Hospital have entered into that certain Professional Services Agreement dated November 1, 2018 (the **"Agreement"**) pursuant to which Contractor provides services in the Specialty to Patients of Hospital.

C. Hospital and Contractor desire to amend the Agreement to extend the term by twenty-four (24) months and to increase aggregate compensation amount by Two Hundred Thousand Dollars ($200,000).

AGREEMENT

IN CONSIDERATION of the foregoing recitals and the mutual promises and covenants contained herein, Hospital and Contractor agree as follows:

1. **Defined Terms**. Capitalized terms not otherwise defined herein shall have the meaning ascribed to them in the Agreement.

2. **Section 2.1**. Section 2.1 to the Agreement is hereby amended and restated to read in its entirety as follows:

> **"2.1 Compensation.** Hospital shall pay to Contractor the amount determined in accordance with **Exhibit 2.1** (the **"Compensation"**), upon the terms and conditions set forth therein. The total amount payable by Hospital to Contractor under this Agreement shall not exceed the aggregate amount of Three Hundred Thousand Dollars ($300,000)."

3. **Section 5.1**. Section 5.1 to the Agreement is hereby amended and restated to read in its entirety as follows:

> **"5.1 Term.** This Agreement shall become effective on November 1, 2018 (the **"Effective Date"**), and shall continue until December 31, 2021 (the **"Expiration Date"**), subject to the termination provisions of this Agreement."

4. **Counterparts**. This Amendment may be executed in one or more counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.

5. **Continuing Effect of Agreement**. Except as herein provided, all of the terms and conditions of the Agreement remain in full force and effect from the Effective Date of the Agreement.

6. **Reference**. After the date of this Amendment, any reference to the Agreement shall mean the Agreement as amended by this Amendment.

[signature page follows]

IN WITNESS WHEREOF, Hospital and Contractor have executed this Amendment as of the day and year first written above.

CONTRACTOR

VICTORIA CHEW, M.D an individual

_____ Date: October 21, 2019

NATIVIDAD MEDICAL CENTER

_____ Date: 12/16, 2019
Deputy Purchasing Agent

APPROVED AS TO LEGAL PROVISIONS:

_____ Date: 11/1, 2019
Stacy Saetta, Deputy County Counsel

APPROVED AS TO FISCAL PROVISIONS:

_____ Date: 11-8, 2019
Deputy Auditor/Controller

PROFESSIONAL SERVICES AGREEMENT

by and between

NATIVIDAD MEDICAL CENTER ("Hospital")

and

VICTORIA CHEW, M.D. ("Contractor")

PROFESSIONAL SERVICES AGREEMENT

THIS PROFESSIONAL SERVICES AGREEMENT (this **"Agreement"**) is entered into as of November 1, 2018, by and between COUNTY OF MONTEREY (**"County"**) on behalf of NATIVIDAD MEDICAL CENTER (**"Hospital"**), and VICTORIA CHEW, M.D., an individual (**"Contractor"**). County, Hospital and Contractor are sometimes referred to in this Agreement as a **"Party"** or, collectively, as the **"Parties."**

RECITALS

A. County owns and operates Hospital, a general acute care teaching hospital facility located in Salinas, California under its acute care license.

B. Contractor is duly licensed to practice medicine in the State of California (the **"State"**). Contractor is board certified for the practice of medicine in the specialty of family practice with obstetrics (the **"Specialty"**).

C. Hospital must arrange for the provision of professional consultation and treatment of patients who are admitted as Hospital inpatients to Hospital's labor and delivery unit in need of medical care or treatment in the Specialty, including inpatient and outpatient procedures performed in Hospital's operating room (collectively, the **"Patients"**) without regard to any consideration other than medical condition.

AGREEMENT

THE PARTIES AGREE AS FOLLOWS:

ARTICLE I.
CONTRACTOR'S OBLIGATIONS

1.1 Professional Services. Contractor shall provide the professional services described in **Exhibit 1.1** (the **"Professional Services"**) to Patients, upon the terms and subject to the conditions set forth in this Agreement.

1.2 Teaching Services. Contractor shall provide to Hospital those teaching services set forth in **Exhibit 1.2** (collectively, the **"Teaching Services"**). Contractor shall not be separately compensated for the provision of Teaching Services under this Agreement.

1.3 Additional Services. Contractor shall provide to Hospital those additional services set forth in **Exhibit 1.3** (the **"Additional Services"**), upon the terms and subject to the conditions set forth in this Agreement. The Professional Services, Teaching Services and Additional Services are sometimes referred to collectively in this Agreement as the **"Services."**

1.4 Personal Services. This Agreement is entered into by Hospital in reliance on the professional skills of Contractor. Contractor shall be solely responsible for performing the Services and otherwise fulfilling the terms of this Agreement, except as specifically set forth in this Agreement.

1.5 Time Commitment. Contractor shall allocate time among the Professional Services, Teaching Services and Additional Services as reasonably requested by Hospital from time to time.

1.6 Availability. On or before the first (1st) day of each month, Contractor shall inform Hospital of Contractor's schedule of availability to perform the Services during the following month. Contractor shall use his or her best efforts to adjust such schedule of availability if reasonably requested by Hospital in order to meet Hospital's needs for the Services.

Absences. If Contractor is unable or reasonably expected to be unable to provide the Services for any reason, Contractor shall designate a qualified replacement to provide the Services on behalf of Contractor, subject to the prior written approval of Hospital. Contractor shall ensure that any such designated replacement meets any and all obligations and requirements of Contractor under this Agreement. Except in the event of absence due to illness or disability, Hospital shall have the right to approve the length of Contractor's absence, and any unapproved absence shall constitute a breach of this Agreement.

1.7 Time Reports. Contractor shall maintain and submit to Hospital monthly time sheets that provide a true and accurate accounting of time spent on a daily basis providing the Services. Such time sheets shall be on the then-current form provided by Hospital attached hereto as **Exhibit 1.8**. Contractor shall submit all such time sheets to Hospital no later than the tenth (10th) day of each month for Services provided by Contractor during the immediately preceding month.

1.8 Medical Staff. Contractor shall be a member in good standing and active on the Hospital's Medical Staff and have and maintain all clinical privileges at Hospital necessary for the performance of Contractor's obligations under this Agreement. If, as of the Effective Date (as defined in Section 5.1), Contractor is not a member in good standing or active on the Medical Staff or does not hold all clinical privileges at Hospital necessary for the performance of Contractor's obligations hereunder, Contractor shall have a reasonable amount of time, which in no event shall exceed sixty (60) calendar days from the Effective Date, to obtain such membership and/or clinical privileges; provided, however, that Hospital may immediately terminate this Agreement if Hospital determines that Contractor is not diligently pursuing such membership and/or clinical privileges in accordance with the normal procedures set forth in the Medical Staff bylaws. Contractor may obtain and maintain medical staff privileges at any other hospital or health care facility at Contractor's sole expense.

1.9 Professional Qualifications. Contractor shall have and maintain an unrestricted license to practice medicine in the State. Contractor shall be board certified in the Specialty by the applicable medical specialty board approved by the American Board of Medical Specialties.

Contractor shall have and maintain a valid and unrestricted United States Drug Enforcement Administration (**"DEA"**) registration.

1.10 Review of Office of the Inspector General ("OIG") Medicare Compliance Bulletins. The OIG from time to time issues Medicare compliance alert bulletins. To the extent applicable to Contractor's performance under this Agreement, Contractor shall undertake to review, be familiar with and comply with all applicable requirements of such OIG compliance bulletins.

1.11 Performance Standards. Contractor shall comply with all bylaws, Medical Staff policies, rules and regulations of Hospital and the Medical Staff (collectively, the **"Hospital Rules"**), and all protocols applicable to the Services or the Hospital (the **"Protocols"**).

1.12 Code of Conduct. Contractor hereby acknowledges receipt of Hospital's Code of Conduct which is attached to this Agreement as **Exhibit 1.13** (the **"Code"**), and agrees that Contractor has been given ample opportunity to read, review and understand the Code. With respect to Contractor's business dealings with Hospital and Contractor's performance of the Services described in this Agreement, Contractor shall not act in any manner which conflicts with or violates the Code, and shall not cause another person to act in any manner which conflicts with or violates the Code. Contractor shall comply with the Code as it relates to Contractor's business relationship with Hospital or any Affiliate, subsidiaries, employees, agents, servants, officers, directors, contractors and suppliers of every kind.

1.13 Continuing Medical Education. Contractor shall participate in continuing medical education as necessary to maintain licensure, professional competence and skills commensurate with the standards of the medical community and as otherwise required by the medical profession.

1.14 Use of Space. Contractor shall use Hospital's premises and space solely and exclusively for the provision of the Services, except in an emergency or with Hospital's prior written consent.

1.15 Notification of Certain Events. Contractor shall notify Hospital in writing within twenty-four (24) hours after the occurrence of any one or more of the following events:

(a) Contractor becomes the subject of, or materially involved in, any investigation, proceeding, or disciplinary action by: Medicare and Medicaid programs or any other Federal health care program, as defined at 42 U.S.C. Section 1320a-7b(f) (collectively, the **"Federal Health Care Programs"**) or state equivalent, any state's medical board, any agency responsible for professional licensing, standards or behavior, or any medical staff;

(b) Contractor's medical staff membership or clinical privileges at any hospital are denied, suspended, restricted, revoked or voluntarily relinquished, regardless of the availability of civil or administrative hearing rights or judicial review with respect thereto;

(c) Contractor becomes the subject of any suit, action or other legal proceeding arising out of Contractor's professional services;

(d) Contractor is required to pay damages or any other amount in any malpractice action by way of judgment or settlement;

(e) Contractor becomes the subject of any disciplinary proceeding or action before any state's medical board or similar agency responsible for professional standards or behavior;

(f) Contractor voluntarily or involuntarily retires from the practice of medicine;

(g) Contractor's license to practice medicine in the State is restricted, suspended or terminated, regardless of the availability of civil or administrative hearing rights or judicial review with respect thereto;

(h) Contractor is charged with or convicted of a criminal offense;

(i) any act of nature or any other event occurs which has a material adverse effect on Contractor's ability to provide the Services; or

(j) Contractor is debarred, suspended, excluded or otherwise ineligible to participate in any Federal Health Care Program or state equivalent.

1.16 Representations and Warranties by Contractor. Contractor represents and warrants that: (a) Contractor's license to practice medicine in any state has never been suspended, revoked or restricted; (b) Contractor has never been reprimanded, sanctioned or disciplined by any licensing board or medical specialty board; (c) Contractor has never been excluded or suspended from participation in, or sanctioned by, any Federal Health Care Program; (d) Contractor has never been denied membership and/or reappointment to the medical staff of any hospital or health care facility; (e) Contractor's medical staff membership or clinical privileges at any hospital or health care facility have never been suspended, limited or revoked for a medical disciplinary cause or reason; and (f) Contractor has never been charged with or convicted of a felony, a misdemeanor involving fraud, dishonesty, controlled substances, or moral turpitude, or any crime relevant to the provision of medical services or the practice of medicine.

1.17 Nondiscrimination. Contractor shall not differentiate or discriminate in performing the Services on the basis of race, religion, creed, color, national origin, ancestry, sex, physical disability, mental disability, medical condition, marital status, age, sexual orientation or payor, or on any other basis prohibited by applicable law.

1.18 Non-Exclusive Services. The Services provided by Contractor hereunder are intended to be non-exclusive. Notwithstanding the above, during the term of this Agreement, Contractor shall undertake to retain the service capacity necessary to provide those Services described in this Agreement, to the extent necessary to serve the reasonably foreseeable patient needs for medical care at Hospital and the administrative services hereunder.

1.19 Compliance with Grant Terms. If this Agreement has been or will be funded with monies received by Hospital or County pursuant to a contract with the state or federal

government or private entity in which Hospital or County is the grantee, Contractor shall comply with all the provisions of said contract, and said provisions shall be deemed a part of this Agreement, as though fully set forth herein. Upon request, Hospital shall deliver a copy of said contract to Contractor at no cost to Contractor.

1.20 Medical Records and Claims.

(a) Contractor shall prepare complete, timely, accurate and legible medical and other records with respect to the services and treatment furnished to patients, in accordance with the Hospital Rules, federal and state laws and regulations, and standards and recommendations of such nationally recognized accrediting organization as Hospital designates from time to time. All such information and records relating to any patient shall be: (i) prepared on forms developed, provided or approved by Hospital; (ii) the sole property of Hospital; and (iii) maintained at Hospital in accordance with the terms of this Agreement and for so long as is required by applicable laws and regulations.

(b) Contractor shall maintain and upon request provide to patients, Hospital, and state and federal agencies, all financial books and records and medical records and charts as may be necessary for Contractor and/or Hospital to comply with applicable state, federal, and local laws and regulations and with contracts between Hospital and third party payors. Contractor shall cooperate with Hospital in completing such claim forms for patients as may be required by insurance carriers, health care service plans, governmental agencies, or other third party payors. Contractor shall retain all such records and information for at least ten (10) years following the expiration or termination of this Agreement. This Section 1.21 (b) shall survive the expiration or termination of this Agreement.

1.21 Records Available to Contractor. Both during and after the term of this Agreement, Hospital shall permit Contractor and Contractor's agents to inspect and/or duplicate, at Contractor's sole cost and expense, any medical chart and record to the extent necessary to meet Contractor's professional responsibilities to patients, to assist in the defense of any malpractice or similar claim to which such chart or record may be pertinent, and/or to fulfill requirements pursuant to provider contracts to provide patient information; provided, however, such inspection or duplication is permitted and conducted in accordance with applicable legal requirements and pursuant to commonly accepted standards of patient confidentiality. Contractor shall be solely responsible for maintaining patient confidentiality with respect to any information which Contractor obtains pursuant to this Section.

ARTICLE II.
COMPENSATION

2.1 Compensation. Hospital shall pay to Contractor the amount determined in accordance with **Exhibit 2.1** (the **"Compensation"**), upon the terms and conditions set forth therein. The total amount payable by Hospital to Contractor under this Agreement shall not exceed the sum of One Hundred Thousand Dollars ($100,000).

2.2 Billing and Collection. Hospital shall have the sole and exclusive right to bill and collect for any and all Professional Services rendered to Patients by Contractor under this

Agreement (the **"NMC Services"**). Hospital shall have the sole and exclusive right, title and interest in and to accounts receivable with respect to such NMC Services.

(a) **Assignment of Claims.** Contractor hereby assigns (or reassigns, as the case may be) to Hospital all claims, demands and rights of Contractor for any and all NMC Services rendered by Contractor pursuant to this Agreement. Contractor shall take such action and execute such documents (e.g., CMS Forms 855R and 855I), as may be reasonably necessary or appropriate to effectuate the assignment (or reassignment, as the case may be) to Hospital of all claims, demands and rights of Contractor for any and all NMC Services rendered by Contractor pursuant to this Agreement.

(b) **Cooperation with Billing and Collections.** Contractor shall cooperate with Hospital in the billing and collection of fees with respect to NMC Services rendered by Contractor. Without limiting the generality of the foregoing, Contractor shall cooperate with Hospital in completing such claim forms with respect to NMC Services rendered by Contractor pursuant to this Agreement as may be required by insurance carriers, health care service plans, governmental agencies, or other third party payors.

(c) **Hospital as Exclusive Source for Compensation for NMC Services.** Contractor shall seek and obtain compensation for the performance of NMC Services only from Hospital. Contractor shall not, bill, assess or charge any fee, assessment or charge of any type against any Hospital patient or any other person or entity for NMC Services rendered by Contractor pursuant to this Agreement. Contractor shall promptly deliver to Hospital any and all compensation, in whatever form, that is received by Contractor for NMC Services rendered by Contractor pursuant to this Agreement, including any amount received from any Managed Care Organization (as defined below) for NMC Services rendered by Contractor pursuant to this Agreement.

(d) **Joint and Several Liability**. Hospital and Contractor acknowledge that they will be jointly and severally liable for any Federal Health Care Program overpayments relating to claims with respect to NMC Services furnished by Contractor pursuant to this Agreement. The foregoing is not intended and shall not be construed to diminish, limit, alter or otherwise modify in any way the Parties' respective indemnification obligations under this Agreement.

(e) **Indemnification for Billing Information.** Contractor hereby agrees to indemnify County, Hospital, its officers, supervisors, trustees, employees and agents, from and against any and all liability, cost, loss, penalty or expense (including, without limitation, attorneys' fees and court costs) incurred by Hospital resulting from negligent acts or negligent omissions of Contractor which result in inaccurate and/or improper billing information furnished by Contractor and relied on by Hospital regarding Professional Services rendered by Contractor to Patients, to the extent such liability, cost, loss, penalty or expense exceeds the amount of payment or reimbursement actually received by Hospital for such services.

2.3 Third Party Payor Arrangements.

(a) Contractor shall cooperate in all reasonable respects necessary to facilitate Hospital's entry into or maintenance of any third party payor arrangements for the provision of services under Federal Health Care Programs or any other public or private health and/or hospital care programs, including insurance programs, self-funded employer health programs, health care service plans and preferred provider organizations.

(b) To enable Hospital to participate in any third party payor arrangement, Contractor shall, not more than ten (10) business days following Hospital's request:

(i) Initiate enrollment as a provider (if required by the third party payor), separate from Hospital, with any third party payor or intermediate organization (including any independent practice association) (each, a **"Managed Care Organization"**) designated by Hospital for the provision of Professional Services to Hospital patients covered by such Managed Care Organization;

(ii) Complete any documents (e.g., CAQH Universal Provider Datasource form) as may be reasonably necessary or appropriate to effectuate enrollment;

(iii) Enter into a written agreement with such Managed Care Organization as may be necessary or appropriate for the provision of Professional Services to Hospital patients covered by such Managed Care Organization; and/or

(iv) Enter into a written agreement with Hospital regarding global billing, capitation or other payment arrangements as may be necessary or appropriate for the provision of Professional Services to Hospital patients covered by such Managed Care Organization.

ARTICLE III.
INSURANCE AND INDEMNITY

3.1 Evidence of Coverage. Prior to commencement of this Agreement, the Contractor shall provide a "Certificate of Insurance" certifying that coverage as required herein has been obtained. Individual endorsements executed by the insurance carrier shall accompany the certificate. In addition, the Contractor upon request shall provide a certified copy of the policy or policies. This verification of coverage shall be sent to Hospital's Medical Staff Office, unless otherwise directed. The Contractor shall not receive a "Notice to Proceed" with the work under this Agreement until it has obtained all insurance required and Hospital has approved such insurance. This approval of insurance shall neither relieve nor decrease the liability of the Contractor.

3.2 Qualifying Insurers. All coverages except surety, shall be issued by companies which hold a current policy holder's alphabetic and financial size category rating of not less than A-VII, according to the current Best's Key Rating Guide or a company of equal financial stability that is approved by Hospital's Contracts/Purchasing Director.

3.3 Insurance Coverage Requirements. Without limiting Contractor's duty to indemnify, Contractor shall maintain in effect throughout the term of this Agreement, at Contractor's sole cost and expense, a policy or policies of insurance with the following minimum limits of liability:

(a) **Professional liability insurance**, covering Contractor with coverage of not less than One-Million Dollars ($1,000,000) per physician per occurrence and Three-Million Dollars ($3,000,000) per physician in the aggregate; or such other amount(s) of professional liability insurance as may be required by Article 2.2-1 of Hospital's Medical Staff Bylaws from time to time, to cover liability for malpractice and/or errors or omissions made in the course of rendering services under this Agreement. If any professional liability insurance covering Contractor is procured on a "Claims Made" rather than "Occurrence" basis, then Contractor shall either continue such coverage or obtain extended reporting coverage (**"Tail Coverage"**), as appropriate, upon the occurrence of any of the following: (i) termination or expiration of this Agreement; (ii) change of coverage if such change shall result in a gap in coverage; or (iii) amendment, reduction or other material change in the then existing professional liability coverage of Contractor if such amendment, reduction or other material change will result in a gap in coverage. Any Tail Coverage shall have liability limits in the amount set forth above and shall in all events continue in existence until the greater of: (a) three (3) years or (b) the longest statute of limitations for professional and general liability for acts committed has expired. All insurance required by this Agreement shall be with a company acceptable to County and issued and executed by an admitted insurer authorized to transact insurance business in the State.

(b) **Commercial general liability insurance**, including but not limited to premises and operations, including coverage for Bodily Injury and Property Damage, Personal Injury, Contractual Liability, Broad form Property Damage, Independent Contractors, Products and Completed Operations, with a combined single limit for Bodily Injury and Property Damage of not less than One Million Dollars ($1,000,000) per occurrence.

☐ Exemption/Modification (Justification attached; subject to approval).

(c) **Business automobile liability insurance**, covering all motor vehicles, including owned, leased, non-owned, and hired vehicles, used in providing services under this Agreement, with a combined single limit for Bodily Injury and Property Damage of not less than One Million Dollars ($1,000,000) per occurrence.

☐ Exemption/Modification (Justification attached; subject to approval).

(d) **Workers' Compensation Insurance**, if Contractor employs others in the performance of this Agreement, in accordance with California Labor Code Section 3700 and with Employer's Liability limits not less than One Million Dollars ($1,000,000) each person, One Million Dollars ($1,000,000) each accident and One Million Dollars ($1,000,000) each disease.

☐ Exemption/Modification (Justification attached; subject to approval).

3.4 Other Insurance Requirements. All insurance required by this Agreement shall be with a company acceptable to Hospital and issued and executed by an admitted insurer authorized to transact insurance business in the State. Unless otherwise specified by this Agreement, all such insurance shall be written on an occurrence basis, or, if the policy is not written on an occurrence basis, such policy with the coverage required herein shall continue in effect for a period of three (3) years following the date Contractor completes its performance of services under this Agreement.

Each liability policy shall provide that Hospital shall be given notice in writing at least thirty (30) days in advance of any endorsed reduction in coverage or limit, cancellation, or intended non-renewal thereof. Each policy shall provide coverage for Contractor and additional insured with respect to claims arising from each subcontractor, if any, performing work under this Agreement, or be accompanied by a certificate of insurance from each subcontractor showing each subcontractor has identical insurance coverage to the above requirements.

Commercial general liability and automobile liability policies shall provide an endorsement naming the County of Monterey, its officers, agents, and employees as Additional Insureds with respect to liability arising out of the Contractor's work, including ongoing and completed operations, and shall further provide that such insurance is primary insurance to any insurance or self-insurance maintained by the County and that the insurance of the Additional Insureds shall not be called upon to contribute to a loss covered by the Contractor's insurance. The required endorsement from for Commercial General Liability Additional Insured is ISO Form CG 20 10 11-85 or CG 20 10 10 01 in tandem with CG 20 37 10 01 (2000). The required endorsement from for Automobile Additional Insured Endorsement is ISO Form CA 20 48 02 99.

Prior to the execution of this Agreement by Hospital, Contractor shall file certificates of insurance with Hospital's Medical Staff Office, showing that the Contractor has in effect the insurance required by this Agreement. The Contractor shall file a new or amended certificate of insurance within five (5) calendar days after any change is made in any insurance policy, which would alter the information on the certificate then on file. Acceptance or approval of insurance shall in no way modify or change the indemnification clause in this Agreement, which shall continue in full force and effect.

Contractor shall at all times during the term of this Agreement maintain in force the insurance coverage required under this Agreement and shall send, without demand by Hospital, annual certificates to Hospital's Medical Staff Office. If the certificate is not received by the expiration date, Hospital shall notify Contractor and Contractor shall have five (5) calendar days to send in the certificate, evidencing no lapse in coverage during the interim. Failure by Contractor to maintain such insurance is a default of this Agreement, which entitles Hospital, at its sole discretion, to terminate the Agreement immediately.

3.5 Right to Offset Insurance Costs.

(a) In the event that Contractor does not purchase or otherwise have the liability insurance set forth in this Section at any time during the term of this Agreement, and without limiting any rights or remedies of County, County may at its option and within its sole discretion provide the liability insurance required by this Section and continue to pay the premiums therefor. If Contractor does not promptly reimburse all such amounts, then County shall have the right to withhold and offset the compensation due to Contractor under this Agreement, in addition to such other rights or privileges as County may have at law or in equity.

(b) The County's option to provide such insurance and to offset the compensation otherwise due to the Contractor shall also apply to the "Tail Coverage" referenced in Section 3.3, including for general liability if during the term of the Agreement such coverage has been written on a claims made basis, which is required to remain effective after the expiration or termination of this Agreement for any reason.

3.6 Indemnification.

(a) **Indemnification by Contractor.** Contractor shall indemnify, defend, and hold harmless County, its officers, agents, and employees, from and against any and all claims, liabilities, and losses whatsoever (including damages to property and injuries to or death of persons, court costs, and reasonable attorneys' fees) occurring or resulting to any and all persons, firms or corporations furnishing or supplying work, services, materials, or supplies in connection with the performance of this Agreement, and from any and all claims, liabilities, and losses occurring or resulting to any person, firm, or corporation for damage, injury, or death arising out of or connected with Contractor's performance of this Agreement, unless such claims, liabilities, or losses arise out of the sole negligence or willful misconduct of County. "Contractor's performance" includes Contractor's acts or omissions and the acts or omissions of Contractor's officers, employees, agents and subcontractors.

(b) **Indemnification by County.** County agrees to defend, indemnify, and hold harmless Contractor, to the extent permitted by applicable law, from and against any and all claims and losses whatsoever accruing or resulting to any person, firm or corporation for damages, injury or death arising out of or connected with any negligent act or omission or willful misconduct of County or any of its agents or employees.

3.7 Indemnification for Timely Payment of Tax Contributions. It is expressly agreed by the Parties hereto that no work, act, commission or omission of Contractor shall be construed to make or render Contractor the agent, employee or servant of County. Contractor agrees to indemnify, defend and hold harmless County and Hospital from and against any and all liability, loss, costs or obligations (including, without limitation, interest, penalties and attorney's fees in defending against the same) against County or Hospital based upon any claim that Contractor has failed to make proper and timely payment of any required tax contributions for itself, its employees, or its purported agents or independent contractors.

3.8 Hospital Services. Hospital shall retain professional and administrative responsibility for the operation of the Hospital, as and to the extent required by Title 22, California Code of Regulations, Section 70713. Hospital's retention of such responsibility is not intended and shall not be construed to diminish, limit, alter or otherwise modify in any way the obligations of Contractor under this Agreement, including, without limitation, the obligations under the insurance and indemnification provisions set forth in this Article III.

3.9 Survival of Obligations. The Parties' obligations under this Article III shall survive the expiration or termination of this Agreement for any reason.

ARTICLE IV.
RELATIONSHIP BETWEEN THE PARTIES

4.1 Independent Contractor.

(a) Contractor is and shall at all times be an independent contractor with respect to Hospital in the performance of Contractor's obligations under this Agreement. Nothing in this Agreement shall be construed to create an employer/employee, joint venture, partnership, lease or landlord/tenant relationship between Hospital and Contractor. Contractor shall not hold himself or herself out as an officer, agent or employee of Hospital, and shall not incur any contractual or financial obligation on behalf of Hospital without Hospital's prior written consent.

(b) If the Internal Revenue Service (**"IRS"**) or any other governmental agency should inquire about, question or challenge the independent contractor status of Contractor with respect to County, the Parties hereto mutually agree that: (i) each shall inform the other Party hereto of such inquiry or challenge; and (ii) County and Contractor shall each have the right to participate in any discussion or negotiation occurring with the taxing agency, regardless of who initiated such discussions or negotiations. In the event the taxing agency concludes that an independent contractor relationship does not exist, County may terminate this Agreement effective immediately upon written notice. In the event of such termination, the Parties remain free to negotiate an employer/employee contract.

4.2 Limitation on Control. Hospital shall neither have nor exercise any control or direction over Contractor's professional medical judgment or the methods by which Contractor performs professional medical services; provided, however, that Contractor shall be subject to and shall at all times comply with the Protocols and the bylaws, guidelines, policies and rules applicable to other members of the Medical Staff.

4.3 Practice of Medicine. Contractor and Hospital acknowledge that Hospital is neither authorized nor qualified to engage in any activity which may be construed or deemed to constitute the practice of medicine. To the extent that any act or service required of, or reserved to, Hospital in this Agreement is construed or deemed to constitute the practice of medicine, the performance of such act or service by Hospital shall be deemed waived or unenforceable, unless this Agreement can be amended to comply with the law, in which case the Parties shall make such amendment.

4.4 No Benefit Contributions. Hospital shall have no obligation under this Agreement to compensate or pay applicable taxes for, or provide employee benefits of any kind (including contributions to government mandated, employment-related insurance and similar programs) to, or on behalf of, Contractor or any other person employed or retained by Contractor. Notwithstanding the foregoing, if Hospital determines or is advised that it is required by law to compensate or pay applicable taxes for, or provide employee benefits of any kind (including contributions to government mandated, employment-related insurance and similar programs) to, or on behalf of, Contractor or any other person employed or retained by Contractor, Contractor shall reimburse Hospital for any such expenditure within thirty (30) calendar days after being notified of such expenditure.

4.5 Referrals. Contractor shall be entitled to refer patients to any hospital or other health care facility or provider deemed by Contractor best qualified to deliver medical services to any particular patient; provided, however, that Contractor shall not refer any Hospital patient to any provider of health care services which Contractor knows or should have known is excluded or suspended from participation in, or sanctioned by, any state or Federal Health Care Program. Nothing in this Agreement or in any other written or oral agreement between Hospital and Contractor, nor any consideration offered or paid in connection with this Agreement, contemplates or requires the admission or referral of any patients or business to Hospital or any Affiliate. In the event that any governmental agency, any court or any other judicial body of competent jurisdiction, as applicable, issues an opinion, ruling or decision that any payment, fee or consideration provided for hereunder is made or given in return for patient referrals, either Party may at its option terminate this Agreement with three (3) days' notice to the other Party. Contractor's rights under this Agreement shall not be dependent in any way on the referral of patients or business to Hospital or any Affiliate by Contractor or any person employed or retained by Contractor.

4.6 Form 1099 or W-2. If required to do so under applicable law, Hospital shall issue an Internal Revenue Service Form 1099 or Form W-2 to Contractor.

4.7 Contractor Compensation Arrangements. Contractor represents and warrants to Hospital that the compensation paid or to be paid by Contractor to any physician is and will at all times be fair market value for services and items actually provided by such physician, not taking into account the value or volume of referrals or other business generated by such physician for Hospital or any Affiliate. Contractor further represents and warrants to Hospital that Contractor has and will at all times maintain a written agreement with each physician receiving compensation from Contractor.

4.8 Cooperation.

(a) The Parties recognize that, during the term of this Agreement and for an undetermined time period thereafter, certain risk management issues, legal issues, claims or actions may arise that involve or could potentially involve the Parties and their respective employees and agents. The Parties further recognize the importance of cooperating with each other in good faith when such issues, claims or actions arise, to the extent such cooperation does not violate any applicable laws, cause the breach of any duties created by any policies of insurance or programs of self-insurance, or otherwise compromise the confidentiality of communications or information regarding the issues, claims or actions. As such, the Parties hereby agree to cooperate in good faith, using their best efforts, to address such risk management and legal issues, claims, or actions.

(b) The Parties further agree that if a controversy, dispute, claim, action or lawsuit (each, an **"Action"**) arises with a third party wherein both the Parties are included as defendants, each Party shall promptly disclose to the other Party in writing the existence and continuing status of the Action and any negotiations relating thereto. Each Party shall make every reasonable attempt to include the other Party in any settlement offer or negotiations. In the event the other Party is not included in the settlement, the settling Party shall immediately disclose to the other Party in writing the acceptance of any settlement and terms relating thereto, if allowed by the settlement agreement.

(c) Contractor shall cooperate with the individual designated by Hospital to have principal responsibility for the administration and operation of the Hospital. Such cooperation shall include supervision, selection, assignment, and evaluation of personnel; management and direction of equipment maintenance; development of budgets; and oversight of the acquisition of materials, supplies, and equipment.

(d) Contractor shall assist Hospital, as reasonably requested by Hospital, in Hospital's compliance with applicable laws and the standards, requirements, guidelines and recommendations of any governing or advisory body having authority to set standards relating to the operation of Hospital, or any nationally recognized accrediting organization that Hospital designates from time to time.

4.9 Contractor's Performance. County or Hospital, at its option and within its sole discretion, may seek evaluation of contractual performance by requesting input from Hospital's Medical Director/Chief Medical Officer and from other professionals within Hospital.

4.10 Right of Inspection. Upon reasonable prior written notice, Hospital and County officials and their designees may inspect the books and records of Contractor which are necessary to determine that work performed by Contractor to patients hereunder is in accord with the requirements of this Agreement. Such inspection shall be made in a manner so as not to disrupt the operations of Hospital or Contractor.

4.11 Access to and Audit of Records. Hospital shall have the right to examine, monitor and audit all records, documents, conditions, and activities of the Contractor and its subcontractors related to services provided under this Agreement. Pursuant to Government Code Section 8546.7, if this Agreement involves the expenditure of public funds in excess of Ten Thousand Dollars ($10,000), the Parties may be subject, at the request of Hospital or as part of any audit of Hospital, to the examination and audit of the State Auditor pertaining to matters connected with the performance of this Agreement for a period of three (3) years after final payment under the Agreement.

ARTICLE V.
TERM AND TERMINATION

5.1 Term. This Agreement shall become effective on November 1, 2018 (the **"Effective Date"**), and shall continue until December 31, 2019 (the **"Expiration Date"**), subject to the termination provisions of this Agreement.

5.2 Termination by Hospital. Hospital shall have the right to terminate this Agreement upon the occurrence of any one or more of the following events:

(a) breach of this Agreement by Contractor where the breach is not cured within thirty (30) calendar days after Hospital gives written notice of the breach to Contractor;

(b) death or permanent disability of Contractor;

(c) Contractor's voluntary retirement from the practice of medicine;

(d) neglect of professional duty by Contractor in a manner that violates Hospital's policies, rules or regulations;

(e) Contractor is unable or reasonably expected to be unable to provide the Services for any reason for a period in excess of thirty (30) consecutive days or sixty (60) days in the aggregate over any three (3) month period;

(f) Contractor's clinical privileges or medical staff membership at any hospital are denied, suspended, terminated, restricted, revoked or relinquished for any reason, whether voluntarily or involuntarily, temporarily or permanently, regardless of the availability of civil or administrative hearing rights or judicial review with respect thereto;

(g) Contractor's license to practice medicine in the State is restricted, suspended or terminated, regardless of the availability of civil or administrative hearing rights or judicial review with respect thereto;

(h) Contractor for any reason is not a member in good standing in the "active staff" category of the Medical Staff or does not hold all clinical privileges at Hospital necessary for Contractor's performance of the Services or Contractor is the subject of one or more investigations, proceedings or peer review or other disciplinary actions by the Medical Staff;

(i) Contractor is charged with or convicted of a criminal offense;

(j) Contractor's performance of this Agreement, in the sole determination of Hospital, jeopardizes the mental or physical health or well-being of patients of Hospital;

(k) Contractor is debarred, suspended, excluded or otherwise ineligible to participate in any state or Federal Health Care Program or state equivalent;

(l) Contractor acts, or causes another person to act, in a manner which conflicts with or violates the Code;

(m) breach by Contractor of any HIPAA Obligation (as defined in **Exhibit 6.3**);

(n) Contractor makes an assignment for the benefit of creditors, admits in writing the inability to pay his or her debts as they mature, applies to any court for the appointment of a trustee or receiver over his or her assets, or upon commencement of any voluntary or involuntary proceedings under any bankruptcy, reorganization, arrangement, insolvency, readjustment of debt, dissolution liquidation or other similar law of any jurisdiction;

(o) the insurance required to be maintained by Contractor under this Agreement is terminated, reduced below the minimum coverage requirements set forth in this Agreement, not renewed or cancelled (whether by action of the insurance company or Contractor) for any reason, and Contractor has not obtained replacement coverage as required by this Agreement prior to the effective date of such termination, reduction, non-renewal or cancellation;

(p) Contractor is rendered unable to comply with the terms of this Agreement for any reason; or

(q) upon a sale of all or substantially all assets comprising Hospital's acute care hospital facility, any change of control in Hospital's organization, or any change in control of its day to day operations, whether through a membership change or by management contract. Hospital shall notify Contractor in writing of such sale or change of control at least thirty (30) days prior to the closing date of any such sale or the effective date of any such change of control.

5.3 Termination by Contractor. Contractor shall have the right to terminate this Agreement upon breach of this Agreement by Hospital where the breach is not cured within thirty (30) calendar days after Contractor gives written notice of the breach to Hospital.

5.4 Termination or Modification in the Event of Government Action.

(a) If the Parties receive notice of any Government Action, the Parties shall attempt to amend this Agreement in order to comply with the Government Action.

(b) If the Parties, acting in good faith, are unable to make the amendments necessary to comply with the Government Action, or, alternatively, if either Party determines in good faith that compliance with the Government Action is impossible or infeasible, this Agreement shall terminate ten (10) calendar days after one Party notices the other of such fact.

(c) For the purposes of this Section, **"Government Action"** shall mean any legislation, regulation, rule or procedure passed, adopted or implemented by any federal, state or local government or legislative body or any private agency, or any notice of a decision, finding, interpretation or action by any governmental or private agency, court or other third party which, in the opinion of counsel to Hospital, because of the arrangement between the Parties pursuant to this Agreement, if or when implemented, would:

(i) revoke or jeopardize the status of any health facility license granted to Hospital or any Affiliate of Hospital;

(ii) revoke or jeopardize the federal, state or local tax-exempt status of Hospital or any Affiliate of Hospital, or their respective tax-exempt financial obligations;

(iii) prevent Contractor from being able to access and use the facilities of Hospital or any Affiliate of Hospital;

(iv) constitute a violation of 42 U.S.C. Section 1395nn (commonly referred to as the Stark law) if Contractor referred patients to Hospital or any Affiliate of Hospital;

(v) prohibit Hospital or any Affiliate of Hospital from billing for services provided to patients referred to by Contractor;

(vi) subject Hospital or Contractor, or any Affiliate of Hospital, or any of their respective employees or agents, to civil or criminal prosecution (including any excise tax penalty under Internal Revenue Code Section 4958), on the basis of their participation in executing this Agreement or performing their respective obligations under this Agreement; or

(vii) jeopardize Hospital's full accreditation with any accrediting organization as Hospital designates from time to time.

(d) For the purposes of this Agreement, **"Affiliate"** shall mean any entity which, directly or indirectly, controls, is controlled by or is under common control with Hospital.

5.5 Termination without Cause. Either Party may terminate this Agreement without cause, expense or penalty, effective sixty (60) calendar days after written notice of termination is given to the other Party.

5.6 Effect of Termination or Expiration. Upon any termination or expiration of this Agreement:

(a) All rights and obligations of the Parties shall cease except: (i) those rights and obligations that have accrued and remain unsatisfied prior to the termination or expiration of this Agreement; (ii) those rights and obligations which expressly survive termination or expiration of this Agreement; and (iii) Contractor's obligation to continue to provide services to Hospital patients under Contractor's care at the time of expiration or termination of this Agreement, until the patient's course of treatment is completed or the patient is transferred to the care of another physician.

(b) Contractor shall not do anything or cause any other person to do anything that interferes with Hospital's efforts to engage any other person or entity for the provision of the Services, or interfere in any way with any relationship between Hospital and any other person or entity who may be engaged to provide the Services to Hospital.

(c) Contractor shall not have any right to a "fair hearing" or any other similar rights or procedures under the Medical Staff bylaws or otherwise.

(d) This Section 5.6 shall survive the expiration or termination for any reason of this Agreement.

5.7 Return of Property. Upon any termination or expiration of this Agreement, Contractor shall immediately return to Hospital all of Hospital's property, including Hospital's equipment, supplies, furniture, furnishings and patient records, which is in Contractor's possession or under Contractor's control.

5.8 Termination or Amendment in Response to Reduction of Government Funding. Notwithstanding any other provision of this Agreement, if Federal, State or local government terminates or reduces its funding to the County for services that are to be provided under this Agreement, County, in its sole and absolute discretion after consultation with the Contractor, may elect to terminate this Agreement by giving written notice of termination to Contractor effective immediately or on such other date as County specifies in the notice. Alternatively, County and Contractor may mutually agree to amend the Agreement in response to a reduction in Federal, State or local funding.

ARTICLE VI.
GENERAL PROVISIONS

6.1 Amendment. This Agreement may be modified or amended only by mutual written agreement of the Parties. Any such modification or amendment must be in writing, dated and signed by the Parties and attached to this Agreement.

6.2 Assignment. Except for assignment by Hospital to an entity owned, controlled by, or under common control with Hospital, neither Party may assign any interest or obligation under this Agreement without the other Party's prior written consent. Subject to the foregoing, this Agreement shall be binding on and shall inure to the benefit of the Parties and their respective successors and assigns.

6.3 Compliance with HIPAA. Contractor shall comply with the obligations under the Health Insurance Portability and Accountability Act of 1996 (42 U.S.C. § 1320d et seq.), as amended by the Health Information Technology for Economic and Clinical Health Act of 2009, and all rules and regulations promulgated thereunder (collectively, **"HIPAA,"** the obligations collectively referred to herein as **"HIPAA Obligations"**), as set forth in **Exhibit 6.3**. The HIPAA Obligations shall survive the expiration or termination of this Agreement for any reason.

6.4 Compliance with Laws and Accreditation. Contractor shall comply with all applicable laws, ordinances, codes and regulations of federal, state and local governments (collectively, **"Laws"**) applicable to Contractor, the provision of the Services, or the obligations of Contractor under this Agreement, including without limitation laws that require Contractor to disclose any economic interest or relationship with Hospital. Contractor shall perform and handle all patient transfers and reports in accordance with applicable Laws. Contractor shall take actions necessary to ensure that the Hospital **is** operated in accordance with: all requirements of a nationally recognized accrediting organization that Hospital designates from time to time, all applicable licensing requirements, and all other relevant requirements promulgated by any federal, state or local agency.

6.5 Compliance with Medicare Rules. To the extent required by law or regulation, Contractor shall make available, upon written request from Hospital, the Secretary of Health and Human Services, the Comptroller General of the United States, or any other duly authorized agent or representative, this Agreement and Contractor's books, documents and records. Contractor shall preserve and make available such books, documents and records for a period of ten (10) years after the end of the term of this Agreement, or the length of time required by state or federal law. If Contractor is requested to disclose books, documents or records pursuant to this Section for any purpose, Contractor shall notify Hospital of the nature and scope of such request, and Contractor shall make available, upon written request of Hospital, all such books, documents or records. Contractor shall indemnify and hold harmless Hospital if any amount of reimbursement is denied or disallowed because of Contractor's failure to comply with the obligations set forth in this Section. Such indemnity shall include, but not be limited to, the amount of reimbursement denied, plus any interest, penalties and legal costs. This Section shall survive the expiration or termination for any reason of this Agreement.

6.6 Confidential Information.

(a) During the term of this Agreement, Contractor may have access to and become acquainted with Trade Secrets and Confidential Information of Hospital. **"Trade Secrets"** includes information and data relating to payor contracts and accounts, clients, patients, patient groups, patient lists, billing practices and procedures, business techniques and methods, strategic plans, operations and related data. **"Confidential Information"** includes Trade Secrets and any information related to the past, current or proposed operations, business or strategic plans, financial statements or reports, technology or services of Hospital or any Affiliate that Hospital discloses or otherwise makes available in any manner to Contractor, or to which Contractor may gain access in the performance of the Services under this Agreement, or which Contractor knows or has reason to know is confidential information of Hospital or any Affiliate; whether such information is disclosed orally, visually or in writing, and whether or not bearing any legend or marking indicating that such information or data is confidential. By way of

example, but not limitation, Confidential Information includes any and all know-how, processes, manuals, confidential reports, procedures and methods of Hospital, any Hospital patient's individually identifiable health information (as defined under HIPAA), and any information, records and proceedings of Hospital and/or Medical Staff committees, peer review bodies, quality committees and other committees or bodies charged with the evaluation and improvement of the quality of care. Confidential Information also includes proprietary or confidential information of any third party that may be in Hospital's or any Affiliate's possession.

(b) Confidential Information shall be and remain the sole property of Hospital, and shall, as applicable, be proprietary information protected under the Uniform Trade Secrets Act. Contractor shall not use any Confidential Information for any purpose not expressly permitted by this Agreement, or disclose any Confidential Information to any person or entity, without the prior written consent of Hospital. Contractor shall protect the Confidential Information from unauthorized use, access, or disclosure in the same manner as Contractor protects his or her own confidential or proprietary information of a similar nature and with no less than reasonable care. All documents that Contractor prepares, or Confidential Information that might be given to Contractor in the course of providing Services under this Agreement, are the exclusive property of Hospital, and, without the prior written consent of Hospital, shall not be removed from Hospital's premises.

(c) Contractor shall return to Hospital all Confidential Information and all copies thereof in Contractor's possession or control, and permanently erase all electronic copies of such Confidential Information, promptly upon the written request of Hospital, or the termination or expiration of this Agreement. Contractor shall not copy, duplicate or reproduce any Confidential Information without the prior written consent of Hospital.

(d) This Section shall survive the expiration or termination of this Agreement.

6.7 Counterparts. This Agreement may be executed in one or more counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.

6.8 Disclosure of Interests. Contractor shall provide to Hospital, as requested by Hospital from time to time, information sufficient to disclose any ownership, investment or compensation interest or arrangement of Contractor, or any of Contractor's immediate family members, in any entity providing "designated health services" (as such term is defined in the Stark Law (42 U.S.C. Section 1395nn) and its regulations) or any other health care services. This Section shall not impose on Hospital any disclosure or reporting requirements or obligations imposed on Contractor under any governmental program or create an assumption of such disclosure obligations by Hospital. Contractor shall have the sole responsibility to fulfill any such federal and/or state reporting requirements or obligations.

6.9 Dispute Resolution. In the event of any dispute, controversy, claim or disagreement arising out of or related to this Agreement or the acts or omissions of the Parties with respect to this Agreement (each, a **"Dispute"**), the Parties shall resolve such Dispute as follows:

(a) **Meet and Confer.** The Parties shall, as soon as reasonably practicable, but in no case more than ten (10) days after one Party gives written notice of a Dispute to the other Party (the **"Dispute Notice"**), meet and confer in good faith regarding such Dispute at such time and place as mutually agreed upon by the Parties (the **"Meet and Confer"**). The obligation to conduct a Meet and Confer pursuant to this Section does not obligate either Party to agree to any compromise or resolution of the Dispute that such Party does not determine, in its sole and absolute discretion, to be a satisfactory resolution of the Dispute. The Meet and Confer shall be considered a settlement negotiation for the purpose of all applicable Laws protecting statements, disclosures or conduct in such context, and any offer in compromise or other statements or conduct made at or in connection with any Meet and Confer shall be protected under such Laws.

(b) **Arbitration.** If any Dispute is not resolved to the mutual satisfaction of the Parties within ten (10) business days after delivery of the Dispute Notice (or such other period as may be mutually agreed upon by the Parties in writing), the Parties shall submit such Dispute to arbitration conducted by Judicial Arbitration and Mediation Services, Inc. (**"JAMS"**), or other arbitration and/or mediation services company as agreed to by the Parties, in accordance with the following rules and procedures:

(i) Each Party may commence arbitration by giving written notice to the other Party demanding arbitration (the **"Arbitration Notice"**). The Arbitration Notice shall specify the Dispute, the particular claims and/or causes of actions alleged by the Party demanding arbitration, and the factual and legal basis in support of such claims and/or causes of action.

(ii) The arbitration shall be conducted in the County in which the Hospital is located and in accordance with the commercial arbitration rules and procedures of JAMS (or other arbitration company as mutually agreed to by the Parties) to the extent such rules and procedures are not inconsistent with the provisions set forth in this Section. In the event of a conflict between any rules and/or procedures of JAMS (or other arbitration company as mutually agreed to by the Parties) and the rules and/or procedures set forth in this Section, the rules and/or procedures set forth in this Section shall govern.

(iii) The arbitration shall be conducted before a single impartial retired member of the JAMS panel of arbitrators (or panel of arbitrators from such other arbitration company as mutually agreed to by the Parties) covering the County in which the Hospital is located (the **"Panel"**). The Parties shall use their good faith efforts to agree upon a mutually acceptable arbitrator within thirty (30) days after delivery of the Arbitration Notice. If the Parties are unable to agree upon a mutually acceptable arbitrator within such time period, then each Party shall select one arbitrator from the Panel, and those arbitrators shall select a single impartial arbitrator from the Panel to serve as arbitrator of the Dispute.

(iv) The Parties expressly waive any right to any and all discovery in connection with the arbitration; provided, however, that each Party shall have the right to conduct no more than two (2) depositions and submit one set of interrogatories with a maximum of forty (40) questions, including subparts of such questions.

(v) The arbitration hearing shall commence within thirty (30) days after appointment of the arbitrator. The substantive internal law (and not the conflict of laws) of the State shall be applied by the arbitrator to the resolution of the Dispute, and the Evidence Code of the State shall apply to all testimony and documents submitted to the arbitrator. The arbitrator shall have no authority to amend or modify the limitation on the discovery rights of the Parties or any of the other rules and/or procedures set forth in this Section. As soon as reasonably practicable, but not later than thirty (30) days after the arbitration hearing is completed, the arbitrator shall arrive at a final decision, which shall be reduced to writing, signed by the arbitrator and mailed to each of the Parties and their respective legal counsel.

(vi) Any Party may apply to a court of competent jurisdiction for entry and enforcement of judgment based on the arbitration award. The award of the arbitrator shall be final and binding upon the Parties without appeal or review except as permitted by the Arbitration Act of the State.

(vii) The fees and costs of JAMS (or other arbitration company as mutually agreed to by the Parties) and the arbitrator, including any costs and expenses incurred by the arbitrator in connection with the arbitration, shall be borne equally by the Parties, unless otherwise agreed to by the Parties.

(viii) Except as set forth in Section 6.9(b)(vii), each Party shall be responsible for the costs and expenses incurred by such Party in connection with the arbitration, including its own attorneys' fees and costs; provided, however, that the arbitrator shall require one Party to pay the costs and expenses of the prevailing Party, including attorneys' fees and costs and the fees and costs of experts and consultants, incurred in connection with the arbitration if the arbitrator determines that the claims and/or position of a Party were frivolous and without reasonable foundation.

(c) **Waiver of Injunctive or Similar Relief.** The Parties hereby waive the right to seek specific performance or any other form of injunctive or equitable relief or remedy arising out of any Dispute, except that such remedies may be utilized for purposes of enforcing this Section and sections governing Confidential Information, Compliance with HIPAA, Compliance with Laws and Accreditation and Compliance with Medicare Rules of this

Agreement. Except as expressly provided herein, upon any determination by a court or by an arbitrator that a Party has breached this Agreement or improperly terminated this Agreement, the other Party shall accept monetary damages, if any, as full and complete relief and remedy, to the exclusion of specific performance or any other form of injunctive or equitable relief or remedy.

(d) **Injunctive or Similar Relief.** Notwithstanding anything to the contrary in this Section, the Parties reserve the right to seek specific performance or any other form of injunctive relief or remedy in any state or federal court located within the County in which the Hospital is located for purposes of enforcing this Section and sections governing Confidential Information, Compliance with HIPAA, Compliance with Laws and Accreditation and Compliance with Medicare Rules of this Agreement. Contractor hereby consents to the jurisdiction of any such court and to venue therein, waives any and all rights under the Laws of any other state to object to jurisdiction within the State, and consents to the service of process in any such action or proceeding, in addition to any other manner permitted by applicable Law, by compliance with the notices provision of this Agreement. The non-prevailing Party in any such action or proceeding shall pay to the prevailing Party reasonable fees and costs incurred in such action or proceeding, including attorneys' fees and costs and the fees and costs of experts and consultants. The prevailing Party shall be the Party who is entitled to recover its costs of suit (as determined by the court of competent jurisdiction), whether or not the action or proceeding proceeds to final judgment or award.

(e) **Survival.** This Section shall survive the expiration or termination of this Agreement.

6.10 Entire Agreement. This Agreement is the entire understanding and agreement of the Parties regarding its subject matter, and supersedes any prior oral or written agreements, representations, understandings or discussions between the Parties. No other understanding between the Parties shall be binding on them unless set forth in writing, signed and attached to this Agreement.

6.11 Exhibits. The attached exhibits, together with all documents incorporated by reference in the exhibits, form an integral part of this Agreement and are incorporated into this Agreement wherever reference is made to them to the same extent as if they were set out in full at the point at which such reference is made.

6.12 Force Majeure. Neither Party shall be liable for nonperformance or defective or late performance of any of its obligations under this Agreement to the extent and for such periods of time as such nonperformance, defective performance or late performance is due to reasons outside such Party's control, including acts of God, war (declared or undeclared), terrorism, action of any governmental authority, civil disturbances, riots, revolutions, vandalism, accidents, fire, floods, explosions, sabotage, nuclear incidents, lightning, weather, earthquakes, storms, sinkholes, epidemics, failure of transportation infrastructure, disruption of public utilities, supply chain interruptions, information systems interruptions or failures, breakdown of machinery or strikes (or similar nonperformance, defective performance or late performance of employees, suppliers or subcontractors); provided, however, that in any such event, each Party shall use its good faith efforts to perform its duties and obligations under this Agreement.

6.13 Governing Law. This Agreement shall be construed in accordance with and governed by the laws of the State.

6.14 Headings. The headings in this Agreement are intended solely for convenience of reference and shall be given no effect in the construction or interpretation of this Agreement.

6.15 Litigation Consultation. Contractor shall not accept consulting assignments or otherwise contract, agree, or enter into any arrangement to provide expert testimony or evaluation on behalf of a plaintiff in connection with any claim against Hospital or any Affiliate named, or expected to be named as a defendant. Contractor shall not accept similar consulting assignments if (a) the defendants or anticipated defendants include a member of the medical staff of Hospital or any Affiliate, and (b) the matter relates to events that occurred at Hospital or any Affiliate; provided, however, the provisions of this Section shall not apply to situations in which Contractor served as a treating physician.

6.16 Master List. The Parties acknowledge and agree that this Agreement, together with any other contracts between Hospital and Contractor, will be included on the master list of physician contracts maintained by Hospital.

6.17 Meaning of Certain Words. Wherever the context may require, any pronouns used in this Agreement shall include the corresponding masculine, feminine, or neuter forms, and the singular form of nouns shall include the plural and vice versa. Unless otherwise specified: (i) "days" shall be considered "calendar days;" (ii) "months" shall be considered "calendar months;" and (iii) "including" means "including, without limitation" in this Agreement and its exhibits and attachments.

6.18 No Conflicting Obligations. Contractor represents and warrants that the execution and delivery of this Agreement and the performance of his or her obligations hereunder do not and will not: (a) present a conflict of interest or materially interfere with the performance of Contractor's duties under any other agreement or arrangement; or (b) violate, conflict with, or result in a breach of any provision of, or constitute a default (or an event which, with notice and/or lapse of time, would constitute a default) under, terminate, accelerate the performance required by, or result in a right of termination or acceleration under any of the terms, conditions or provisions of any other agreement, indebtedness, note, bond, indenture, security or pledge agreement, license, franchise, permit, or other instrument or obligation to which Contractor is a party or by which Contractor is bound. Contractor shall immediately inform Hospital of any other agreements to which Contractor is a party that may present a conflict of interest or materially interfere with performance of Contractor's duties under this Agreement.

6.19 No Third Party Beneficiary Rights. The Parties do not intend to confer and this Agreement shall not be construed to confer any rights or benefits to any person, firm, group, corporation or entity other than the Parties.

6.20 Notices. All notices or communications required or permitted under this Agreement shall be given in writing and delivered personally or sent by United States registered or certified mail with postage prepaid and return receipt requested or by overnight delivery

service (e.g., Federal Express, DHL). Notice shall be deemed given when sent, if sent as specified in this Section, or otherwise deemed given when received. In each case, notice shall be delivered or sent to:

If to Hospital, addressed to:

NATIVIDAD MEDICAL CENTER
1441 Constitution Blvd., Bldg. 300
Salinas, California 93906
Attention: Physician Service Manager

If to Contractor, addressed to:

VICTORIA CHEW, M.D.
343 Soquel Avenue
Santa Cruz, CA 95062

6.21 Participation in Federal Health Care Programs. Contractor hereby represents that he is not debarred, suspended, excluded or otherwise ineligible to participate in any Federal Health Care Program.

6.22 Representations. Each Party represents with respect to itself that: (a) no representation or promise not expressly contained in this Agreement has been made by any other Party or by any Parties' agents, employees, representatives or attorneys; (b) this Agreement is not being entered into on the basis of, or in reliance on, any promise or representation, expressed or implied, other than such as are set forth expressly in this Agreement; and (c) Party has been represented by legal counsel of Party's own choice or has elected not to be represented by legal counsel in this matter.

6.23 Severability. If any provision of this Agreement is determined to be illegal or unenforceable, that provision shall be severed from this Agreement, and such severance shall have no effect upon the enforceability of the remainder of this Agreement.

6.24 Statutes and Regulations. Any reference in this Agreement to any statute, regulation, ruling, or administrative order or decree shall include, and be a reference to any successor statute, regulation, ruling, or administrative order or decree.

6.25 Waiver. No delay or failure to require performance of any provision of this Agreement shall constitute a waiver of that provision as to that or any other instance. Any waiver granted by a Party must be in writing to be effective, and shall apply solely to the specific instance expressly stated.

[*signature page follows*]

The Parties have executed this Agreement on the date first above written, and signify their agreement with duly authorized signatures.

CONTRACTOR

VICTORIA CHEW, M.D., an individual

Victoria Chew

Date: 10/7/ October 7, 2018

NATIVIDAD MEDICAL CENTER

Deputy Purchasing Agent

Date: 10/5, 2018

APPROVED AS TO LEGAL PROVISIONS:

Stacy Saetta, Deputy County Counsel

Date: 10/10, 2018

APPROVED AS TO FISCAL PROVISIONS:

Deputy Auditor/Controller

Date: 10-10, 2018

The Parties have executed this Agreement on the date first above written, and signify their agreement with duly authorized signatures.

CONTRACTOR

VICTORIA CHEW, M.D., an individual

_____ Date: 10/7/ October 7, 2018

NATIVIDAD MEDICAL CENTER

_____ Date: _____, 20__
Deputy Purchasing Agent

APPROVED AS TO LEGAL PROVISIONS:

_____ Date:_____, 20__
Stacy Saetta, Deputy County Counsel

APPROVED AS TO FISCAL PROVISIONS:

_____ Date: _____, 20__
Deputy Auditor/Controller

Exhibit 1.1

PROFESSIONAL SERVICES TO BE PROVIDED BY CONTRACTOR

Contractor shall:

1. provide professional supervision, direction and evaluation of Hospital patients; and

2. perform Specialty services and provide appropriate reports and consultations as required.

Exhibit 1.2

TEACHING SERVICES TO BE PROVIDED BY CONTRACTOR

Contractor shall:

1. supervise patient care in a constructive and supportive way;

2. demonstrate effective interviewing, physical examination, procedures, use of diagnostic and therapeutic interventions, and medical records documentation;

3. create a professional role model; and

4. evaluate resident performance in a meaningful, objective fashion.

Exhibit 1.3

ADDITIONAL SERVICES TO BE PROVIDED BY CONTRACTOR

Contractor shall:

1. provide teaching, educational or training services, as reasonably requested by Hospital;

2. participate in utilization review programs, as reasonably requested by Hospital;

3. participate in risk management, quality assurance and peer review programs, as reasonably requested by Hospital;

4. accept third party insured patients and referrals of patients which are made by members of the Medical Staff, subject only to the limitations of scheduling and Contractor's professional qualifications;

5. assist Hospital in monitoring and reviewing the clinical performance of health care professionals who provide services to Hospital's patients; including reviewing incident reports and patient satisfaction studies relevant to the Specialty, and assisting Hospital in implementing any necessary corrective actions to address any issues identified during the course of such review;

6. assist in monitoring the performance of those professionals who are not meeting Hospital quality and/or performance standards, including, without limitation, direct observation of the provision of care by such professionals, and in disciplining any professionals who continue poor performance, recognizing that the Hospital Board of Directors is ultimately responsible for maintaining the standards of care provided to patients;

7. assist Hospital management with all preparation for, and conduct of, any inspections and on-site surveys of Hospital conducted by governmental agencies or accrediting organizations;

8. cooperate with Hospital in all litigation matters affecting Contractor or Hospital, consistent with advice from Contractor's legal counsel;

9. cooperate and comply with Hospital's policies and procedures which are pertinent to patient relations, quality assurance, scheduling, billing, collections and other administrative matters and cooperate with Hospital's efforts to bill and collect fees for services rendered to Hospital's patients. All business transactions related to the Services provided by Contractor, such as enrollment, verification and billings, shall be conducted by and in the name of Hospital; and

10. assist Hospital in developing, implementing and monitoring a program by which quality measures are reportable to Hospital with respect to the Specialty.

Exhibit 1.8

CONTRACTOR'S MONTHLY TIME REPORT

(See attached.)

Natividad MEDICAL CENTER

Accurately document all time in quarter hour (.25 hour) increments. Do not exceed 24 hours in a single day.
Directions and examples are located on back of timesheet.

Name:			Direct			Hospital Administrations and Teaching Services							Other Admin		Non-billable Activities				Total
Employee #:			00001			00002	00003	00004	00005	00006	00007	00008	00009		00010		00011	00012	
Dept Name:			Direct Patient Care Services			Supervision & Training of Nurses & Techs, etc.	Utilization Review and Other Committee Meetings	Quality Control, Medical Review, Autopsy	Supervision of Interns and Residents	Teaching of Interns & Residents	Teaching & Supervision of Allied Hlth Professionals	Other Administrative (specify)	CME (PR)	Conferences and Training (PR)	Non-Productive Hrs. Paid Time Off (Sick/ Vacation) (PR)	Holiday (PR)	Research	Other Non-Billable Activities (specify)	TOTAL HOURS
Cost Center:			Sched. IP/ OP Care (PR)	In House On-Call (PR)	Off-Site Call (PR)														
Period Ending:																			
1	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	
2	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	
3	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	
4	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	
5	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	
6	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	
7	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	
8	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	
9	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	
10	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	
11	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	
12	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	
13	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	
14	Date:	A Hospital & NMC Clinic Time																	
		B. Non-Hosp & Non-NMC Clinic Time																	

SIGN IN BLUE INK

I certify that the above information is a true and accurate statement of the hours and locations indicated.

Provider: _____

Telephone Number: _____ Date: _____

SIGN IN BLUE INK

I certify that the hours and types of service shown below are correct and that the employee performed satisfactorily, meeting all requirements.

Service Director: _____

Telephone Number: _____ Date: _____

REV. 4/20/2011

Exhibit 1.13

Natividad MEDICAL CENTER

MEDICAL STAFF POLICY

Title: Practitioner Code of Conduct	**Effective:** 05/09 **Reviewed/Revised:** 08/11
Standard: MSP004-2	**Approved: MEC** 08/11 **BOT** 09/11

As a member of the Medical Staff or an Allied Health Professional (AHP) of Natividad Medical Center (NMC) (collectively Practitioners), I acknowledge that the ability of Practitioners and NMC employees to jointly deliver high quality health care depends significantly upon their ability to communicate well, collaborate effectively, and work as a team. I recognize that patients, family members, visitors, colleagues and NMC staff members must be treated in a dignified and respectful manner at all times.

POLICY

In keeping with the accepted standards of the health care profession as evidenced by the Hippocratic Oath, the Code of Ethics of the American Medical Association (AMA) and other professional societies, and the values of NMC, Practitioners are leaders in maintaining professional standards of behavior. In keeping with this responsibility to maintain professional standards of behavior at NMC, Practitioners:

1. Facilitate effective patient care by consistent, active, and cooperative participation as members of the NMC health care team.

2. Recognize the individual and independent responsibilities of all other members of the NMC health care team and their right to independently advocate on behalf of the patient.

3. Maintain respect for the dignity and sensitivities of patients and families, as well as colleagues, NMC employees, and all other health care professionals.

4. Participate in the Medical Staff quality assessment and peer review activities, and in organizational performance improvement activities.

5. Contribute to the overall educational mission of NMC.

6. Reflect positively upon the reputation of the health care profession, the Medical Staff, and NMC in their language, action, attitude, and behavior.

Behaviors of Practitioners which do not meet the professional behavior standards established in this Code of Conduct (Code) shall be referred to as Disruptive or Unprofessional Behavior. Disruptive or Unprofessional Behavior by Practitioners exhibited on the premises of NMC, whether or not the Practitioner is on duty or functioning in his/her professional capacity, are subject to this Code.

EXAMPLES OF PROFESSIONAL BEHAVIOR

Practitioners are expected to exhibit professional behavior at NMC, consistent with this Code, as follows:

1. Be consistently available with cooperative and timely responsiveness to appropriate requests from physicians, nurses, and all other members of the NMC health care team in patient care and other professional responsibilities.

2. Provide for and communicate alternate coverage arrangements to assure the continuity and quality of care.

3. Demonstrate language, action, attitude and behavior which consistently convey to patients, families, colleagues, and all other members of the NMC health care team a sense of compassion and respect for human dignity.

4. Understand and accept individual cultural differences.

5. Maintain appropriate, timely, and legible medical record entries which enable all NMC professionals to understand and effectively participate in a cohesive plan of management to assure continuity, quality, and efficiency of care and effective post-discharge planning and follow-up.

6. Respect the right of patients, families or other designated surrogates to participate in an informed manner in decisions pertaining to patient care.

7. Treat patients and all persons functioning in any capacity within NMC with courtesy, respect, and human dignity.

8. Conduct one's practice at NMC in a manner that will facilitate timely commencement of medical/surgical procedures at NMC, including but not limited to, timely arrival at the hospital, pre-ordering all needed special equipment and/or supplies, and timely notification of required staff.

EXAMPLES OF DISRUPTIVE OR UNPROFESSIONAL BEHAVIOR

Disruptive or Unprofessional Behavior, as characterized in this Code, includes but is not limited to:

1. Misappropriation or unauthorized removal or possession of NMC owned property.

2. Falsification of medical records, including timekeeping records and other NMC documents.

3. Working under the influence of alcohol or illegal drugs.

4. Working under the influence of prescription or over-the-counter medications when use of such medications significantly affects the practitioner's level of cognitive functioning.

5. Possession, distribution, purchase, sale, transfer, transport or use of illegal drugs in the workplace.

6. Possession of dangerous or unauthorized materials such as explosives, firearms, or other weapons in the workplace.

7. Writing derogatory and/or accusatory notes in the medical record which are not necessary for the provision of quality patient care services. Concerns regarding the performance of other Practitioners or NMC employees should be reported on a NMC Quality Review Report form and submitted pursuant to NMC policy and should not be entered into the patient's medical record.

8. Harassment

    a. Harassment is verbal or physical contact that denigrates or shows hostility or aversion toward an individual based on race, religion, color, national origin, ancestry, age, disability, marital status, gender, sexual orientation, or any other basis protected by federal, state, or local law or ordinance, and that:

        1. Has the purpose or effect of creating an intimidating, hostile, or offensive working environment, or;

        2. Has the purpose or effect of unreasonably interfering with an individual's work performance, or;

        3. Otherwise aversely affects an individual's employment opportunity.

    b. Harassing conduct includes, but is not limited to:

        1. Epithets, slurs, negative stereotyping, threatening, intimidating, or hostile acts that relate to race, religion, color, national origin, ancestry, age, disability, marital status, gender, or sexual orientation.

        2. Written material or illustrations that denigrate or show hostility or aversion toward an individual or group because of race, religion, color, national origin, ancestry, age, disability, marital status, gender, or sexual orientation, and is placed on walls; bulletin boards, or elsewhere on NMC's premises or circulated in the workplace.

9. Physical behavior that is harassing, intimidating, or threatening, from the viewpoint of the recipient, including touching, obscene or intimidating gestures, or throwing of objects;

10. Passive behaviors, such as refusing to perform assigned tasks or to answer questions, return phone calls, or pages;

11. Language that is a reasonable adult would consider to be foul, abusive, degrading, demeaning, or threatening, such as crude comments, degrading jokes or comments, yelling or shouting at a person, or threatening violence or retribution;

12. Single incident of egregious behavior, such as an assault or other criminal act.

13. Criticism of NMC staff in front of patients, families, or other staff.

PROCEDURE

1. Any person who functions in any capacity at NMC who observes Practitioner language, action, attitude, or behavior which may be unprofessional, harassing, or disruptive to the provision of quality patient care services should document the incident on a NMC Quality Review Report form.

2. Identified incidents involving Practitioners shall be reviewed pursuant to the current Road Map for Handling Reports of Disruptive or Unprofessional Behavior or the County Sexual Harassment Policy, as determined by the nature of the behavior and the person who exhibits it.

I acknowledge that I have received and read this Practitioner Code of Conduct. I acknowledge that hospitals are required to define and address disruptive and inappropriate conduct to comply with The Joint Commission standards for accreditation. I agree to adhere to the guidelines in this Code and conduct myself in a professional manner. I further understand that failure to behave in a professional fashion may result in disciplinary actions set forth in the RoadMap for Handling Reports of Disruptive or Unprofessional Behavior or as determined by the Medical Executive Committee pursuant to the Medical Staff Bylaws.

Exhibit 2.1

COMPENSATION

1. **Professional Services.** Hospital shall pay to Contractor the amount of One Hundred Five Dollars ($105) per hour for those Professional Services rendered by Contractor to Patients while providing on-site coverage for Hospital's labor and delivery unit; provided, however, that Contractor is in compliance with the terms and conditions of this Agreement.

2. **Professional Liability Reimbursement.** In the event that Contractor does not purchase the professional liability insurance set forth in the Agreement, Hospital will deduct Eighteen Dollars and Eighty-Four Cents ($18.84) per day worked by Contractor to compensate for Hospital's payment of professional liability insurance premiums on behalf of Contractor.

3. **Timing.** Hospital shall pay the compensation due for Services performed by Contractor after Contractor's submission of the monthly invoice of preceding month's activity and time report in accordance with this Agreement; provided, however, that if Contractor does not submit an invoice and time sheet within sixty (60) days of the end of the month during which Services were performed, Hospital shall not be obligated to pay Contractor for Services performed during that month. The County of Monterey Standard Payment Terms for contracts/PSAs and paying invoices is "30 days after receipt of the certified invoice in the Auditor-Controller's Office".

Exhibit 6.3

BUSINESS ASSOCIATE AGREEMENT

This Business Associate Agreement ("Agreement"), effective October 1, 2018 ("Effective Date"), is entered into by and among the County of Monterey, a political subdivision of the State of California, on behalf of Natividad Medical Center ("Covered Entity") and Victoria Chew, M.D. ("Business Associate") (each a "Party" and collectively the "Parties").

Business Associate provides certain services for Covered Entity ("Services") that involve the use and disclosure of Protected Health Information that is created or received by Business Associate from or on behalf of Covered Entity ("PHI"). The Parties are committed to complying with the Standards for Privacy of Individually Identifiable Health Information, 45 C.F.R. Part 160 and Part 164, Subparts A and E as amended from time to time (the "Privacy Rule"), and with the Security Standards, 45 C.F.R. Part 160 and Part 164, Subpart C as amended from time to time (the "Security Rule"), under the Health Insurance Portability and Accountability Act of 1996 ("HIPAA"), as amended by the Health Information Technology for Economic and Clinical Health Act and its implementing regulations ("HITECH"). Business Associate acknowledges that, pursuant to HITECH, 45 C.F.R. §§ 164.308 (administrative safeguards), 164.310 (physical safeguards), 164.312 (technical safeguards), 164.316 (policies and procedures and documentation requirements) and 164.502 *et. seq.* apply to Business Associate in the same manner that such sections apply to Covered Entity. The additional requirements of Title XIII of HITECH contained in Public Law 111-005 that relate to privacy and security and that are made applicable with respect to covered entities shall also be applicable to Business Associate. The Parties are also committed to complying with the California Confidentiality of Medical Information Act, Ca. Civil Code §§ 56 *et seq.* ("CMIA"), where applicable. Business Associate acknowledges that the CMIA prohibits Business Associate from further disclosing the PHI it receives from Covered Entity where such disclosure would be violative of the CMIA. The Parties are also committed to complying with applicable requirements of the Red Flag Rules issued pursuant to the Fair and Accurate Credit Transactions Act of 2003 ("Red Flag Rules"). This Agreement sets forth the terms and conditions pursuant to which PHI, and, when applicable, Electronic Protected Health Information ("EPHI"), shall be handled. The Parties further acknowledge that state statutes or other laws or precedents may impose data breach notification or information security obligations, and it is their further intention that each shall comply with such laws as well as HITECH and HIPAA in the collection, handling, storage, and disclosure of personal data of patients or other personal identifying information exchanged or stored in connection with their relationship.

The Parties agree as follows:

1. DEFINITIONS

All capitalized terms used in this Agreement but not otherwise defined shall have the meaning set forth in the Privacy Rule, Security Rule and HITECH.

2. PERMITTED USES AND DISCLOSURES OF PHI

2.1 Unless otherwise limited herein, Business Associate may:

(a) use or disclose PHI to perform functions, activities or Services for, or on behalf of, Covered Entity as requested by Covered Entity from time to time, provided that such use or disclosure would not violate the Privacy or Security Rules or the standards for Business Associate Agreements set forth in 45 C.F.R. § 164.504(e), exceed the minimum necessary to accomplish the intended purpose of such use or disclosure, violate the additional requirements of HITECH contained in Public Law 111-005 that relate to privacy and security, or violate the CMIA;

(b) disclose PHI for the purposes authorized by this Agreement only: (i) to its employees, subcontractors and agents; (ii) as directed by this Agreement; or (iii) as otherwise permitted by the terms of this Agreement;

(c) use PHI in its possession to provide Data Aggregation Services to Covered Entity as permitted by 45 C.F.R. § 164.504(e)(2)(i)(B);

(d) use PHI in its possession for proper management and administration of Business Associate or to carry out the legal responsibilities of Business Associate as permitted by 45 C.F.R. § 164.504(e)(4)(i);

(e) disclose the PHI in its possession to third parties for the proper management and administration of Business Associate to the extent and in the manner permitted under 45 C.F.R. § 164.504(e)(4)(ii); provided that disclosures are Required by Law , or Business Associate obtains reasonable assurances from the persons to whom the information is disclosed that it will remain confidential and used or further disclosed only as Required by Law or for the purpose for which it was disclosed to the person, and the person notifies the Business Associate of any instances of which it is aware in which the confidentiality of the information has been breached;

(f) use PHI to report violations of law to appropriate Federal and state authorities, consistent with 45 C.F.R. § 164.502(j)(1);

(g) de-identify any PHI obtained by Business Associate under this Agreement for further use or disclosure only to the extent such de-identification is pursuant to this Agreement, and use such de-identified data in accordance with 45 C.F.R. § 164.502(d)(1).

3. RESPONSIBILITIES OF THE PARTIES WITH RESPECT TO PHI

3.1 Responsibilities of Business Associate. With regard to its use and/or disclosure of PHI, Business Associate shall:

(a) use and/or disclose the PHI only as permitted or required by this Agreement or as otherwise Required by Law;

(b) report to the privacy officer of Covered Entity, in writing, (i) any use and/or disclosure of the PHI that is not permitted or required by this Agreement of which Business Associate becomes aware, and (ii) any Breach of unsecured PHI as specified by HITECH, within two (2) days of Business Associate's determination of the occurrence of such unauthorized use and/or disclosure. In such event, the Business Associate shall, in consultation with the Covered Entity, mitigate, to the extent practicable, any harmful effect that is known to the Business Associate of such improper use or disclosure. The notification of any Breach of unsecured PHI shall include, to the extent possible, the identification of each individual whose unsecured PHI has been, or is reasonably believed by the Business Associate to have been, accessed, acquired, used or disclosed during the Breach.

(c) use commercially reasonable safeguards to maintain the security of the PHI and to prevent use and/or disclosure of such PHI other than as provided herein;

(d) obtain and maintain an agreement with all of its subcontractors and agents that receive, use, or have access to, PHI pursuant to which agreement such subcontractors and agents agree to adhere to the same restrictions and conditions on the use and/or disclosure of PHI that apply to Business Associate pursuant to this Agreement;

(e) make available all internal practices, records, books, agreements, policies and procedures and PHI relating to the use and/or disclosure of PHI to the Secretary for purposes of determining Covered Entity or Business Associate's compliance with the Privacy Rule;

(f) document disclosures of PHI and information related to such disclosure and, within ten (10) days of receiving a written request from Covered Entity, provide to Covered Entity such information as is requested by Covered Entity to permit Covered Entity to respond to a request by an individual for an accounting of the disclosures of the individual's PHI in accordance with 45 C.F.R. § 164.528, as well as provide an accounting of disclosures, as required by HITECH, directly to an individual provided that the individual has made a request directly to Business Associate for such an accounting. At a minimum, the Business Associate shall provide the Covered Entity with the following information: (i) the date of the disclosure, (ii) the name of the entity or person who received the PHI, and if known, the address of such entity or person; (iii) a brief description of the PHI disclosed; and (iv) a brief statement of the purpose of such disclosure which includes an explanation of the basis for such disclosure. In the event the request for an accounting is delivered directly to the Business Associate, the Business Associate shall, within two (2) days, forward such request to the Covered Entity. The Business Associate shall implement an appropriate recordkeeping process to enable it to comply with the requirements of this Section;

(g) subject to Section 4.4 below, return to Covered Entity within twenty-one (21) days of the termination of this Agreement, the PHI in its possession and retain no copies, including backup copies;

(h) disclose to its subcontractors, agents or other third parties, and request from Covered Entity, only the minimum PHI necessary to perform or fulfill a specific function required or permitted hereunder;

(i) if all or any portion of the PHI is maintained in a Designated Record Set:

(i) upon ten (10) days' prior written request from Covered Entity, provide access to the PHI in a Designated Record Set to Covered Entity or, as directed by Covered Entity, the individual to whom such PHI relates or his or her authorized representative to meet a request by such individual under 45 C.F.R. § 164.524; and

(ii) upon ten (10) days' prior written request from Covered Entity, make any amendment(s) to the PHI that Covered Entity directs pursuant to 45 C.F.R. § 164.526;

(j) maintain policies and procedures to detect and prevent identity theft in connection with the provision of the Services, to the extent required to comply with the Red Flag Rules;

(k) notify the Covered Entity within five (5) days of the Business Associate's receipt of any request or subpoena for PHI. To the extent that the Covered Entity decides to assume responsibility for challenging the validity of such request, the Business Associate shall cooperate fully with the Covered Entity in such challenge;

(l) maintain a formal security program materially in accordance with all applicable data security and privacy laws and industry standards designed to ensure the security and integrity of the Covered Entity's data and protect against threats or hazards to such security

The Business Associate acknowledges that, as between the Business Associate and the Covered Entity, all PHI shall be and remain the sole property of the Covered Entity.

3.2 Additional Responsibilities of Business Associate with Respect to EPHI. In the event that Business Associate has access to EPHI, in addition to the other requirements set forth in this Agreement relating to PHI, Business Associate shall:

(a) implement administrative, physical, and technical safeguards that reasonably and appropriately protect the confidentiality, integrity, and availability of EPHI that Business Associate creates, receives, maintains, or transmits on behalf of Covered Entity as required by 45 C.F.R. Part 164, Subpart C;

(b) ensure that any subcontractor or agent to whom Business Associate provides any EPHI agrees in writing to implement reasonable and appropriate safeguards to protect such EPHI; and

(c) report to the privacy officer of Covered Entity, in writing, any Security Incident involving EPHI of which Business Associate becomes aware within two (2) days of Business Associate's discovery of such Security Incident. For purposes of this Section, a Security Incident shall mean (consistent with the definition set forth at 45 C.F.R. § 164.304), the attempted or successful unauthorized access, use, disclosure, modification, or destruction of information or interference with systems operations in an information system. In such event, the Business Associate shall, in consultation with the Covered Entity, mitigate, to the extent practicable, any harmful effect that is known to the Business Associate of such improper use or disclosure.

3.3 Responsibilities of Covered Entity. Covered Entity shall, with respect to Business Associate:

(a) provide Business Associate a copy of Covered Entity's notice of privacy practices ("Notice") currently in use;

(b) notify Business Associate of any limitations in the Notice pursuant to 45 C.F.R.
§ 164.520, to the extent that such limitations may affect Business Associate's use or disclosure of PHI;

(c) notify Business Associate of any changes to the Notice that Covered Entity provides to individuals pursuant to 45 C.F.R. § 164.520, to the extent that such changes may affect Business Associate's use or disclosure of PHI;

(d) notify Business Associate of any changes in, or withdrawal of, the consent or authorization of an individual regarding the use or disclosure of PHI provided to Covered Entity pursuant to 45 C.F.R. § 164.506 or § 164.508, to the extent that such changes may affect Business Associate's use or disclosure of PHI; and

(e) notify Business Associate, in writing and in a timely manner, of any restrictions on use and/or disclosure of PHI as provided for in 45 C.F.R. § 164.522 agreed to by Covered Entity, to the extent that such restriction may affect Business Associate's use or disclosure of PHI.

4. TERMS AND TERMINATION

4.1 Term. This Agreement shall become effective on the Effective Date and shall continue in effect unless terminated as provided in this Article 4. Certain provisions and requirements of this Agreement shall survive its expiration or other termination as set forth in Section 5.1 herein.

4.2 Termination. Either Covered Entity or Business Associate may terminate this Agreement and any related agreements if the terminating Party determines in good faith that the terminated Party has breached a material term of this Agreement; provided, however, that no Party may terminate this Agreement if the breaching Party cures such breach to the reasonable satisfaction of the terminating Party within thirty (30) days after the breaching Party's receipt of written notice of such breach.

4.3 Automatic Termination. This Agreement shall automatically terminate without any further action of the Parties upon the termination or expiration of Business Associate's provision of Services to Covered Entity.

4.4 Effect of Termination. Upon termination or expiration of this Agreement for any reason, Business Associate shall return all PHI pursuant to 45 C.F.R. § 164.504(e)(2)(ii)(I) if, and to the extent that, it is feasible to do so. Prior to doing so, Business Associate shall recover any PHI in the possession of its subcontractors or agents. To the extent it is not feasible for Business Associate to return or destroy any portion of the PHI, Business Associate shall provide Covered Entity a statement that Business Associate has determined that it is infeasible to return or destroy all or some portion of the PHI in its possession or in possession of its subcontractors or agents. Business Associate shall extend any and all protections, limitations and restrictions contained in this Agreement to any PHI retained after the termination of this Agreement until such time as the PHI is returned to Covered Entity or destroyed.

5. MISCELLANEOUS

5.1 Survival. The respective rights and obligations of Business Associate and Covered Entity under the provisions of Sections 4.4, 5.1, 5.6, and 5.7, and Section 2.1 (solely with respect to PHI that Business Associate retains in accordance with Section 4.4 because it is not feasible to return or destroy such PHI), shall survive termination of this Agreement until such time as the PHI is returned to Covered Entity or destroyed. In addition, Section 3.1(i) shall survive termination of this Agreement, provided that Covered Entity determines that the PHI being retained pursuant to Section 4.4 constitutes a Designated Record Set.

5.2 Amendments; Waiver. This Agreement may not be modified or amended, except in a writing duly signed by authorized representatives of the Parties. To the extent that any relevant provision of the HIPAA, HITECH or Red Flag Rules is materially amended in a manner that changes the obligations of Business Associates or Covered Entities, the Parties agree to negotiate in good faith appropriate amendment(s) to this Agreement to give effect to the revised obligations. Further, no provision of this Agreement shall be waived, except in a writing duly signed by authorized representatives of the Parties. A waiver with respect to one event shall not be construed as continuing, or as a bar to or waiver of any right or remedy as to subsequent events.

5.3 No Third Party Beneficiaries. Nothing express or implied in this Agreement is intended to confer, nor shall anything herein confer, upon any person other than the Parties and the respective successors or assigns of the Parties, any rights, remedies, obligations, or liabilities whatsoever.

5.4 Notices. Any notices to be given hereunder to a Party shall be made via U.S. Mail or express courier to such Party's address given below, and/or via facsimile to the facsimile telephone numbers listed below.

If to Covered Entity, to:

Victoria Chew MD
343 Soquel Avenue
Santa Cruz, CA 95062
Attn:_____
Phone:_____
Fax:_____

If to Business Associate, to:

NATIVIDAD MEDICAL CENTER
1441 Constitution Blvd.
Salinas, California 93906
Attention: Compliance Officer

Each Party named above may change its address and that of its representative for notice by the giving of notice thereof in the manner hereinabove provided. Such notice is effective upon receipt of notice, but receipt is deemed to occur on next business day if notice is sent by FedEx or other overnight delivery service.

5.5 Counterparts; Facsimiles. This Agreement may be executed in any number of counterparts, each of which shall be deemed an original. Facsimile copies hereof shall be deemed to be originals.

5.6 Choice of Law; Interpretation. This Agreement shall be governed by the laws of the State of California; as provided, however, that any ambiguities in this Agreement shall be resolved in a manner that allows Business Associate to comply with the Privacy Rule, and, if applicable, the Security Rule and the CMIA.

5.7 Indemnification. Contractor shall indemnify, defend, and hold harmless the County of Monterey (hereinafter County), its officers, agents, and employees from any claim, liability, loss, injury, cost, expense, penalty or damage, including the County's reasonable cost of providing notification of and of mitigating any acquisition, access, use or disclosure of PHI in a manner not permitted by this BAA, arising out of, or in connection with, performance of this BAA by Contractor and/or its agents, members, employees, or sub-contractors, excepting only loss, injury, cost, expense, penalty or damage caused by the negligence or willful misconduct of personnel employed by the County. It is the intent of the parties to this BAA to provide the broadest possible indemnification for the County. Contractor shall reimburse the County for all costs, attorneys' fees, expenses, and liabilities incurred by the County with respect to any investigation, enforcement proceeding or litigation in which Contractor is obligated to indemnify, defend, and hold harmless the County under this BAA. This provision is in addition to and independent of any indemnification provision in any related or other agreement between the Covered Entity and the Business Associate.

IN WITNESS WHEREOF, each of the undersigned has caused this Agreement to be duly executed in its name and on its behalf as of the Effective Date.

VICTORIA CHEW, M.D.

By: _____

Print Name: Victoria Chew

Print Title: Physician

Date: October 7, 2018

COUNTY OF MONTEREY, ON BEHALF OF
NATIVIDAD MEDICAL CENTER

By: _____

Print Name: _____

Print Title: CEO

Date: 10/15/18

IN WITNESS WHEREOF, each of the undersigned has caused this Agreement to be duly executed in its name and on its behalf as of the Effective Date.

VICTORIA CHEW, M.D.

By: Victoria Chew

Print Name: Victoria Chew

Print Title: Physician

Date: October 7, 2018

COUNTY OF MONTEREY, ON BEHALF OF *NATIVIDAD MEDICAL CENTER*

By:_____

Print Name:_____

Print Title:_____

Date:_____

Introduced: 10/6/2025
Version: 1

Current Status: Agenda Ready
Matter Type: General Agenda Item

a. Approve the Plans and Specifications for the Natividad Medical Center, Project #9600-55 Medical -Surgical 3 Renovation, Bid #NMC-1014 for contractors to bid on construction; and

b. Authorize Natividad Medical Center to advertise the "Notice to Contractors" in a newspaper of general circulation.

RECOMMENDATION:

It is recommended the Board of Supervisors:

a. Approve the Plans and Specifications for the Natividad Medical Center, Project #9600-55 Medical -Surgical 3 Renovation, Bid #NMC-1014 for contractors to bid on construction; and

b. Authorize Natividad Medical Center to advertise the "Notice to Contractors" in a newspaper of general circulation.

SUMMARY:

Natividad Medical Center is seeking Board of Supervisors' approval of the Construction Documents (Plans and Specifications) authorizing advertising for bids in a newspaper of general circulation.

DISCUSSION

Natividad Medical Center (NMC) is entering the advertising and bidding phase for the construction project to modernize and renovate the Medical-Surgical Inpatient Unit located on the third floor of Building 500. The project includes upgrades such as the integration of new technology-most notably, patient charting stations in each patient room and in hallway locations. Additional improvements include upgraded lighting at patient headwalls, and refreshed finishes in patient rooms, toilet rooms, and selected areas of the public corridors.

NMC engaged Hammel, Green and Abrahamson (HGA) to develop the construction documents and specifications for the Medical-Surgical 3 Renovation under NMC's On-Call Architectural Agreement (MYA6333). HGA submitted the construction documents to the California Department of Health Care Access and Information (HCAI) on May 23, 2024, and received approval on May 7, 2025.

Bid openings will take place at the Clerk of the Board's Conference Room 1032, located at the

Monterey County Government Center, 168 West Alisal Street, 1st Floor, Salinas, California 93901, where bids will be publicly opened and read aloud by the Contracts/Purchasing Agent. NMC will adhere to all applicable public contracting requirements throughout the bidding process. The recommended action authorizes staff to proceed with advertisement and selection of a contractor for the construction phase of the project.

OTHER AGENCY INVOLVEMENT:

The Office of County Counsel has reviewed and approved this Specifications as to form and legality, and the Auditor-Controller has reviewed and approved as to payment provisions. The Plans and Specifications has also been reviewed and approved by NMC's Finance Committee and by its Board of Trustees on October 3, 2025

FINANCING:

NMC has transferred $7,958,209 to Fund 404 to support the design and construction of the Medical-Surgical 3 Renovation Project. As of September 2025, current expenditures total $337,782. Based on the estimated probable cost, sufficient funding is available to cover construction. The total identified construction cost is $7,161,000, which includes $6,000,000 for construction and $1,161,000 allocated as a construction reserve. This action will have no impact on the General Fund.

BOARD OF SUPERVISORS STRATEGIC PALN GOALS SECTION:

The public bid process will allow Natividad Medical Center to receive multiple bids and identify the lowest responsive and responsible bidder. Overall, this project will significantly enhance the facility's quality, ensuring that patients receive the best possible care in a modern and comfortable environment.

__ Well-Being and Quality of Life
X_ Sustainable Infrastructure for Present and Future
___ Safe and Resilient Communities
__ Diverse and Thriving Economy
__ Administrative

Prepared by: Brian Griffin, Project Manager (831) 783-2605
Approved by: Charles R. Harris, Chief Executive Officer, 783-2553

Attachment(s): Project Manual, Phasing Plan, Plans and Specifications - Which Includes: The Notice to Contractors

Attachments on file with the Clerk of the Board

Introduced: 10/6/2025
Version: 1

Current Status: Agenda Ready
Matter Type: General Agenda Item

a. Approve the Plans and Specifications for the Natividad Medical Center, Project #9600-55 Medical -Surgical 3 Renovation, Bid #NMC-1014 for contractors to bid on construction; and

b. Authorize Natividad Medical Center to advertise the "Notice to Contractors" in a newspaper of general circulation.

RECOMMENDATION:

It is recommended the Board of Supervisors:

a. Approve the Plans and Specifications for the Natividad Medical Center, Project #9600-55 Medical -Surgical 3 Renovation, Bid #NMC-1014 for contractors to bid on construction; and

b. Authorize Natividad Medical Center to advertise the "Notice to Contractors" in a newspaper of general circulation.

SUMMARY:

Natividad Medical Center is seeking Board of Supervisors' approval of the Construction Documents (Plans and Specifications) authorizing advertising for bids in a newspaper of general circulation.

DISCUSSION

Natividad Medical Center (NMC) is entering the advertising and bidding phase for the construction project to modernize and renovate the Medical-Surgical Inpatient Unit located on the third floor of Building 500. The project includes upgrades such as the integration of new technology-most notably, patient charting stations in each patient room and in hallway locations. Additional improvements include upgraded lighting at patient headwalls, and refreshed finishes in patient rooms, toilet rooms, and selected areas of the public corridors.

NMC engaged Hammel, Green and Abrahamson (HGA) to develop the construction documents and specifications for the Medical-Surgical 3 Renovation under NMC's On-Call Architectural Agreement (MYA6333). HGA submitted the construction documents to the California Department of Health Care Access and Information (HCAI) on May 23, 2024, and received approval on May 7, 2025.

Bid openings will take place at the Clerk of the Board's Conference Room 1032, located at the

Monterey County Government Center, 168 West Alisal Street, 1st Floor, Salinas, California 93901, where bids will be publicly opened and read aloud by the Contracts/Purchasing Agent. NMC will adhere to all applicable public contracting requirements throughout the bidding process. The recommended action authorizes staff to proceed with advertisement and selection of a contractor for the construction phase of the project.

OTHER AGENCY INVOLVEMENT:

The Office of County Counsel has reviewed and approved this Specifications as to form and legality, and the Auditor-Controller has reviewed and approved as to payment provisions. The Plans and Specifications has also been reviewed and approved by NMC's Finance Committee and by its Board of Trustees on October 3, 2025

FINANCING:

NMC has transferred $7,958,209 to Fund 404 to support the design and construction of the Medical-Surgical 3 Renovation Project. As of September 2025, current expenditures total $337,782. Based on the estimated probable cost, sufficient funding is available to cover construction. The total identified construction cost is $7,161,000, which includes $6,000,000 for construction and $1,161,000 allocated as a construction reserve. This action will have no impact on the General Fund.

BOARD OF SUPERVISORS STRATEGIC PALN GOALS SECTION:

The public bid process will allow Natividad Medical Center to receive multiple bids and identify the lowest responsive and responsible bidder. Overall, this project will significantly enhance the facility's quality, ensuring that patients receive the best possible care in a modern and comfortable environment.

__ Well-Being and Quality of Life
X_ Sustainable Infrastructure for Present and Future
___ Safe and Resilient Communities
__ Diverse and Thriving Economy
__ Administrative

Prepared by: Brian Griffin, Project Manager (831) 783-2605
Approved by: Charles R. Harris, Chief Executive Officer, 783-2553

Attachment(s): Project Manual, Phasing Plan, Plans and Specifications - Which Includes: The Notice to Contractors

Attachments on file with the Clerk of the Board

NOTE: RENDERING NOT FOR CONSTRUCTION USE

NATIVIDAD MEDICAL CENTER

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

Natividad MEDICAL CENTER

HGA
222 SUTTER STREET, SUITE 500
SAN FRANCISCO, CALIFORNIA 94108
TELEPHONE: 415.814.6910

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

HGA COMMISSION NUMBER: 3707-016-00

CONSTRUCTION DOCUMENT
APRIL, 16, 2024

PROJECT INFORMATION

PROJECT NAME: NATIVIDAD MEDICAL CENTER - MEDICAL SURGE DEPARTMENT

PROJECT DESCRIPTION: UPGRADING THE EXISTING MEDICAL-SURGICAL INPATIENT UNIT ON LEVEL 3 OF THE NATIVIDAD MEDICAL CENTER HOSPITAL, TO BRING THE UNIT UP TO OTHER RECENTLY UPGRADED UNITS. THE FOCUS OF THE UPGRADING ARE AS FOLLOWS: (1) ADDING CHARTING STATIONS TO EACH PATIENT ROOM AND HALLWAY STATIONS, (2) CONVERTING A SELECT GROUP OF PRIVATE ROOMS TO SEMI-PRIVATES, (3) UPGRADING LIGHTING AT THE PATIENT HEADWALLS (TO SUPPORT #2), (4) UPGRADING THE FINISHES AT THE TOILET ROOMS (INCLUDING MAKING THREE TOILET-SHOWER ROOMS ACCESSIBLE), AND (5) UPGRADING FINISHES TO THE PATIENT ROOMS AND SELECT PORTIONS OF THE PUBLIC CORRIDORS.

PROJECT OCCUPANCY:
I-2

TYPE OF CONSTRUCTION:
TYPE 1-A, FULLY SPRINKLERED

FACILITY NAME:
NATIVIDAD MEDICAL CENTER
1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI FACILITY ID#:
17353
HCAI ID#:
106274043

APPROXIMATE PROJECT FLOOR AREA:
10,770 SF

PROJECT BUILDING NUMBER/ BUILDING NAME:
BLD-02545/
ACUTE CARE (BLDG.500) - BLDG 04

FACILITY NAME:
NATIVIDAD MEDICAL CENTER
1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI FACILITY ID#:
17353
HCAI ID#:
106274043

APPROXIMATE PROJECT FLOOR AREA:
10,770 SF

NUMBER OF STORIES:
3

ROJECT BUILDING DATE OF ORIGINAL CONSTRUCTION:
2005

PROJECT BUILDING SEISMIC PERFORMANCE:
SPC: 5
NPC: 3

SEISMIC DESIGN:
D

CONTACT INFORMATION

OWNER: NATIVIDAD MEDICAL CENTER — PHONE: (831) 755-6285
CONTACT: ANDREA ROSENBERG — EMAIL: ROSENBERGAJ@NATIVIDAD.COM

ARCHITECT: HAMMEL, GREEN AND ABRAHAMSON — PHONE: (415) 814-6916
CONTACT: JOANN BROOKES — EMAIL: JBROOKES@HGA.COM

STRUCTURAL: BUEHLER ENGINEERING — PHONE: (916) 443-0303
CONTACT: WARREN POTTEBAUM EMAIL: WPOTTEBAUM@BUEHLERENGINEERING.COM

MECHANICAL: GLUMAC — PHONE: (415) 398-7667
CONTACT: BEAU BRUNEMAN — EMAIL: BBRUNEMAN@GLUMAC.COM

PLUMBING: GLUMAC — PHONE: (415) 398-7667
CONTACT: DANIEL HARPER — EMAIL: DHARPER@GLUMAC.COM

ELECTRICAL: INT-ELECT ENGINEERING — PHONE: (408) 846-7171
CONTACT: DOUGLAS BLESSING — EMAIL: DOUG@INT-ELECT.COM

INTERIORS: GALLUN SNOW — PHONE: (720) 407-6016
CONTACT: COURTNEY MCNAUL — EMAIL: CMCNAUL@GALLUNSNOW.COM

CODE INFORMATION

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC)
PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
2022 CALIFORNIA BUILDING CODE (CBC):
PART 2, TITLE 24, CCR; BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC)
2022 CALIFORNIA ELECTRICAL CODE (CEC):
PART 3, TITLE 24, CCR; BASED ON THE 2020 NATIONAL ELECTRICAL CODE (NEC)
2022 CALIFORNIA MECHANICAL CODE (CMC):
PART 4, TITLE 24, CCR;BASED ON THE 2021 UNIFORM MECHANICAL CODE (UMC)
2022 CALIFORNIA PLUMBING CODE (CPC):
PART 5, TITLE 24, CCR; BASED ON THE 2021 UNIFORM PLUMBING CODE (UPC)
2022 CALIFORNIA FIRE CODE(CFC):
PART 9, TITLE 24, CCR, BASED ON THE 2021 INTERNATIONAL FIRE CODE (IFC)
ACCESSIBILITY CODE:
CHAPTER 11/11B, 2016 CBC AND 2010 ADA (28 CFR PART 36)
ENERGY CODE:
2019 CALIFORNIA ENERGY CODE - PART 6, TITLE 24, CCR
SIGN CODE:
AMERICANS WITH DISABILITIES ACT (ADA), CBC (TITLE 24), & UFC (TITLE 19)
ANSI:
CABO/ANSI A117-1 - 1992 (ACCESSIBILITY)
FM INSURED:
N/A
HEALTH DEPARTMENT REGULATIONS:
CALIFORNIA DEPARTMENT PUBLIC HEALTH (CDPH)
HEALTHCARE DESIGN GUIDELINES:
CHAPTER 4, CBC - PART 2, TITLE 24, CCR AND TITLE 22 - DIVISION 5, CCR
AUTHORITY HAVING JURISDICTION:
CALIFORNIA DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION (HCAI)
COUNTY OF:
MONTEREY COUNTY, CALIFORNIA (HCAI COUNTY CODE: 27)

DEFERRED SUBMITTALS

1. FIRE SPRINKLER DESIGN.
2. SEISMIC BRACING FOR MECHANICAL AND PLUMBING SYSTEMS, INCLUDING EQUIPMENT, PIPING, AND DUCTWORK.
3. PIPE SYSTEM CERTIFICATION AND ANALYSIS.
4. FIRE ALARM..

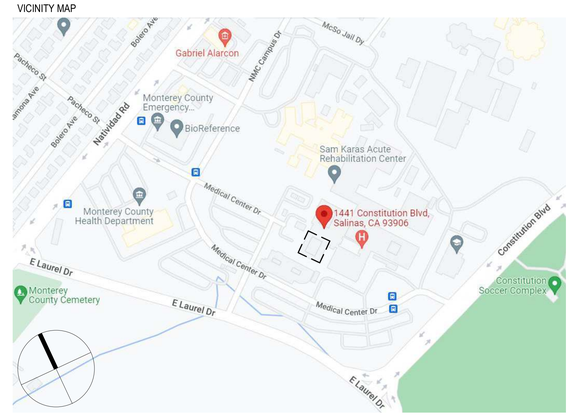
DRAWING INDEX

REV #	NUMBER	SHEET NAME
1-GENERAL		
BC2	G000	COVERSHEET
BC1	G031	LIFE SAFETY PLAN LEVEL 01
BC2	G033	LIFE SAFETY PLAN LEVEL 02 & 03
4-ARCHITECTURAL		
	A010	GENERAL NOTES AND SYMBOLS
	A011	MATERIAL IDENTIFICATION CODES
BC2	A103	DEMOLITION PLAN - LEVEL 03
	A123	DEMOLITION REFLECTED CEILING PLAN - LEVEL 03
BC2	A203	OVERALL FLOOR PLAN - LEVEL 03
BC2	A203.A1	ENLARGED FLOOR PLAN - LEVEL 03 AREA A1
BC2	A203.A2	ENLARGED FLOOR PLAN - LEVEL 03 AREA A2
BC2	A302	REFLECTED CEILING PLAN - LEVEL 02
BC1	A303	REFLECTED CEILING PLAN - LEVEL 03
BC2	A600	TYPICAL MOUNTING HEIGHTS AND CLEARANCES
	A601	SIGNAGE + DESIGN GUIDE - MOUNTING HEIGHTS
	A602	TYPICAL RESTROOM AND SHOWER PLANS
BC2	A620	ENLARGED TOILET PLANS & INTERIOR ELEVATIONS
BC1	A621	ENLARGED SEMI-PRIVATE PATIENT ROOM PLAN & ELEVATIONS
BC1	A622	ENLARGED SINGLE PATIENT ROOM PLAN & ELEVATIONS
BC1	A623	ENLARGED IMC PATIENT ROOM PLAN & ELEVATIONS
BC2	A624	INTERIOR ELEVATIONS
BC1	A625	INTERIOR ELEVATIONS
BC1	A626	INTERIOR ELEVATIONS
BC1	A640	TYPICAL CASEWORK DETAILS AND GENERAL NOTES
	A650	TOILET/SHOWER DETAILS
BC2	A660	TYPICAL INTERIOR PARTITION TYPES
	A663	OPD - STANDARD PARTITION WALL DETAILS
	A663.1	OPD - STANDARD PARTITION WALL DETAILS
	A663.2	OPD - STANDARD PARTITION WALL DETAILS
	A663.3	OPD - STANDARD PARTITION WALL DETAILS
	A663.4	OPD - STANDARD PARTITION WALL DETAILS
	A663.5	OPD - STANDARD PARTITION WALL DETAILS
BC1	A670	CEILING DETAILS
	A671	CEILING DETAILS - ACOUSTICAL TILE/LAY-IN PANEL OPDS
	A671.1	CEILING DETAILS - ACOUSTICAL TILE/LAY-IN PANEL OPDS
	A671.2	CEILING DETAILS - ACOUSTICAL TILE/LAY-IN PANEL OPDS
	A671.3	CEILING DETAILS - ACOUSTICAL TILE/LAY-IN PANEL OPDS
	A671.4	CEILING DETAILS - ACOUSTICAL TILE/LAY-IN PANEL OPDS
	A672	CEILING DETAILS - JOISTED GYP BOARD OPDS
BC1	A673	CEILING DETAILS - JOISTED GYP BOARD - 1HR RATED
	A680	OPENING DETAILS
BC1	A690	FINISH DETAILS
BC1	A700	DOOR SCHEDULE
BC1	A730	EQUIPMENT SCHEDULE
BC1	A740	UL LISTINGS
4I- INTERIOR		
	I-010	FINISH LEGEND, GENERAL NOTES, AND ABBREVIATIONS
	I-020	FINISH SCHEDULE
	I-100	INTERIOR FINISH PLAN - A1
	I-101	INTERIOR FINISH PLAN - A2
	I-102	INTERIOR FLOOR PATTERN PLAN - A1

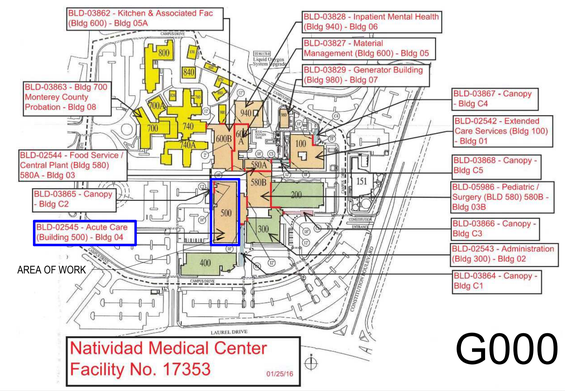
DRAWING INDEX

REV #	NUMBER	SHEET NAME
	I-103	INTERIOR FLOOR PATTERN PLAN - A2
	I-104	INTERIOR WALL PROTECTION PLAN - A1
	I-105	INTERIOR WALL PROTECTION PLAN - A2
	I-200	INTERIOR DETAILS
5-STRUCTURAL		
	S1.01	GENERAL NOTES
	S2.01	THIRD FLOOR PARTIAL PLAN
BC2	S2.02	DETAILS
	S2.03	DETAILS
7-MECHANICAL		
	M000	MECHANICAL LEGEND AND ABBREVIATIONS
	M001	MECHANICAL SHEET SPECIFICATIONS
	M002	BASIS OF DESIGN AND TABULATED DATA
	M101	LEVEL 3 - HVAC DEMOLITION PLAN
	M203	LEVEL 3 - HVAC PLAN
	M901	MECHANICAL DETAILS
8-ARCHITECTURAL		
	A011	MATERIAL IDENTIFICATION CODES
	A201	FLOOR PLAN - LEVEL 01
	A301	REFLECTED CEILING PLAN - LEVEL 01
8-PLUMBING		
	P000	PLUMBING LEGEND AND ABBREVIATIONS
	P001	PLUMBING SHEET SPECIFICATIONS
	P002	SCHEDULES & DETAILS
BC2	P100	LEVEL 2 - PLUMBING DEMOLITION PLAN
	P101	LEVEL 3 - PLUMBING DEMOLITION PLAN
BC2	P200	LEVEL 2 - PLUMBING PLAN
	P201	LEVEL 3 - PLUMBING PLAN
	P601	ENLARGED PLANS
	P602	ENLARGED PLANS
	P603	ENLARGED PLANS
9-ELECTRICAL		
	E001	ELECTRICAL SYMBOLS & GENERAL NOTES
	E101	PARTIAL SINGLE LINE DIAGRAMS & PANEL SCHEDULES
	E102	E102 PARTIAL SINGLE LINE DIAGRAMS & PANEL SCHEDULES
	E103	PARTIAL SINGLE LINE DIAGRAMS & PANEL SCHEDULES
	E104	RELOCATE-REMOVE LOAD MATRIX & LIGHTING FIXTURE SCHEDULES
	E200	OVERALL LIGHTING PLAN
	E201	LIGHTING DEMOLITION PLAN - PART A
	E202	LIGHTING DEMOLITION PLAN - PART B
	E203	LIGHTING DEMOLITION PLAN - PART C
	E204	LIGHTING PLAN - PART A
	E205	LIGHTING PLAN - PART B
	E206	LIGHTING PLAN - PART C
	E300	OVERALL POWER PLAN
	E301	POWER DEMOLITION PLAN - PART A
	E302	POWER DEMOLITION PLAN - PART B
	E303	POWER DEMOLITION PLAN - PART C
	E304	POWER PLAN - PART A
	E305	POWER PLAN - PART B
	E306	POWER PLAN - PART C
	E401	ELECTRICAL DETAILS
	E501	ELECTRIAL SPECIFICATIONS - PART 1
	E502	ELECTRIAL SPECIFICATIONS - PART 2
Grand total: 99		

VICINITY MAP



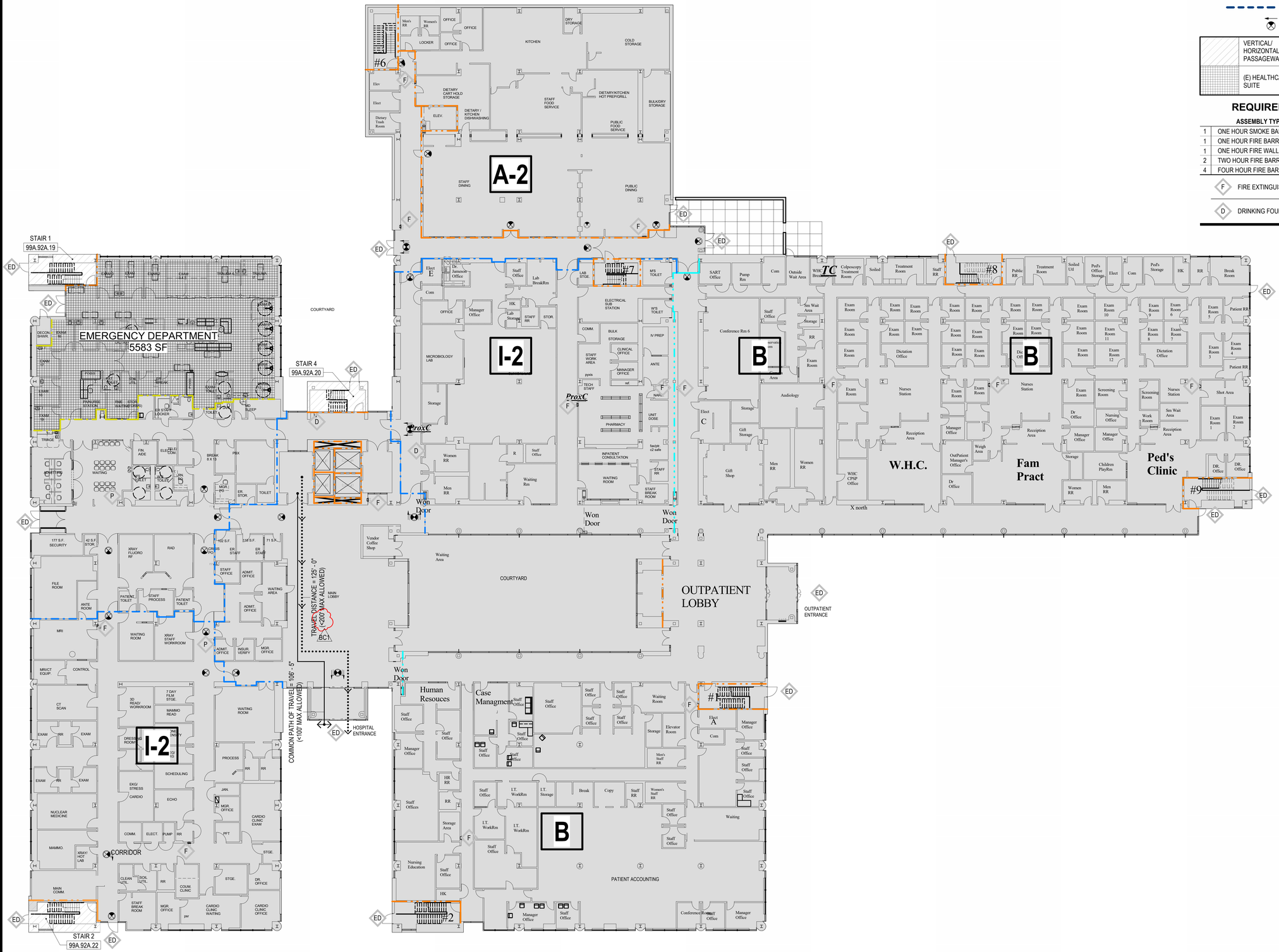
FACILITY MAP - 17353



G000

3/26/2025 1:58:52 PM

© COPYRIGHT HAMMEL, GREEN AND ABRAHAMSON, INC.



1 LIFE SAFETY PLAN - LEVEL 01
1/16" = 1'-0"

LIFE SAFETY PLAN SYMBOL DESIGNATIONS

(SYMBOLS ONLY- SEE LIFE SAFETY PLANS FOR ACTUAL INFORMATION)

I-2	OCCUPANCY CLASSIFICATION
XXX SF	HEALTHCARE SUITE SQUARE FOOTAGE (10,000 SF MAX AT NON-SLEEPING TREATMENT AREAS) (7,500 SF MAX AT SLEEPING AREAS)
	TRAVEL DISTANCE TO NEAREST EXIT
	ACCESSIBLE PATH OF TRAVEL
	EXIT SIGN
	VERTICAL/ HORIZONTAL EXIT PASSAGEWAY
	(E) HEALTHCARE SUITE
	NEW EXIT PATHIEGRESS CORRIDOR
	AREA NIC

REQUIRED ASSEMBLY RATING

	ASSEMBLY TYPE	EXISTING
1	ONE HOUR SMOKE BARRIER	ES
1	ONE HOUR FIRE BARRIER	EB
1	ONE HOUR FIRE WALL	EW
2	TWO HOUR FIRE BARRIER	EB
4	FOUR HOUR FIRE BARRIER	EB

F	FIRE EXTINGUISHER	ED	EXIT DISCHARGE
D	DRINKING FOUNTAIN	P	PUBLIC TELEPHONE

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353

KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

LIFE SAFETY PLAN LEVEL 01

DATE: APRIL 16, 2024

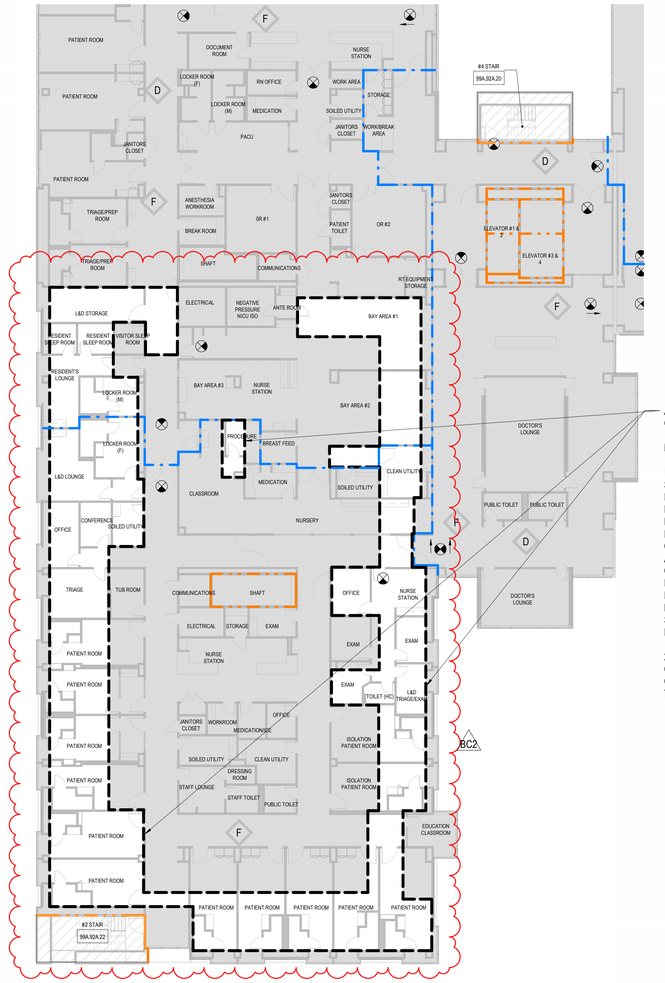
CONSTRUCTION DOCUMENTS

G031

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

12/15/2024 7:46:28 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/A29-Natividad Med Surg 3 Unit - 3707-016-00.rvt



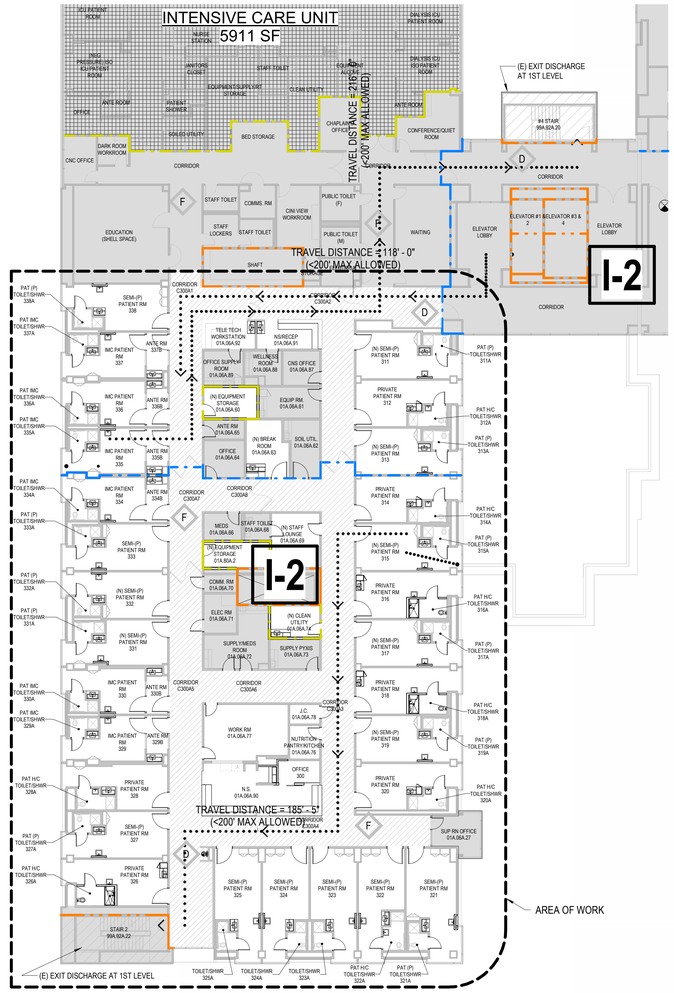
AREA OF WORK (ABOVE CEILING ONLY)

NOTE:

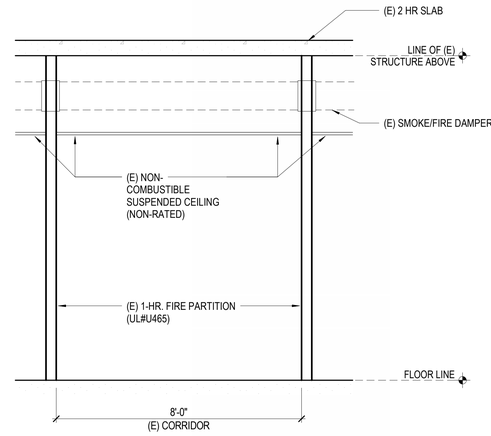
1.) EXISTING CEILING GRID SYSTEM TO REMAIN INCLUDING EXISTING MECHANICAL REGISTERS, LIFE SAFETY DEVICES, AND LIGHT FIXTURES. REMOVE AND SALVAGE EXISTING CEILING PANES AS REQUIRED TO ACCESS ABOVE CEILING DURING CONSTRUCTION. DAMAGE TO EXISTING CEILING GRID, CEILING PANEL, MECHANICAL REGISTERS, LIFE SAFETY DEVICES, ETC. SHALL BE REPAIRED OR REPLACED TO MATCH EXISTING.

2.) PROVIDE FIRE STOPPING AT CORE OPENINGS DURING CONSTRUCTION TO MAINTAIN THE EXISTING 2-HR.

1 LIFE SAFETY PLAN - LEVEL 02
1/16" = 1'-0"



2 LIFE SAFETY PLAN - LEVEL 03
1/16" = 1'-0"



3 1-HR RATED CORRIDOR -(E) CONDITION
1/2" = 1'-0"

LIFE SAFETY PLAN SYMBOL DESIGNATIONS

(SYMBOLS ONLY- SEE LIFE SAFETY PLANS FOR ACTUAL INFORMATION)

I-2	OCCUPANCY CLASSIFICATION
XXX SF	HEALTHCARE SUITE SQUARE FOOTAGE (10,000 SF MAX AT NON-SLEEPING TREATMENT AREAS) (7,500 SF MAX AT SLEEPING AREAS)
	TRAVEL DISTANCE TO NEAREST EXIT
	ACCESSIBLE PATH OF TRAVEL
	EXIT SIGN

	VERTICAL/ HORIZONTAL EXIT PASSAGEWAY		NEW EXIT PATHEGRESS CORRIDOR
	(E) HEALTHCARE SUITE		AREA NIC

REQUIRED ASSEMBLY RATING

	ASSEMBLY TYPE	EXISTING
1	ONE HOUR SMOKE BARRIER	ES
1	ONE HOUR FIRE BARRIER	EB
1	ONE HOUR FIRE WALL	EW
2	TWO HOUR FIRE BARRIER	EB
4	FOUR HOUR FIRE BARRIER	EB

F	FIRE EXTINGUISHER	ED	EXIT DISCHARGE
D	DRINKING FOUNTAIN	P	PUBLIC TELEPHONE

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

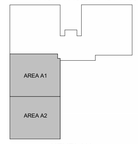
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S2405193-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-29256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024
BC2	BACKCHECK#2	03/14/2025

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

LIFE SAFETY PLAN LEVEL 02 & 03

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

G033

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 3/26/2025 3:58:49 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/A22_Natividad Med Surg 3 Unit - 3707-016-00.rvt

A	
A/E	ARCHITECT/ENGINEER
ACOUS	ACOUSTICAL
AD	ACCESS DOOR
ADA	THE AMERICANS WITH DISABILITIES ACT
ADD	ADDENDUM
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
ADJC	ADJACENT
AED	DEFIBRILATOR
AF	ACCESS FLOOR
AFF	ABOVE FINISH FLOOR
AL	ALUMINUM
ALT	ALTERNATE
AP	ACCESS PANEL
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECT(URAL)
ASC	ABOVE SUSPENDED CEILING
ASPH	ASPHALT
B	
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BO	BOTTOM OF
BOT	BOTTOM
BRKT	BRACKET
BS	BACKSPLASH
BSMT	BASEMENT
BTW	BETWEEN
BYND	BEYOND
C	
CAB	CABINET
CEN	CENT(ER) (TRAL)
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CG	CORNER GUARD
CIP	CAST IN PLACE
CJ	CONTROL/CONSTRUCTION JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR(ANCE)
CLR	CLEAR
CMPST	COMPOSITE
CMU	CONCRETE MASONRY UNIT
CNTFG	CENTRIFUGE
CNTR	COUNTER
CO	CASED OPENING; CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONN	CONNEC(TION)
CONST	CONSTRUCTION
CONT	CONTINU(E) (OUS) (ATION)
CONT	CONTINUOUS
CORR	CORRIDOR
CR	CARD READER
CYL	CYLINDER
D	
D	DEEP, DEPTH
DBL	DOUBLE
DED	DEDICATED
DEG	DEGREE
DEMO	DEMO(LISH) (LITION)
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DN	DOWN
DO	DATA OUTLET
DR	DOOR
DWG(S)	DRAWING(S)
E	
(E), EXIST	EXISTING
E	ELEVATOR
EA	EACH
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EMER	EMERGENCY
EMI	ELECTROMAGNETIC INTERFERENCE
ENCL	ENCLOSURE
EO	ELECTRICAL OUTLET
EOS	EDGE OF SLAB
EP	ELECTRICAL PANEL
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EPRF	EXPLOSION PROOF
EQ	EQUAL
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EXCL	EXCLUD(E) (ED) (ING)
EXG	EXISTING
EXH	EXHAUST
EXP	EXPAN(D) (SION)
EXT	EXTERIOR
EXTR	EXTERIOR
F	
F/F	FACE TO FACE
FA	FIRE ALARM
FACP	FIRE ALARM PANEL
FAS	FASTEN(ED) (ER)
FB	FLAT BAR
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FLOOR FINISH
FHC	FIRE HOSE CABINET
FHP	FULL HEIGHT PARTITION
FIN	FINISH
FL	FLASHING
FLR	FLOOR(ING)
FO	FACE OF
FOC	FACE OF CONCRETE
FOW	FACE OF WALL
FP	FILLER PANEL
FSTR	FASTEN(ED) (ER)
FT	FOOT, FEET
FTG	FOOTING
G	
G	GAS
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GL	GLASS
GR	GRADE
GWB	GYPSUM WALL BOARD
H	
H	HIGH, HEIGHT
HB	HOSE BIB
HD	HEAD
HDW	HARDWARE
HDWD	HARDWOOD
HGT	HEIGHT
HM	HOLLOW METAL
HMD	HOLLOW METAL DOOR
HO	HOLD OPEN
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HANDRAIL(S)
HT	HEIGHT
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HYDR	HYDRAULIC
I	
ID	INSIDE DIAMETER/DIMENSION
IN	INCH(ES)
INCL	INCLU(DE) (DED) (DING) (SIVE)
INSUL	INSULAT(E) (ED)
INT	INTERIOR
INTR	INTERIOR
J	
JAN	JANITOR
JST	JOIST
JT	JOINT
K	
KOP	KNOCKOUT PANEL
KPL	KICK PLATE
KS	KNEE SPACE
L	
L	ANGLE (STRUC SHAPE)
LAB	LABORATORY
LAV	LAVATORY
LB	POUND
LENGTH	LONG, LENGTH
LF	LINEAR FOOT
LFFEET	LINEAL FOOT, FEET
LH	LEFT HAND
LHR	LEFT HAND REVERSE
LKR	LOCKER
LNTL	LINTEL
LT	LIGHT
LTG	LIGHTING
LTWT	LIGHTWEIGHT
LVL	LEVEL
LVR	LOUVER
M	
MACH	MACHINE
MAINT	MAINTENANCE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKERBOARD
MECH	MECHANICAL(LY)
MED	MEDIUM
MEMB	MEMBRANE
MET	METAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MT(D)	MOUNT(ED)
MTL	METAL
MUL	MULLION
MVBL	MOVABLE
N	
N	NORTH; NITROGEN
N/A	NOT APPLICABLE
NEC	NECESSARY
NIC	NOT IN CONTRACT
NO2	NITROUS OXIDE
NOM	NOMINAL
NTS	NOT TO SCALE
O	
O	OXYGEN
O2	OXYGEN
OC	ON CENTER
OD	OUTSIDE DIAMETER/DIMENSION
OF	OUTSIDE FACE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFF	OFFICE
OFOI	OWNER FURNISHED, OWNER INSTALLED
OFVI	OWNER FURNISHED, VENDOR INSTALLED
OH	OVERHEAD
OH	OPPOSITE HAND
OHSC	OVERHEAD SERVICE CARRIER
OPG	OPENING
OPP	OPPOSITE
OPT	OPTION(AL)
P	
PA	POWER ASSIST
PAR	PARALLEL
PART	PARTICLE; PARTIAL
PB	PANIC BAR
PC	PRECAST
PERF	PERFORATED
PERIM	PERIMETER
PGBD	PEG BOARD
PL	PLATE
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PNEU	PNEUMATIC
PNL	PANEL
PR	PAIR
PRCST	PRECAST
PREFAB	PREFABRICATED
PTD	PAINTED
PTN	PARTITION
PTS	PNEUMATIC TUBE STATION
Q	
QTY	QUANTITY
R	
R	RADIUS; RADII; RISER (STAIR)
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REC	RECESSED
RECP	RECEPTACLE
REF	REFER(ENCE)
REFR	REFRIGERATOR
REINF	REINFORC(E) (ED) (ING) (EMENT)
REQD	REQUIRED
RESIL	RESILIENT
REV	REVIS(E) (ED) (ION)
RH	RIGHT HAND
RHR	RIGHT HAND REVERSE
RM	ROOM
RO	ROUGH OPENING
S	
SCHED	SCHEDULE
SECT	SECTION
SF	SQUARE FOOT/FEET
SHT	SHEET(ING)
SHTG	SHEATHING
SIM	SIMILAR
SKLT	SKYLIGHT(S)
SPEC(S)	SPECIFICATION(S)
SPK	SPEAKER
SS	STAINLESS STEEL
ST	STREET
STAG	STAGGER
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUC	STRUCTUR(E) (AL)
SUSP	SUSPENDED
SYM	SYMMETR(Y) (ICAL)
T	
T	TREAD
T&G	TONGUE AND GROOVE
T/D	TELEPHONE DATA OUTLET
TEL	TELEPHONE
TEMP	TEMPORARY
TER	TERRAZZO
THK	THICKNESS
TME	TO MATCH EXISTING
TO	TOP OF
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL
TV	TELEVISION
TYP	TYPICAL
U	
UC	UNDER CABINET
UCL	UNDER CABINET LIGHTING
UNEX	UNEXCAVATED
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UR	URINAL
UV	ULTRAVIOLET
V	
VAC	VACUUM
VAR	VAR(Y) (IES) (IATION)
VCT	VINYL COMPOSITION TILE
VEN	VENEER
VERT	VERTICAL
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
W	
W	WIDE, WIDTH
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WP	WATERPROOFING
WSCT	WAINSCOT
WT	WEIGHT
X	
XP(D)	EXPOSE(D)

SPECIAL SYMBOLS			
&	AND	#	NUMBER
∠	ANGLE(STRUC SHAPE)	/	PER
@	AT	⊥	PERPENDICULAR
℄	CENTERLINE	±	PLUS/MINUS
ø	DIAMETER		

GENERAL NOTES - CALIFORNIA HOSPITAL

A. THESE GENERAL NOTES APPLY TO THE CONSTRUCTION DOCUMENTS AND SHALL GOVERN UNLESS NOTED OTHERWISE BY GENERAL NOTES OR KEYNOTES ON SPECIFIC SHEETS.

B. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO ADD TO AND REMODEL PORTIONS OF THE HOSPITAL BUILDING IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID TITLE 24. CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY HCAI BEFORE PROCEEDING WITH THE WORK.

C. ATTACHMENTS OF EQUIPMENT WEIGHING LESS THAN 400# AND SUPPORTED DIRECTLY ON THE FLOOR OR ROOF STRUCTURE, FURNITURE OR TEMPORARY OR MOVEABLE EQUIPMENT AND EQUIPMENT WEIGHING LESS THAN 20# THAT IS SUPPORTED BY VIBRATION ISOLATION DEVICES SUPPORTED FROM THE ROOF, WALL OR FLOOR NEED NOT BE DETAILED ON THE PLANS. (CBC TITLE 24 PART 2 SECTION 1617A.1.18 ASCE 7, SECTION 13.1.4). HOWEVER, SUCH EQUIPMENT MUST BE SUPPORTED AND ANCHORED TO RESIST THE FORCES PRESCRIBED BY CBC 1617A.1.18 AND ANCHORAGE SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD AND HCAI AS PART OF FIELD REVIEWS/INSPECTIONS. THE INSPECTOR OF RECORD SHALL ASSURE THAT THE ABOVE REQUIREMENTS ARE ENFORCED.

D. ALL PIPES, DUCTS AND CONDUITS SHALL BE SUPPORTED AND BRACED PER HCAI ANCHORAGE PRE-APPROVAL NO. OPM-0043-13, "MASON INDUSTRIES, INC. SEISMIC RESTRAINT COMPONENTS FOR SUSPENDED UTILITIES". FIRE PROTECTION SYSTEMS MAY ALTERNATIVELY BE SUPPORTED AND BRACED PER HCAI ANCHORAGE PRE-APPROVAL NO. OPM-0052-13, "B-LINE/TOLCO SEISMIC BRACING AND SUPPORT SYSTEMS".

E. SPACING AND DETAILS OF THE SUPPORT AND BRACING OF FIRE SPRINKLER PIPING SHALL COMPLY WITH HCAI'S CURRENTLY ADOPTED EDITION OF NFPA 13 AS MODIFIED BY THE 2022 CBC SECTION 1616A AND SFM AMENDMENTS, "INSTALLATION OF SPRINKLER SYSTEMS" WHERE APPLICABLE, DETAILS FOR SUPPORT AND BRACING OF SPRINKLER SYSTEMS MAY COMPLY WITH HCAI PRE-APPROVED ANCHORAGE SYSTEMS.

F. ENERGY COMPLIANCE: THE FOLLOWING SECTIONS OF THE CALIFORNIA ENERGY CODE CCR TITLE 24, PART 6 SHALL BE FOLLOWED FOR THIS CONSTRUCTION.
1. DEVICES (SECTION 100(G)): THE USE OF MANUFACTURED DEVICES IS LIMITED TO DEVICES CERTIFIED BY THE MANUFACTURER TO MEET OR EXCEED THE MINIMUM SPECIFICATIONS OR EFFICIENCIES ADOPTED BY THE CALIFORNIA ENERGY COMMISSION.
2. CONSTRUCTION (SECTION 101): COMPLY WITH THE DEFINITIONS AND RULES OF CONSTRUCTION.
3. INSULATION (SECTION 118): THE USE OF INSULATING MATERIALS IS LIMITED TO ONLY THOSE THAT HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS OF INSULATING MATERIAL, TITLE 20, CHAPTER 4, ARTICLE 3. ALL INSULATING MATERIALS SHALL COMPLY WITH THE FLAME SPREAD RATING AND SMOKE DENSITY LIMITATIONS OF THE CBC. INSTALLATION AND R-VALUES FOR INSULATING MATERIALS SHALL BE IN COMPLIANCE WITH SECTION 118.

G. THE AUTOMATIC FIRE SPRINKLER SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF HCAI'S CURRENTLY ADOPTED EDITION OF NFPA 13 AS MODIFIED BY THE 2022 CBC AND SFM AMENDMENTS. INSTALLATION OF THE FIRE SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS (INCLUDING WATER SUPPLY INFORMATION) HAVE BEEN APPROVED BY HCAI. AT VARIOUS STAGES AND UPON COMPLETION THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF THE ENFORCING AGENCY.

H. ALL EQUIPMENT SHALL BE LISTED, LABELED OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY, INCLUDING X-RAY AND DIAGNOSTIC EQUIPMENT.

I. OUTLET BOXES IN FIRE RATED WALLS AND PARTITIONS SHALL BE SEPARATED HORIZONTALLY A MINIMUM OF 24 INCHES PER CBC 714.4.2.1.1.

J. THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRIC CODE AND SECTION 907 OF THE 2022 CALIFORNIA FIRE CODE.

K. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.

L. PENETRATIONS OF PIPES, CONDUITS, ETC. IN RATED ASSEMBLIES SHALL BE FIRE-STOPPED. FIRE-STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED BY THE STATE FIRE MARSHALL STANDARDS PROTECTION DETAILS OF THRU-PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL BE UL/WH LISTED AND COMPLY WITH CBC, SECTION 714. PROTECTION DETAILS OF MEMBRANE PENETRATIONS THROUGH FIRE PARTITIONS SHALL COMPLY WITH CBC SECTION 714.4.2

M. COORDINATE ALL PROJECT PHASING WITH OWNER OR AS SPECIFIED AND/OR SHOWN ON THE DRAWINGS.

N. PROVIDE A SAFE MEANS OF EGRESS THROUGH AND/OR AROUND THE BUILDING AND SITE PER APPLICABLE CODES AT ALL TIMES DURING THE CONSTRUCTION PROCESS. MINIMIZE DISRUPTION TO ADJACENT AREAS/FLOORS AS MUCH AS POSSIBLE.

O. MINIMIZE NOISE TO A LEVEL ACCEPTABLE TO THE OWNER. SCHEDULE TASKS CREATING EXCESSIVE NOISE OR NEAR SENSITIVE AREAS WITH THE OWNER.

P. PROVIDE DUST CONTROL BETWEEN CONSTRUCTION AREAS AND OCCUPIED AREAS AT ALL TIMES AS SPECIFIED.

Q. NOTIFY ARCHITECT PROMPTLY IF INFORMATION SHOWN IN ONE CONSTRUCTION DOCUMENT CONFLICTS WITH INFORMATION SHOWN ON ANOTHER.

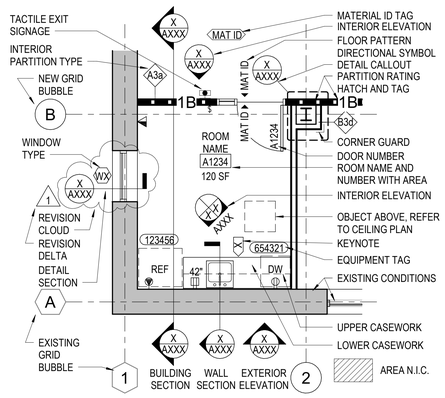
R. NOTIFY ARCHITECT PROMPTLY IF CONSTRUCTION DOCUMENTS ARE INCONSISTENT WITH THE CURRENT APPLICABLE CODES AND REGULATIONS.

S. NOTIFY ARCHITECT PROMPTLY IF ANY EXISTING CONDITIONS CONFLICT WITH THE CONSTRUCTION DOCUMENTS.

T. STRUCTURAL STEEL MEMBER PROFILES AS INDICATED ON ARCHITECTURAL DRAWINGS MAY VARY FROM ACTUAL PROFILES AND SIZES INDICATED ON THE STRUCTURAL DRAWINGS WHICH SHALL GOVERN.

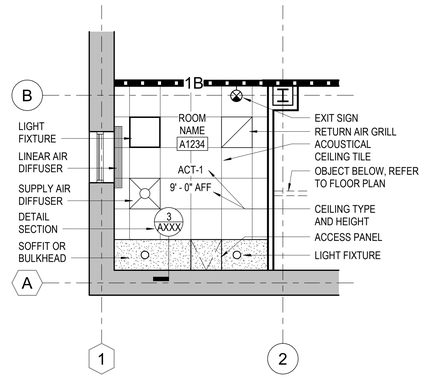
U. COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES SPEAKERS, SMOKE DETECTORS, EXIT LIGHTS, ACCESS PANELS, SPRINKLER HEADS, HVAC DUCTS, DIFFUSERS, REGISTERS, AND OTHER SUCH CEILING ITEMS WITH MECHANICAL, ELECTRICAL AND OTHER TRADES. NOTIFY ARCHITECT PROMPTLY IF ANY LOCATIONS CONFLICT WITH ARCHITECTURAL REFLECTED CEILING PLANS.

V. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR FLOOR, WALL, AND CEILING OPENINGS. ALL OPENINGS SHALL BE CUT AND PATCHED AS REQUIRED BY EACH DISCIPLINE OR TRADE REQUIRING THE OPENING UNLESS NOTED OTHERWISE IN THE CONSTRUCTION DOCUMENTS. PATCHING IS TO BE IN CONFORMANCE WITH APPLICABLE CODES.



OTHER FLOOR PLAN SYMBOL DESIGNATIONS	
EXISTING DOOR TO REMAIN	EXISTING DOOR TO DEMO
EXISTING WALL TO REMAIN	EXISTING WALL TO DEMO
NEW WALL	TEMPORARY BARRIER
NEW RATED WALL	

1 SYMBOL DESIGNATIONS - FLOOR PLAN (REFERENCE)
1/4" = 1'-0"



OTHER CEILING PLAN SYMBOL DESIGNATIONS	
RECESSED DOWNLIGHT	TV CONNECTION (SEE ELECTRICAL DRAWINGS)
RECESSED WALL WASHER	HORN (SEE ELECTRICAL DRAWINGS)
PENDANT MOUNTED LIGHT FIXTURE	TRACK LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS)
CEILING-MOUNTED EXIT LIGHT (SEE ELECTRICAL DRAWINGS)	EQUIPMENT MOUNTING TRACKS
WALL-MOUNTED EXIT LIGHT (SEE ELECTRICAL DRAWINGS)	SPRINKLER HEAD
SMOKE DETECTOR (SEE ELECTRICAL DRAWINGS)	SPEAKER (SEE ELECTRICAL DRAWINGS)

2 SYMBOL DESIGNATIONS - CEILING PLAN (REFERENCE)
1/4" = 1'-0"

SHEET NUMBER EXPLANATION

1. ARCHITECTURAL
THIS CHARACTER DENOTES THE SHEET IS AN ARCHITECTURAL DRAWING.

2. SHEET TYPE
THIS CHARACTER DENOTES THE TYPE OF INFORMATION ON THE SHEET

1. DEMOLITION PLANS
2. FLOOR PLANS
3. CEILING PLANS
4. EXTERIOR DETAILING
5. VERTICAL CIRCULATION
6. INTERIOR DETAILING
7. SCHEDULES
8. LAB (IF USED)
9. SHEET SPECIFICATIONS (IF USED)

3. PLAN TYPE
THESE CHARACTERS DENOTE THE SUB CATEGORY OF THE SHEET TYPE

4. FLOOR NUMBER
THESE CHARACTERS DENOTE THE FLOOR SHOWN ON THE SHEET

5. PLAN AREA
THESE CHARACTERS DENOTE THE AREA PLAN SHOWN ON THE SHEET (IF USED)

SHEET NUMBER EXAMPLE **A234B**
1. DISCIPLINE DESIGNATION
2. SHEET TYPE
3. PLAN TYPE
4. FLOOR NUMBER
5. PLAN AREA

3 ARCHITECTURAL SHEET NUMBER DESIGNATIONS

ACOUSTIC TILE	METAL
ASPHALT CONCRETE	PLASTER OR GYPSUM BOARD
BLANKET INSULATION	QUARRY TILE
CARPET (LARGE SCALE)	RIGID INSULATION
CERAMIC TILE	STONE
CONCRETE	SOLID WOOD FINISHED
CONCRETE MASONRY UNIT	TERRAZZO
EARTH	WOOD BLOCKING - CONTINUOUS
EXISTING CONSTRUCTION	WOOD BLOCKING - INTERRUPTED
FACEBRICK	WOOD SHEATHING
GRANULAR MATERIAL	
GASKET (LARGE SCALE)	

4 ARCHITECTURAL MATERIAL DESIGNATIONS

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

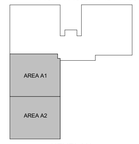
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER: S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:05:36 PM
S240593-27-00
Russell Rocker
HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

GENERAL NOTES AND SYMBOLS

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

A010

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

12/16/2024 7:50:12 PM Autodesk Docs://Natividad Med Bldng 3 Unit - 3707-016/3707-016-00.rvt Natividad Med Bldng 3 Unit - 3707-016-00.rvt Author

MATERIAL ID - OVERALL

SECTION	MATERIAL ID	DESCRIPTION
WOOD BLOCKING		
061000	WD BLKG-1	Wood Blocking
CABINETWORK HARDWARE		
064000	HDWR-1	See Specifications for Hardware Types & Finishes, [client to confirm specific pull, hinges, and/or lock types]
CASEWORK ACCESSORIES		
064000	CWKA-21	Cable grommet
064000	CWKA-24	Chair/walker hook, model number TBC
064000	CWKA-1	Exposed bracket
064000	CWKA-2	Concealed bracket
064000	CWKA-3	Heavy-duty bracket
064000	CWKA-11	Adjustable brackets & standards
PLASTIC LAMINATES		
064000	PL-1	See sheet I-010
064000	PL-2	See sheet I-010
SOLID SURFACING		
064000	SS-1	See sheet I-010
WOOD		
064000	WD-1	Flush Wood Doors, match PL-1
FIRESTOPPING		
078100	FP-1	SFRM, normal-density
FIRESTOPPING (Joint)		
078443	FRJS-1	Head of Wall
PREFORMED JOINT SEALS		
079100	PFJS-1	Precompressed foam gasket
079100	PFJS-2	Precompressed foam gasket
SEALANT		
079200	SLNT-1	See Specification for Sealant Schedule
082000	SDA-1	Automatic sliding barn door, single leaf
GLASS		
088100	GL-1T	1/4" clear fully-tempered annealed glass
GLASS SURFACE FILM		
088700	WF-1	Llumar Matte Frost Series. Glacier NRM55 PS4
CONCRETE SURFACE TREATMENTS		
091330	CST-1	30% Type (typical
METAL FURRING (Non-Structural)		
092200	MET FURG-1	Hat channels
092200	MET FURG-2	Z-furring
METAL STUD FRAMING (Non-Structural)		
092200	MET STUD-1	Steel stud; C-shaped, galvanized
092200	MET STUD-2	Steel shaft wall stud, C-T shaped, galvanized
GYPSUM BOARD		
092900	GYP BD-1	5/8" fire-rated type X
092900	GYP BD-21	1" Shaft Liner
092900	GYP BD-25	5/8" fire-rated type X tile backer
092900	GYP BD-38	5/8" abuse-resistant & mold-resistant
INSULATION		
092900	INSUL-40	Unfaced fiberglass batt
CERAMIC TILE - ACCESSORIES		
093000	CTA-1	Schluter DILEX-AHK; Finish: Stainless Steel. [Toilet Tile Floor to Wall Cove Transition]
093000	CTA-2	Schluter Systems, SCHIENE; Finish: Stainless Steel. [Edge Trim]
093000	CTA-3	Schluter Systems, QUADEC; Finish: Stainless Steel. To be used at all outside corners where CTW occurs. [CTW edge trim]
093000	CTA-4	Schluter RENO-U; Finish: Stainless Steel. [ADA Floor Transition]
093000	CTA-5	Schluter RENO-U (AU100AT) 3/8", Finish: Stainless Steel. [ADA Floor Transition]
CERAMIC TILE - BASE		
093000	CTB-1	See sheet I-010
CERAMIC TILE - WALL		
093000	CTW-1	See sheet I-010
LINER BAR		
093000	LB-1	See sheet I-010
THRESHOLD		
093000	TS-2	See sheet I-010
CERAMIC TILE - FLOOR		
093013	CTF-1	See sheet I-010
ACOUSTIC CEILING TRIM		
095100	ACTR-1	Perimeter trim
SUSPENDED ACOUSTICAL TILE		
095100	SAT-1	See sheet I-010
FLOOR TRANSITIONS		
096001	FTRS-1	Transition Strips
INTEGRAL BASE		
096500	IB-6	See sheet I-010
RESILIENT BASE		
096500	RB-1	See sheet I-010
RESILIENT FLOORING		
096500	RF-5	See sheet I-010
096500	RF-9	See sheet I-010
096500	RF-10	See sheet I-010
EPOXY - PAINT		
099000	EP-1	See sheet I-010
099000	EP-20	See sheet I-010
PAINT		
099000	P-1	See sheet I-010
099000	P-12	See sheet I-010
099000	P-13	See sheet I-010
099000	P-20	See sheet I-010
SEMI-GLOSS - PAINT		
099000	SP-1	See sheet I-010
CUBICLE CURTAIN		
102123	CC-1	See sheet I-010
CORNER GUARD		
102600	CG-1	See sheet I-010
102600	CG-2	See sheet I-010
HANDRAIL		
102600	HR-1	See sheet I-010
WALL GAUARD - SHEET		
102600	WGS-1	Acrovyn Sheet PVC Free, Suede Finish, 4'x8' sheet
WALL PROTECTION		
102600	WP-1	See sheet I-010
102600	WP-2	See sheet I-010
102600	WP-3	See sheet I-010
WALL PROTECTION GROUP		
102600	WPG-1	See sheet I-010
COAT HOOK		
102813	CH-2	Safco 4200 [2 Hook Coat Rack]
GLOVE DISPENSER		
102813	GLD-1	Surface-mounted

MATERIAL ID - OVERALL

SECTION	MATERIAL ID	DESCRIPTION
GRAB BARS		
102813	GB-1	Bobrick Series B-6806, 1-1/2 inch diameter with concealed mounting, with 1/8 inch thick stainless steel plate (CFCI). See drawings for configurations.
HAND SANITIZER DISPENSER		
102813	HSD-1	Hand Sanitizer Dispenser
HEALTHCARE WASTE RECEPTACLES		
102813	HCWR-2	Surface-mounted, plastic
MIRROR (Framed)		
102813	MIR-1	Bobrick B-290 2436 [No Shelf, Stainless Steel, 24"x36"]
102813	MIR-2	Bobrick B-290 2472 [No Shelf, Stainless Steel, 24"x72"]
PAPER TOWEL DISPENSER		
102813	PTD-1	GP Pro enMotion Wall Mounted Automated Touchless Towel Dispenser. Color: Splash Blue. Dim: 14.8" x 9.75" x 16.75" Alternative, GP Pro Compact Side by Side Double Roll Bathroom Tissue Dispenser. Color: Splash Blue. Dim: 10.12" x 6.75" x 7.12"
SHOWER CURTAIN		
102813	SC-1	On The Right Track Systems, Inc. Mystery White 71"x74" non PVC Shower Curtain
102813	SHCR-1	BoBrick 6047, extra heavy duty
SHOWER SEAT		
102813	SHFS-1	Bobrick B-5193 Solid Phenolic folding Shower folding seat (ADA Accessible)
102813	SHPN-1	Molded, one piece gelcoat/fiberglass construction 63"x31.5", white. Provide SHC-1, SHCR-1 at each instance
SOAP DISPENSER		
102813	SDISP-1	Nexa Compact Manual Dispenser 750 mL. Color: Black 9202-3020 or White 9202-300 or Ecolab Foam Dispenser 92723188. Dim: 7.38"D x 4.99"W x 11.125"G
TOILET PAPER HOLDER		
102813	TPH-5	Combo: Double roll, santitary napkin disposal, seat cover dispensor, BOD: Bobrick Model# B-35715
TOWEL BAR		
102813	TB-2	Towel Bar. Bobrick Model# B-6806 [surface-mounted, 18"]
UTILITY SHELF		
102813	US-1	Utility Shelf. Bobrick Model# B-295/6/8 stainless steel [surface-mounted, 18"]
WASTE RECEPTACLE		
102813	WAST-1	Waste Receptacle. Bobrick Model# B-3644
LOCKERS		
105113	LKR-1	ASI Traditional Collection Five Tiers Metal Locker, 4" Zee Base, Sloped Tops [Color TBD, see drawings for accessible locker locations]
AUDIO-VISUAL EQUIPMENT		
115200	AV EQ-1	Wall bracket for monitor

HGA

222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET,
SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET,
SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA
95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

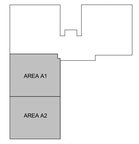
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39266
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

MATERIAL IDENTIFICATION CODES

DATE: APRIL 16, 2024

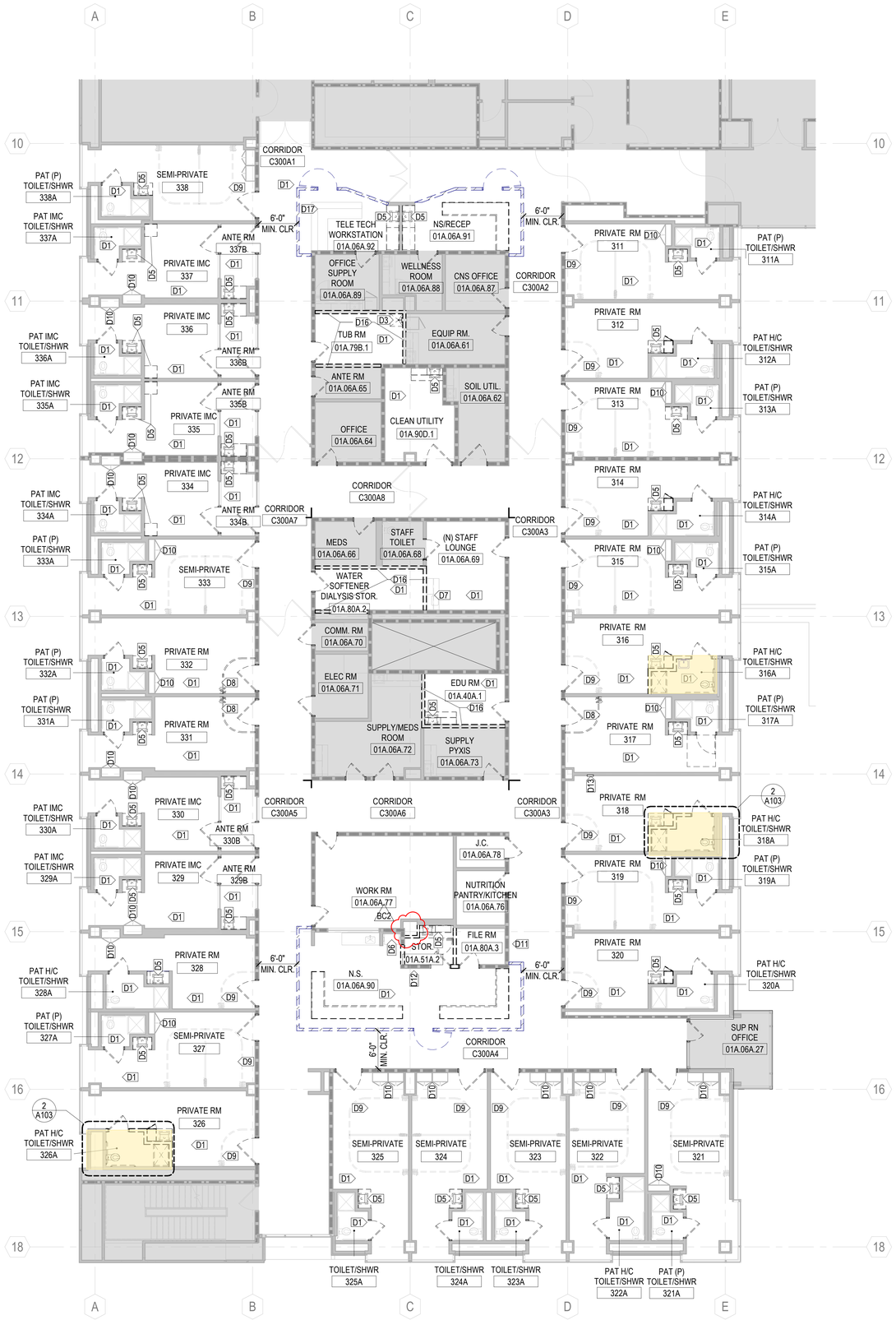
CONSTRUCTION DOCUMENTS

A011

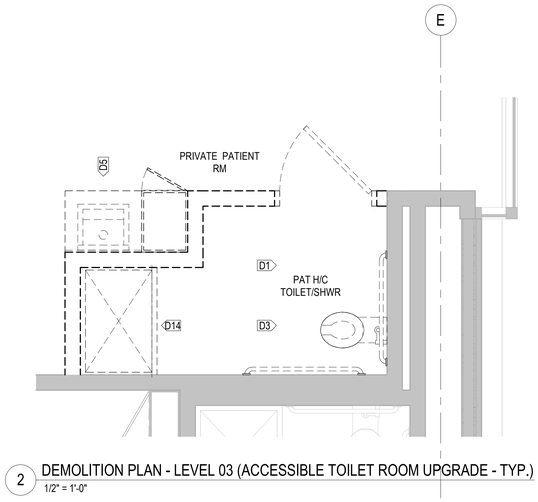
CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

4/29/2024 9:03:46 AM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/429- Natividad Med Surg 3 Unit - 3707-016-00.rvt



1 DEMOLITION PLAN - LEVEL 03
1/8" = 1'-0"



2 DEMOLITION PLAN - LEVEL 03 (ACCESSIBLE TOILET ROOM UPGRADE - TYP.)
1/2" = 1'-0"

GENERAL NOTES - DEMOLITION PLAN

A. COORDINATE EXTENT OF DEMOLITION WITH REQUIREMENTS FOR NEW WORK.
B. REMOVE EXISTING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, FLOOR FINISHES, WALLS, CEILINGS, WALL BASE, AND OTHER EXISTING CONSTRUCTION AS INDICATED OR REQUIRED FOR NEW WORK, UNLESS NOTED OTHERWISE.
C. REMOVE WALLS INCLUDING WALL MATERIALS INCLUDING INTEGRAL BASES, DOORS, DOOR FRAMES AND ASSOCIATED HARDWARE AND THRESHOLDS, UNLESS OTHERWISE INDICATED.
D. REMOVE PARTITIONS COMPLETELY TO UNDERSIDE OF STRUCTURAL COMPONENTS ABOVE AND TO TOP OF FLOOR STRUCTURAL COMPONENTS AT BASE. DO NOT LEAVE SECTIONS OR MATERIALS OF WALL ASSEMBLIES IN PLACE.
E. AT SIDES OF WALLS, THAT ABUT WALLS TO REMAIN, CUT BACK AT LEAST 1 INCH (25 MM) BEYOND FACE OF FINISH OF WALL TO REMAIN TO FACILITATE SUBSEQUENT PATCHING AND NEW CONSTRUCTION.
F. COMPLETELY REMOVE FINISHES, SUBBASE MATERIALS AND STRUCTURAL FRAMING MATERIALS TO LINES INDICATED OR REQUIRED FOR NEW WORK.
G. EXISTING ITEMS TO BE SALVAGED FOR REUSE IN NEW WORK:
   A. ARTWORK, SIGNAGE, WALL-MOUNTED ACCESSORIESDV
H. EXISTING UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS ARE TO REMAIN, UNLESS INDICATED OTHERWISE.
I. RELOCATE EXISTING WORK SERVING OCCUPIED PORTIONS OF THE BUILDING AS REQUIRED TO MAINTAIN SERVICE TO OCCUPIED AREAS AND TO ACCOMMODATE NEW WORK.
J. REMOVE AND CAP PORTIONS OF EXISTING UTILITIES INDICATED TO BE DEMOLISHED AS REQUIRED TO ACCOMMODATE NEW WORK, INCLUDING SURFACE-MOUNTED ELECTRICAL CONDUIT, DEVICES AND LIGHT FIXTURES; RADIATORS, RADIATOR COVERS; PLUMBING FIXTURES AND ASSOCIATED PIPING.
K. REMOVE CEILINGS INDICATED TO BE DEMOLISHED INCLUDING INTEGRAL HANGERS, SUPPORTS, ANCHORS AND MATERIALS OR ASSEMBLIES ATTACHED TO CEILING CONSTRUCTION.
L. REMOVE SUSPENDED CEILINGS TO UNDERSIDE OF STRUCTURE OR ORIGINAL PLASTER OR GYPSUM BOARD CEILING SURFACES.
M. MAINTAIN EGRESS FROM EXISTING OCCUPIED SPACES AND SURROUNDING BUILDING AREAS AS INDICATED AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.MAINTAIN EGRESS FROM EXISTING OCCUPIED SPACES AND SURROUNDING BUILDING AREAS AS INDICATED AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
N. PROVIDE AND MAINTAIN FIRE EXTINGUISHERS IN AREA OF WORK, IN ACCORDANCE WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
O. COORDINATE UTILITY INTERRUPTIONS WITH OWNER. PROVIDE AT LEAST 48 HOURS WRITTEN NOTICE TO OWNER BEFORE UTILITY INTERRUPTIONS OBTAIN OWNER'S WRITTEN APPROVAL OF INTERRUPTIONS BEFORE PROCEEDING.
P. COORDINATE OPERATIONS THAT MAY RESULT IN HIGH LEVELS OF NOISE AND VIBRATION, ODORS, OR OTHER DISRUPTIONS TO OCCUPANCY WITH OWNER. OBTAIN OWNER'S WRITTEN PERMISSION BEFORE PROCEEDING.
Q. PROVIDE TEMPORARY BARRIERS AND ENCLOSURES AS REQUIRED TO PROTECT MATERIALS AND PEOPLE. PREVENT DUST, FUMES, AND ODORS FROM ENTERING OCCUPIED AREAS. MAINTAIN AND RELOCATE TEMPORARY BARRIERS AND ENLOSURES AS REQUIRED BY THE PROGRESS OF THE WORK. REMOVE TEMPORARY BARRIERS AND ENCLOSURES AT COMPLETION OF WORK.
R. PRIOR TO STARTING DEMOLITION, VERIFY EXISTING CONDITIONS AND DIMENSIONS. COORDINATE EXTENT OF DEMOLITION WORK AND EXISTING CONSTRUCTION TO REMAIN WITH NEW WORK. NOTIFY ARCHITECT OF CONFLICTS OR DISCREPANCIES.
S. REFER TO DISCPLINE-SPECIFIC DRAWINGS FOR RELATED FIRE SUPPRESSION, PLUMBING, HEATING VENTILATION AND AIR CONDITIONING, ELECTRICAL, COMMUNICATIONS, AND ELECTRONIC SAFETY AND SECURITY SYSTEM DEMOLITION WORK.

DEMOLITION PLAN LEGEND

SEE A010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

	(E) CONSTRUCTION TO REMAIN	
1	(E) ONE HOUR RATED	
	(E) CONSTRUCTION TO BE REMOVED	
	1-HR. RATED CONSTRUCTION BARRIER	
	*AREA NOT IN SCOPE	

*NOTE: HATCH IS DIAGRAMMATIC IN NATURE & IS TO BE COMPARED TO THE SET IN ITS ENTIRETY FOR A COMPREHENSIVE UNDERSTANDING OF THE SCOPE

TYPE OF ASSEMBLY

W	FIRE WALL	S	SMOKE BARRIER
B	FIRE BARRIER	SP	SMOKE PARTITIONS
P	FIRE PARTITION	ST	RESIST PASSAGE OF SMOKE
E	EXISTING AND RATED		

DOOR TO BE DEMOLISHED

DOOR WORK PROCEDURE

A. REMOVE DOOR WHEN ALL OTHER WORK IS COMPLETED & SIGNED-OFF
B. THE REMOVAL & INSTALLATION OF 20-MIN. CORRIDOR DOORS SHALL OCCUR IN ONE-DAY SHIFT AT A TIME & CAN BE GROUPED UP TO (4) PATIENT ROOMS. PATIENT ROOMS SHALL BE VACANT FOR THE DOOR INSTALLATION TO OCCUR

KEYNOTES

#	DESCRIPTION
D1	REMOVE EXISTING FLOOR FINISH, WALL FINISH, WALL BASEBOARD AND PREPARE SUBSTRATE TO RECEIVE FINISH
D3	REMOVE EXISTING PLUMBING FIXTURES; CAP LINES IN WALL
D5	REMOVE EXISTING SINK AND BUILT-IN CASEWORK
D6	EXISTING PNEUMATIC TUBE STATION TO REMAIN
D7	EXISTING SINK AND BUILT-IN CASEWORK TO REMAIN
D8	REMOVE EXISTING CURTAIN TRACK
D9	EXISTING CURTAIN TRACK TO REMAIN
D10	EXISTING CASEWORK TO REMAIN
D11	EXISTING OXYGEN TO REMAIN
D12	EXISTING NURSE CALL TO REMAIN
D13	DEMO EXISTING DIALYSIS BOX, TYP. WHERE FOUNDED
D14	6" CORE OPENING AT (E) FLOOR FOR SHOWER PAN DRAIN. CONTRACTOR TO CONFIRM OPENING, SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
D16	DO NOT DEMO WALLS. WALLS TO BE UPGRADED TO 1HR-FIRE BARRIER PER C/A600
D17	EXISTING FURNITURE SYSTEMS TO REMAIN

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

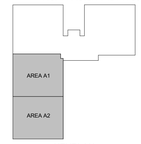
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:05:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

AGENCY APPROVAL

△NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024
BC2	BACKCHECK#2	03/14/2025

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

DEMOLITION PLAN - LEVEL 03

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

A103

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author
3/6/2025 4:01:29 PM
Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016.00.rvt
Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016.00-N22- Natividad Med Surg 3 Unit - 3707-016.00.rvt

1 DEMOLITION REFLECTED CEILING PLAN - LEVEL 03
1/8" = 1'-0"

GENERAL NOTES - CEILING PLAN

A. CEILING HEIGHTS ARE DIMENSIONED FROM FLOOR DATUM ELEVATION TO FINISHED CEILING, UNLESS OTHERWISE NOTED.
B. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION RELATIVE TO DEVICE AND FIXTURE LOCATIONS.
C. COORDINATE INTEGRATION OF CEILING SYSTEMS WORK INCLUDING, BUT NOT LIMITED TO, MECHANICAL, ELECTRICAL, SPRINKLER AND FIRE PROTECTION, TELECOMMUNICATIONS, AND STRUCTURAL SYSTEMS, TO MAINTAIN CEILING HEIGHT INDICATED. NOTIFY ARCHITECT OF CONFLICTS PRIOR TO PROCEEDING WITH THE WORK.
D. LOCATE COMPONENTS WITHIN CEILING PLENUM TO MAXIMIZE CLEAR AREA FOR INSTALLATION OF LIGHT FIXTURES AND ACCOMMODATE FIXTURE LAYOUT AS INDICATED.
E. WHERE DOORS WITH HOLD-OPEN DEVICES ARE REQUIRED, PROVIDE SMOKE DETECTOR WITHIN 5 FEET OF OPENING ON BOTH SIDES OF DOORWAY. VERIFY LOCATION OF SMOKE DETECTORS WITH ARCHITECT PRIOR TO INSTALLATION.
F. PROVIDE ACCESS PANELS AT GYPSUM BOARD CEILINGS AND WHERE ACCESS IS REQUIRED FOR ITEMS OF MECHANICAL, PLUMBING AND ELECTRICAL WORK LOCATED BEHIND OR ABOVE FINISHED WALLS OR CEILINGS WHICH REQUIRE ACCESS, WHETHER OR NOT SUCH PANELS ARE INDICATED ON DRAWINGS. VERIFY LOCATION OF ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION.
G. REVIEW LOCATION OF LIFE-SAFETY DEVICES AND/OR EQUIPMENT NOT SHOWN ON THE DRAWINGS WITH ARCHITECT PRIOR TO INSTALLATION.
H. COORDINATE ABOVE CEILING DRAFTSTOP LOCATIONS IN ACCORDANCE WITH REQUIREMENTS OF APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION.
I. ACOUSTICAL CEILING GRID AND LIGHTING SHALL BE CENTERED IN ROOM(S) UNLESS NOTED OTHERWISE.
J. CENTER RECESSED LIGHTS, ELECTRICAL, MECHANICAL DEVICES AND SPRINKLER HEADS WHEN SHOWN IN CEILING TILES. WHERE RECESSED LIGHTS ARE SHOWN OFF-CENTER IN 2X4 SCORED CEILING TILE, CENTER THE FIXTURE WITHIN THE 2X2 PORTION OF THE TILE.
K. CEILING FINISHES ADJACENT TO OR WITHIN THE LIMITS OF CONSTRUCTION DISTURBED OR DAMAGED BY CONSTRUCTION SHALL BE PATCHED TO MATCH EXISTING ADJACENT CEILING FINISH.

DEMOLITION RCP LEGEND

SEE A010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

- DEMOLISHED GYPSUM BOARD CEILING
- DEMOLISHED ACOUSTIC CEILING TILE
- 2X4 LIGHT FIXTURE
- 2X2 LIGHT FIXTURE
- RECESSED LIGHT
- CURTAIN TRACK

KEYNOTES

#	DESCRIPTION

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

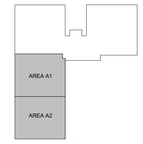
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker
HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39266
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

DEMOLITION REFLECTED CEILING PLAN - LEVEL 03

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

A123

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 4/29/2024 8:03:59 AM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/429- Natividad Med Surg 3 Unit - 3707-016-00.rvt

1 OVERALL FLOOR PLAN - LEVEL 03
3/32" = 1'-0"

GENERAL NOTES - FLOOR PLAN

A. ALL INTERIOR PARTITIONS SHALL BE **"A3_"** UNLESS NOTED OTHERWISE.
B. PLAN DIMENSIONS ARE FROM FACE OF PARTITION TYPE AND DO NOT INCLUDE APPLIED FINISHES, UNLESS NOTED OTHERWISE. PLAN DIMENSIONS INDICATED AS "HOLD" OR "CLEAR" DIMENSIONS ARE FROM FACE OF APPLIED FINISH.
C. INSTALL WORK STRAIGHT, PLUMB, LEVEL, SQUARE, AND TRUE, IN PROPER ALIGNMENT.
D. FLATNESS: LEVEL FLOORS TO TRUE PLANE WITHIN 1/4 INCH (6 MM) IN 10'-0" (3 M) WHEN TESTED BY TEN FOOT (3 M) STRAIGHTEDGE PLACED ANYWHERE ON FLOOR IN ANY DIRECTION.
E. BEFORE PROCEEDING WITH PARTITION FRAMING, PROVIDE LAYOUT MARKINGS OF PARTITIONS AND ASSOCIATED IN-WALL ELECTRICAL DEVICES ON SUBFLOOR FOR REVIEW BY ARCHITECT. BEFORE PROCEEDING WITH PARTITION FRAMING, PROVIDE LAYOUT MARKINGS OF PARTITIONS AND ASSOCIATED IN-WALL ELECTRICAL DEVICES ON SUBFLOOR FOR REVIEW BY ARCHITECT.
F. COORDINATE FURNITURE-RELATED ELECTRICAL LAYOUT WITH FURNITURE VENDOR.
G. WHERE HANDRAILS, GRAB BARS, CABINETS, WALL-MOUNTED DOOR STOPS, OR OTHER WALL-HUNG ITEMS ARE ATTACHED TO PARTITIONS, INSTALL BACKER PLATES [OR WOOD BLOCKING] ACCURATELY POSITIONED AND FIRMLY SECURED TO METAL STUDS, WHETHER OR NOT SUCH BACKER PLATES OR BLOCKING ARE INDICATED ON DRAWINGS.
H. WHERE NEW WORK ABUTS, ALIGNS OR ADJOINS EXISITING MATERIALS, MAKE SMOOTH AND EVEN TRANSITION AND ELIMINATE EVIDENCE OF PATCHING AND REFINISHING. FINISH NEW WORK TO MATCH ADJACENT UNDISTURBED SURFACES, UNLESS NOTED OTHERWISE.
I. CLOSE AND PATCH HOLES AND OPENINGS IN EXISTING FLOOR, WALL AND CEILING WHICH EXIST OR RESULT FROM DEMOLITION OR ALTERATION WORK TO MATCH ADJACENT UNDISTURBED SURFACES.
J. PRIOR TO CONCEALMENT OF FIRE RESISTIVE MATERIALS BY OTHER WORK, PATCH AND REPAIR AREAS OF REMOVED OR DAMAGED APPLIED FIREPROOFING. COMPLETE PATCHING AND REPAIR TO MAINTAIN EXISTING FIRE-RESISTANCE DESIGN IN ACCORDANCE WITH FIREPROOFING MANUFACTURER'S WRITTEN INSTRUCTIONS FOR CONDITIONS OF EXPOSURE AND INTENDED USE. COORDINATE TESTING AND INSPECTION OF ASSEMBLIES AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
K. PROVIDE FIRESTOPPING OF PENETRATIONS AND VOIDS THROUGH FIRE-RATED WALL, FLOOR AND PARTITION ASSEMBLIES [AND ROOF] INCLUDING EMPTY OPENINGS AND OPENINGS CONTAINING CABLES, PIPES, DUCTS, CONDUIT AND OTHER ELEMENTS.
L. AT SOUND-RATED PARTITION WALLS, PROVIDE CONTINUOUS BEAD OF ACOUSTICAL SEALANT AT AT JUNCTURE OF BOTH FACES OF RUNNERS OR PLATES WITH FLOOR AND CEILING CONSTRUCTION, AND WHEREVER GYPSUM BOARD ABUTS DISSIMILAR MATERIALS.
   - AT OPENINGS AND CUTOUTS, FILL OPEN SPACES BETWEEN GYPSUM BOARD AND FIXTURES, CABINETS, DUCTS AND OTHER FLUSH OR PENETRATING ITEMS, WITH CONTINUOUS BEAD OF SEALANT.
   - SEAL SIDES AND BACKS OF ELECTRICAL BOXES TO COMPLETELY CLOSE OFF OPENINGS AND JOINTS.

PATIENT ROOM & BED COUNT

BC2

EXISTING ROOM & BED COUNT

ROOM TYPE	# OF ROOMS	# OF BEDS
PRIVATE	20	20
SEMI-PRIVATE	8	16
TOTAL	**28**	**36**

(ACCESSIBLE ROOMS: 5)

PROPOSED ROOM & BED COUNT

ROOM TYPE	# OF ROOMS	# OF BEDS
PRIVATE	13	13
SEMI-PRIVATE	15	30
TOTAL	**28**	**43**

(ACCESSIBLE ROOMS: 8)

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

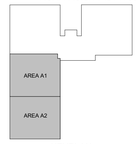
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024
BC2	BACKCHECK#2	03/14/2025

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

OVERALL FLOOR PLAN - LEVEL 03

DATE: APRIL 16, 2024

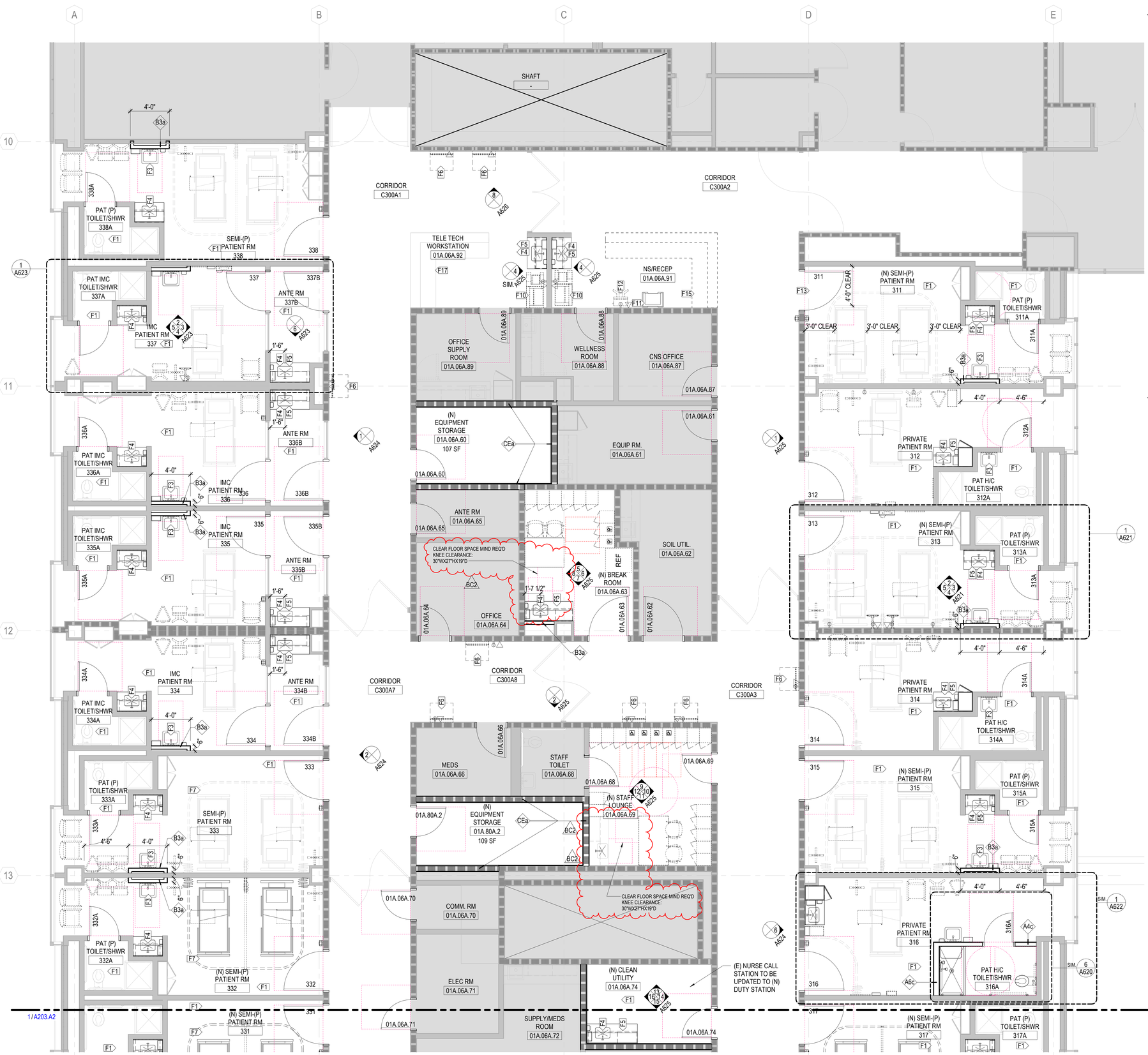
CONSTRUCTION DOCUMENTS

A203

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 3/26/2025 4:01:32 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/A22- Natividad Med Surg 3 Unit - 3707-016-00.rvt



1 ENLARGED FLOOR PLAN - LEVEL 03 AREA A1
1/4" = 1'-0"

GENERAL NOTES - FLOOR PLAN

A. ALL INTERIOR PARTITIONS SHALL BE "A3_" UNLESS NOTED OTHERWISE.
B. PLAN DIMENSIONS ARE FROM FACE OF PARTITION TYPE AND DO NOT INCLUDE APPLIED FINISHES, UNLESS NOTED OTHERWISE. PLAN DIMENSIONS INDICATED AS "HOLD" OR "CLEAR" DIMENSIONS ARE FROM FACE OF APPLIED FINISH.
C. INSTALL WORK STRAIGHT, PLUMB, LEVEL, SQUARE, AND TRUE, IN PROPER ALIGNMENT.
D. FLATNESS: LEVEL FLOORS TO TRUE PLANE WITHIN 1/4 INCH (6 MM) IN 10'-0" (3 M) WHEN TESTED BY TEN FOOT (3 M) STRAIGHTEDGE PLACED ANYWHERE ON FLOOR IN ANY DIRECTION.
E. BEFORE PROCEEDING WITH PARTITION FRAMING, PROVIDE LAYOUT MARKINGS OF PARTITIONS AND ASSOCIATED IN-WALL ELECTRICAL DEVICES ON SUBFLOOR FOR REVIEW BY ARCHITECT. BEFORE PROCEEDING WITH PARTITION FRAMING, PROVIDE LAYOUT MARKINGS OF PARTITIONS AND ASSOCIATED IN-WALL ELECTRICAL DEVICES ON SUBFLOOR FOR REVIEW BY ARCHITECT.
F. COORDINATE FURNITURE-RELATED ELECTRICAL LAYOUT WITH FURNITURE VENDOR.
G. WHERE HANDRAILS, GRAB BARS, CABINETS, WALL-MOUNTED DOOR STOPS, OR OTHER WALL-HUNG ITEMS ARE ATTACHED TO PARTITIONS, INSTALL BACKER PLATES [OR WOOD BLOCKING] ACCURATELY POSITIONED AND FIRMLY SECURED TO METAL STUDS, WHETHER OR NOT SUCH BACKER PLATES OR BLOCKING ARE INDICATED ON DRAWINGS.
H. WHERE NEW WORK ABUTS, ALIGNS OR ADJOINS EXISITING MATERIALS, MAKE SMOOTH AND EVEN TRANSITION AND ELIMINATE EVIDENCE OF PATCHING AND REFINISHING. FINISH NEW WORK TO MATCH ADJACENT UNDISTURBED SURFACES, UNLESS NOTED OTHERWISE.
I. CLOSE AND PATCH HOLES AND OPENINGS IN EXISTING FLOOR, WALL AND CEILING WHICH EXIST OR RESULT FROM DEMOLITION OR ALTERATION WORK TO MATCH ADJACENT UNDISTURBED SURFACES.
J. PRIOR TO CONCEALMENT OF FIRE RESISTIVE MATERIALS BY OTHER WORK, PATCH AND REPAIR AREAS OF REMOVED OR DAMAGED APPLIED FIREPROOFING. COMPLETE PATCHING AND REPAIR TO MAINTAIN EXISTING FIRE-RESISTANCE DESIGN IN ACCORDANCE WITH FIREPROOFING MANUFACTURER'S WRITTEN INSTRUCTIONS FOR CONDITIONS OF EXPOSURE AND INTENDED USE. COORDINATE TESTING AND INSPECTION OF ASSEMBLIES AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
K. PROVIDE FIRESTOPPING OF PENETRATIONS AND VOIDS THROUGH FIRE-RATED WALL, FLOOR AND PARTITION ASSEMBLIES [AND ROOF] INCLUDING EMPTY OPENINGS AND OPENINGS CONTAINING CABLES, PIPES, DUCTS, CONDUIT AND OTHER ELEMENTS.
L. AT SOUND-RATED PARTITION WALLS, PROVIDE CONTINUOUS BEAD OF ACOUSTICAL SEALANT AT AT JUNCTURE OF BOTH FACES OF RUNNERS OR PLATES WITH FLOOR AND CEILING CONSTRUCTION, AND WHEREVER GYPSUM BOARD ABUTS DISSIMILAR MATERIALS.
   - AT OPENINGS AND CUTOUTS, FILL OPEN SPACES BETWEEN GYPSUM BOARD AND FIXTURES, CABINETS, DUCTS AND OTHER FLUSH OR PENETRATING ITEMS, WITH CONTINUOUS BEAD OF SEALANT.
   - SEAL SIDES AND BACKS OF ELECTRICAL BOXES TO COMPLETELY CLOSE OFF OPENINGS AND JOINTS.

CONSTRUCTION PLAN LEGEND

SEE A010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

(E) CONSTRUCTION TO REMAIN	
(N) CONSTRUCTION	
TEMPORARY CONSTRUCTION	

ASSEMBLY RATING

1	ONE HOUR RATED

XXX — DOOR TAG
SEE DOOR SCHEDULE AND LEGEND FOR ADDITIONAL INFORMATION

XXX — INTERIOR PARTITION TAG
SEE PARTITION SHEET FOR ADDITIONAL INFORMATION

KEYNOTES

#	DESCRIPTION
F1	FLOOR FINISH, WALL FINISH, WALL BASEBOARD, SEE INTERIOR DRAWINGS
F3	WALL MOUNTED SINK, SEE PLUMBING DRAWINGS
F4	SINK IN MIDMARK CASEWORK, SEE PLUMBING DRAWINGS
F5	MIDMARK CASEWORK
F6	(WS-1) CHARTING STATION
F7	CURTAIN TRACK
F10	MULTI-PURPOSE PRINTER
F11	EXISTING CRASH CART WITH EXISTING POWER TO REMAIN
F12	EXISTING (5) WOWS W/ DOUBLE MOITORS, INCLUDING (1) AT NORTH RECEPTION AND (4) DOWN SOUTH INFRONT OF THE STAIR, ADD POWER TO CHARGE
F13	POWER-ASSISTED DOOR
F15	FURNITURE VENDOR (ONEWORK PLACE) TO PROVIDE FURNITURE SYSTEM FOR NURSE STATION, SEE STRUCTURE DRAWINGS (S2.01) FOR ANCHORAGE.
F17	EXISTING FURNITURE SYSTEMS TO REMAIN

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353

KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39255
JUNE 30, 2026
RENEWAL DATE
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024
BC2	BACKCHECK#2	03/14/2025

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

ENLARGED FLOOR PLAN - LEVEL 03 AREA A1

DATE: APRIL 16, 2024

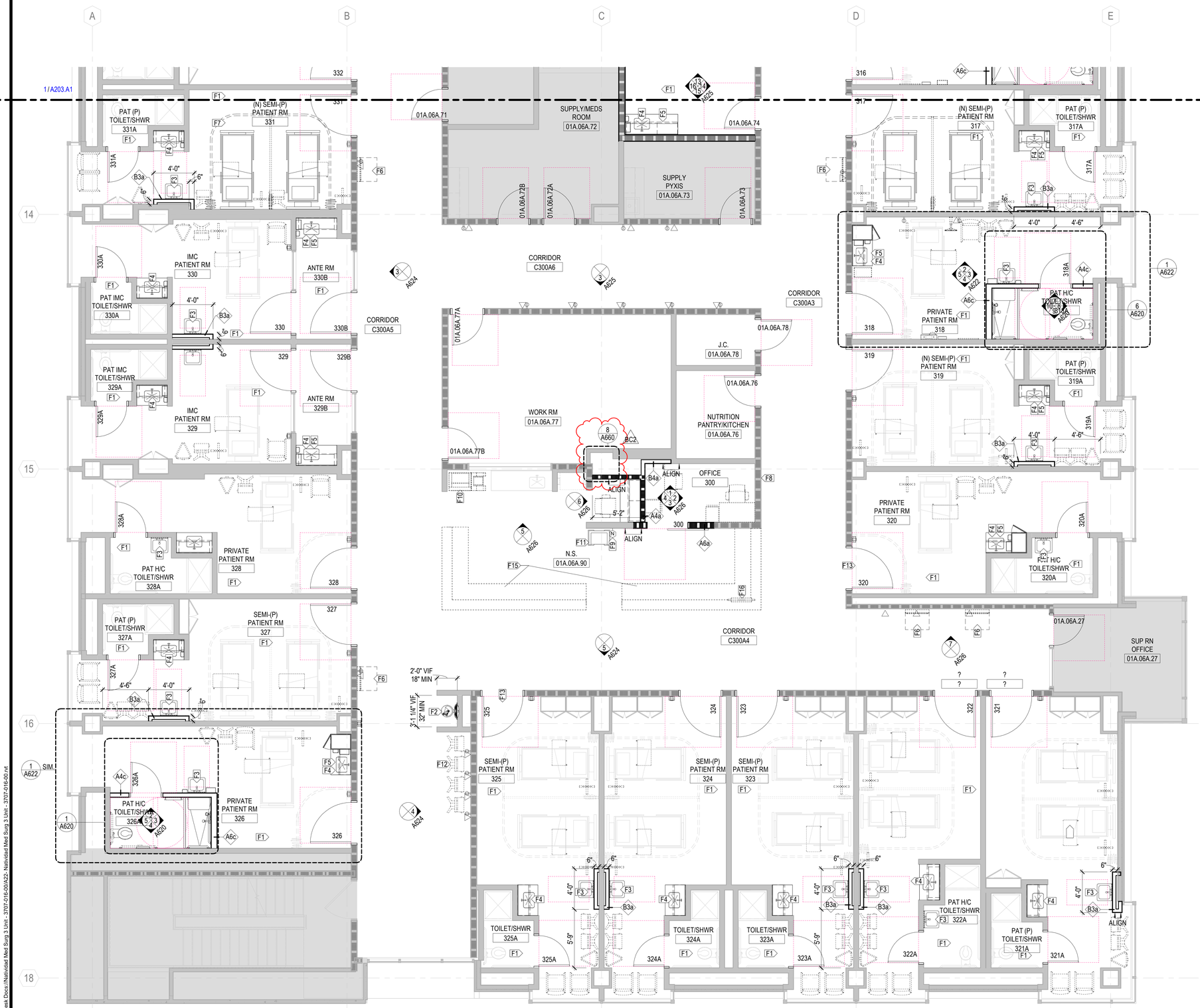
CONSTRUCTION DOCUMENTS

A203.A1

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 3/26/2025 4:01:35 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/A22- Natividad Med Surg 3 Unit - 3707-016-00.rvt



1 ENLARGED FLOOR PLAN - LEVEL 03 AREA A2
1/4" = 1'-0"

GENERAL NOTES - FLOOR PLAN

A. ALL INTERIOR PARTITIONS SHALL BE **"A3_"** UNLESS NOTED OTHERWISE.
B. PLAN DIMENSIONS ARE FROM FACE OF PARTITION TYPE AND DO NOT INCLUDE APPLIED FINISHES, UNLESS NOTED OTHERWISE. PLAN DIMENSIONS INDICATED AS "HOLD" OR "CLEAR" DIMENSIONS ARE FROM FACE OF APPLIED FINISH.
C. INSTALL WORK STRAIGHT, PLUMB, LEVEL, SQUARE, AND TRUE, IN PROPER ALIGNMENT.
D. FLATNESS: LEVEL FLOORS TO TRUE PLANE WITHIN 1/4 INCH (6 MM) IN 10'-0" (3 M) WHEN TESTED BY TEN FOOT (3 M) STRAIGHTEDGE PLACED ANYWHERE ON FLOOR IN ANY DIRECTION.
E. BEFORE PROCEEDING WITH PARTITION FRAMING, PROVIDE LAYOUT MARKINGS OF PARTITIONS AND ASSOCIATED IN-WALL ELECTRICAL DEVICES ON SUBFLOOR FOR REVIEW BY ARCHITECT. BEFORE PROCEEDING WITH PARTITION FRAMING, PROVIDE LAYOUT MARKINGS OF PARTITIONS AND ASSOCIATED IN-WALL ELECTRICAL DEVICES ON SUBFLOOR FOR REVIEW BY ARCHITECT.
F. COORDINATE FURNITURE-RELATED ELECTRICAL LAYOUT WITH FURNITURE VENDOR.
G. WHERE HANDRAILS, GRAB BARS, CABINETS, WALL-MOUNTED DOOR STOPS, OR OTHER WALL-HUNG ITEMS ARE ATTACHED TO PARTITIONS, INSTALL BACKER PLATES [OR WOOD BLOCKING] ACCURATELY POSITIONED AND FIRMLY SECURED TO METAL STUDS, WHETHER OR NOT SUCH BACKER PLATES OR BLOCKING ARE INDICATED ON DRAWINGS.
H. WHERE NEW WORK ABUTS, ALIGNS OR ADJOINS EXISITING MATERIALS, MAKE SMOOTH AND EVEN TRANSITION AND ELIMINATE EVIDENCE OF PATCHING AND REFINISHING. FINISH NEW WORK TO MATCH ADJACENT UNDISTURBED SURFACES, UNLESS NOTED OTHERWISE.
I. CLOSE AND PATCH HOLES AND OPENINGS IN EXISTING FLOOR, WALL AND CEILING WHICH EXIST OR RESULT FROM DEMOLITION OR ALTERATION WORK TO MATCH ADJACENT UNDISTURBED SURFACES.
J. PRIOR TO CONCEALMENT OF FIRE RESISTIVE MATERIALS BY OTHER WORK, PATCH AND REPAIR AREAS OF REMOVED OR DAMAGED APPLIED FIREPROOFING. COMPLETE PATCHING AND REPAIR TO MAINTAIN EXISTING FIRE-RESISTANCE DESIGN IN ACCORDANCE WITH FIREPROOFING MANUFACTURER'S WRITTEN INSTRUCTIONS FOR CONDITIONS OF EXPOSURE AND INTENDED USE. COORDINATE TESTING AND INSPECTION OF ASSEMBLIES AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
K. PROVIDE FIRESTOPPING OF PENETRATIONS AND VOIDS THROUGH FIRE-RATED WALL, FLOOR AND PARTITION ASSEMBLIES [AND ROOF] INCLUDING EMPTY OPENINGS AND OPENINGS CONTAINING CABLES, PIPES, DUCTS, CONDUIT AND OTHER ELEMENTS.
L. AT SOUND-RATED PARTITION WALLS, PROVIDE CONTINUOUS BEAD OF ACOUSTICAL SEALANT AT AT JUNCTURE OF BOTH FACES OF RUNNERS OR PLATES WITH FLOOR AND CEILING CONSTRUCTION, AND WHEREVER GYPSUM BOARD ABUTS DISSIMILAR MATERIALS.
   - AT OPENINGS AND CUTOUTS, FILL OPEN SPACES BETWEEN GYPSUM BOARD AND FIXTURES, CABINETS, DUCTS AND OTHER FLUSH OR PENETRATING ITEMS, WITH CONTINUOUS BEAD OF SEALANT.
   - SEAL SIDES AND BACKS OF ELECTRICAL BOXES TO COMPLETELY CLOSE OFF OPENINGS AND JOINTS.

CONSTRUCTION PLAN LEGEND

SEE A010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

(E) CONSTRUCTION TO REMAIN	
(N) CONSTRUCTION	
TEMPORARY CONSTRUCTION	

ASSEMBLY RATING

1	ONE HOUR RATED

DOOR TAG
SEE DOOR SCHEDULE AND LEGEND FOR ADDITIONAL INFORMATION

INTERIOR PARTITION TAG
SEE PARTITION SHEET FOR ADDITIONAL INFORMATION

KEYNOTES

#	DESCRIPTION
F1	FLOOR FINISH, WALL FINISH, WALL BASEBOARD, SEE INTERIOR DRAWINGS
F2	(DF-1) DRINKING FOUNTAIN WITH BOTTLE FILLING STATION
F3	WALL MOUNTED SINK, SEE PLUMBING DRAWINGS
F4	SINK IN MIDMARK CASEWORK, SEE PLUMBING DRAWINGS
F5	MIDMARK CASEWORK
F6	(WS-1) CHARTING STATION
F7	CURTAIN TRACK
F8	EXISTING OXYGEN TO REMAIN
F9	EXISTING NURSE CALL TO REMAIN
F10	MULTI-PURPOSE PRINTER
F11	EXISTING CRASH CART WITH EXISTING POWER TO REMAIN
F12	EXISTING (5) WOWS W/ DOUBLE MOITORS, INCLUDING (1) AT NORTH RECEPTION AND (4) DOWN SOUTH INFRONT OF THE STAIR, ADD POWER TO CHARGE
F13	POWER-ASSISTED DOOR
F15	FURNITURE VENDOR (ONEWORK PLACE) TO PROVIDE FURNITURE SYSTEM FOR NURSE STATION, SEE STRUCTURE DRAWINGS (S2.01) FOR ANCHORAGE.
F16	TV MONITOR

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

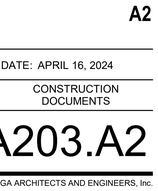
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S2-01593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39255
JUNE 30, 2026
RENEWAL DATE
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024
BC2	BACKCHECK#2	03/14/2025

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

ENLARGED FLOOR PLAN - LEVEL 03 AREA A2

DATE: APRIL 16, 2024

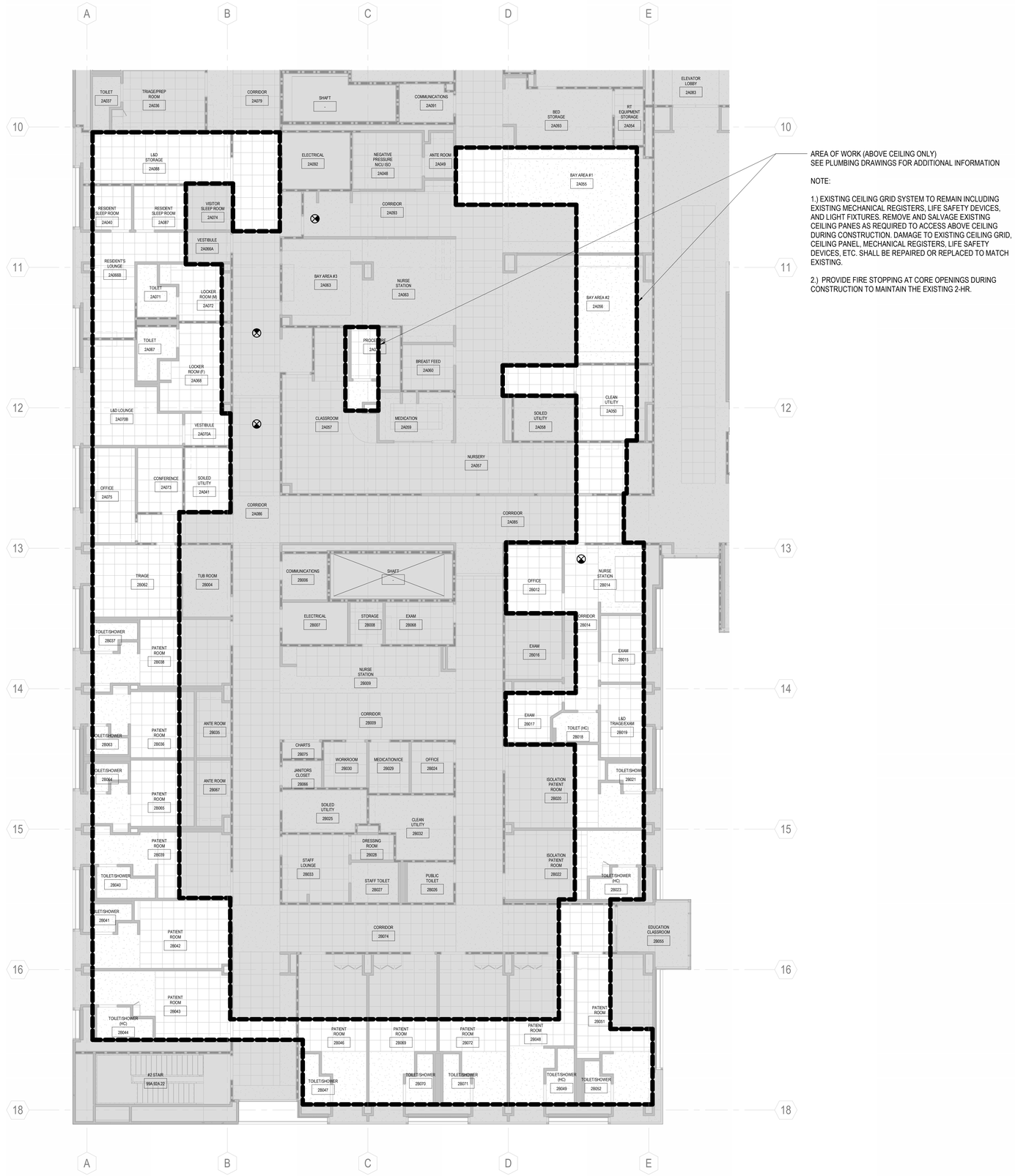
CONSTRUCTION DOCUMENTS

A203.A2

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 3/26/2025 4:01:39 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/A22- Natividad Med Surg 3 Unit - 3707-016-00.rvt



AREA OF WORK (ABOVE CEILING ONLY)
SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION

NOTE:

1.) EXISTING CEILING GRID SYSTEM TO REMAIN INCLUDING EXISTING MECHANICAL REGISTERS, LIFE SAFETY DEVICES, AND LIGHT FIXTURES. REMOVE AND SALVAGE EXISTING CEILING PANES AS REQUIRED TO ACCESS ABOVE CEILING DURING CONSTRUCTION. DAMAGE TO EXISTING CEILING GRID, CEILING PANEL, MECHANICAL REGISTERS, LIFE SAFETY DEVICES, ETC. SHALL BE REPAIRED OR REPLACED TO MATCH EXISTING.

2.) PROVIDE FIRE STOPPING AT CORE OPENINGS DURING CONSTRUCTION TO MAINTAIN THE EXISTING 2-HR.

1 REFLECTED CEILING PLAN - LEVEL 02
1/8" = 1'-0"

GENERAL NOTES - CEILING PLAN

A. CEILING HEIGHTS ARE DIMENSIONED FROM FLOOR DATUM ELEVATION TO FINISHED CEILING, UNLESS OTHERWISE NOTED.
B. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION RELATIVE TO DEVICE AND FIXTURE LOCATIONS.
C. COORDINATE INTEGRATION OF CEILING SYSTEMS WORK INCLUDING, BUT NOT LIMITED TO, MECHANICAL, ELECTRICAL, SPRINKLER AND FIRE PROTECTION, TELECOMMUNICATIONS, AND STRUCTURAL SYSTEMS, TO MAINTAIN CEILING HEIGHT INDICATED. NOTIFY ARCHITECT OF CONFLICTS PRIOR TO PROCEEDING WITH THE WORK.
D. LOCATE COMPONENTS WITHIN CEILING PLENUM TO MAXIMIZE CLEAR AREA FOR INSTALLATION OF LIGHT FIXTURES AND ACCOMMODATE FIXTURE LAYOUT AS INDICATED.
E. WHERE DOORS WITH HOLD-OPEN DEVICES ARE REQUIRED, PROVIDE SMOKE DETECTOR WITHIN 5 FEET OF OPENING ON BOTH SIDES OF DOORWAY. VERIFY LOCATION OF SMOKE DETECTORS WITH ARCHITECT PRIOR TO INSTALLATION.
F. PROVIDE ACCESS PANELS AT GYPSUM BOARD CEILINGS AND WHERE ACCESS IS REQUIRED FOR ITEMS OF MECHANICAL, PLUMBING AND ELECTRICAL WORK LOCATED BEHIND OR ABOVE FINISHED WALLS OR CEILINGS WHICH REQUIRE ACCESS, WHETHER OR NOT SUCH PANELS ARE INDICATED ON DRAWINGS. VERIFY LOCATION OF ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION.
G. REVIEW LOCATION OF LIFE-SAFETY DEVICES AND/OR EQUIPMENT NOT SHOWN ON THE DRAWINGS WITH ARCHITECT PRIOR TO INSTALLATION.
H. COORDINATE ABOVE CEILING DRAFTSTOP LOCATIONS IN ACCORDANCE WITH REQUIREMENTS OF APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION.
I. ACOUSTICAL CEILING GRID AND LIGHTING SHALL BE CENTERED IN ROOM(S) UNLESS NOTED OTHERWISE.
J. CENTER RECESSED LIGHTS, ELECTRICAL, MECHANICAL DEVICES AND SPRINKLER HEADS WHEN SHOWN IN CEILING TILES. WHERE RECESSED LIGHTS ARE SHOWN OFF-CENTER IN 2X4 SCORED CEILING TILE, CENTER THE FIXTURE WITHIN THE 2X2 PORTION OF THE TILE.
K. CEILING FINISHES ADJACENT TO OR WITHIN THE LIMITS OF CONSTRUCTION DISTURBED OR DAMAGED BY CONSTRUCTION SHALL BE PATCHED TO MATCH EXISTING ADJACENT CEILING FINISH.

RCP LEGEND

SEE A010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

- 2x2 ACT; SEE PLAN FOR CEILING HEIGHTS
- 2x4 ACT; SEE PLAN FOR CEILING HEIGHTS
- HATCHED AREA INDICATES AREA OF EXISTING CEILING TO REMAIN. CLEAN EXISTING GRID, REGISTERS AND OTHER DEVIDES AND REPAIR OR REPLACE DAMAGED COMPONENTS TO MATCH EXISTING.
- GYPSUM BOARD CEILING; SEE PLAN FOR CEILING HEIGHTS
- 1HR RATED HORIZONTAL (GYP BD) ASSEMBLY PER A673; SEE PLAN FOR CEILING HEIGHTS
- 2X2 LIGHT FIXTURE
- 2X4 LIGHT FIXTURE
- RECESSED DOWN LIGHT FIXTURE
- WALL SCONCE LIGHT FIXTURE
- EXIT SIGN
- NURSE CALL
- RETURN GRILLE
- SUPPLY DIFFUSER
- EXHAUST DIFFUSER
- CURTAIN TRACK
- ACCESS PANEL

KEYNOTES

#	DESCRIPTION

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

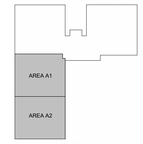
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER: S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC2	BACKCHECK#2	03/14/2025

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

REFLECTED CEILING PLAN - LEVEL 02

DATE: APRIL 16, 2024

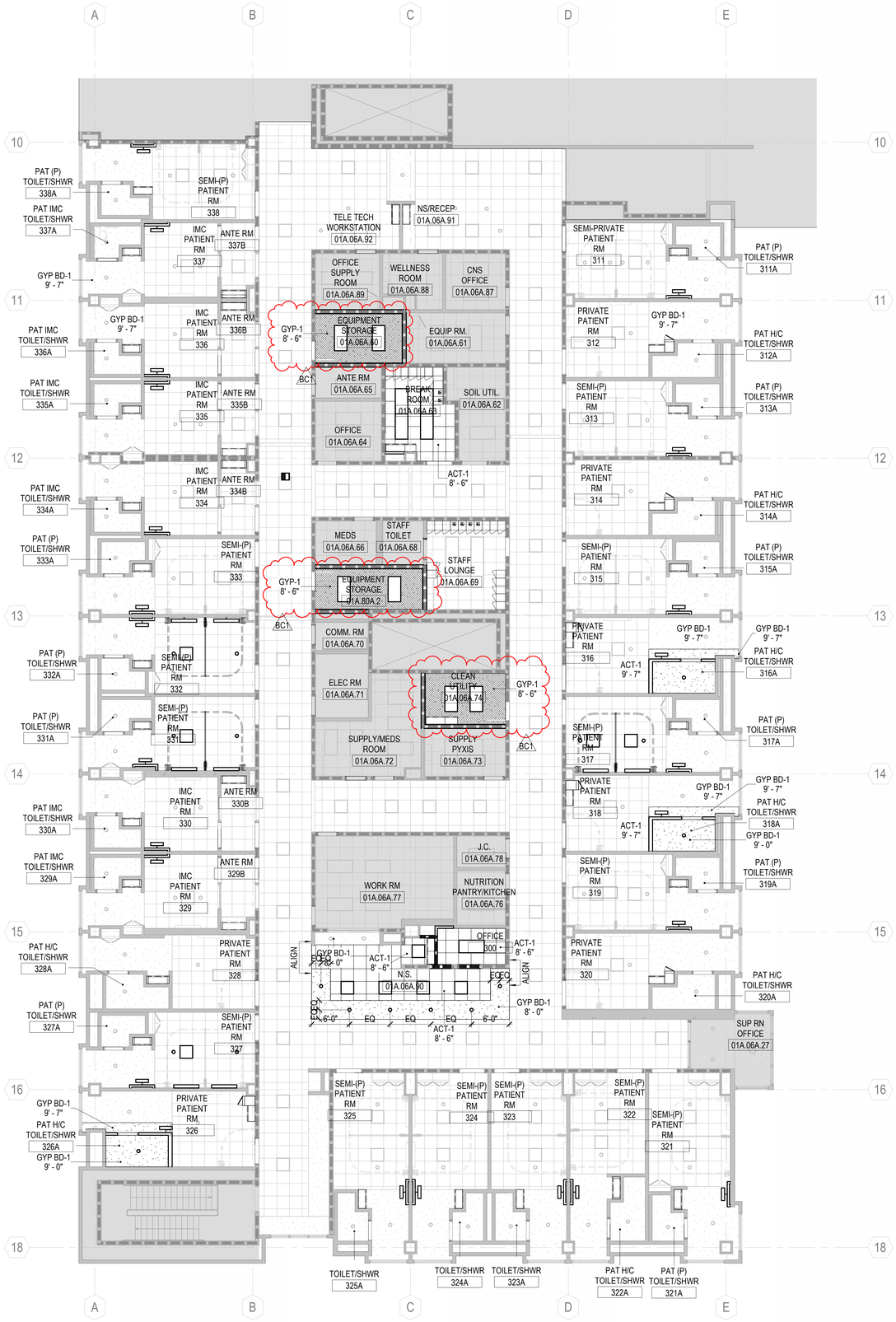
CONSTRUCTION DOCUMENTS

A302

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 3/26/2025 4:01:41 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/A22_Natividad Med Surg 3 Unit - 3707-016-00.rvt



1 REFLECTED CEILING PLAN - LEVEL 03
1/8" = 1'-0"

GENERAL NOTES - CEILING PLAN

A. CEILING HEIGHTS ARE DIMENSIONED FROM FLOOR DATUM ELEVATION TO FINISHED CEILING, UNLESS OTHERWISE NOTED.
B. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION RELATIVE TO DEVICE AND FIXTURE LOCATIONS.
C. COORDINATE INTEGRATION OF CEILING SYSTEMS WORK INCLUDING, BUT NOT LIMITED TO, MECHANICAL, ELECTRICAL, SPRINKLER AND FIRE PROTECTION, TELECOMMUNICATIONS, AND STRUCTURAL SYSTEMS, TO MAINTAIN CEILING HEIGHT INDICATED. NOTIFY ARCHITECT OF CONFLICTS PRIOR TO PROCEEDING WITH THE WORK.
D. LOCATE COMPONENTS WITHIN CEILING PLENUM TO MAXIMIZE CLEAR AREA FOR INSTALLATION OF LIGHT FIXTURES AND ACCOMMODATE FIXTURE LAYOUT AS INDICATED.
E. WHERE DOORS WITH HOLD-OPEN DEVICES ARE REQUIRED, PROVIDE SMOKE DETECTOR WITHIN 5 FEET OF OPENING ON BOTH SIDES OF DOORWAY. VERIFY LOCATION OF SMOKE DETECTORS WITH ARCHITECT PRIOR TO INSTALLATION.
F. PROVIDE ACCESS PANELS AT GYPSUM BOARD CEILINGS AND WHERE ACCESS IS REQUIRED FOR ITEMS OF MECHANICAL, PLUMBING AND ELECTRICAL WORK LOCATED BEHIND OR ABOVE FINISHED WALLS OR CEILINGS WHICH REQUIRE ACCESS, WHETHER OR NOT SUCH PANELS ARE INDICATED ON DRAWINGS. VERIFY LOCATION OF ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION.
G. REVIEW LOCATION OF LIFE-SAFETY DEVICES AND/OR EQUIPMENT NOT SHOWN ON THE DRAWINGS WITH ARCHITECT PRIOR TO INSTALLATION.
H. COORDINATE ABOVE CEILING DRAFTSTOP LOCATIONS IN ACCORDANCE WITH REQUIREMENTS OF APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION.
I. ACOUSTICAL CEILING GRID AND LIGHTING SHALL BE CENTERED IN ROOM(S) UNLESS NOTED OTHERWISE.
J. CENTER RECESSED LIGHTS, ELECTRICAL, MECHANICAL DEVICES AND SPRINKLER HEADS WHEN SHOWN IN CEILING TILES. WHERE RECESSED LIGHTS ARE SHOWN OFF-CENTER IN 2X4 SCORED CEILING TILE, CENTER THE FIXTURE WITHIN THE 2X2 PORTION OF THE TILE.
K. CEILING FINISHES ADJACENT TO OR WITHIN THE LIMITS OF CONSTRUCTION DISTURBED OR DAMAGED BY CONSTRUCTION SHALL BE PATCHED TO MATCH EXISTING ADJACENT CEILING FINISH.

RCP LEGEND

SEE A010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

- 2x2 ACT; SEE PLAN FOR CEILING HEIGHTS
- 2x4 ACT; SEE PLAN FOR CEILING HEIGHTS
- HATCHED AREA INDICATES AREA OF EXISTING CEILING TO REMAIN. CLEAN EXISTING GRID, REGISTERS AND OTHER DEVIDES AND REPAIR OR REPLACE DAMAGED COMPONENTS TO MATCH EXISTING.
- GYPSUM BOARD CEILING; SEE PLAN FOR CEILING HEIGHTS
- 1HR RATED HORIZONTAL (GYP BD) ASSEMBLY PER A673; SEE PLAN FOR CEILING HEIGHTS
- 2X2 LIGHT FIXTURE
- 2X4 LIGHT FIXTURE
- RECESSED DOWN LIGHT FIXTURE
- WALL SCONCE LIGHT FIXTURE
- EXIT SIGN
- NURSE CALL
- RETURN GRILLE
- SUPPLY DIFFUSER
- EXHAUST DIFFUSER
- CURTAIN TRACK
- ACCESS PANEL

BC1

KEYNOTES

#	DESCRIPTION

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

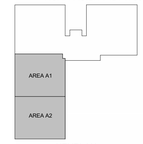
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER: S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2026
RENEWAL DATE
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

REFLECTED CEILING PLAN - LEVEL 03

DATE: APRIL 16, 2024

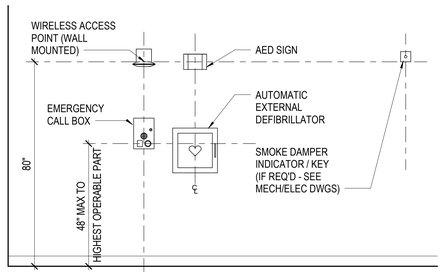
CONSTRUCTION DOCUMENTS

A303

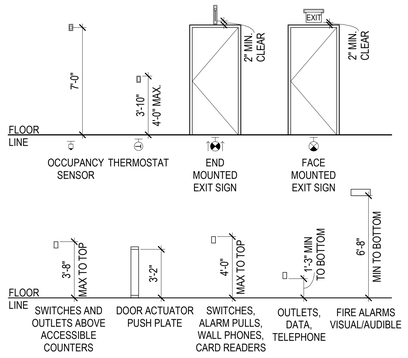
CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

12/15/2024 7:50:22 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/A22a Natividad Med Surg 3 Unit - 3707-016-00.rvt Author

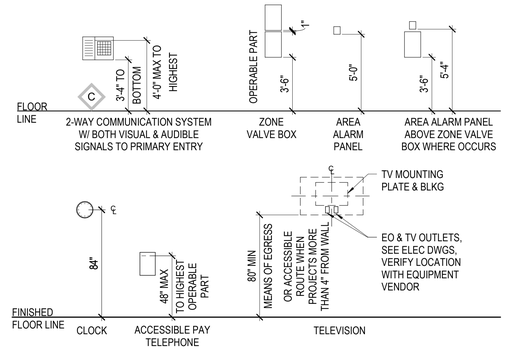


1 MOUNTING HEIGHTS - CORRIDORS
1/2" = 1'-0"

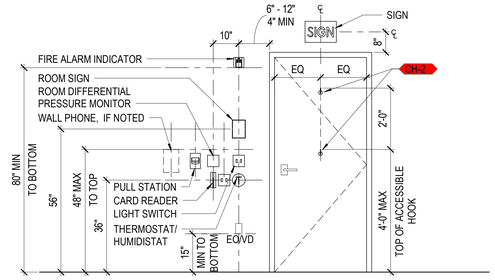


1. ELECTRICAL SWITCHES: CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL COMPLY w/ SECTION 11B-308 EXCEPT THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX.
2. ELECTRICAL RECEPTACLE OUTLETS: RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30AMP OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL COMPLY w/ SECTION 11B-308 EXCEPT THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX.

4 ELECTRICAL DEVICES MOUNTING HEIGHTS
1/4" = 1'-0"



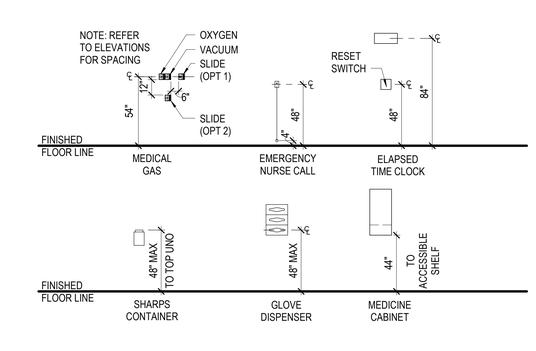
2 EQUIPMENT MOUNTING HEIGHTS
1/4" = 1'-0"



NOTE DOOR SHOWN FOR REFERENCE. DEVICES ARE SHOWN FOR ILLUSTRATIVE PURPOSES. TYPES AND QUANTITIES WILL VARY.

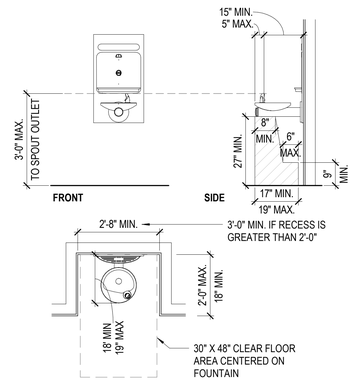
1. ELECTRICAL SWITCHES: CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL COMPLY w/ SECTION 11B-308 EXCEPT THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX.
2. ELECTRICAL RECEPTACLE OUTLETS: RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30AMP OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL COMPLY w/ SECTION 11B-308 EXCEPT THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX.

5 MOUNTING HEIGHTS - DEVICES
1/2" = 1'-0"



3 MOUNTING HEIGHTS - MEDICAL DEVICES & EQUIPMENT
1/4" = 1'-0"

NOTE: SPOUT SHALL PROVIDE A FLOW OF WATER 4" HIGH MIN THE ANGLE OF THE WATER STREAM SHALL BE MEASURED FROM THE FRONT FACE OF THE UNIT. WHERE SPOUTS ARE LOCATED LESS THAN 3" FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 30 DEGREES MAX WHERE SPOUTS ARE LOCATED BETWEEN 3" & 5" FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 15 DEGREES MAX **PER CBC SECTION 11B-602.6**



6 TYPICAL RECESSED DRINKING FOUNTAIN
1/2" = 1'-0"

BC2

GENERAL NOTES - MOUNTING HEIGHTS

A. ALL FIXTURES AND ACCESSORIES AT ACCESSIBLE ROOMS TO MEET CBC AND ADA ACCESSIBILITY REQUIREMENTS.

B. ALL ITEMS SHOWN NOT NECESSARILY USED.

D. "#" SYMBOL SHOWN SERVES AS A PLACE HOLDER ONLY. REFER TO MATERIAL ID LIST, SPECIFICATIONS AND EQUIPMENT SCHEDULE FOR ACTUAL EQUIPMENT NUMBER.

E. [A] [B] AND [C] SYMBOL DESIGNATES BACKING TYPE. WHERE MORE THEN ONE IS LISTED, CONTRACTOR TO CHOOSE APPROPRIATE DETAIL FROM THOSE LISTED. WHERE NO OPTION IS LISTED CONTRACTOR TO CHOOSE APPROPRIATE METHOD. REFER TO SHEET SHEET A662 FOR MOUNTING SUPPORT DETAILS.

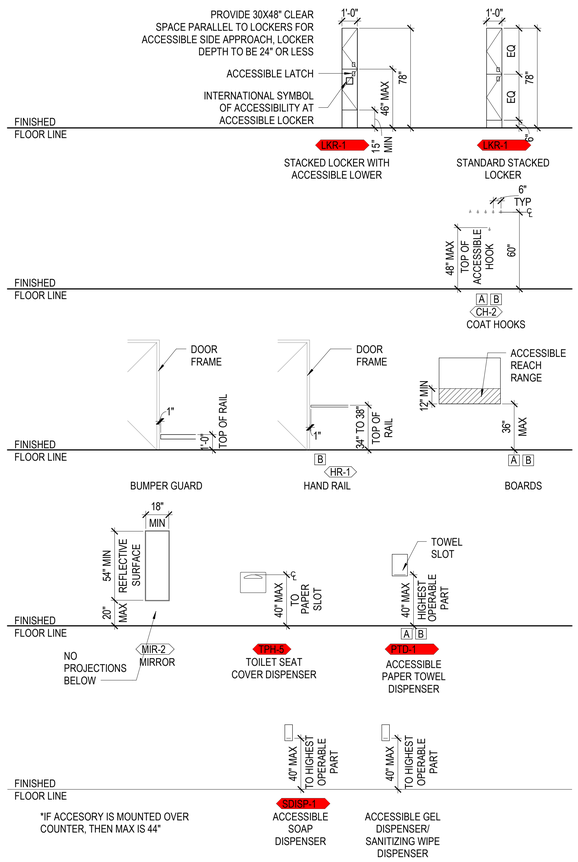
F. PROVIDE MOUNTING SUPPORTS AT ALL SHELVES, TOILET ACCESSORIES, MIRRORS, CLOCKS, CHALKBOARDS, MARKER BOARDS, WALL HOOKS, COAT RACKS/HOOKS, WOOD TRIM, DOOR BUMPERS, FIRE EXTINGUISHERS AND OTHER ITEMS TO BE SECURED TO WALL, UNLESS OTHER MEANS OF SUPPORT ARE INDICATED.

G. PROVIDE MOUNTING SUPPORTS AT LOCATIONS REQUIRED BY OWNER FOR OWNER INSTALLED ITEMS. CONTRACTOR TO COORDINATE WITH OWNER.

H. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR MARKING LOCATIONS OF ITEMS REQUIRING MOUNTING SUPPORTS.

J. ALL PLAN DIMENSIONS SHOWN HERE ARE TYPICAL UNLESS NOTED OTHERWISE. REFERENCE FLOOR PLANS FOR ADDITIONAL ROOM DIMENSIONS.

L. SEE ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.



7 TOILET ROOM ACCESSORY MOUNTING HEIGHTS
1/4" = 1'-0"

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

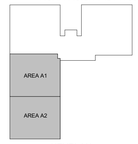
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
REGISTRATION DATE
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC2	BACKCHECK#2	03/14/2025

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

TYPICAL MOUNTING HEIGHTS AND CLEARANCES

DATE: APRIL 16, 2024

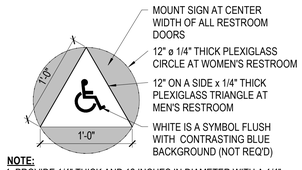
CONSTRUCTION DOCUMENTS

A600

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

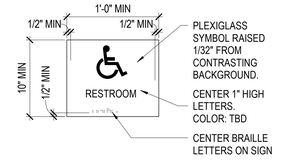
Author 3/26/2025 4:01:42 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/A22_Natividad Med Surg 3 Unit - 3707-016-00.rvt



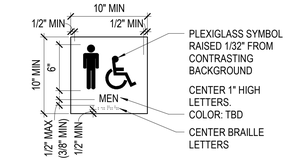
NOTE:
1. PROVIDE 1/4" THICK AND 12 INCHES IN DIAMETER WITH A 1/4" THICK CONTRASTING TRIANGLE SUPERIMPOSED ON THE CIRCLE AND WITHIN THE 12 INCH DIAMETER FOR UNISEX AND ALL GENDER RESTROOMS
2. PROVIDE 1/4" THICK TRIANGLE ONLY FOR MEN'S RESTROOM
3. PROVIDE 1/4" THICK CIRCLE ONLY FOR WOMEN'S RESTROOM
4. SIGN SHALL CONTRAST WITH DOOR ON WHICH IT RESIDES

F ISA RESTROOM DOOR SIGN 6

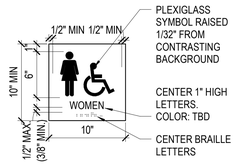
NOTE: DIRECTIONAL SIGNAGE POSTED AS NECESSARY TO INDICATE LOCATION OF ACCESSIBLE EXITS WHICH CONTAIN AN AREA OF EVACUATION ASSISTANCE.



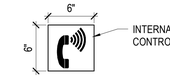
C ALL GENDER RESTROOM SIGN 3



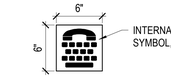
D MEN'S RESTROOM SIGN 4



E WOMEN'S RESTROOM SIGN 5



R PHONE VOLUME CONTROL SYMBOL 17

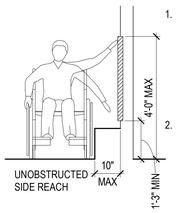


T TTY PHONE SYMBOL 16

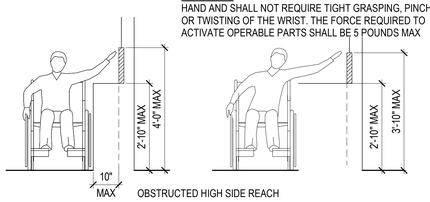
S ISA SYMBOL 16

NOTE: PROVIDE AT ALL ACCESSIBLE BUILDING ENTRIES. LOCATE ON STRIKE SIDE OF SINGLE DOORS OR ON RIGHT OF HINGE SIDE OF DOUBLE DOORS.

1 TYPICAL SIGNAGE
1 1/2" = 1'-0"

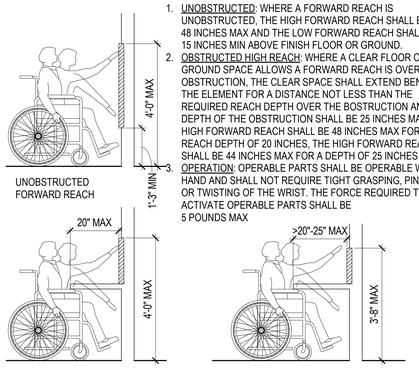


1. UNOBSTRUCTED: WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE SIDE REACH IS UNOBSTRUCTED, THE HIGH SIDE REACH SHALL BE 48 INCHES MAX AND THE LOW SIDE REACH SHALL BE 15 INCHES MIN ABOVE FINISH FLOOR OR GROUND.
   A. EXCEPTION: AN OBSTRUCTION SHALL BE PERMITTED BETWEEN THE CLEAR FLOOR OR GROUND SPACE AND THE ELEMENT WHERE THE DEPTH OF THE OBSTRUCTION IS 10 INCHES MAX
2. OBSTRUCTED HIGH REACH: WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE HIGH SIDE REACH IS OVER AN OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION SHALL BE 34 INCHES MAX AND THE DEPTH OF THE OBSTRUCTION SHALL BE 24 INCHES MAX THE HIGH SIDE REACH SHALL BE 48 INCHES MAX FOR A REACH DEPTH OF 10 INCHES MAX WHERE THE REACH DEPTH EXCEEDS 10 INCHES, THE HIGH SIDE REACH SHALL BE 46 INCHES MAX FOR A REACH DEPTH OF 24 INCHES MAX
3. OPERATION: OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAX



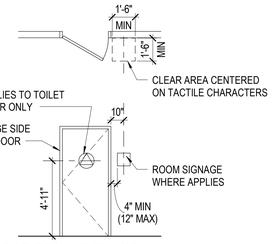
OBSTRUCTED HIGH SIDE REACH

1. UNOBSTRUCTED: WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH SHALL BE 48 INCHES MAX AND THE LOW FORWARD REACH SHALL BE 15 INCHES MIN ABOVE FINISH FLOOR OR GROUND.
2. OBSTRUCTED HIGH REACH: WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE BOSTRUCTION AND THE DEPTH OF THE OBSTRUCTION SHALL BE 25 INCHES MAX THE HIGH FORWARD REACH SHALL BE 48 INCHES MAX FOR A REACH DEPTH OF 20 INCHES, THE HIGH FORWARD REACH SHALL BE 44 INCHES MAX FOR A DEPTH OF 25 INCHES MAX
3. OPERATION: OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAX



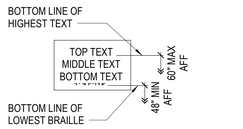
OBSTRUCTED HIGH FORWARD REACH

4 REACH RANGES - SIDE & FORWARD
1/2" = 1'-0"



2 DOOR/ROOM SIGNAGE
1/4" = 1'-0"

NOTE: VERIFY MIN/MAX TEXT LINE HEIGHTS AND ACTUAL SIGN SIZE PRIOR TO MOUNTING.



3 SIGN HEIGHT
1 1/2" = 1'-0"

GENERAL NOTES - SIGNAGE

A. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS SERIF UPPER CASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE COMPLYING WITH CBC 11B-703.3.

B. CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" AND A MAXIMUM OF 2" HIGH. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MIN AFF, MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES MAX AFF, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.

C. FINISH AND CONTRAST: CHARACTERS, SYMBOLS, AND THEIR BACKGROUNDS SHALL HAVE A NON-GLARE FINISH, CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.

D. PROPORTIONS: VISUAL AND RAISED CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MIN AND 110% MAX OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10% MIN AND 20% MAX OF THE HEIGHT OF THE CHARACTER.

E. BRAILLE: BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTIONS 11B-703.3 AND 11B-703.4 OF CBC. BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11B-703.3.1 OF CBC. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS AND ACRONYMS.

F. LOCATION: LOCATE SIGN A MINIMUM OF 4" AND A MAXIMUM OF 12" AWAY FROM DOOR STRIKE SIDE, UNLESS OTHERWISE NOTED. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18"X18" MIN, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARCH OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. FOR ADDITIONAL INFORMATION, SEE DETAILS 2/A601 & 3/A601

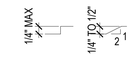
G. MATERIAL: SIGN MATERIAL TO BE 1/8" THICK ES PLASTIC WITH 1/32" RAISED BORDER AND LETTERS. MATCH EXISTING SIGNS. EDGES OF SIGNS SHALL BE ROUNDED, CHAMFERED OR EASED. CORNERS OF SIGNS SHALL HAVE A MINIMUM RADIUS OF 1/8 INCH

H. COMPLIANCE: ALL SIGNAGE MUST COMPLY WITH ARTICLE 11B-703 OF CBC AS WELL AS CURRENT ADA STANDARDS.

J. WHERE SIGNAGE MUST BE INSTALLED DIRECTLY TO GLAZING, PROVIDE BLANK SIGN ON OPPOSITE SIDE OF GLAZING WHERE NONE PRESENT.

GENERAL NOTES - FLOOR TRANISTIONS

A. FLR TRANSITION LEVEL CHANGES UP TO 1/4" MAY BE VERTICAL CHANGES IN LEVEL BTW 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 2:1 WITH NO FLR MATERIAL TRANSITION GREATER THAN 1/2" ALLOWED. TYP FOR ALL FLOOR TRANSITIONS.



B. DOOR CLEARANCES SHALL BE PER DOOR MFR'S STANDARDS OR AS REQUIRED BY CODE

C. FIELD VERIFY & COORDINATE HEIGHTS OF MATERIALS PRIOR TO FABRICATION AND/OR INSTALLATION OF TRANSITION STRIPS.

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

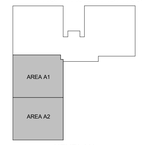
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER: S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S2405l93-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

SIGNAGE + DESIGN GUIDE - MOUNTING HEIGHTS

DATE: APRIL 16, 2024

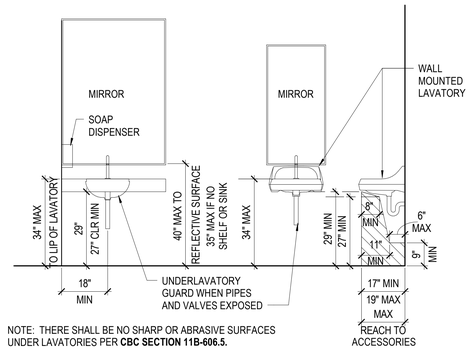
CONSTRUCTION DOCUMENTS

A601

CONSTRUCTION DOCUMENT

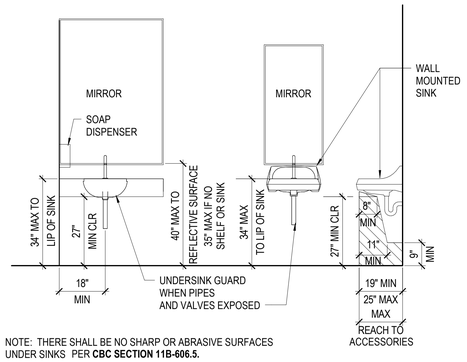
© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 4/29/2024 9:04:27 AM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/A29- Natividad Med Surg 3 Unit - 3707-016-00.rvt



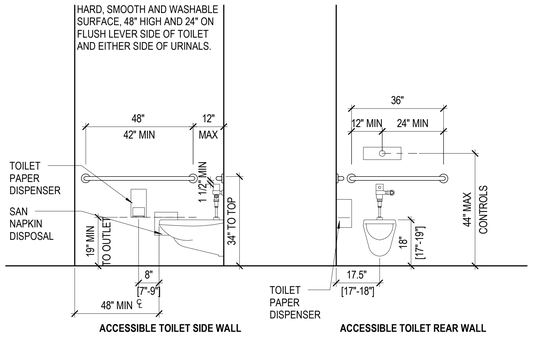
NOTE: THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES PER **CBC SECTION 11B-606.5.**

1 MOUNTING HEIGHTS - RESTROOM LAVATORIES
1/2" = 1'-0"

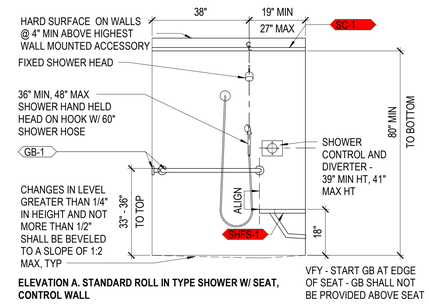


NOTE: THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER SINKS PER **CBC SECTION 11B-606.5.**

2 MOUNTING HEIGHTS - SINKS
1/2" = 1'-0"

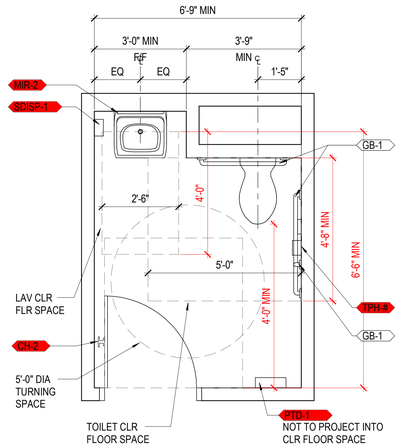


3 MOUNTING HEIGHTS - RESTROOMS
1/2" = 1'-0"

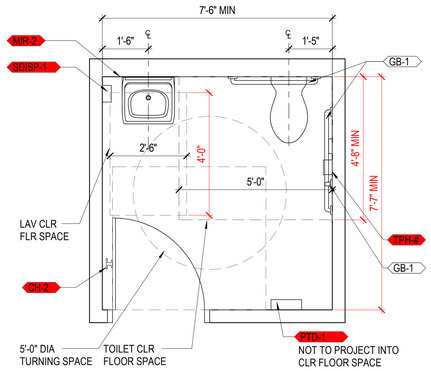


ELEVATION A. STANDARD ROLL IN TYPE SHOWER W/ SEAT, CONTROL WALL

4 MOUNTING HEIGHTS SHOWERS
1/2" = 1'-0"



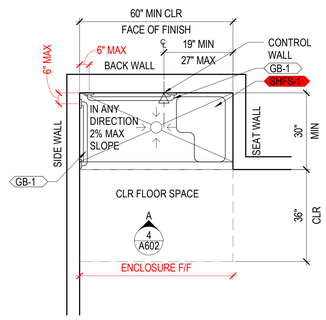
A ACCESSIBLE BATHROOM



B ACCESSIBLE BATHROOM

NOTE:
1. DIMENSIONS AND LAYOUTS SHOWN IN THIS DETAIL ARE INTENDED TO SHOW THE MINIMUM OR MAXIMUM DIMENSIONS AND MAY NOT MATCH FLOOR PLAN CONFIGURATIONS EXACTLY.
2. PROVIDE SND IN UNISEX AND WOMENS BATHROOM/TOILETS ONLY.
3. PROVIDE DOOR MOUNTED CH ON HINGED DOORS ONLY, WHERE SLIDING DOORS ARE INDICATED PROVIDE CH ON ADJACENT WALLS.

5 MINIMUM DIMENSIONS FOR ACCESSIBLE BATHROOMS
1/2" = 1'-0"



A ACCESSIBLE STANDARD TYPE ROLL-IN SHOWER W/ SEAT

NOTE:
1. DIMENSIONS AND LAYOUTS SHOWN IN THIS DETAIL ARE INTENDED TO SHOW THE MINIMUM OR MAXIMUM DIMENSIONS AND MAY NOT MATCH FLOOR PLAN CONFIGURATIONS EXACTLY.

6 MINIMUM DIMENSIONS FOR ACCESSIBLE SHOWERS
1/2" = 1'-0"

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

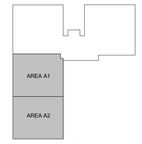
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

TYPICAL RESTROOM AND SHOWER PLANS

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

A602

CONSTRUCTION DOCUMENT

Author 4/29/2024 9:04:29 AM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/A25- Natividad Med Surg 3 Unit - 3707-016-00.rvt

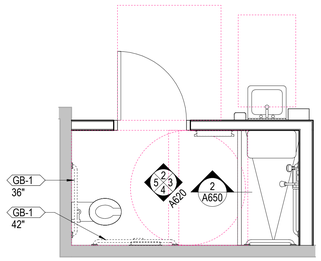
© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

GENERAL NOTES - INTERIOR ELEVATIONS

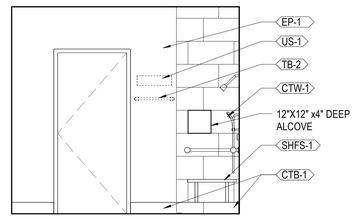
A. SEE SHEET A011 FOR MATERIAL IDENTIFICATION CODES.
B. SEE SHEETS A600-A601 FOR TYPICAL MOUNTING HEIGHTS, TYP UNO.
C. SEE SHEET A640 FOR TYP CASEWORK DETAILS AND FINISHES UNO IN ELEVATION.
D. SEE SHEETS I104-I105 FOR WALL PROTECTION TYPES.
E. REFER TO MEDICAL EQUIPMENT LISTS FOR DETAILED INFORMATION AND REQUIREMENTS RELATED TO EQUIPMENT.

KEYNOTES

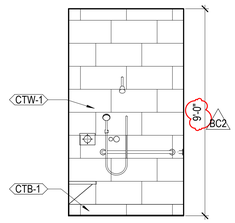
#	DESCRIPTION



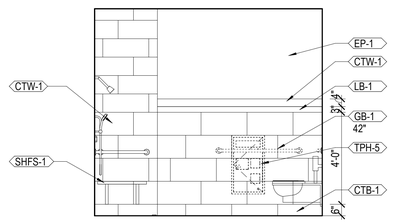
1 320A - PAT H/C TOILET/SHWR
3/8" = 1'-0"



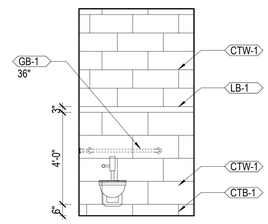
2 320A - PAT H/C TOILET/SHWR - NORTH
3/8" = 1'-0"



3 320A - PAT H/C TOILET/SHWR - EAST
3/8" = 1'-0"

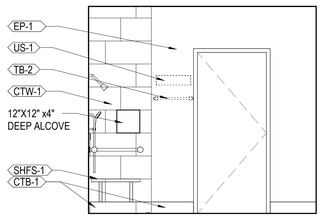


4 320A - PAT H/C TOILET/SHWR - SOUTH
3/8" = 1'-0"

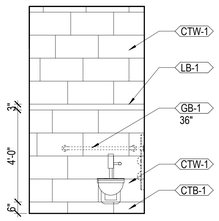


5 320A - PAT H/C TOILET/SHWR - WEST
3/8" = 1'-0"

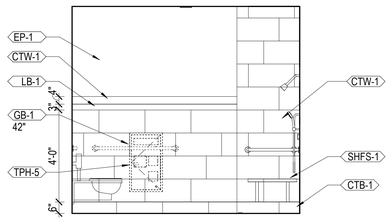
6 325A - TOILET/SHWR
3/8" = 1'-0"



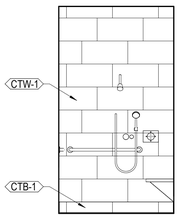
7 325A - TOILET/SHWR - NORTH
3/8" = 1'-0"



8 325A - TOILET/SHWR - EAST
3/8" = 1'-0"



9 325A - TOILET/SHWR - SOUTH
3/8" = 1'-0"



10 325A - TOILET/SHWR - WEST
3/8" = 1'-0"

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET,
SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET,
SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA
95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

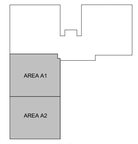
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024
BC2	BACKCHECK#2	03/14/2025

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

ENLARGED TOILET PLANS & INTERIOR ELEVATIONS

DATE: APRIL 16, 2024

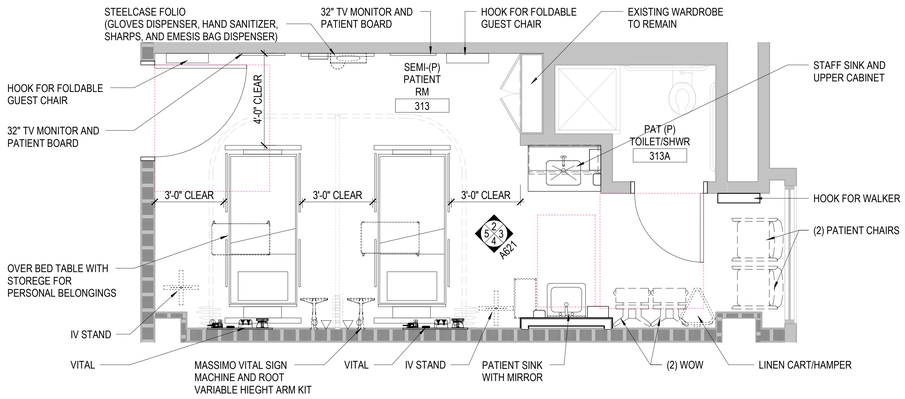
CONSTRUCTION DOCUMENTS

A620

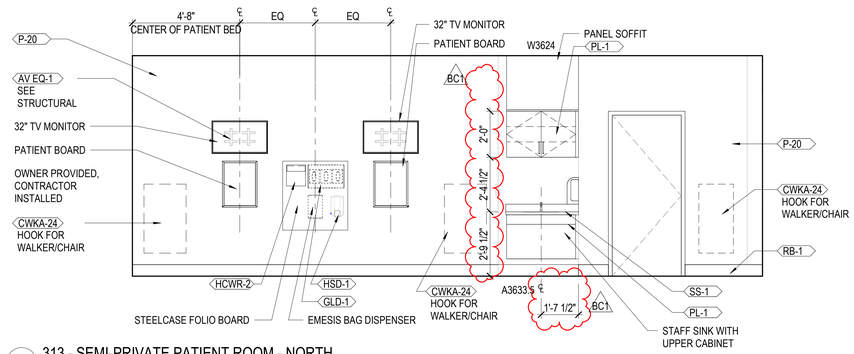
CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

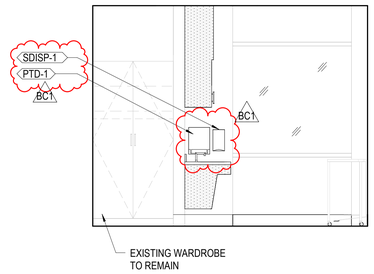
3/26/2025 4:01:44 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/A22- Natividad Med Surg 3 Unit - 3707-016-00.rvt



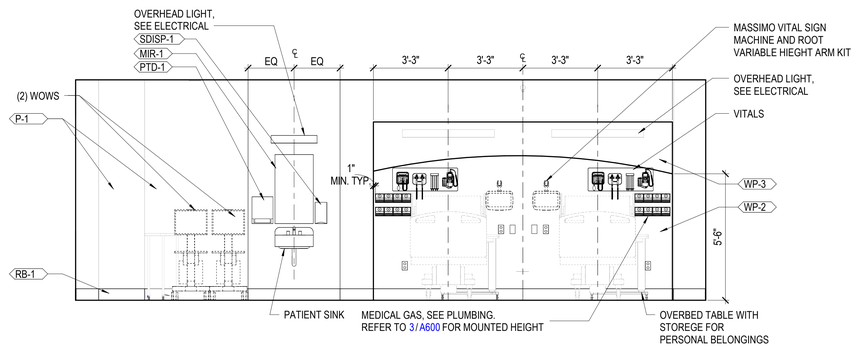
1 313 SEMI-PRIVATE PATIENT ROOM - ENLARGED FLOOR PLAN
3/8" = 1'-0"



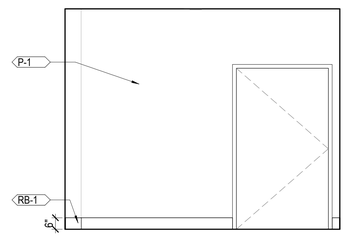
2 313 - SEMI-PRIVATE PATIENT ROOM - NORTH
3/8" = 1'-0"



3 313 - SEMI-PRIVATE PATIENT ROOM - EAST
3/8" = 1'-0"



4 313 - SEMI-PRIVATE PATIENT ROOM - SOUTH
3/8" = 1'-0"



5 313 - SEMI-PRIVATE PATIENT ROOM - WEST
3/8" = 1'-0"

GENERAL NOTES - INTERIOR ELEVATIONS

A. SEE SHEET A011 FOR MATERIAL IDENTIFICATION CODES.
B. SEE SHEETS A600-A601 FOR TYPICAL MOUNTING HEIGHTS, TYP UNO.
C. SEE SHEET A640 FOR TYP CASEWORK DETAILS AND FINISHES UNO IN ELEVATION.
D. SEE SHEETS I104-I105 FOR WALL PROTECTION TYPES.
E. REFER TO MEDICAL EQUIPMENT LISTS FOR DETAILED INFORMATION AND REQUIREMENTS RELATED TO EQUIPMENT.

KEYNOTES

#	DESCRIPTION

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

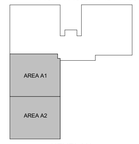
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER: S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39255
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

ENLARGED SEMI-PRIVATE PATIENT ROOM PLAN & ELEVATIONS

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

A621

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

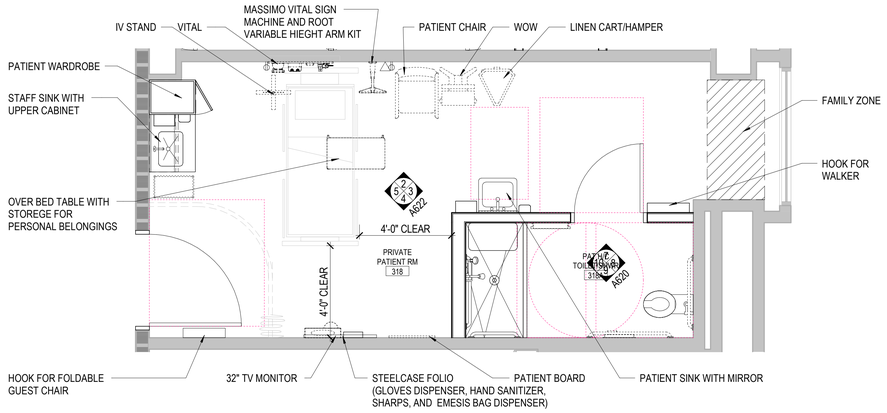
Author 12/15/2024 7:50:24 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/A22 - Natividad Med Surg 3 Unit - 3707-016-00.rvt

GENERAL NOTES - INTERIOR ELEVATIONS

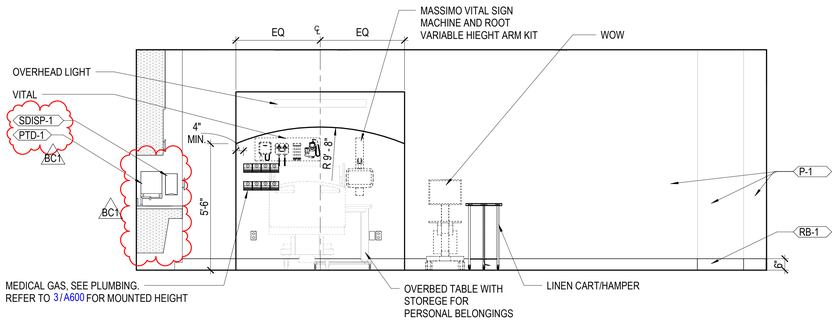
A. SEE SHEET A011 FOR MATERIAL IDENTIFICATION CODES.
B. SEE SHEETS A600-A601 FOR TYPICAL MOUNTING HEIGHTS, TYP UNO.
C. SEE SHEET A640 FOR TYP CASEWORK DETAILS AND FINISHES UNO IN ELEVATION.
D. SEE SHEETS I104-I105 FOR WALL PROTECTION TYPES.
E. REFER TO MEDICAL EQUIPMENT LISTS FOR DETAILED INFORMATION AND REQUIREMENTS RELATED TO EQUIPMENT.

KEYNOTES

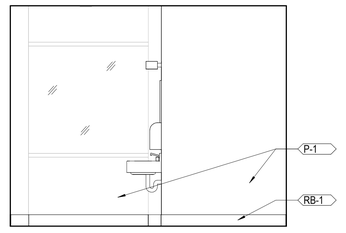
#	DESCRIPTION



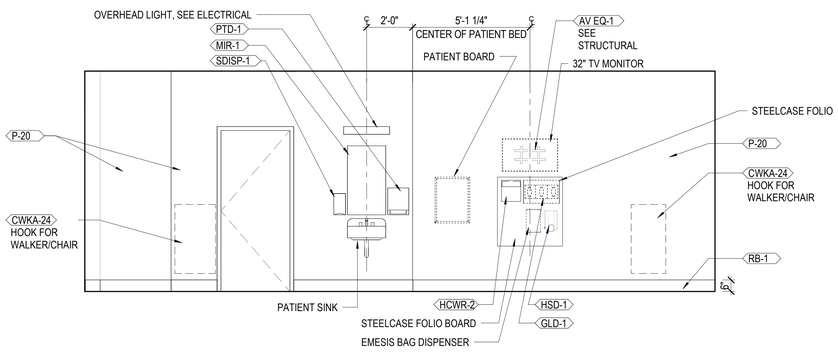
1 318 PRIVATE PATIENT ROOM - ENLARGED FLOOR PLAN
3/8" = 1'-0"



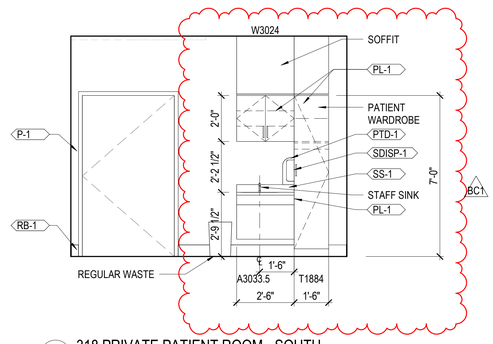
2 318 PRIVATE PATIENT ROOM - NORTH
3/8" = 1'-0"



3 318 PRIVATE PATIENT ROOM - EAST
3/8" = 1'-0"



4 318 PRIVATE PATIENT ROOM - WEST
3/8" = 1'-0"



5 318 PRIVATE PATIENT ROOM - SOUTH
3/8" = 1'-0"

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

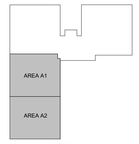
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER: S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

ENLARGED SINGLE PATIENT ROOM PLAN & ELEVATIONS

DATE: APRIL 16, 2024

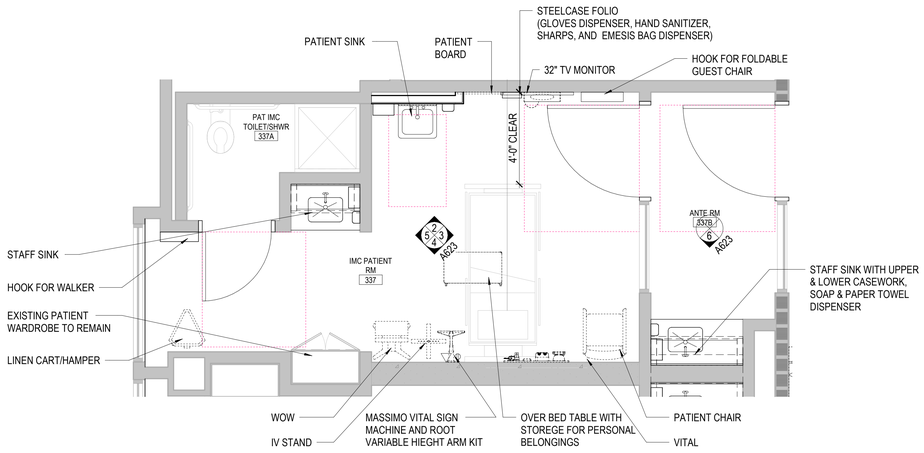
CONSTRUCTION DOCUMENTS

A622

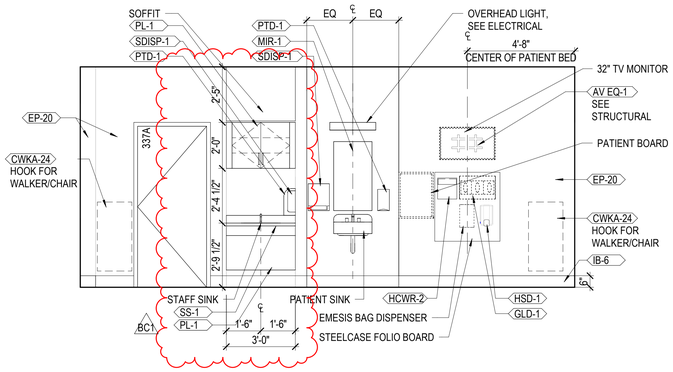
CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

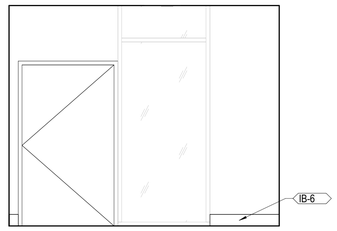
Author 12/15/2024 7:50:27 PM Autodesk Docs://Natividad Med Surg 3 Units 3707-016-00/A29 Natividad Med Surg 3 Units_3707-016-00.rvt



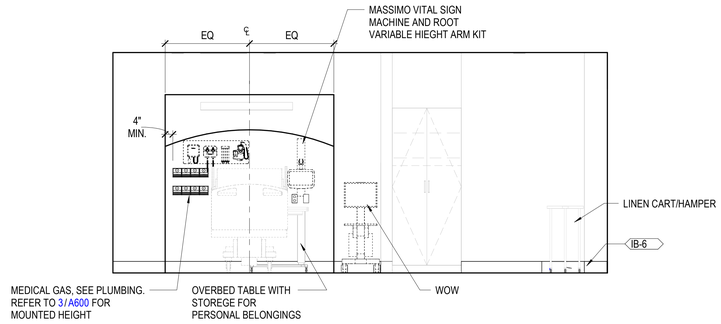
1 337 IMC PATIENT ROOM - ENLARGED FLOOR PLAN
3/8" = 1'-0"



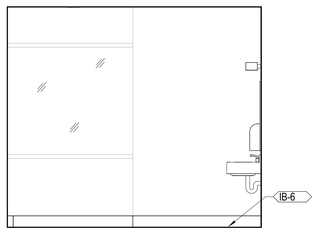
2 337 IMC PATIENT ROOM - NORTH
3/8" = 1'-0"



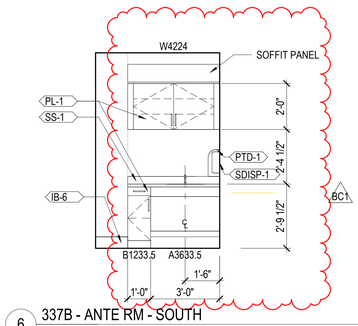
3 337 IMC PATIENT ROOM - EAST
3/8" = 1'-0"



4 337 IMC PATIENT ROOM - SOUTH
3/8" = 1'-0"



5 337 IMC PATIENT ROOM - WEST
3/8" = 1'-0"



6 337B - ANTE RM - SOUTH
3/8" = 1'-0"

GENERAL NOTES - INTERIOR ELEVATIONS

A. SEE SHEET A011 FOR MATERIAL IDENTIFICATION CODES.
B. SEE SHEETS A600-A601 FOR TYPICAL MOUNTING HEIGHTS, TYP UNO.
C. SEE SHEET A640 FOR TYP CASEWORK DETAILS AND FINISHES UNO IN ELEVATION.
D. SEE SHEETS I104-I105 FOR WALL PROTECTION TYPES.
E. REFER TO MEDICAL EQUIPMENT LISTS FOR DETAILED INFORMATION AND REQUIREMENTS RELATED TO EQUIPMENT.

KEYNOTES

#	DESCRIPTION

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

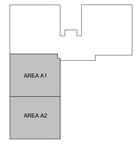
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:05:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

ENLARGED IMC PATIENT ROOM PLAN & ELEVATIONS

DATE: APRIL 16, 2024

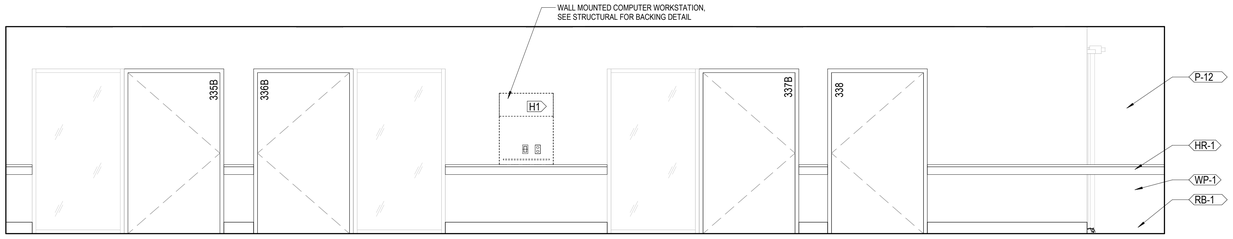
CONSTRUCTION DOCUMENTS

A623

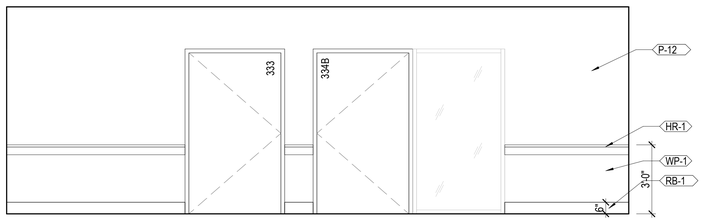
CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

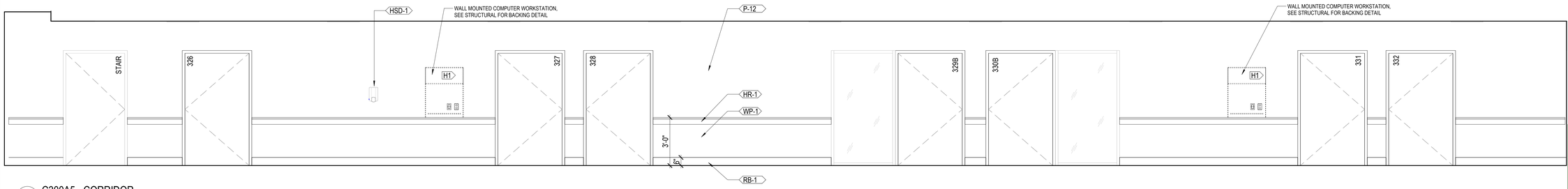
Author 12/15/2024 7:50:30 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016/3A22-Natividad Med Surg 3 Unit - 3707-016_r20.rvt



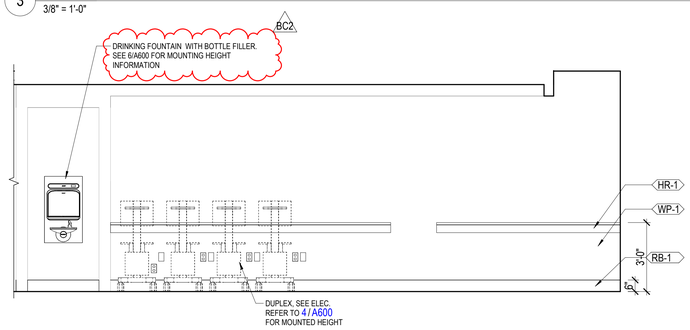
1 C300A1 - CORRIDOR
3/8" = 1'-0"



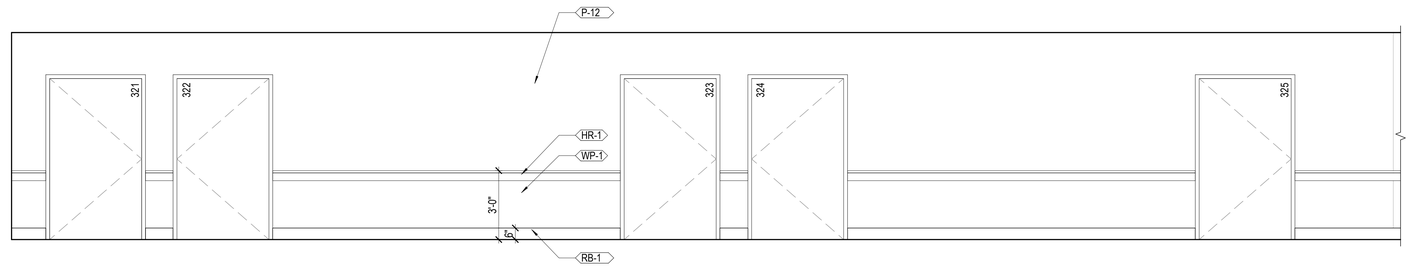
2 C300A7 - CORRIDOR
3/8" = 1'-0"



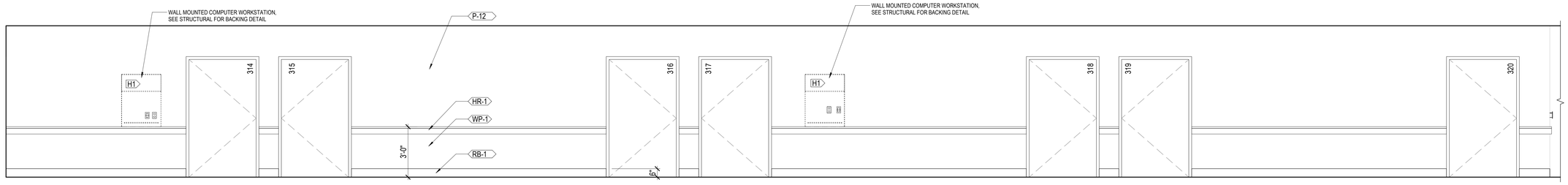
3 C300A5 - CORRIDOR
3/8" = 1'-0"



4 CORRIDOR #2 - EAST
3/8" = 1'-0"



5 C300A4 - CORRIDOR
3/8" = 1'-0"



6 C300A3 - CORRIDOR
3/8" = 1'-0"

GENERAL NOTES - INTERIOR ELEVATIONS

A. SEE SHEET A011 FOR MATERIAL IDENTIFICATION CODES.
B. SEE SHEETS A600-A601 FOR TYPICAL MOUNTING HEIGHTS, TYP UNO.
C. SEE SHEET A640 FOR TYP CASEWORK DETAILS AND FINISHES UNO IN ELEVATION.
D. SEE SHEETS I104-I105 FOR WALL PROTECTION TYPES.
E. REFER TO MEDICAL EQUIPMENT LISTS FOR DETAILED INFORMATION AND REQUIREMENTS RELATED TO EQUIPMENT.

KEYNOTES

#	DESCRIPTION
H1	WALL MOUNTED COMPUTER WORKSTATION (PROXIMITY CABINETS): HEIGHT TO KEYBOARD TRAY IS 39" AFF.

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

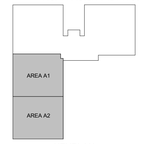
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER: S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S2405(03-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024
BC2	BACKCHECK#2	03/14/2025

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

INTERIOR ELEVATIONS

DATE: APRIL 16, 2024

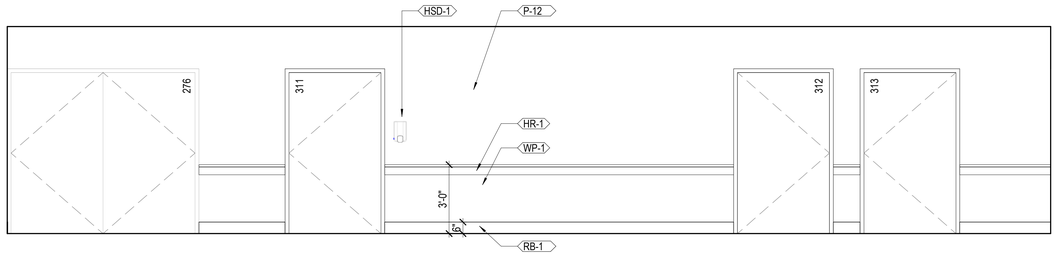
CONSTRUCTION DOCUMENTS

A624

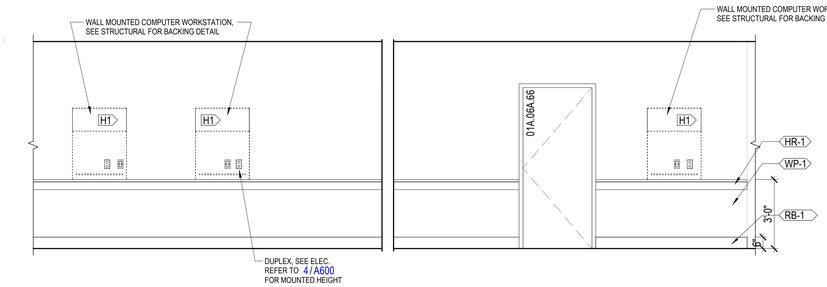
CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

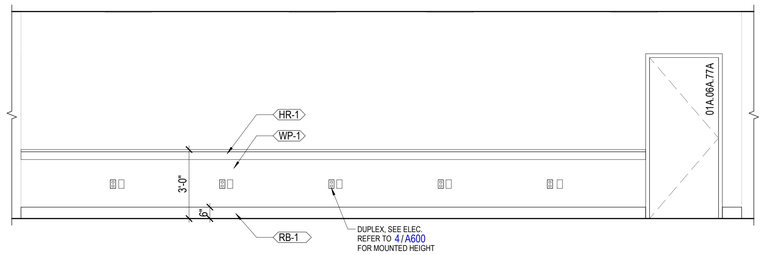
3/26/2025 4:01:47 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/A22- Natividad Med Surg 3 Unit - 3707-016-00.rvt



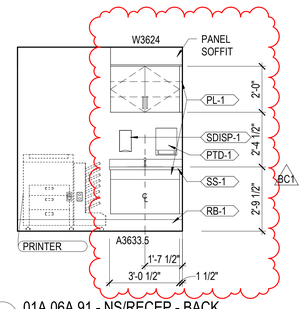
1 C300A2 - CORRIDOR
3/8" = 1'-0"



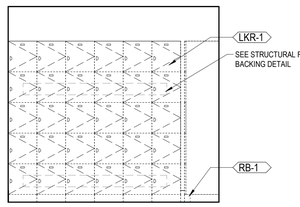
2 C300A8 - CORRIDOR
3/8" = 1'-0"



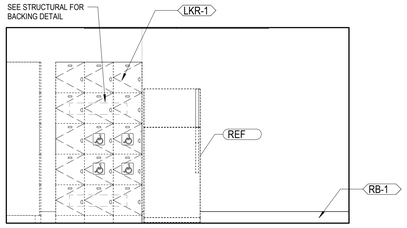
3 C300A6 - CORRIDOR
3/8" = 1'-0"



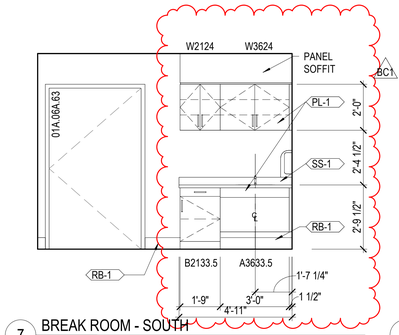
4 01A.06A.91 - NS/RECEP - BACK
3/8" = 1'-0"



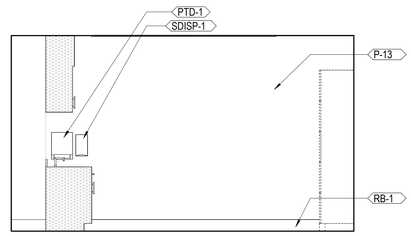
5 BREAK ROOM - NORTH
3/8" = 1'-0"



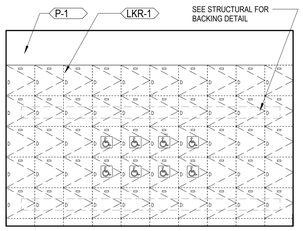
6 BREAK ROOM - EAST
3/8" = 1'-0"



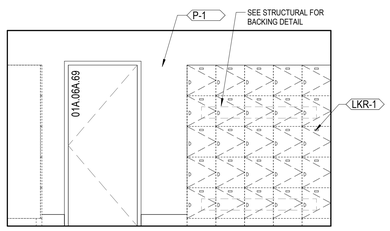
7 BREAK ROOM - SOUTH
3/8" = 1'-0"



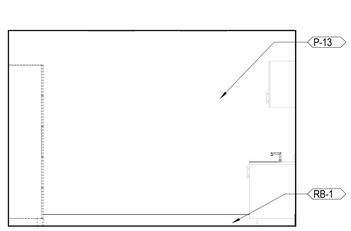
8 BREAK ROOM - WEST
3/8" = 1'-0"



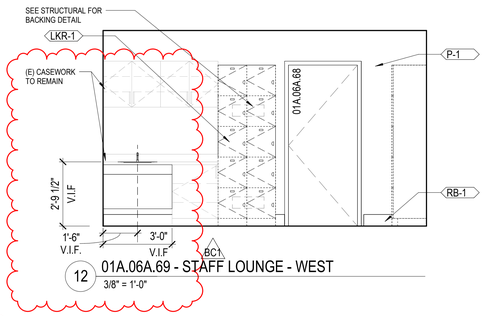
9 01A.06A.69 - STAFF LOUNGE - NORTH
3/8" = 1'-0"



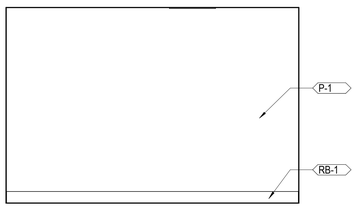
10 01A.06A.69 - STAFF LOUNGE - EAST
3/8" = 1'-0"



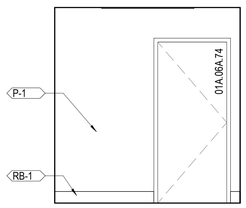
11 01A.06A.69 - STAFF LOUNGE - SOUTH
3/8" = 1'-0"



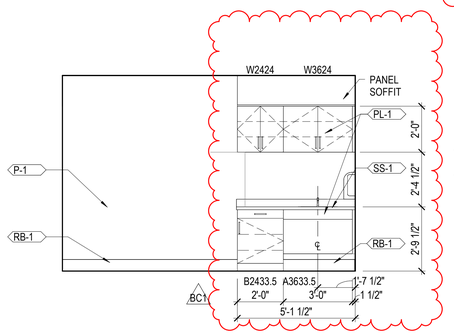
12 01A.06A.69 - STAFF LOUNGE - WEST
3/8" = 1'-0"



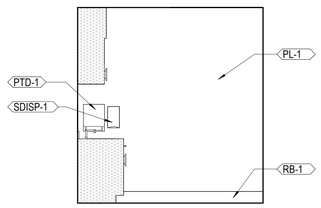
13 CLEAN UTILITY - NORTH
3/8" = 1'-0"



14 CLEAN UTILITY - EAST
3/8" = 1'-0"



15 CLEAN UTILITY - SOUTH
3/8" = 1'-0"



16 CLEAN UTILITY - WEST
3/8" = 1'-0"

GENERAL NOTES - INTERIOR ELEVATIONS

A. SEE SHEET A011 FOR MATERIAL IDENTIFICATION CODES.
B. SEE SHEETS A600-A601 FOR TYPICAL MOUNTING HEIGHTS, TYP UNO.
C. SEE SHEET A640 FOR TYP CASEWORK DETAILS AND FINISHES UNO IN ELEVATION.
D. SEE SHEETS I104-I105 FOR WALL PROTECTION TYPES.
E. REFER TO MEDICAL EQUIPMENT LISTS FOR DETAILED INFORMATION AND REQUIREMENTS RELATED TO EQUIPMENT.

KEYNOTES

#	DESCRIPTION
H1	WALL MOUNTED COMPUTER WORKSTATION (PROXIMITY CABINETS): HEIGHT TO KEYBOARD TRAY IS 39" AFF.

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

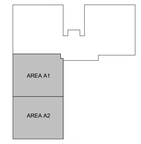
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER: S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/3/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2026
RENEWAL DATE
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

INTERIOR ELEVATIONS

DATE: APRIL 16, 2024

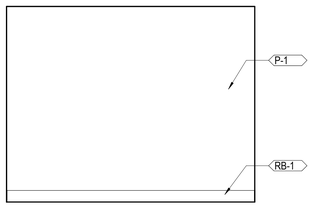
CONSTRUCTION DOCUMENTS

A625

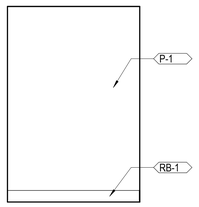
CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

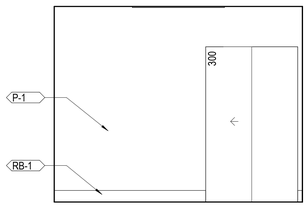
12/15/2024 7:59:33 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/A25 Natividad Med Surg 3 Unit - 3707-016-00.rvt Author



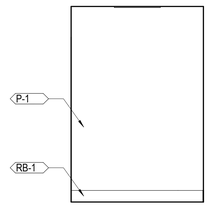
1 OFFICE - NORTH
3/8" = 1'-0"



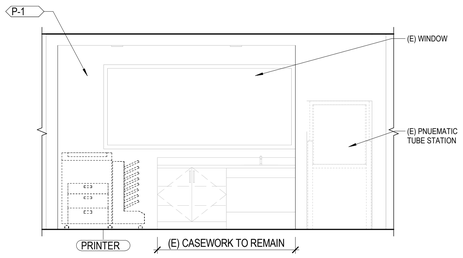
2 OFFICE - EAST
3/8" = 1'-0"



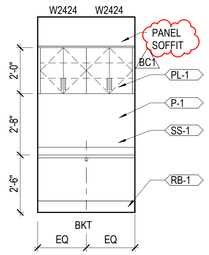
3 OFFICE - SOUTH
3/8" = 1'-0"



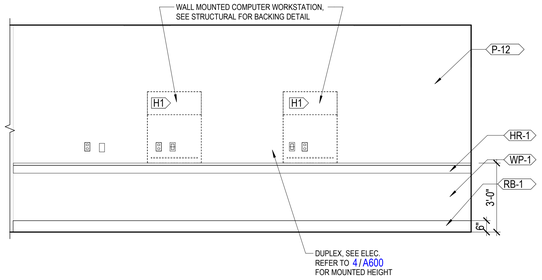
4 OFFICE - WEST
3/8" = 1'-0"



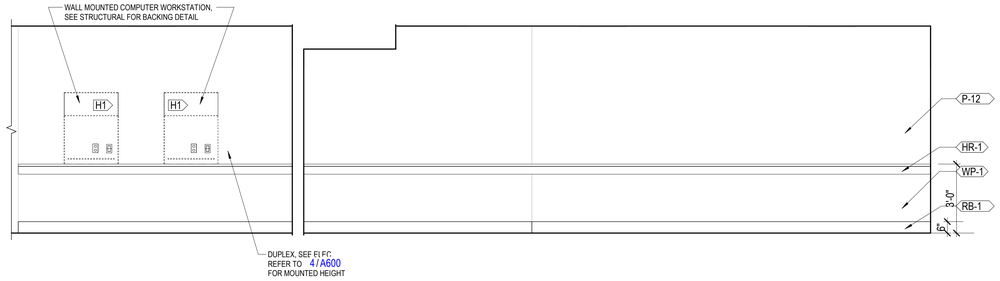
5 NURSE STATION - BACK
3/8" = 1'-0"



6 NURSE STATION - EAST
3/8" = 1'-0"



7 C300A4 CORRIDOR - NORTH
3/8" = 1'-0"



8 C300A1 CORRIDOR - NORTH
3/8" = 1'-0"

GENERAL NOTES - INTERIOR ELEVATIONS

A. SEE SHEET A011 FOR MATERIAL IDENTIFICATION CODES.
B. SEE SHEETS A600-A601 FOR TYPICAL MOUNTING HEIGHTS, TYP UNO.
C. SEE SHEET A640 FOR TYP CASEWORK DETAILS AND FINISHES UNO IN ELEVATION.
D. SEE SHEETS I104-I105 FOR WALL PROTECTION TYPES.
E. REFER TO MEDICAL EQUIPMENT LISTS FOR DETAILED INFORMATION AND REQUIREMENTS RELATED TO EQUIPMENT.

KEYNOTES

#	DESCRIPTION
H1	WALL MOUNTED COMPUTER WORKSTATION (PROXIMITY CABINETS): HEIGHT TO KEYBOARD TRAY IS 39" AFF.

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

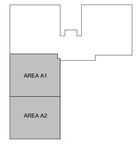
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

INTERIOR ELEVATIONS

DATE: APRIL 16, 2024

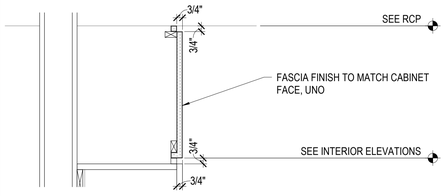
CONSTRUCTION DOCUMENTS

A626

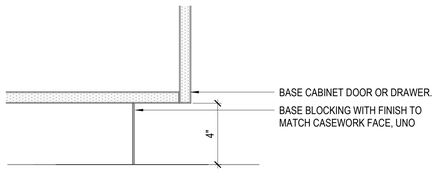
CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 12/15/2024 7:50:34 PM Autodesk Docs://Natividad Med Surg 3 Units 3707-016-00/A29 Natividad Med Surg 3 Units_3707-016-00.rvt

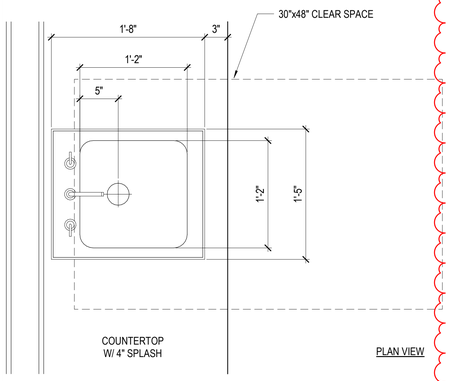


1 FASCIA - CLOSURE PANEL WITH OVERHANG
1 1/2" = 1'-0"

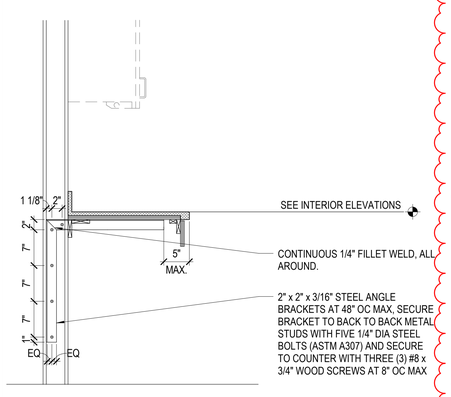


6 RECESSED TOE KICK - STANDARD (4")
3" = 1'-0"

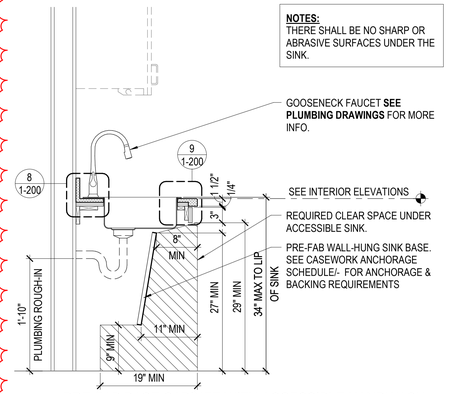
BC1



7 BASE SINK - ACCESSIBLE COUNTER PLAN
1 1/2" = 1'-0"



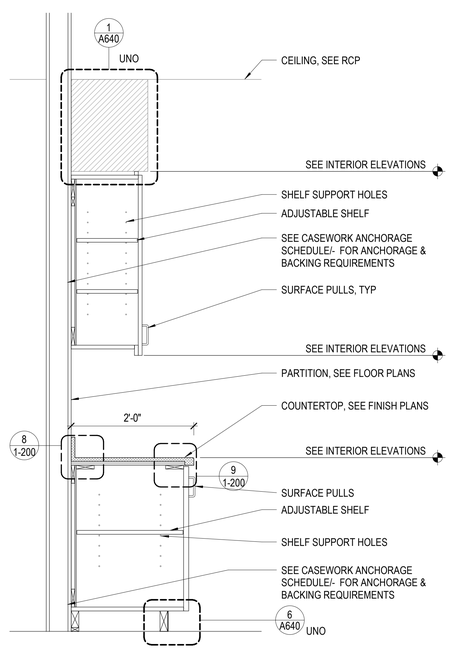
9 SUPPORT BRACKET - BASE CABINET (SQUARE)
1" = 1'-0"



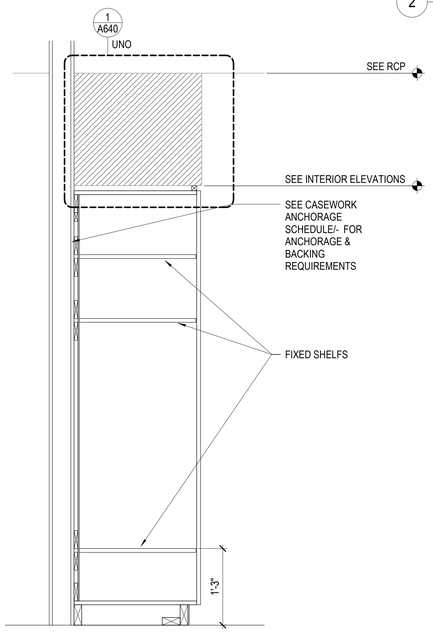
8 PRE-FAB BASE CABINET WITH ACCESSIBLE HANDWASH SINK
1" = 1'-0"

CASEWORK ANCHORAGE SCHEDULE							
Type	Depth	Width	Midmark Tag	*OPM	OPM Part No.	Backing Detail	Comments
A3033.5	2' - 0"	2' - 6"	BL00	OPM-0202-13	027-1948-04	ST5.00/A663.3	
A3633.5	2' - 0"	3' - 0"	BL00	OPM-0202-13	027-1948-05	ST5.00/A663.3	
B1233.5	2' - 0"	1' - 0"	BQ05	OPM-0201-13	027-1946-36	ST5.00/A663.3	
B2133.5	2' - 0"	1' - 9"	BQ06	OPM-0201-13	027-1946-39	ST5.00/A663.3	
B2433.5	2' - 0"	2' - 0"	BQ07	OPM-0201-13	02-1946-40	ST5.00/A663.3	
T1884	2' - 0"	1' - 6"	TA99	OPM-0220-13	027-1947-20	ST5.00/A663.3	
W2124	1' - 1 205/256"	1' - 9"	OA22	OPM-0224-13	027-1941-12	ST5.00/A663.3	
W2424	1' - 1 205/256"	2' - 0"	OA23	OPM-0224-13	027-1941-13	ST5.00/A663.3	
W3024	1' - 1 205/256"	2' - 6"	OA23	OPM-0224-13	027-1941-14	ST5.00/A663.3	
W3624	1' - 1 205/256"	3' - 0"	OA23	OPM-0224-13	027-1941-15	ST5.00/A663.3	
W4224	1' - 1 205/256"	3' - 6"	OA23	OPM-0224-13	027-1941-16	ST5.00/A663.3	

*NOTE: ALL OPMS ARE LOCATED IN APPENDIX B OF THE PROJECT MANUAL



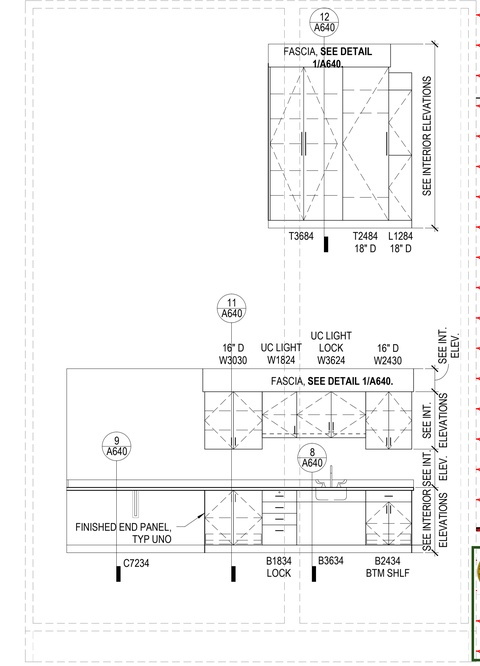
11 TYPICAL PRE-FAB CASEWORK SECTION
1" = 1'-0"



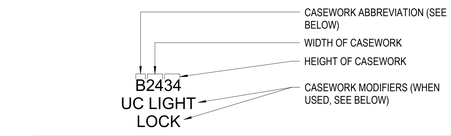
12 PRE-FAB TALL CABINET
1" = 1'-0"

GENERAL NOTES - CASEWORK

A. NOT ALL ITEMS SHOWN ARE NECESSARILY USED
B. BASE CABINET SHALL BE PL-1 UNLESS NOTED OTHERWISE IN SCHEDULE
C. COUNTERTOP SHALL BE SS-1 UNLESS NOTED OTHERWISE IN SCHEDULE
D. UPPER CABINETS SHALL BE PL-1 UNLESS NOTED OTHERWISE IN SCHEDULE
E. ALL CASEWORK TO BE ANCHORED TO BACKING PLATES. SEE CASEWORK ANCHORAGE SCHEDULE ON THIS SHEET FOR ANCHORAGE/BACKING INFORMATION.
F. ALL BASE CABINETS, WALL CABINETS AND TALL STORAGE CABINETS SHALL HAVE FINISH PANELS AT EXPOSED ENDS TO MATCH THE VERTICAL CABINET FINISH, UNLESS NOTED OTHERWISE.
G. CABINET BASE AT FLOOR TO HAVE FINISH AS INDICATED FOR ROOM OR AS DETAILED. REFER TO ROOM FINISH SCHEDULE.
H. CABINET FACE TYPES SHALL BE FLUSH OVERLAY, UNLESS NOTED OTHERWISE.
I. SIDE BY SIDE UPPER CABINETS WITH UNDER CABINET LIGHTING SHALL NOT HAVE INTERMEDIATE SUPPORT OR OTHER OBSTRUCTIONS THAT INTERFERE WITH LIGHTING
J. METAL BRACKETS, WHERE REQUIRED TO SUPPORT COUNTERTOPS, SHALL BE NOT LESS THAN 2'-8" OR GREATER THAN 4'-0" ON-CENTER AND 6" ON-CENTER MAXIMUM FROM OPEN END. ATTACH TO STUD OR BACKER AS INDICATED ON SHEET A640 UNLESS NOTED OTHERWISE.
K. MINIMIZE OPEN JOINTS IN COUNTERTOPS. SEAL ANY OPEN JOINTS WITH APPROVED SILICONE.
L. EXISTING AND/OR NEW APPLIANCES AND FIXTURE SHALL BE VERIFIED FOR DIMENSIONS AND CLEARANCES PRIOR TO CASEWORK FABRICATION. COORDINATE WITH ARCHITECT AS NECESSARY.
M. PROVIDE A GROMMET AT EACH LOCATION WHERE POWER OR SIGNAL DEVICES OCCUR BELOW A COUNTERTOP AND VERIFY LOCATIONS WITH OWNER AND CONFIRM WITH ARCHITECT, UNLESS NOTED OTHERWISE.



2 TYPICAL ARCHITECTURAL CASEWORK ELEVATIONS1
3/8" = 1'-0"



CASEWORK TAG LEGEND

ABBREVIATION	DEFINITION
A	SINK APRON (8/A640)
B	BASE CABINET (11/A640)
C	WORK COUNTER
L	NOT USED
S	NOT USED
T	TALL BASE CABINET (12/A640)
W	WALL CABINET (11/A640)
MODIFIER	**DEFINITION**
16" D, 30" D, ETC	DEPTH IF OTHER THAN TYPICAL (2'-0" FOR BASE, 1'-1" FOR WALL)
BKT	BRACKET AT 4'-0" OC MAX (SEE DETAIL9/A640)
BTM SHLF	NOT USED
FILE	DRAWERS TO BE FILE CABINETS
LOCK	PROVIDE LOCK
SLIDE	NOT USED
UC LIGHT	UNDERCABINET LIGHT FIXTURE

14 CASEWORK TAG AND MODIFIERS
1/2" = 1'-0"

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

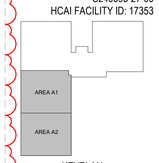
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39255
JUNE 30, 2026
RENEWAL DATE
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

TYPICAL CASEWORK DETAILS AND GENERAL NOTES

DATE: APRIL 16, 2024

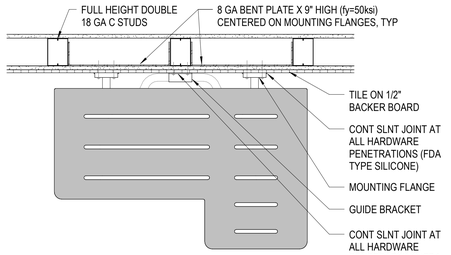
CONSTRUCTION DOCUMENTS

A640

CONSTRUCTION DOCUMENT

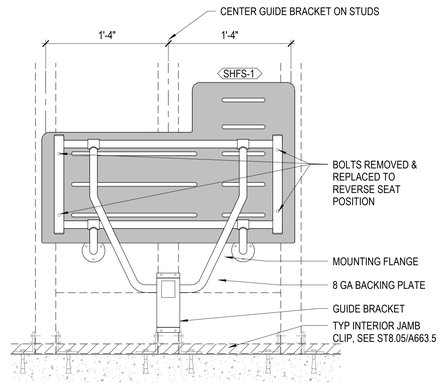
© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author
12/5/2024 7:50:34 PM
Autodesk Docs://Natividad Med Surg & Unit - 3707-016-00/02- Natividad Med Surg & Unit - 3707-016-00.rvt

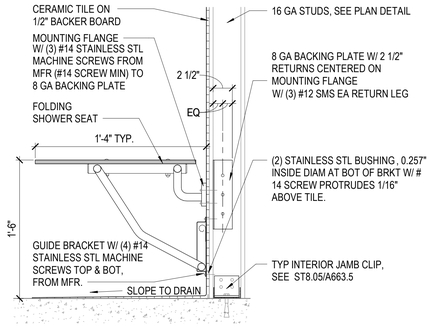


NOTE: SHOWER SEAT, MOUNTING PLATES AND FASTENERS SHALL BE ABLE TO WITHSTAND THE APPLICATION OF A 250 LB. POINT LOAD PER **CBC SECTION 11B-610.4.**

PLAN VIEW



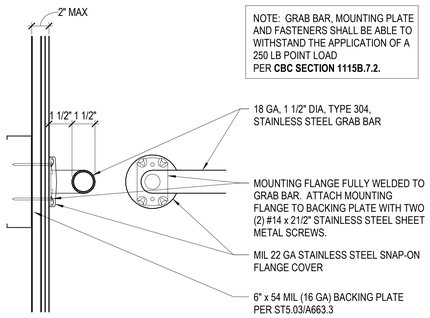
"FOLDED SEAT" FRONT VIEW



SECTION VIEW

1 SHOWER SEAT - COMPACT FOLDING

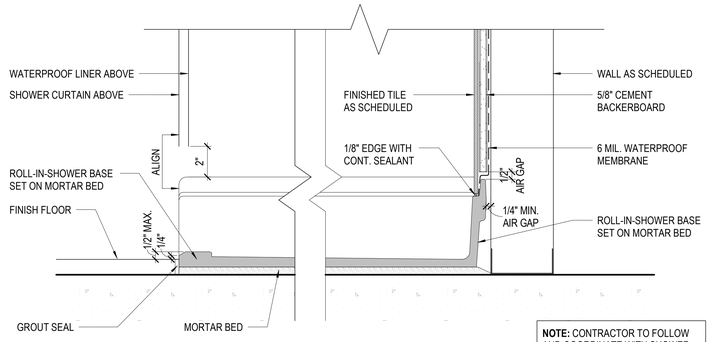
1 1/2" = 1'-0"



NOTE: GRAB BAR, MOUNTING PLATE AND FASTENERS SHALL BE ABLE TO WITHSTAND THE APPLICATION OF A 250 LB POINT LOAD PER **CBC SECTION 1115B.7.2.**

3 ACCESSIBLE GRAB BAR - ATTACHMENT AT WALL

3" = 1'-0"



NOTE: CONTRACTOR TO FOLLOW AND COORDINATE WITH SHOWER RECEPTOR/BASE MANUFACTORER FOR INSTALLATION REQUIREMENTS

2 ROLL-IN SHOWER PAN DETAIL

3" = 1'-0"

HGA

222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

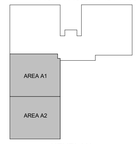
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

TOILET/SHOWER DETAILS

DATE: APRIL 16, 2024

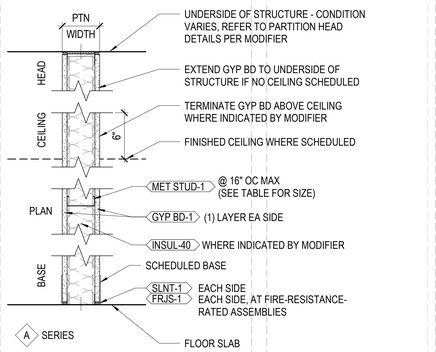
CONSTRUCTION DOCUMENTS

A650

CONSTRUCTION DOCUMENT

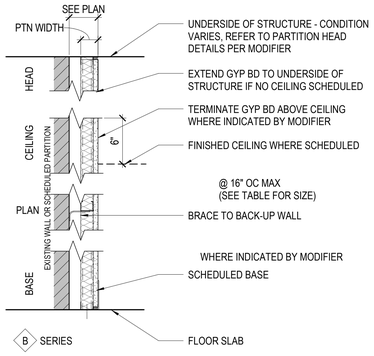
© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 4/29/2024 9:05:03 AM Autodesk Docs://Natividad Med Surg 3 Units - 3707-016-00/A29 Natividad Med Surg 3 Units - 3707-016-00.rvt



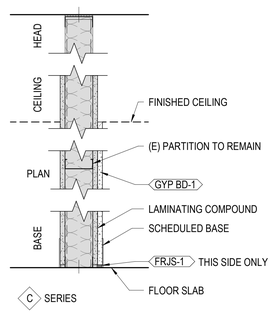
PTN TYPE	STUD WIDTH	PTN WIDTH	DESIGN STC	AVAILABLE FIRE RESISTANCE
A2	2 1/2"	3 3/4"		1 HOUR (UL U448)
A3	3 5/8"	4 7/8"	STC 37 (USGB10518)	1 HOUR (UL U465)
A4	4"	5 1/4"		
A6	6"	7 1/4"	STC 36 (USGB01036)	
A8	8"	9 1/4"		

A INTERIOR PARTITION TYPE - A SERIES
1 1/2" = 1'-0"



PTN TYPE	STUD WIDTH	PTN WIDTH	DESIGN STC	AVAILABLE FIRE RESISTANCE
	1 5/8"	2 1/4"		
	2 1/2"	3 1/8"		
	3 5/8"	4 1/4"		
	4"	4 5/8"		
	6"	6 5/8"		

B INTERIOR PARTITION TYPE - B SERIES
1 1/2" = 1'-0"



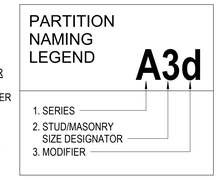
PTN TYPE	STUD WIDTH	PTN WIDTH	DESIGN STC	AVAILABLE FIRE RESISTANCE
CEa	(E)	(E)		1 HOUR (UL V497)

C INTERIOR PARTITION TYPE - C SERIES
1 1/2" = 1'-0"

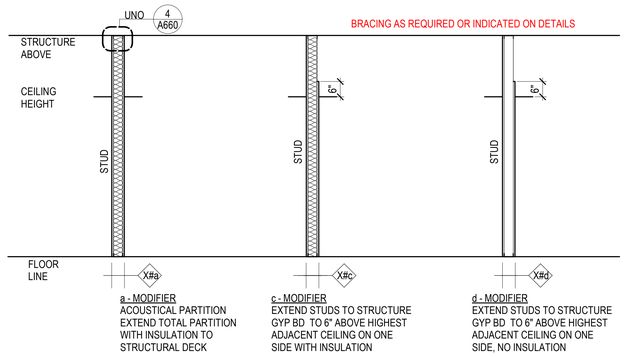
1. SERIES
THIS CHARACTER DENOTES THE ASSEMBLY SERIES TO WHICH THE WALL BELONGS.

2. METAL STUD/MASONRY UNIT SIZE DESIGNATOR
THIS CHARACTER DENOTES THE STUD OR FURRING WIDTH. FOR MASONRY, THIS CHARACTER INDICATES NOMINAL UNIT WIDTH.

3. MODIFIER
THIS CHARACTER DENOTES MODIFICATION(S) TO THE SERIES ASSEMBLY.



1 PARTITION NAMING LEGEND

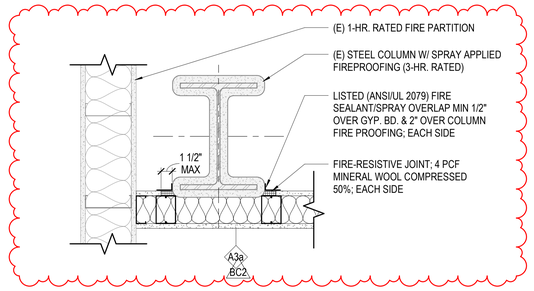


a - MODIFIER
ACOUSTICAL PARTITION EXTEND TOTAL PARTITION WITH INSULATION TO STRUCTURAL DECK

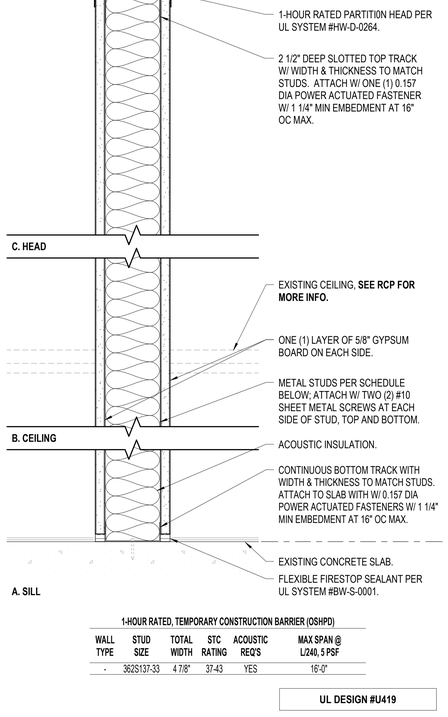
c - MODIFIER
EXTEND STUDS TO STRUCTURE GYP BD TO 6" ABOVE HIGHEST ADJACENT CEILING ON ONE SIDE WITH INSULATION

d - MODIFIER
EXTEND STUDS TO STRUCTURE GYP BD TO 6" ABOVE HIGHEST ADJACENT CEILING ON ONE SIDE, NO INSULATION

2 INTERIOR PARTITION MODIFIER KEY
1/2" = 1'-0"



8 PARTITION AT COLUMNS
1 1/2" = 1'-0"

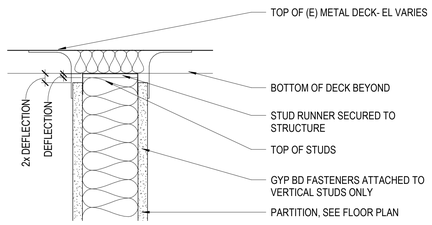


1-HOUR RATED, TEMPORARY CONSTRUCTION BARRIER (OSHPD)

WALL TYPE	STUD SIZE	TOTAL WIDTH	STC RATING	ACOUSTIC REQ'S	MAX SPAN @ L/240, 5 PSF
-	362S137-33	4 7/8"	37-43	YES	16'-0"

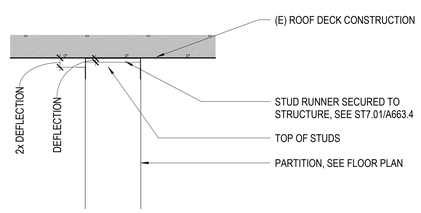
UL DESIGN #U419

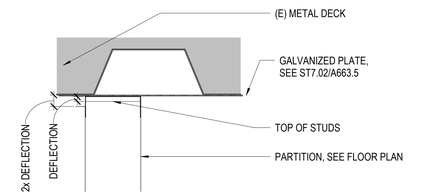
3 1-HR RATED, FULL HEIGHT, TEMP CONSTRUCTION BARRIER @ CONCRETE SLAB (OSHPD)
3" = 1'-0"

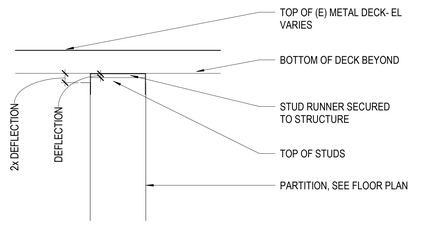


NOTE: REFER TO FLOOR PLANS FOR PARTITION TYPES

4 GYPSUM BOARD PARTITION HEAD DETAILS - RATED
3" = 1'-0" UL LISTING: HW-D-0045

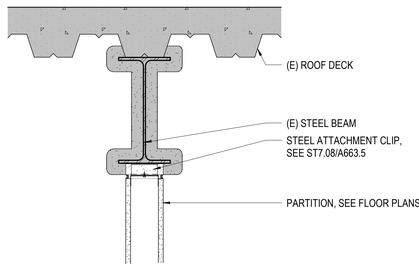




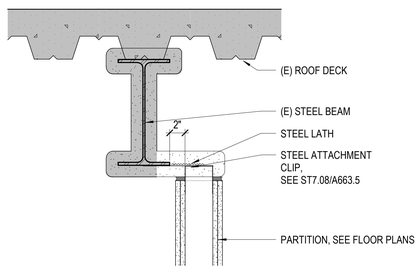


NOTE: REFER TO FLOOR PLANS FOR PARTITION TYPES

5 GYPSUM BOARD PARTITION HEAD DETAILS - NON RATED
3" = 1'-0"



6 HEAD CONNECTION AT STEEL BEAM
1 1/2" = 1'-0" UL LISTING: HW-D-0529



7 OFFSET HEAD CONNECTION AT STEEL BEAM
1 1/2" = 1'-0" UL LISTING: HW-D-0388

GENERAL NOTES - INTERIOR PARTIONS

1. MINIMUM SOUND TRANSMISSION CLASS (STC) VALUES INDICATED ARE BASED ON PARTITION TYPE WITH "A" MODIFIER; WHERE PARTITION ASSEMBLY EXTENDS TO DECK WITH ACOUSTIC INSULATION FILLING SPACE BETWEEN FRAMING FOR FULL HEIGHT OF PARTITION.
2. PROVIDE ACOUSTICAL SEALANT AND SOUND ATTENUATION BLANKETS AT STC-RATED PARTITIONS.
3. FLOOR PLAN DIMENSIONS ARE TO FACE OF SCHEDULED PARTITION ASSEMBLY EXCLUSIVE OF APPLIED FINISHES, UNLESS NOTED OTHERWISE.
4. "CLEAR", "HOLD" OR "FACE OF FINISH" DIMENSIONS INDICATE MINIMUM CLEARANCE REQUIRED BETWEEN SCHEDULED PARTITIONS WITH APPLIED FINISHES.
5. PARTITION TYPES INDICATE GENERAL INTERIOR PARTITION REQUIREMENTS. REFER TO OTHER CONTRACT DOCUMENTS FOR ADDITIONAL REQUIREMENTS RELATED TO INTERIOR PARTITION CONSTRUCTION AND PERFORMANCE REQUIREMENTS.
6. PARTITION TYPES INDICATED REFLECT TYPICAL CONDITIONS. REFER TO REFERENCED DETAILS FOR SPECIFIC PARTITION DETAILS.
7. PROVIDE PENETRATION FIRESTOPPING AND JOINT FIRESTOPPING AS SCHEDULED AND AS REQUIRED TO MAINTAIN CONTINUITY OF FIRE-RESISTANCE RATINGS OF ASSEMBLIES.
8. FIRE-RESISTANCE RATINGS AND ACOUSTICAL PERFORMANCE REQUIREMENTS INDICATED ARE BASED ON SPECIFIED PRODUCTS AND SYSTEMS. FIRE-RESISTANCE RATINGS AND ACOUSTICAL PERFORMANCE REQUIREMENTS FOR SYSTEMS USING MATERIALS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY VARY.
9. PROVIDE MOISTURE- AND MOLD-RESISTANT GYPSUM BOARD AT THE FOLLOWING LOCATIONS, UNLESS NOTED OTHERWISE: PARTITIONS IN TOILET ROOMS OTHER THAN SHOWER WALLS, JANITOR'S CLOSETS, OTHER PARTITIONS TO RECEIVE CERAMIC AND STONE TILE, AND AS INDICATED.
10. PROVIDE CEMENTITIOUS BACKER BOARD AT PARTITIONS AROUND SHOWERS AND OTHER LOCATIONS AS INDICATED.
11. WHERE WALLS OR PARTITIONS OF UNEQUAL THICKNESS ABUT, ALIGN COPLANAR EXPOSED FINISH SURFACES.
12. REFER TO CONTROL JOINT DETAILS FOR REQUIREMENTS OF CONTROL JOINTS IN CONJUNCTION WITH TYPICLA PARTITIONS.

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

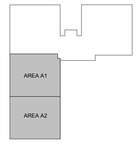
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024
BC2	BACKCHECK#2	03/14/2025

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

TYPICAL INTERIOR PARTITION TYPES

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

A660

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 3/26/2025 4:01:48 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/A22- Natividad Med Surg 3 Unit - 3707-016-00.rvt

PLOT DATE: May 09, 2017

GENERAL NOTES

1. CONSTRUCTION, WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE 2013 CALIFORNIA BUILDING STANDARDS CODE (2013 CBSC).
2. THE CONTRACTOR SHALL NOTIFY OSHPD AND THE REGISTERED DESIGN PROFESSIONAL (RDP) IN RESPONSIBLE CHARGE WHERE A CONFLICT OR DISCREPANCY OCCURS BETWEEN THE OSHPD PRE-APPROVED DETAILS (OPD) AND ANY OTHER PORTION OF THE CONSTRUCTION DOCUMENTS, FIELD CONDITIONS OR WHERE ANY CONDITIONS ARISE NOT COVERED BY THESE DOCUMENTS WHEREIN WORK WILL NOT COMPLY WITH THE REQUIREMENTS OF THE 2013 CBSC.
3. THE INTENT OF THE OPD IS TO CONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE 2013 CBSC. SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED PLANS AND SPECIFICATIONS WHEREIN THE WORK WILL NOT COMPLY WITH THE 2013 CBSC, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK.
4. GALVANIZED METAL STUDS, TRACKS AND SHEET STEEL SHALL CONFORM TO ASTM A635-09a MATERIAL, OR OTHER EQUIVALENT ASTM LISTED MATERIALS IN SECTION A2.1 OF THE AISI S100-07/S2-10: NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, WITH SUPPLEMENT 2, DATED 2010, WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MIL (18 GAGE) AND LIGHTER AND MINIMUM YIELD STRENGTH OF 50 KSI FOR HEAVIER GAGES.
5. METAL STUDS AND TRACKS SHALL BE OF SIZE, THICKNESS AND SECTION PROPERTIES SHOWN ON TABLES I-1, I-2 AND I-3 OF THE AISI MANUAL, COLD FORMED STEEL DESIGN, 2008 EDITION. THE RDP IN RESPONSIBLE CHARGE SHALL OBTAIN OSHPD APPROVAL FOR ANY SUBSTITUTIONS.
6. THESE OPD REFER TO FASTENER TYPE AND SIZE BUT DO NOT SPECIFY OR ENDORSE A SPECIFIC MANUFACTURER. THE RDP IN RESPONSIBLE CHARGE SHALL SELECT A MANUFACTURER, AND SELECTED FASTENER CAPACITIES SHALL MATCH OR EXCEED THE ALLOWABLE STRENGTHS LISTED HEREIN. THE FOLLOWING REQUIREMENTS SHALL ALSO BE MET:
   A. SHEET METAL SCREWS SHALL COMPLY WITH ASTM C 1513-10, ASME B18.6.4-98 (R2005) AND ICC-ES AC 118 AND ALLOWABLE STRENGTH SHALL BE BASED ON INFORMATION PROVIDED IN ST1.07 AND ST1.08. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.
   B. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES. ALL FIELD WELDING SHALL HAVE SPECIAL INSPECTION IN ACCORDANCE WITH 2013 CBC 1705A.2.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: GENERAL NOTES - PAGE 1 OF 3
OPD NO.: ST0.00

PLOT DATE: May 09, 2017

C. POST-INSTALLED ANCHORS (E.G. EXPANSION ANCHORS, SCREW ANCHORS, AND POWER-ACTUATED FASTENERS) SHALL HAVE SPECIAL INSPECTION AND TESTING IN ACCORDANCE WITH THE 2013 CBC SECTIONS 1705A.3 & 1913A.7. FOR QUALIFICATION, DESIGN AND USE OF POST-INSTALLED ANCHORS IN CONCRETE, SEE THE 2013 CBC SECTIONS 1616A.1.19 AND 1908A.1.1 LISTING OF CURRENT ICC-ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD) SHALL BE REQUIRED FOR FASTENERS USED.

D. POWER-ACTUATED FASTENERS (PAF), POWDER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDP) AND SHOT PINS ALL REPRESENT THE SAME DEVICE AND WILL HEREAFTER BE REFERRED TO AS POWER ACTUATED FASTENERS (PAF). PAF SHALL SATISFY THE CURRENT AC70-ACCEPTANCE CRITERIA FOR FASTENERS POWER-DRIVEN INTO CONCRETE, STEEL AND MASONRY ELEMENTS AND THE 2013 CBC SECTION 1908A.1.1. LISTING OF CURRENT ICC-ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD) SHALL BE REQUIRED FOR FASTENERS USED.

E. FOR PAF INSTALLED IN STEEL THE FASTENER PENETRATION SHALL HAVE THE ENTIRE POINTED END OF THE FASTENER DRIVEN THROUGH THE STEEL MEMBER, EXCEPT AS NOTED IN CURRENT REPORTS FROM TESTING AGENCIES ACCEPTABLE TO OSHPD.

7. DESIGN CRITERIA
   A. CODE: 2013 CALIFORNIA BUILDING STANDARDS CODE (2013 CBC), ASCE 7-10 WITH SUPPLEMENT #1, AISI S100-07/S2-10, AISI S211-07 WALL STUD DESIGN AND AISI S212-07 FOR HEADER DESIGN.
   B. LOAD COMBINATIONS: ALLOWABLE STRESS DESIGN IN ACCORDANCE WITH 2013 CBC SECTION 1605A.3.1.
   C. SYSTEM WEIGHTS:

      PARTITION WALLS = 7.5 PSF (INCLUDES METAL STUDS, TWO LAYERS OF GYP BOARD, TWO LAYERS ON ONE SIDE OR ONE LAYER ON BOTH SIDES, AND 1 PSF FOR INSULATION AND FINISHES)

      SOFFITS = 10 PSF (INCLUDES METAL STUDS, TWO LAYERS OF GYP BOARD, TWO LAYERS ON ONE SIDE OR ONE LAYER ON BOTH SIDES, AND 3.5 PSF FOR INSULATION, FINISHES AND MINOR FIXTURES)

      DOORS AND WINDOWS = 10 PSF

      CABINETS = 38 PCF (INCLUDES CONTENTS AT 33 PCF PER 2013 CBC TABLE 1607A.1 AND CABINET SELF WEIGHT OF 5 PCF)

      EQUIPMENT = 38 PCF (EQUIPMENT LOAD IS ASSUMED TO BE THE SAME AS CABINET LOAD)

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: GENERAL NOTES - PAGE 2 OF 3
OPD NO.: ST0.01

PLOT DATE: May 09, 2017

D. SEISMIC COEFFICIENTS:

a_p = 1.0 (ASCE 7-10, TABLE 13.5-1, CEILINGS, PARTITIONS, CABINETS, ETC.)

R_p = 2.5 (ASCE 7-10, TABLE 13.5-1, CEILINGS, PARTITIONS, CABINETS, ETC.)

Ω_o = 2.5 (ASCE 7-10, TABLE 13.5-1, CEILINGS, PARTITIONS, CABINETS, ETC.)

Ip = 1.5 (ASCE 7-10, SECTION 13.1.3)

z/h = 1.0 (ALLOWS FOR INSTALLATION AT ANY FLOOR OR ROOF LEVEL OF THE BUILDING)

F_p = LARGER OF 5 PSF IN ACCORDANCE WITH 2013 CBC SECTION 1607A.14 OR SEISMIC DESIGN FORCE IN ACCORDANCE WITH ASCE 7-10 SECTION 13.3.1

$F_x = 0.25 S_{DS} D$ (ASCE 7-10, SECTION 13.3.1), APPLIED CONCURRENTLY WITH F_p

ρ = 1.0 (ASCE 7-10, SECTION 13.3.1)

S_{DS} - WHERE LIMITING S_{DS} VALUES ARE NOT EXPLICITLY NOTED IN THE OPD, FRAMING SYSTEM OR COMPONENT SHOWN IN THE OPD HAS BEEN DESIGNED TO ACCOMMODATE ALL S_{DS} VALUES UP TO 1.95g. PROJECT SPECIFIC DESIGN IS REQUIRED FOR S_{DS} HIGHER THAN 1.95g.

E. DEFLECTION LIMIT = L/120 (2013 CBC TABLE 1604A.3, INTERIOR PARTITION WALLS WITH FLEXIBLE FINISHES). NOT PERMITTED FOR INTERIOR PARTITION WALLS WITH BRITTLE FINISHES.

F. FASTENER ALLOWABLE STRENGTH TABLES WERE DEVELOPED BASED ON ICC REPORTS BY MULTIPLE MANUFACTURERS.

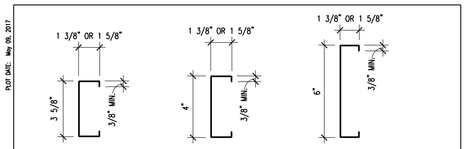
G. THE OPD DESIGN ASSUMES THAT STRUCTURAL ELEMENTS AND SUPPORTS TO WHICH THE COMPONENTS ARE ANCHORED HAVE SUFFICIENT CAPACITY TO CARRY THE LOADS IMPOSED BY THE COMPONENTS IN COMBINATION WITH ALL OTHER LOADS. EVALUATION OF THE CAPACITY OF THESE SUPPORTING STRUCTURAL ELEMENTS IS BEYOND THE SCOPE OF THE OPD.

H. LG BEAMER 8.10 SOFTWARE WAS USED FOR STUD CAPACITY CHECK. THIS SOFTWARE USES AISI S100-07/S2-10 AS THE BASIS FOR SECTION PROPERTY CALCULATIONS AND INTERACTION CHECKS.

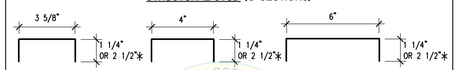
8. THE RDP IN RESPONSIBLE CHARGE SHALL VERIFY FIRE RESISTIVE AND ACOUSTICAL RATINGS FOR ALL PARTITION WALL ASSEMBLIES.
9. INDIVIDUAL DETAILS WITHIN THIS OPD TYPICALLY RELY UPON OTHER DETAILS FOR INFORMATION ESSENTIAL TO THEIR APPLICATION. OPD ARE TO BE USED IN CONJUNCTION WITH ALL RELATED, APPLICABLE DETAILS WITHIN THIS OPD PACKAGE INCLUDING THE GENERAL NOTES.
10. OPD PROVIDE OPTIONS FOR COMPONENTS SUCH AS STUD SIZES, BRACES SIZES, FASTENERS, ETC. THE RDP IN RESPONSIBLE CHARGE SHALL CLEARLY IDENTIFY ALL COMPONENTS SELECTED FOR USE IN THE PROJECT-SPECIFIC CONDITIONS.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: GENERAL NOTES - PAGE 3 OF 3
OPD NO.: ST0.02

PLOT DATE: May 09, 2017



STRUCTURAL STUD ('S'-SECTIONS)



STRUCTURAL TRACK ('T'-SECTIONS)

* = DEEP LEG TRACK (WHERE OCCURS AS NOTED IN DETAILS)

DESIGNATION THICKNESS (MILS)	REFERENCE ONLY GAUGE NO.
18	25
27	22
33	20
43	18
54	16
68	14
97	12
118	10

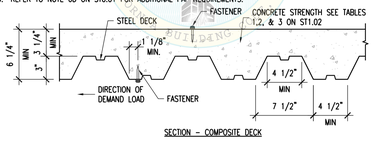
NOTES:
1. SEE WALL STUD FRAMING SECTIONS FOR THICKNESS OF STUDS & TRACKS.
2. Fy = 50KSI FOR 54 MIL (16GA) & THICKER SECTIONS, AND Fy = 33KSI FOR SECTIONS UP TO & INCLUDING 43 MIL (18GA).
3. SIZES AND THICKNESS ARE CONSIDERED MINIMUMS.
4. STRUCTURAL STUDS MAY BE PUNCHED UNLESS NOTED OTHERWISE. STRUCTURAL TRACK SHALL BE UNPUNCHED UNLESS NOTED OTHERWISE.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: METAL STUD PROFILES
OPD NO.: ST1.00

PLOT DATE: May 09, 2017

POWER ACTUATED FASTENER (PAF) GENERAL NOTES (INSTALLED IN CONCRETE FILLED METAL DECK OR CONC SLAB)

1. POWER ACTUATED FASTENER (PAF), POWDER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDP), SHOT PINS ALL REPRESENT THE SAME FASTENER AND WILL HEREAFTER BE REFERRED TO AS POWER ACTUATED FASTENERS (PAF).
2. ALLOWABLE STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAND IN ACCORDANCE WITH THE 2013 CBC SECTION 1605A.3.1.
3. ALLOWABLE STRENGTHS ARE FOR A SINGLE FASTENER WHICH MEET REQUIREMENTS PER SECTION BELOW AND TABLES ON ST1.02. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE ALLOWABLE STRENGTHS LISTED IN THE ICC ESRS 1799, 2024, 2138, & 2269.
4. MINIMUM CONCRETE STRENGTH f'c=2000 PSI FOR NORMAL WEIGHT CONCRETE AND f'c=3000 PSI FOR ALL LIGHT WEIGHT CONCRETE UNLESS NOTED OTHERWISE.
5. POWER ACTUATED FASTENER INSTALLED THROUGH LOW FLUTES OF THE METAL DECK SHALL MEET THE REQUIREMENTS OF THE INSTALLATION CRITERIA AND SECTION BELOW.
6. MINIMUM EDGE DISTANCE OF 1 1/8" FROM THE EDGE OF METAL DECK WEB AND 4" FROM THE EDGE OF THE DECK.
7. STEEL DECK TO BE A MINIMUM OF 20GA.
8. CONCRETE FILL DEPTH ABOVE THE TOP OF METAL DECK MUST BE A MINIMUM OF 3 1/4" AT LIGHT WEIGHT CONCRETE COMPOSITE METAL DECK.
9. PAF SHALL NOT BE USED TO RESIST SEISMIC SHEAR FORCES EXCEPT AT INTERIOR NON-LOAD BEARING, NON-SHEAR WALL PARTITION WALLS (AS PERMITTED BY 2013 CBC SECTION 1908A.1.1) AND COMPONENTS EXEMPT FROM CONSTRUCTION DOCUMENT REVIEW BY 2013 CBC SECTION 1616A.1.18 (NOT PERMITTED TO TAKE SEISMIC SHEAR BY ICC-ES AC70 FOR ANY OTHER CONDITIONS). PAF SHALL NOT BE USED TO CARRY SEISMIC TENSION LOADS (EXCEPT FOR VERTICAL SEISMIC LOAD PRODUCED BY SELF WEIGHT OF THE COMPONENTS) OR IN CRACKED CONCRETE UNLESS APPROVED FOR SUCH LOADING BY OSHPD.
10. PAF SHALL NOT BE USED IN PRE-STRESSED CONCRETE UNLESS NON-DESTRUCTIVE TESTING METHODS ARE USED TO LOCATE STRAND AND REINFORCEMENT PRIOR TO FASTENER INSTALLATION.
11. PAF INSTALLATION SHALL NOT NICK OR DAMAGE EXISTING CONCRETE REINFORCEMENT. SHOULD THIS OCCUR THE RDP IN RESPONSIBLE CHARGE SHALL BE NOTIFIED IMMEDIATELY. PAF SHALL BE INSTALLED 1" CLEAR OF EXISTING REINFORCEMENT. THIS MAY REQUIRE NON-DESTRUCTIVE TESTING.
12. PAF SHALL BE INSTALLED PER CURRENT ICC-ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD).
13. TESTING OF PAF SHALL BE PER 2013 CBC SECTION 1913A.7. MINIMUM CONCRETE SUBSTRATE THICKNESS IS THREE TIMES THE PAF PENETRATION INTO THE CONCRETE SUBSTRATE.
14. TESTING IS NOT REQUIRED OF PAF USED TO ATTACHED TRACKS OF INTERIOR NON-SHEAR WALL PARTITIONS FOR SHEAR ONLY WHERE THERE ARE AT LEAST THREE FASTENERS.
15. TOTAL ALLOWABLE LOADS IN TENSION, SHEAR OR TENSION SHEAR COMBINATIONS SHALL NOT EXCEED 90 LB AS PERMITTED BY EXCEPTION TO THE ASCE 7-10 SECTION 13.4.5.
16. REFER TO NOTE 6D ON ST0.01 FOR ADDITIONAL PAF REQUIREMENTS.



SECTION – COMPOSITE DECK

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: POWER ACTUATED FASTENER (PAF) GENERAL NOTES (INSTALLED IN CONCRETE FILLED METAL DECK OR CONC SLAB)
OPD NO.: ST1.01

PLOT DATE: May 09, 2017

POWER ACTUATED FASTENER (PAF) ALLOWABLE STRENGTHS (INSTALLED IN CONCRETE FILLED METAL DECK OR CONC SLAB)

TABLE 1
POWER ACTUATED FASTENER INSTALLED IN SAND-LIGHTWEIGHT CONCRETE THROUGH METAL DECK (f'c MIN=3000 PSI)

NOMINAL SHANK DIAMETER (IN)	MIN. EMBED (IN)	MIN. SPACING (IN)	MIN. EDGE DISTANCE (IN)	TENSION (LB) (SEE NOTE 15)	SHEAR (LB) (SEE NOTE 15)
0.145 MIN	1 1/4	5.1	4	90	90

TABLE 2
POWER ACTUATED FASTENER INSTALLED INTO STRUCTURAL SAND-LIGHTWEIGHT CONCRETE (f'c MIN=3000 PSI)

NOMINAL SHANK DIAMETER (IN)	MIN. EMBED (IN)	MIN. SPACING (IN)	MIN. EDGE DISTANCE (IN)	TENSION (LB) (SEE NOTE 15)	SHEAR (LB) (SEE NOTE 15)
0.145 MIN	1 1/4	5.1	4	90	90

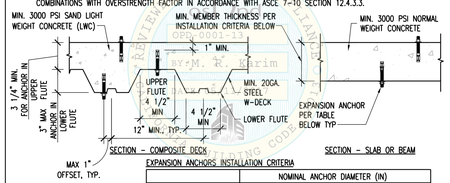
BY:M. R. Karim
DATE:05/11/2017

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: POWER ACTUATED FASTENER (PAF) ALLOWABLE STRENGTHS (INSTALLED IN CONC FILLED METAL DECK OR CONC SLAB)
OPD NO.: ST1.02

PLOT DATE: May 09, 2017

EXPANSION ANCHOR GENERAL NOTES

1. ALLOWABLE STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAND IN ACCORDANCE WITH THE 2013 CBC SECTION 1605A.3.1.
2. ALLOWABLE STRENGTHS ARE FOR SINGLE ANCHORS WHICH MEET MIN. REQUIREMENTS PER TABLE & SECTION BELOW.
3. MINIMUM CONCRETE STRENGTH f'c=3000 PSI.
4. EXPANSION ANCHORS INSTALLED THROUGH UPPER OR LOWER FLUTES OF METAL DECK SHALL MEET THE REQUIREMENTS OF THE INSTALLATION CRITERIA AND SECTION BELOW.
5. STEEL DECK TO BE MIN. 20 GA. W-DECK.
6. MINIMUM CONCRETE FILL DEPTH ABOVE THE TOP OF METAL DECK PER SECTION AND INSTALLATION CRITERIA BELOW.
7. EXPANSION ANCHORS SHALL NOT BE USED IN PRE-STRESSED CONCRETE UNLESS NON-DESTRUCTIVE TESTING METHODS ARE USED TO LOCATE STRAND & REINFORCING PRIOR TO ANCHOR INSTALLATION.
8. EXPANSION ANCHOR INSTALLATION SHALL NOT NICK OR DAMAGE EXISTING REINFORCEMENT. SHOULD THIS OCCUR THE RDP IN RESPONSIBLE CHARGE SHALL BE NOTIFIED IMMEDIATELY. EXPANSION ANCHORS SHALL BE INSTALLED 1" CLEAR OF EXISTING REINFORCEMENT.
9. EXPANSION ANCHORS SHALL BE INSTALLED PER CURRENT ICC-ES EVALUATION REPORT OR REPORT FROM OTHER TESTING AGENCY ACCEPTABLE TO OSHPD.
10. TESTING OF EXPANSION ANCHORS SHALL BE PER 2013 CBC SECTION 1913A.7.
11. EXPANSION ANCHORS SHALL BE INSTALLED TO COMPLY W/ THE MINIMUM SLAB THICKNESS REQUIREMENTS ESTABLISHED BY THE ICC-ESR FOR THE SPECIFIED ANCHOR.
12. REFER TO NOTE 6C ON ST0.01 FOR ADDITIONAL EXPANSION ANCHOR REQUIREMENTS.
13. ALL VALUES IN TABLES ARE FOR CRACKED CONCRETE & INCLUDE REDUCTION BASED ON ACI 318-11 D3.3.4 REQUIREMENTS. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE ALLOWABLE STRENGTHS CALCULATED USING THE ICC ESRS 1917, 2427, 2502, & 3037 AND USING AN α FACTOR OF 1.4.
14. ALL VALUES IN TABLES REFLECT THE ALLOWABLE STRENGTHS WITH 20% ALLOWABLE STRESS INCREASE FOR LOAD COMBINATIONS WITH OVERSTRENGTH FACTOR IN ACCORDANCE WITH ASCE 7-10 SECTION 12.4.3.3.



SECTION – COMPOSITE DECK

SECTION – SLAB OR BEAM

EXPANSION ANCHORS INSTALLATION CRITERIA

	NOMINAL ANCHOR DIAMETER (IN)				
	3/8	1/2		5/8	
EFFECTIVE MIN. EMBEDMENT (IN)	2	2 1/4	3 1/4	3 1/8	4
MIN. MEMBER THICKNESS NWC SLAB OR BEAM ONLY (IN)	4.5	4.5	6	6	7 1/4
MIN. ANCHOR SPACING (3 x EMBED) (IN)	6 3/4	6 3/4	9 3/4	9 3/8	12
MIN. EDGE DISTANCE (IN)	6	7	7 1/2	6 1/2	8 3/4

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: EXPANSION ANCHOR GENERAL NOTES
OPD NO.: ST1.03

PLOT DATE: May 09, 2017

EXPANSION ANCHOR ALLOWABLE STRENGTHS

TABLE 1
EXPANSION ANCHORS INSTALLED IN TO THE UNDERSIDE OF STRUCTURAL SAND-LIGHTWEIGHT CONCRETE (f'c MIN=3000 PSI) OVER METAL DECK

ANCHOR DIA. (IN)	EMBED (IN)	SHEAR (LB)	TENSION (LB)
3/8	2	747	604
1/2	2 1/4	1029	610
1/2	3 1/4	1173	1086
5/8	3 1/4	1353	836
5/8	4 1/4	2477	1941

TABLE 2
EXPANSION ANCHORS INSTALLED IN TO THE TOP OF STRUCTURAL SAND-LIGHTWEIGHT CONCRETE (f'c MIN=3000 PSI) OVER METAL DECK

ANCHOR DIA. (IN)	EMBED (IN)	SHEAR (LB)	TENSION (LB)
3/8	2	806	624
1/2	2 1/4	948	660

TABLE 3
EXPANSION ANCHORS INSTALLED IN NORMAL WEIGHT CONCRETE (f'c MIN=3000 PSI)

ANCHOR DIA. (IN)	EMBED (IN)	SHEAR (LB)	TENSION (LB)
3/8	2	1029	961
1/2	2 1/4	1029	1086
1/2	3 1/4	2581	2803
5/8	3 1/4	2539	2156
5/8	4 1/4	3078	3413

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: EXPANSION ANCHOR ALLOWABLE STRENGTHS
OPD NO.: ST1.04

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

NATIVIDAD MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-29256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

OPD - STANDARD PARTITION WALL DETAILS

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

A663

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 4/29/2024 9:06:59 AM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/429- Natividad Med Surg 3 Unit - 3707-016-00.rvt

PLOT DATE: May 09, 2017

POWER ACTUATED FASTENER (PAF) GENERAL NOTES (INSTALLED IN STEEL)

1. MINIMUM STEEL TENSILE STRENGTH Fu=58 KSI.
2. MINIMUM SPACING 1 INCH.
3. MINIMUM EDGE DISTANCE 1/2 INCH.
4. USE KNURLED SHANK.
5. POWER ACTUATED FASTENERS (PAF) SHALL BE INSTALLED PER CURRENT ICC-ES EVALUATION REPORTS OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD.
6. SEE GENERAL NOTE 6D & E ON ST0.01 FOR PAF REQUIREMENTS & ATTACHMENT TO STEEL.
7. POWER POWER ACTUATED FASTENER (PAF), POWDER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDP), SHOT PINS, ARE COMMON NOMINCLATURES THAT ALL REPRESENT THE SAME FASTENER.
8. ALLOWABLE STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAND IN ACCORDANCE WITH THE 2013 CBC SECTION 1605A.3.1.
9. ALLOWABLE STRENGTHS ARE FOR SINGLE FASTENER, WHICH MEETS THE REQUIREMENTS PER NOTES ABOVE. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE ALLOWABLE STRENGTHS LISTED IN THE ICC ESRS 1799, 2024, 2138 & 2269.
10. TOTAL ALLOWABLE TENSION, SHEAR OR TENSION SHEAR COMBINATION SHALL NOT EXCEED 250 LB AS REQUIRED BY THE EXCEPTION TO ASCE 7-10 SECTION 13.4.5.
11. LIMIT USE TO INTERIOR NON-BEARING, NON-SHEAR WALL PARTITIONS AND COMPONENTS EXEMPT FROM CONSTRUCTION DOCUMENTS REVIEW BY THE 2013 CBC SECTION 1616A.1.18 (NOT PERMITTED TO TAKE SEISMIC SHEAR BY ICC-ES AC 70 FOR ANY OTHER CONDITIONS.)

POWER ACTUATED FASTENER (PAF) ALLOWABLE STRENGTHS (INSTALLED IN STEEL)

NOMINAL SHANK DIAMETER (IN)	STEEL THICKNESS (IN)									
	3/16		1/4		3/8		1/2			
	TENSION (LB)	SHEAR (LB)	TENSION (LB)	SHEAR (LB)	TENSION (LB)	SHEAR (LB)	TENSION (LB)	SHEAR (LB)	TENSION (LB)	SHEAR (LB)
0.145 MIN	155	250	230	250	250	250	190	220		

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: POWER ACTUATED FASTENER GENERAL NOTES AND ALLOWABLE STRENGTHS (INSTALLED IN STEEL)
OPD NO.: ST1.05

PLOT DATE: May 09, 2017

SHEET METAL SCREW (SMS) GENERAL NOTES

1. THE ALLOWABLE STRENGTHS ARE BASED UPON THE AISI S100-07/S2-10 AND ARE LIMITED BY ACTUAL TESTED STRENGTH OF THE SCREWS IN TENSION AND SHEAR.
2. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE AVERAGE TESTED TENSILE AND SHEAR STRENGTHS TABULATED FROM ICC ESR'S 1976, 2196, 1730, 1408, AND THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA). FASTENER TYPES AND SIZES APPLY TO NON-PROPRIETARY FASTENER TYPES AND SIZES, AND DOES NOT ENDORSE A SPECIFIC MANUFACTURER. WHERE PROPRIETARY FASTENERS ARE SPECIFIED, NO EXCEPTIONS ARE TAKEN TO THE USE OF MANUFACTURER SPECIFIC VALUES THAT ARE BASED UPON THE AISI S100-07/S2-10, SECTION E4. ALL SCREW FASTENERS SHALL SATISFY ICC-ES AC118-ACCEPTANCE CRITERIA FOR SELF TAPPING SCREW FASTENERS.
3. TABLE 1 REPRESENTS ALLOWABLE TENSION AND SHEAR STRENGTHS FOR NON-PROPRIETARY SHEET METAL SCREWS FOR STEEL TO STEEL CONNECTIONS.
4. TABLE 2 AND 3 REPRESENT ALLOWABLE TENSION AND SHEAR STRENGTHS THAT INCORPORATE THE EFFECTS OF EITHER ONE OR TWO LAYERS OF 5/8" GYPSUM BOARD BETWEEN FASTENER HEAD AND CONNECTING STEEL MATERIAL.
5. IN ORDER TO USE THE VALUES IN TABLES 1, 2, AND 3, THE ATTACHMENTS SHALL BE DETAILED IN SUCH A WAY AS TO AVOID PRYING AND THE STUDS MUST BE STABILIZED WITH FULL-DEPTH BLOCKING WITH CONTINUOUS STRAPS ALONG THE FLANGES OR WITH BACKING BARS.
6. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHOULD NOT BE LESS THAN 3 EXPOSED THREADS.
7. STEEL THICKNESSES JOINED ARE ASSUMED TO BE THE SAME. IF DISSIMILAR THICKNESSES ARE BEING CONNECTED, THE VALUE FOR THE THINNER PART JOINED SHALL BE USED.
8. THE MINIMUM SPACING BETWEEN CENTERS OF FASTENERS SHALL NOT BE LESS THAN 3 X FASTENER DIAMETER. THE MINIMUM EDGE DISTANCE FROM THE CENTER OF A FASTENER TO THE EDGE OF ANY PART SHALL NOT BE LESS THAN 1.5 X FASTENER DIAMETER. WHERE THE END DISTANCE IS PARALLEL TO THE FORCE ON THE FASTENER, THE NOMINAL SHEAR STRENGTH SHALL BE LIMITED BY SECTION E4.3.2 OF THE AISI S100-07/S2-10.
9. GALVANIZED METAL STUDS, TRACK AND SHEET STEEL SHALL CONFORM TO ASTM A653-09a MATERIAL (OR OTHER EQUIVALENT ASTM LISTED MATERIALS IN THE AISI S100-07/S2-10, SECTION A2.1) WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MIL (18 GA) AND LIGHTER, AND MINIMUM YIELD STRENGTH OF 50 KSI FOR 54 MIL (16 GA) & HEAVIER.
10. WHERE VALUES ARE NOT GIVEN, SUCH COMBINATIONS OF SCREW SIZES & MATERIAL THICKNESS ARE NOT RECOMMENDED.
11. IF THE ATTACHMENT DETAILS RESULT IN PRYING WITH A MOMENT ARM NOT TO EXCEED 1 5/8", THE VALUES IN TABLE 4 MAY BE USED. IF THE ATTACHMENT DETAILS RESULT IN PRYING WITH A MOMENT ARM THAT EXCEEDS 1 5/8", THE REREGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE OF THE PROJECT SHALL DETERMINE THE ALLOWABLE VALUES AND SUBMIT SUBSTANTIATION FOR THEM TO OSHPD FOR REVIEW.
12. INTERACTION OF SHEAR AND TENSION SHALL BE BASED ON $T/T_{ALL} + V/V_{ALL} \leq 1.0$.
13. REFER TO NOTE 6A ON ST0.00 FOR ADDITIONAL SHEET METAL SCREW REQUIREMENTS.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: SHEET METAL SCREW GENERAL NOTES
OPD NO.: ST1.06

PLOT DATE: May 09, 2017

SHEET METAL SCREW (SMS) ALLOWABLE STRENGTHS

TABLE 1
SHEET METAL SCREW ALLOWABLE STRENGTHS FOR STEEL TO STEEL CONNECTIONS.

F_u (KSI)	MIL (STEEL GA)	FASTENER SIZE									
		NO. 14 0.250 IN		NO. 12 0.216 IN		NO. 10 0.190 IN		NO. 8 0.164 IN		NO. 6 0.138 IN	
		SHEAR (LB)	TENSION (LB)	SHEAR (LB)	TENSION (LB)	SHEAR (LB)	TENSION (LB)	SHEAR (LB)	TENSION (LB)	SHEAR (LB)	TENSION (LB)
50	97 (12)	704	275	525	205						
	68 (14)	704	275	525	205	405	159				
	54 (16)	613	261	525	205	405	159	303	118		
33	43 (18)	302	144	280	124	263	109	244	94	165	79
	33 (20)					177	84	164	72	151	61

NOTES:
1. SEE GENERAL NOTES ON ST1.06 FOR MORE INFORMATION.
2. WHERE ONE OR TWO LAYERS OF GYP BOARD OCCURS BETWEEN STEEL SURFACES, THE ALLOWABLE VALUES OF TABLE 2 & 3 SHALL BE USED.
3. ALLOWABLE STRENGTH VALUES DO NOT ACCOUNT FOR EFFECTS FROM PRYING. THE RDP IN RESPONSIBLE CHARGE OF THE PROJECT SHALL PROVIDE ADEQUATE BLOCKING/RESTRAINT TO PREVENT PRYING ACTION. WHERE PRYING OCCURS, THE VALUES AND CONSTRAINTS OF TABLE 4 SHALL BE USED.

TABLE 2 – NON-PRYING CONDITION
SHEET METAL SCREW ALLOWABLE STRENGTHS FOR STEEL TO STEEL CONNECTIONS WITH ONE LAYER OF 5/8" GYP BOARD BETWEEN STEEL SURFACES.

F_u (KSI)	MIL (STEEL GA)	FASTENER SIZE									
		NO. 14 0.250 IN		NO. 12 0.216 IN		NO. 10 0.190 IN		NO. 8 0.164 IN		NO. 6 0.138 IN	
		SHEAR (LB)	TENSION (LB)	SHEAR (LB)	TENSION (LB)	SHEAR (LB)	TENSION (LB)	SHEAR (LB)	TENSION (LB)	SHEAR (LB)	TENSION (LB)
50	97 (12)	226	275	180	205						
	68 (14)	226	275	180	205	140	159				
	54 (16)	226	261	180	205	140	159	120	118		
33	43 (18)	226	144	180	124	140	109	120	94	60	79
	33 (20)					100	84	80	72	60	61

NOTES:
1. SEE GENERAL NOTES ON ST1.06 FOR MORE INFORMATION.
2. ALLOWABLE STRENGTH VALUES DO NOT ACCOUNT FOR EFFECTS FROM PRYING. RDP IN RESPONSIBLE CHARGE TO PROVIDE ADEQUATE BLOCKING/RESTRAINT TO PREVENT PRYING ACTION. WHERE PRYING OCCURS, THE VALUES AND CONSTRAINTS OF TABLE 4 SHALL BE USED.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: SHEET METAL SCREW ALLOWABLE STRENGTHS
OPD NO.: ST1.07

PLOT DATE: May 09, 2017

SHEET METAL SCREW (SMS) ALLOWABLE STRENGTHS (CONTINUED)

TABLE 3 – NON-PRYING CONDITION
SHEET METAL SCREW ALLOWABLE STRENGTHS FOR STEEL TO STEEL CONNECTIONS WITH TWO LAYERS OF 5/8" GYP BOARD BETWEEN STEEL SURFACES.

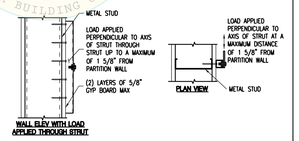
F_u (KSI)	MIL (STEEL GA)	FASTENER SIZE									
		NO. 14 0.250 IN		NO. 12 0.216 IN		NO. 10 0.190 IN		NO. 8 0.164 IN		NO. 6 0.138 IN	
		SHEAR (LB)	TENSION (LB)	SHEAR (LB)	TENSION (LB)	SHEAR (LB)	TENSION (LB)	SHEAR (LB)	TENSION (LB)	SHEAR (LB)	TENSION (LB)
50	97 (12)	166	275	130	205						
	68 (14)	166	275	130	205	100	159				
	54 (16)	166	261	130	205	100	159	80	118		
33	43 (18)	166	144	130	124	100	109	80	94	50	79
	33 (20)					70	84	50	72	40	61

NOTES:
1. SEE GENERAL NOTES ON ST1.06 FOR MORE INFORMATION.
2. ALLOWABLE STRENGTH VALUES DO NOT ACCOUNT FOR EFFECTS FROM PRYING. RDP IN RESPONSIBLE CHARGE TO PROVIDE ADEQUATE BLOCKING/RESTRAINT TO PREVENT PRYING ACTION. WHERE PRYING OCCURS, THE VALUES AND CONSTRAINTS OF TABLE 4 SHALL BE USED.

TABLE 4 – PRYING CONDITION (SEE DETAILS BELOW – STRUT CAN BE HORIZONTAL OR VERTICAL)
SHEET METAL SCREW ALLOWABLE STRENGTHS FOR STEEL TO STEEL CONNECTIONS WITH ONE OR TWO LAYERS OF 5/8" GYP BOARD BETWEEN STEEL SURFACES AND MAXIMUM PRYING MOMENT ARM OF 1 5/8".

F_u (KSI)	MIL (STEEL GA)	FASTENER SIZE									
		NO. 14 0.250 IN		NO. 12 0.216 IN		NO. 10 0.190 IN		NO. 8 0.164 IN		NO. 6 0.138 IN	
		SHEAR (LB)	TENSION (LB)	SHEAR (LB)	TENSION (LB)	SHEAR (LB)	TENSION (LB)	SHEAR (LB)	TENSION (LB)	SHEAR (LB)	TENSION (LB)
50	97 (12)	40	275	30	205						
	68 (14)	40	275	30	205	25	159				
	54 (16)	40	261	30	205	25	159	20	118		
33	43 (18)	40	144	30	124	25	109	20	94	10	79
	33 (20)					15	84	15	72	10	61

NOTES:
1. SEE GENERAL NOTES ON ST1.06 FOR MORE INFORMATION.
2. THE ALLOWABLE STRENGTH VALUES LISTED IN TABLE 4 ARE BASED UPON A LIMITED TEST ASSEMBLY WHERE THE ORIGIN AND DIRECTION OF THE LOAD RESULTS IN PRYING UPON THE FASTENER. THE MAGNITUDE OF THIS PRYING EFFECT SHALL BE LIMITED TO A MOMENT ARM OF 1 5/8" FROM THE FASTENER.



SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: SHEET METAL SCREW ALLOWABLE STRENGTHS (CONTINUED)
OPD NO.: ST1.08

PLOT DATE: May 09, 2017

TYPICAL PARTITION WALL CONDITIONS

CONDITION 'A' – PARTITION WALL WITHOUT ATTACHMENTS. SEE DETAIL ST2.02

CONDITION 'B' – PARTITION WALL SUPPORTING CABINETS OR EQUIPMENT ON ONE SIDE OR BOTH SIDES OF THE WALL DISTRIBUTING UP TO 50 LB TOTAL VERTICAL LOAD PER STUD (37 PLF). REFER TO GENERAL NOTE 7C ON ST0.01. CENTER OF GRAVITY LESS THAN 6" FROM THE FACE OF THE STUD. SEE DETAIL ST2.03.

CONDITION 'C' – PARTITION WALL SUPPORTING OVERHEAD AND/OR BASE CABINETS OR EQUIPMENT ON ONE SIDE OR BOTH SIDES OF THE WALL, DISTRIBUTING UP TO 152 LB TOTAL VERTICAL LOAD PER STUD (114 PLF). REFER TO GENERAL NOTE 7C ON ST0.01. CENTER OF GRAVITY WITHIN 6" OF FACE OF THE STUD. SEE DETAIL ST2.04.

CONDITION 'D' – PARTITION WALL SUPPORTING FULL HEIGHT CABINETS OR EQUIPMENT ON ONE SIDE OR BOTH SIDES OF THE WALL, DISTRIBUTING UP TO 380 LB TOTAL VERTICAL LOAD PER STUD (285 PLF). REFER TO GENERAL NOTE 7C ON ST0.01. CENTER OF GRAVITY WITHIN 6" OF FACE OF THE STUD. SEE DETAIL ST2.04.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: TYPICAL PARTITION WALL CONDITIONS
OPD NO.: ST2.00

PLOT DATE: May 09, 2017

PARTITION WALL SCHEDULES

SCHEDULE 1: MINIMUM PARTITION WALL STUD SIZE (PARTITION CONDITION 'A')

S_{DS}	WALL HEIGHT				
	9 FT	12 FT	16 FT		
1.46-1.95	362S137-33	362S137-33	362S137-33	400S137-54	600S137-43

SCHEDULE 2: MINIMUM PARTITION WALL STUD SIZE (PARTITION CONDITION 'B')

S_{DS}	WALL HEIGHT					
	9 FT	12 FT		16 FT		
1.46-1.95	362S137-33	362S137-54	400S137-43	NA	400S137-54	600S137-43

SCHEDULE 3: MINIMUM PARTITION WALL STUD SIZE (PARTITION CONDITION 'C')

S_{DS}	WALL HEIGHT					
	9 FT	12 FT			16 FT	
1.46-1.95	362S137-54	400S137-54	NA	NA	600S137-54	600S137-54

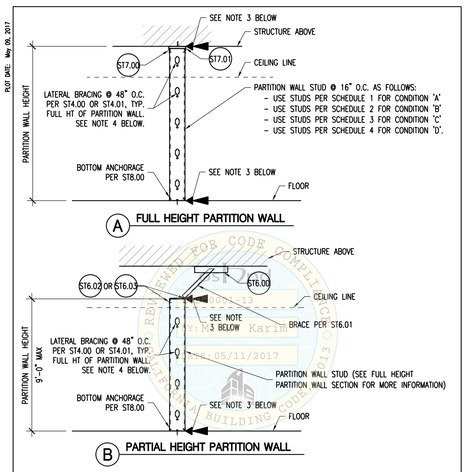
SCHEDULE 4: MINIMUM PARTITION WALL STUD SIZE (PARTITION CONDITION 'D')

S_{DS}	WALL HEIGHT					
	9 FT		12 FT		16 FT	
1.46-1.95	NA	400S137-54	600S137-54	NA	NA	600S137-54	600S137-54

NOTES:
1. PARTITION WALL STUDS ARE SPACED @ 16" O.C. TYPICAL UNLESS NOTED OTHERWISE.
2. SEE ST2.06 FOR PARTITION WALL ELEVATION & ADDITIONAL INFORMATION.
3. SEE ST2.00 FOR DEFINITION OF PARTITION WALL CONDITIONS.
4. SEE ST1.00 FOR METAL STUD PROFILES.
5. 362S137-33 IS A 3 5/8" WIDE SSMA STUD WITH 1 3/8" WIDE FLANGE THAT IS 33 MIL THICK.
6. STUDS SHOWN IN THE TABLES ABOVE CAN BE REPLACED BY EQUIVALENT STUDS WITH EQUAL OR HIGHER AREA (A), SECTION MODULUS (S_x, S_y) AND MOMENT OF INERTIA (I_x, I_y) PROVIDED MATERIALS CONFORM TO THE SAME ASTM STANDARD WITH EQUAL OR HIGHER YIELD STRENGTH (f_y) AND ULTIMATE STRENGTH (f_u) WHEN APPROVED.
7. PARTITION WALLS TO HAVE LATERAL BRACING @ 48" O.C. PER ST4.00 OR ST4.01, FOR FULL HT OF PARTITION WALL. LATERAL BRACING IS NOT REQUIRED WHERE GYP BOARD IS INSTALLED ON BOTH SIDES OF PARTITION WALL.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: PARTITION WALL SCHEDULES
OPD NO.: ST2.01

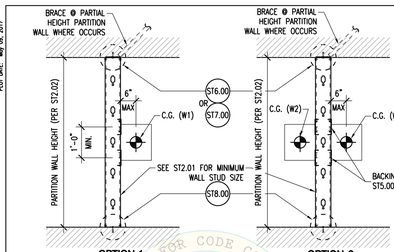
PLOT DATE: May 09, 2017



NOTES:
1. PARTITION WALL SCHEDULES PER ST2.01.
2. SEE ST2.00 FOR DEFINITION OF PARTITION WALL CONDITIONS.
3. SEE ST6.11 FOR TOP & BOTTOM CONNECTION DEMANDS.
4. LATERAL BRACING IS NOT REQUIRED WHERE GYP BOARD IS INSTALLED ON BOTH SIDES OF PARTITION WALL.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: TYPICAL PARTITION WALL SECTIONS
OPD NO.: ST2.02

PLOT DATE: May 09, 2017



A PARTITION WALL CONDITION 'B'

NOTES:
1. THIS DETAIL APPLIES TO PARTITION WALLS SUPPORTING CABINETS OR EQUIPMENT THAT CONFORM TO THE REQUIREMENTS OF CONDITION 'B' PER ST2.00.
2. WHERE CABINETS OR EQUIPMENT OCCUR ON BOTH SIDES OF THE PARTITION WALL, EITHER OF THE FOLLOWING OPTIONS MAY BE USED:
   A. DECREASE SPACING OF WALL STUDS, BOTTOM TRACK ANCHORAGE AND TOP TRACK ANCHORAGE BY 50% FROM THAT SHOWN ON ST2.02, ST6.00, ST7.00 & ST8.00 (I.E. PROVIDE TWICE THE QUANTITY OF WALL STUDS AND TOP AND BOTTOM TRACK ANCHORAGE).
   B. LIMIT THE COMBINED WEIGHT OF CABINETS OR EQUIPMENT ON OPPOSITE SIDES OF WALL AS SHOWN IN OPTION 2.
      FOR EXAMPLE:
      W1= 50 LB/ STUD MAX
      W2 + W3= 50 LB/ STUD MAX
3. SEE ST2.01 FOR MINIMUM PARTITION WALL STUD SIZE.
4. FOR TYPICAL PARTITION WALL SECTIONS SEE ST2.02.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: CABINET OR EQUIPMENT ANCHORAGE TO PARTITION WALL, CONDITION 'B'
OPD NO.: ST2.03

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

NATIVIDAD MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-29256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

OPD - STANDARD PARTITION WALL DETAILS

DATE: APRIL 16, 2024

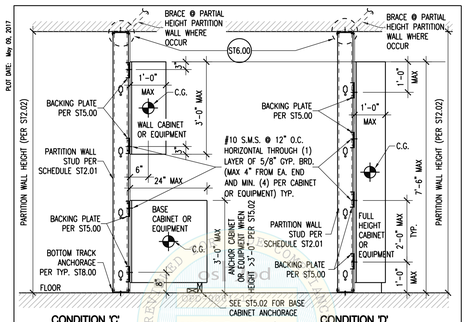
CONSTRUCTION DOCUMENTS

A663.1

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 4/29/2024 9:06:12 AM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/429- Natividad Med Surg 3 Unit - 3707-016-00.rvt

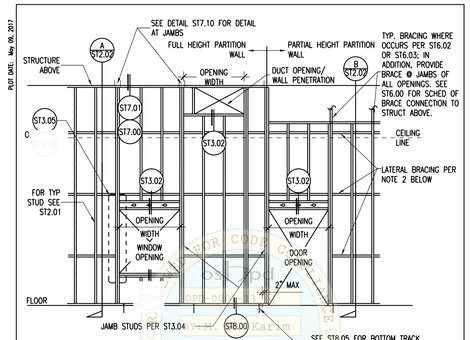


B CONDITION 'C' OVERHEAD AND / OR BASE CABINETS OR EQUIPMENT

C CONDITION 'D' FULL HEIGHT CABINETS OR EQUIPMENT

NOTES:
1. THIS DETAIL APPLIES TO PARTITION WALLS SUPPORTING CABINETS OR EQUIPMENT THAT CONFORM TO THE REQUIREMENTS OF CONDITION 'C' OR 'D' PER ST2.00.
2. THIS DETAIL APPLIES TO PARTITION WALLS SUPPORTING OVERHEAD AND/OR BASE CABINET OR EQUIPMENT ON ONE SIDE OF THE WALL. WHERE CABINETS OR EQUIPMENT OCCUR ON BOTH SIDES OF THE WALL, THE FOLLOWING OPTION MAY BE USED:
   A. DECREASE SPACING OF WALL STUDS, BOTTOM TRACK ANCHORAGE AND TOP TRACK ANCHORAGE BY 50% FROM THAT SHOWN ON ST2.02, ST6.00, ST7.00 & ST8.00. (I.E. PROVIDE TWICE THE QUANTITY OF WALL STUDS AND TOP AND BOTTOM TRACK ANCHORAGE).
3. SEE ST2.01 FOR MINIMUM WALL STUD SIZE.
4. FOR TYPICAL PARTITION SECTIONS SEE ST2.02.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: CABINET OR EQUIPMENT ANCHORAGE TO PARTITION WALL, CONDITIONS 'C' & 'D'
OPD NO.: ST2.04



PARTITION WALL ELEVATION

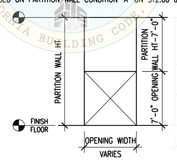
NOTES:
1. ATTACHMENT OF CEILING, EQUIPMENT, ETC. TO THE JAMB, HEADER OR STUD ABOVE THE HEADER IS NOT PERMITTED WITHOUT THE APPROVAL OF THE RDP IN RESPONSIBLE CHARGE & OSHPD.
2. LATERAL BRACING PER ST4.00 & ST4.01 @ 4'-0" O.C. MAX. LATERAL BRACING NOT REQUIRED WHERE GYP. BOARD OCCURS ON BOTH SIDES OF PARTITION WALL.
3. SEE ST2.07 FOR CONDITION AT OVERLAPPING OPENINGS.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: PARTITION WALL ELEVATION - FULL HEIGHT AND PARTIAL HEIGHT PARTITION WALLS
OPD NO.: ST2.06

PARTITION WALL OPENING FRAMING SCHEDULE

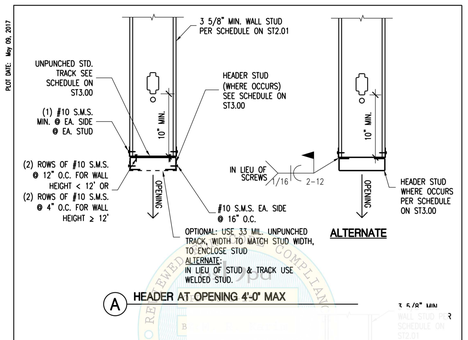
OPENING WIDTH	S_{DS}	PARTITION WALL HT UP TO:	CONN. DETAIL	JAMBS (# OF STUD)-MIL 3 5/8" WALL	JAMBS (# OF STUD)-MIL 4" WALL	JAMBS (# OF STUD)-MIL 6" WALL	HEADER FRAMING	HEADER FIGURE	HEADER MIL	SILL (SEE NOTE 3) FRAMING	SILL (SEE NOTE 3) FIGURE	SILL (SEE NOTE 3) MIL
≤ 4'-0"	1.45-1.95	9'-0"	ST3.05-A OR ST3.05-B	(1)-43 OR (2)-33	(1)-43 OR (2)-33	(1)-33	(1)TRACK & (1) STUD		SAME MIL AS WALL	(1)TRACK		33 MIN.
		12'-0"		(2)-33	(2)-33	(1)-54 OR (2)-33	(1)TRACK & (1) STUD		54			
		16'-0"		(2)-54	(2)-54	(2)-43						
				SEE DETAIL: ST3.04			SEE DETAIL: ST3.02			SEE DETAIL: ST3.03		

NOTES:
1. SEE GENERAL NOTES ON ST0.00, ST0.01, & ST0.02 FOR LIGHT GAUGE STEEL REQUIREMENTS AND DETAIL ST1.00 FOR SECTION PROFILES.
2. STUDS SHALL MATCH WALL SIZES, I.E. 362S FOR 3 5/8" WALL, 400S FOR 4" WALL & 600S FOR 6" WALL.
3. SCHEDULE FOR SILL BASED ON 4'-0" MAX HT. FOR SILLS TALLER THAN 4'-0" USE HEADER FRAMING.
4. JAMB, HEADER & SILL DESIGN BASED ON PARTITION WALL CONDITION 'A' ON ST2.00 & THE FOLLOWING DESIGN ASSUMPTIONS:



DOOR

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: PARTITION WALL OPENING FRAMING SCHEDULE (4'-0" MAX OPENING WIDTH)
OPD NO.: ST3.00



ALTERNATE

A HEADER AT OPENING 4'-0" MAX

NOTE:
1. ATTACHMENT OF CEILING, EQUIPMENT, ETC. TO THE HEADER OR STUDS ABOVE THE HEADER IS NOT PERMITTED WITHOUT THE APPROVAL OF THE RDP IN RESPONSIBLE CHARGE & OSHPD.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: HEADER SECTION
OPD NO.: ST3.02

A DOUBLE JAMB STUD DETAIL **B DOUBLE JAMB STUD DETAIL (ALTERNATE)**

C TRIPLE JAMB STUD DETAIL **D TRIPLE JAMB STUD DETAIL (ALTERNATE)**

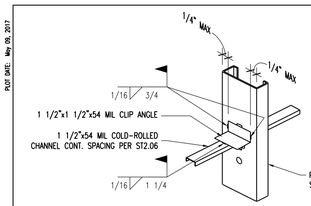
NOTES:
1. WHERE (2) STUDS ARE INDICATED ON PLANS OR ELEVATIONS, USE DOUBLE STUD DETAIL A OR B ABOVE. WHERE (3) STUDS ARE INDICATED ON PLANS OR ELEVATIONS, USE TRIPLE STUD DETAIL C OR D ABOVE.
2. FOR STUD THICKNESSES, SEE SCHEDULE ON ST3.00 & ST3.01.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: JAMB STUD DETAILS
OPD NO.: ST3.04

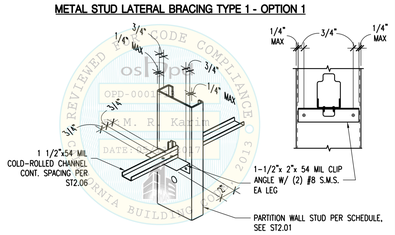
A 4'-0" MAX OPENING WIDTH **B 4'-0" MAX OPENING WIDTH** ALTERNATE CONNECTION

1. NO STUD PUNCHES OR HOLES SHALL OCCUR WITHIN 10" ABOVE OR BELOW THE HEADER OR SILL OR INSIDE THE HEADER OR SILL ZONE.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: HEADER & SILL CONNECTION TO JAMB STUDS (4'-0" MAX OPENING WIDTH)
OPD NO.: ST3.05



METAL STUD LATERAL BRACING TYPE 1 - OPTION 1



METAL STUD LATERAL BRACING TYPE 1 - OPTION 2

NOTES:
1. LATERAL BRACING IS NOT REQUIRED WHERE GYP. BOARD IS INSTALLED ON BOTH SIDES OF PARTITION WALL.
2. NOTCHING OR CUTTING OF COLD-ROLLED CHANNEL IS NOT PERMITTED FOR ANY CONDITION.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: METAL STUD LATERAL BRACING TYPE 1
OPD NO.: ST4.00

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39266
RENEWAL DATE JUNE 30, 2025
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

OPD - STANDARD PARTITION WALL DETAILS

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

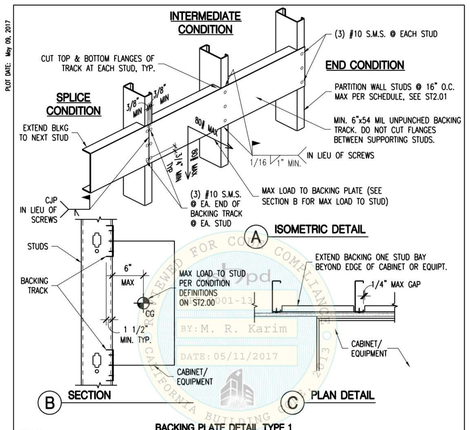
A663.2

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 4/29/2024 9:05:14 AM Autodesk Docs://Natividad Med Surg & Unit - 3707-016-00/A22- Natividad Med Surg & Unit - 3707-016-00.rvt

PLOT DATE: May 09, 2017

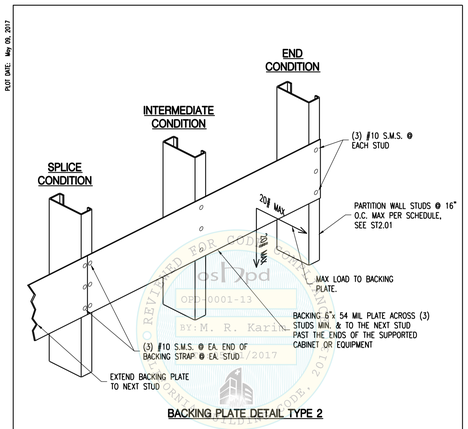


BACKING PLATE DETAIL TYPE 1

NOTES:
1. BACKING, CONNECTION TO STUD, AND STUDS FOR CABINETS OR EQUIPMENT EXCEEDING THIS LIMIT SHALL BE DESIGNED AND DETAILED BY RDP IN RESPONSIBLE CHARGE.
2. ST5.01 MAY BE USED FOR ATTACHMENT OF CABINETS OR EQUIPMENT DISTRIBUTING LESS THAN 20# PER STUD (CENTER OF GRAVITY LESS THAN 6" FROM FACE OF STUD).
3. NOTCHING OR CUTTING OF BACKING PLATE IS NOT PERMITTED EXCEPT AS SHOWN.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: BACKING PLATE DETAIL TYPE 1
OPD NO.: ST5.00

PLOT DATE: May 09, 2017

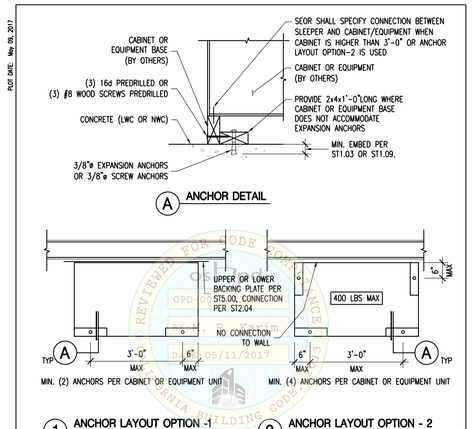


BACKING PLATE DETAIL TYPE 2

NOTES:
1. THIS DETAIL MAY BE USED FOR ATTACHMENT OF CABINETS OR EQUIPMENT DISTRIBUTING LESS THAN 20# PER STUD (CENTER OF GRAVITY LESS THAN 6" FROM FACE OF STUD).
2. SEE ST5.00 FOR ALTERNATE WELDING OPTION.
3. NOTCHING OR CUTTING OF BACKING PLATE IS NOT PERMITTED.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: BACKING PLATE DETAIL TYPE 2
OPD NO.: ST5.01

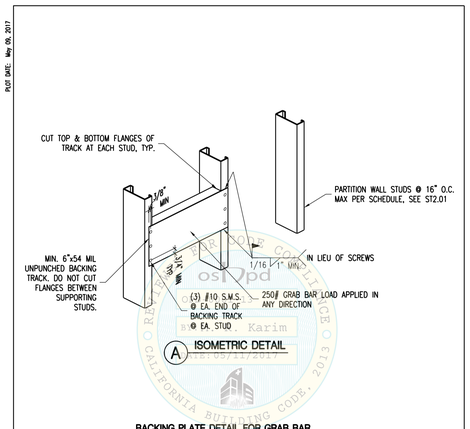
PLOT DATE: May 09, 2017



NOTE:
1. SEE ST1.03 & ST1.04 FOR EXPANSION ANCHOR REQUIREMENTS, AND SEE ST1.09 & ST1.10 FOR SCREW ANCHOR REQUIREMENTS.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: BASE CABINET OR EQUIPMENT ANCHORAGE
OPD NO.: ST5.02

PLOT DATE: May 09, 2017



BACKING PLATE DETAIL FOR GRAB BAR

NOTES:
1. NOTCHING OR CUTTING OF BACKING PLATE IS NOT PERMITTED EXCEPT AS SHOWN.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: BACKING PLATE DETAIL FOR GRAB BAR
OPD NO.: ST5.03

PLOT DATE: May 09, 2017

TOP CONNECTION CONDITIONS - PARTIAL HEIGHT PARTITION WALL

STRUCTURE ABOVE TOP TRACK	PARTIAL HEIGHT PARTITION WALL-BRACE TO STRUCTURE CONNECTION
LIGHT WEIGHT (MIN. 3000 PSI) CONCRETE FILLED METAL DECK	ST6.04
NORMAL WEIGHT (MIN. 3000 PSI) CONCRETE SLAB OR BEAM ABOVE	ST6.05
CONCRETE PAN JOIST OR WAFFLE SLAB SYSTEM	ST6.06
METAL ROOF DECK WITHOUT CONCRETE FILL	ST6.07
STEEL BEAM	ST6.08 & ST6.09
WOOD FRAMING	ST6.10

NOTES:
1. SEE ST6.02 & ST6.03 FOR TYPICAL DETAILS OF CEILING HEIGHT PARTITION WALLS WITH A TOP TRACK CONNECTION BRACED TO THE STRUCTURE ABOVE. SEE ST6.01 FOR BRACE SPACING, SIZE AND CONNECTION SCHEDULE.
2. SEE ST7.00 FOR FULL HEIGHT PARTITION WALLS.
3. FOR TOP & BOTTOM CONNECTION DEMAND SCHEDULE SEE ST6.11.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: TOP CONNECTION CONDITIONS - PARTIAL HEIGHT PARTITION WALL
OPD NO.: ST6.00

PLOT DATE: May 09, 2017

PARTIAL HEIGHT PARTITION WALL BRACE SPACING, SIZE AND CONNECTION SCHEDULES

PARTITION WALL CONDITION 'A'
DETAIL ST6.02

S_{DS}	MAX BRACE SPACING (FT)	BRACE SIZE AND MIL: SINGLE STUD BRACE 3 5/8"	4"	6"	BACK TO BACK BRACE 3 5/8"	4"	6"	S.M.S. CONNECTIONS AT BRACE ENDS: BOTTOM OF BRACE (TO TOP TRACK)	TOP OF BRACE (AT CONNECTION TO STRUCTURE)
1.46-1.95	7	3625162-43	4005162-43	6005162-43	(2)3625162-43	(2)4005162-43	(2)6005162-43	(5) #10 S.M.S.	(4) #10 S.M.S.

PARTITION WALL CONDITION 'B'
DETAIL ST6.02

S_{DS}	MAX BRACE SPACING (FT)	BRACE SIZE AND MIL: SINGLE STUD BRACE 3 5/8"	4"	6"	BACK TO BACK BRACE 3 5/8"	4"	6"	S.M.S. CONNECTIONS AT BRACE ENDS: BOTTOM OF BRACE (TO TOP TRACK)	TOP OF BRACE (AT CONNECTION TO STRUCTURE)
1.46-1.95	5.33	3625162-43	4005162-43	6005162-43	(2)3625162-43	(2)4005162-43	(2)6005162-43	(6) #10 S.M.S.	(4) #10 S.M.S.

PARTITION WALL CONDITION 'C' AND 'D'
DETAIL ST6.03

S_{DS}	MAX BRACE SPACING (FT)	BRACE SIZE AND MIL: BACK TO BACK BRACE 3 5/8"	4"	6"	NUMBER OF S.M.S. AT TOP AND BOTTOM OF BRACE
1.46-1.95	3.33	(2)3625162-43	(2)4005162-43	(2)6005162-43	(8) #10 S.M.S.

NOTES:
1. THESE TABLES ARE BASED ON THE FOLLOWING DESIGN CRITERIA:
   A. DEMAND LOADS PER ST6.11.
   B. 9 FT MAX PARTITION WALL HEIGHT.
   C. MAX BRACE LENGTH PER ST6.02 OR ST6.03.
   D. LIMIT OF KL/r TO 200 WHERE,
      K=1.0, EFFECTIVE LENGTH FACTOR
      L=LENGTH OF BRACE PER ST6.02 AND ST6.03 (INCHES)
      r=MINIMUM RADIUS OF GYRATION OF STUD (INCHES)
2. RDP IN RESPONSIBLE CHARGE SHALL DESIGN FOR OTHER CONDITIONS.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: PARTIAL HEIGHT PARTITION WALL BRACE SPACING, SIZE AND CONNECTION SCHEDULES
OPD NO.: ST6.01

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

NATIVIDAD MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S2400193-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

OPD - STANDARD PARTITION WALL DETAILS

DATE: APRIL 16, 2024

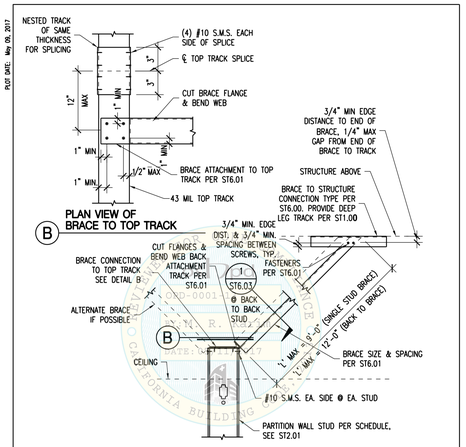
CONSTRUCTION DOCUMENTS

A663.3

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 4/29/2024 9:05:16 AM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016/3429- Natividad Med Surg 3 Unit - 3707-016.rvt

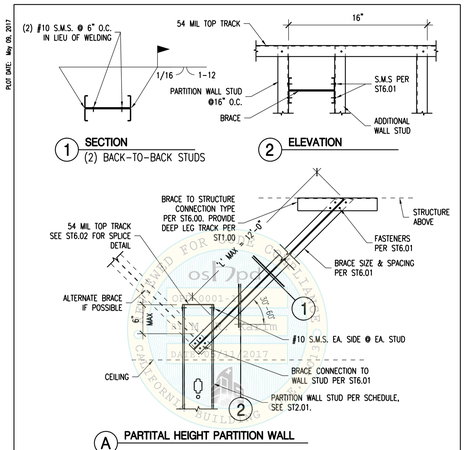


NOTES:
1. SEE TOP & BOTTOM CONNECTION DEMAND SCHEDULE ON ST6.11.
2. SEE ST2.00 FOR DEFINITION OF PARTITION WALL CONDITIONS.
3. DETAIL APPLIES TO PARTITION WALL CONDITIONS 'A' & 'B', ALL S_{DS} CATERGORIES.

SECTION TITLE: STANDARD PARTITION WALL DETAILS

SHEET TITLE: PARTIAL HEIGHT PARTITION WALL TOP BRACING - PARTITION WALL CONDITIONS 'A' & 'B'

OPD NO.: ST6.02

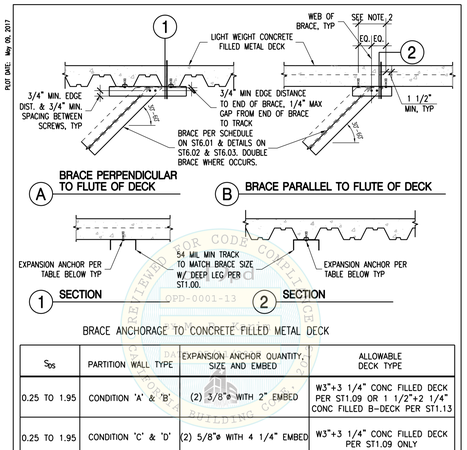


NOTES:
1. SEE TOP & BOTTOM CONNECTION SCHEDULE ON ST6.11.
2. SEE ST2.00 FOR DEFINITION OF PARTITION WALL CONDITIONS.
3. DETAIL APPLIES TO PARTITION WALL CONDITIONS 'C' & 'D', ALL S_{DS} CATEGORIES.

SECTION TITLE: STANDARD PARTITION WALL DETAILS

SHEET TITLE: PARTIAL HEIGHT PARTITION WALL TOP BRACING - PARTITION WALL CONDITIONS 'C' & 'D'

OPD NO.: ST6.03



BRACE ANCHORAGE TO CONCRETE FILLED METAL DECK

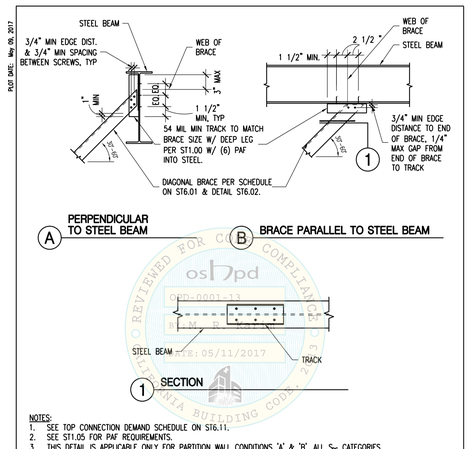
S_{DS}	PARTITION WALL TYPE	EXPANSION ANCHOR QUANTITY, SIZE AND EMBED	ALLOWABLE DECK TYPE
0.25 TO 1.95	CONDITION 'A' & 'B',	(2) 3/8"ø WITH 2" EMBED	W3"+3 1/4" CONC FILLED DECK PER ST1.09 OR 1 1/2"+2 1/4" CONC FILLED B-DECK PER ST1.13
0.25 TO 1.95	CONDITION 'C' & 'D'	(2) 5/8"ø WITH 4 1/4" EMBED	W3"+3 1/4" CONC FILLED DECK PER ST1.09 ONLY

NOTES:
1. SEE TOP & BOTTOM CONNECTION DEMAND SCHEDULE ON ST6.11.
2. SEE ST1.03 & ST1.04 FOR EXPANSION ANCHOR REQUIREMENTS.
3. DETAIL APPLIES TO ALL PARTITION WALL CONDITIONS & ALL S_{DS} CATEGORIES.

SECTION TITLE: STANDARD PARTITION WALL DETAILS

SHEET TITLE: BRACE CONNECTION TO CONCRETE FILLED METAL DECK - ALL PARTITION WALL CONDITIONS

OPD NO.: ST6.04



NOTES:
1. SEE TOP CONNECTION DEMAND SCHEDULE ON ST6.11.
2. SEE ST1.05 FOR PAF REQUIREMENTS.
3. THIS DETAIL IS APPLICABLE ONLY FOR PARTITION WALL CONDITIONS 'A' & 'B', ALL S_{DS} CATEGORIES.
4. STEEL BEAM FLANGE & WEB MINIMUM THICKNESS = 3/16".
5. RDP IN RESPONSIBLE CHARGE, IOR AND CONTRACTOR TO VERIFY THAT NO PDF IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER, SEE ANSI/AISC 341-10.

SECTION TITLE: STANDARD PARTITION WALL DETAILS

SHEET TITLE: BRACE CONNECTION TO STEEL BEAM - PARTITION WALL CONDITIONS 'A' & 'B'

OPD NO.: ST6.08

NOTES:
1. SEE TOP CONNECTION DEMAND SCHEDULE ON ST6.11.
2. THIS DETAIL IS APPLICABLE FOR PARTITION WALL CONDITIONS 'C' & 'D', ALL S_{DS} CATEGORIES. AS AN ALTERNATE TO ST6.08, THIS DETAIL CAN BE USED FOR ALL PARTITION WALL CONDITIONS.
3. STEEL BEAM FLANGE & WEB MINIMUM THICKNESS = 3/16".
4. RDP IN RESPONSIBLE CHARGE, IOR AND CONTRACTOR TO VERIFY THAT NO WELD IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER, SEE ANSI/AISC 341-10.

SECTION TITLE: STANDARD PARTITION WALL DETAILS

SHEET TITLE: BRACE CONNECTION TO STEEL BEAM - PARTITION WALL CONDITIONS 'C' & 'D'

OPD NO.: ST6.09

TOP AND BOTTOM CONNECTION DEMAND SCHEDULES

TOP AND BOTTOM CONNECTION DEMANDS (PARTITION WALL CONDITION 'A')

S_{DS}	SEISMIC REACTION AT THE TOP & BOTTOM CONNECTION FOR DIFFERENT WALL HEIGHT (LBS/FT)		
	9 FT	12 FT	16 FT
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
1.46-1.95	34	45	60

TOP AND BOTTOM CONNECTION DEMANDS (PARTITION WALL CONDITION 'B')

S_{DS}	SEISMIC REACTION AT THE TOP & BOTTOM CONNECTION FOR DIFFERENT WALL HEIGHT (LBS/FT)					
	9 FT		12 FT		16 FT	
	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1.46-1.95	50	56	67	61	86	72

TOP AND BOTTOM CONNECTION DEMANDS (PARTITION WALL CONDITION 'C')

S_{DS}	SEISMIC REACTION AT THE TOP & BOTTOM CONNECTION FOR DIFFERENT WALL HEIGHT (LBS/FT)					
	9 FT		12 FT		16 FT	
	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1.46-1.95	254	156	296	137	334	129

TOP AND BOTTOM CONNECTION DEMANDS (PARTITION WALL CONDITION 'D')

S_{DS}	SEISMIC REACTION AT THE TOP & BOTTOM CONNECTION FOR DIFFERENT WALL HEIGHT (LBS/FT)					
	9 FT		12 FT		16 FT	
	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1.46-1.95	200	152	241	134	278	127

NOTES:
1. CONNECTION DEMANDS ARE PROVIDED TO ALLOW RDP IN RESPONSIBLE CHARGE TO VERIFY NON PRE-APPROVED COMPONENTS OF THE FRAMING SYSTEM AND THE SUPPORTING STRUCTURE.
2. SEE ST2.02 FOR TYPICAL PARTITION WALL SECTIONS.
3. LOADS GIVEN IN PLF MULTIPLY BY APPROPRIATE BRACE SPACING FOR REACTIONS.
4. LOADS GIVEN DO NOT INCLUDE Ω, FOR CONCRETE ATTACHMENTS ASCE 7-10 W/ SUPPLEMENT #1 TABLE 13.5-1.

SECTION TITLE: STANDARD PARTITION WALL DETAILS

SHEET TITLE: TOP & BOTTOM CONNECTION DEMAND SCHEDULES

OPD NO.: ST6.11

STRUCTURE ABOVE TOP TRACK	FULL HEIGHT PARTITION WALL-TOP TRACK TO STRUCTURE CONNECTION
LIGHT WEIGHT (MIN. 3000 PSI) CONCRETE FILLED METAL DECK	ST7.02 & ST7.03
[illegible]	[illegible]
[illegible]	[illegible]
STEEL BEAM	ST7.08
[illegible]	[illegible]

NOTES:
1. SEE ST7.01 THROUGH ST7.10 FOR TYPICAL DETAILS OF FULL HEIGHT PARTITION WALLS WITH A TOP TRACK CONNECTION DIRECTLY TO THE STRUCTURE ABOVE.
2. SEE ST6.00 FOR PARTIAL HEIGHT PARTITION WALLS.
3. FOR TOP & BOTTOM CONNECTION DEMAND SCHEDULE SEE ST6.11.

SECTION TITLE: STANDARD PARTITION WALL DETAILS

SHEET TITLE: TOP CONNECTION CONDITIONS - FULL HEIGHT PARTITION WALL

OPD NO.: ST7.00

NOTES:
1. DO NOT CONNECT OUTER TRACK TO INNER TRACK OR STUDS (DETAIL A ONLY).
2. DO NOT CONNECT WALL FINISH TO OUTER TRACK (DETAILS A & B).
3. GAP "X" - BY RDP IN RESPONSIBLE CHARGE, 1/2" MIN. TO 3/4" MAX.
4. RDP IN RESPONSIBLE CHARGE TO VERIFY "UL" RATING FOR HEAD OF WALL ASSEMBLY. APPROVED FIRE RESISTANT ASSEMBLY REQUIRED.
5. DETAIL B TO BE USED WHERE ONLY VERTICAL SLIP REQUIRED. WHERE HORIZONTAL, IN-PLANE SLIP IS REQUIRED, USE DETAIL A, DO NOT USE DETAIL B. DO NOT USE DETAIL B FOR ST7.08.
6. SEE TOP CONNECTION DEMAND SCHEDULE ON ST6.11.
7. LATERAL BRACING ONLY REQUIRED IF GYP BOARD IS NOT FULL HEIGHT ON BOTH SIDES OF PARTITION WALL SEE ST2.06, ST4.00 & ST4.01.
8. DETAIL APPLIES TO ALL PARTITION WALL CONDITIONS & ALL S_{DS} CATEGORIES.

SECTION TITLE: STANDARD PARTITION WALL DETAILS

SHEET TITLE: TYPICAL TOP TRACK ANCHORAGE - ALL PARTITION WALL CONDITIONS

OPD NO.: ST7.01

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

OPD - STANDARD PARTITION WALL DETAILS

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

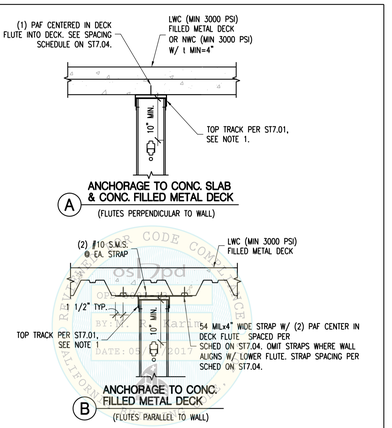
A663.4

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 4/29/2024 9:05:19 AM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/A29 Natividad Med Surg 3 Unit - 3707-016-00.rvt

PLOT DATE: May 09, 2017



NOTES:
1. SEE TOP CONNECTION DEMAND SCHEDULE ON ST6.11.
2. SEE ST1.01 & ST1.02 FOR PAF REQUIREMENTS.
3. SEE ST7.10 FOR CONNECTION AT JAMB LOCATION.
4. SEE ST2.01 FOR PARTITION WALL STUD SCHEDULE.
5. DETAIL APPLIES TO ALL PARTITION WALL CONDITIONS & ALL S_{DS} CATEGORIES.

SECTION TITLE: STANDARD PARTITION WALL DETAILS

SHEET TITLE: TOP TRACK CONNECTION TO LWC FILLED METAL DECK & NWC SLAB - ALL PARTITION WALL CONDITIONS

OPD NO.: ST7.02

PLOT DATE: May 09, 2017

TOP TRACK CONNECTION TO LWC FILLED METAL DECK & NWC SLAB (MIN 3000 PSI) FASTENER SPACING SCHEDULES

PARTITION WALL CONDITION 'A'

S_{DS}/ WALL HEIGHT	PAF SPACING (INCHES O.C.) PER ST7.02 DETAIL A		
	9 FT	12 FT	16 FT
0.25–0.99	30	24	18
1.00–1.25	24	18	12
1.26–1.45	24	18	12
1.46–1.95	18	12	6

FOR DETAIL B THROUGH D (STRAP OR Z-CLIP) DOUBLE THE SPACING INDICATED UP TO 48" OC.

PARTITION WALL CONDITION 'B'

S_{DS}/ WALL HEIGHT	PAF SPACING (INCHES O.C.) PER ST7.02 DETAIL A		
	9 FT	12 FT	16 FT
1.46–1.95	6	6	6

FOR DETAIL B THROUGH D (STRAP OR Z-CLIP) DOUBLE THE SPACING INDICATED UP TO 48" OC.

PARTITION WALL CONDITION 'C'

S_{DS}/ WALL HEIGHT	PAF SPACING (INCHES O.C.) PER ST7.02 DETAIL A		
	9 FT	12 FT	16 FT
1.46–1.95	6	6	6

FOR DETAIL B THROUGH D (STRAP OR Z-CLIP) DOUBLE THE SPACING INDICATED UP TO 48" OC.

PARTITION WALL CONDITION 'D'

S_{DS}/ WALL HEIGHT	PAF SPACING (INCHES O.C.) PER ST7.02 DETAIL A		
	9 FT	12 FT	16 FT
1.46–1.95	6	6	6

FOR DETAIL B THROUGH D (STRAP OR Z-CLIP) DOUBLE THE SPACING INDICATED UP TO 48" OC.

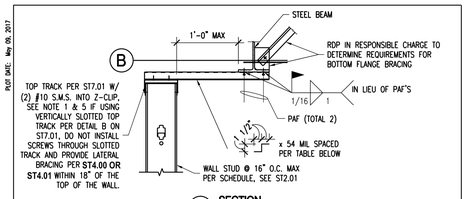
NOTES:
1. SEE ST7.02 & ST7.03 FOR DETAILS A, B, C, & D.
2. VALUES IN TABLES ABOVE REPRESENT MAXIMUM SPACING. DECREASE SPACING AS REQ'D TO COORDINATE W/ METAL DECK FLUTE SPACING. WHERE PAF SPACING IS LESS THAN 12" OC, OK TO PROVIDE MULITPLE PAF AT LOW FLUTE AS REQUIRED. MAINTAIN EDGE DISTANCE AND SPACING REQUIREMENTS PER ST1.01 & ST1.02.
3. SPACING LISTED INCLUDES Ω. PER ASCE 7-10 W/ SUPPLMENT #1 TABLE 13.5-1.

SECTION TITLE: STANDARD PARTITION WALL DETAILS

SHEET TITLE: TOP TRACK CONNECTION TO LWC FILLED METAL DECK & NWC SLAB FASTENER SPACING SCHEDULES

OPD NO.: ST7.04

PLOT DATE: May 09, 2017



NOTES:
1. SEE TOP CONNECTION DEMAND SCHEDULE ON ST6.11.
2. SEE ST1.05 FOR PAF REQUIREMENTS.
3. DETAIL APPLIES TO ALL PARTITION WALL CONDITIONS & ALL S_{DS} CATEGORIES.
4. RDP IN RESPONSIBLE CHARGE, IOR AND CONTRACTOR TO VERIFY THAT NO PDF IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER, SEE ANSI/AISC 341-10.
5. IN-PLANE SLIP REQUIRED.

PARTITION WALL CONDITION 'A' & 'B'

S_{DS}/ WALL HEIGHT	Z-CLIP SPACING (INCHES O.C.)		
	9 FT	12 FT	16 FT
0.25–1.95	48	48	48

PARTITION WALL CONDITION 'C' & 'D'

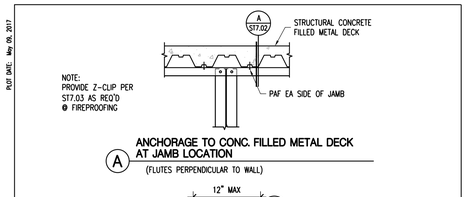
S_{DS}/ WALL HEIGHT	Z-CLIP SPACING (INCHES O.C.)		
	9 FT	12 FT	16 FT
0.25–1.25	48	48	48
1.26–1.95	32	32	32

SECTION TITLE: STANDARD PARTITION WALL DETAILS

SHEET TITLE: TOP TRACK CONNECTION TO STEEL BEAM - ALL PARTITION WALL CONDITIONS

OPD NO.: ST7.08

PLOT DATE: May 09, 2017



STRUCTURAL CONDITION ABOVE TOP TRACK	PROVIDE ADD'L TOP TRACK CONN AT JAMB USING DETAIL LISTED BELOW
CONCRETE PAN JOIST OR WAFFLE SLAB SYSTEM	ST7.05 OR ST7.06
METAL ROOF DECK WITHOUT STRUCTURAL CONCRETE FILL	ST7.07
STEEL BEAM	ST7.08
WOOD FRAMING	ST7.09

NOTE:
1. SEE ST1.01, ST1.02 & ST1.05 FOR PAF REQUIREMENTS.

SECTION TITLE: STANDARD PARTITION WALL DETAILS

SHEET TITLE: TOP TRACK CONNECTION AT JAMB LOCATIONS - PARTITION WALL CONDITION 'A'

OPD NO.: ST7.10

PLOT DATE: May 09, 2017

BOTTOM CONNECTION SCHEDULE

STRUCTURAL CONDITION BELOW BOTTOM TRACK	BOTTOM TRACK CONNECTION
	PARTITION WALL CONDITIONS 'A', 'B', 'C', & 'D'
LWC FILLED METAL DECK OR NWC SLAB	ST8.01

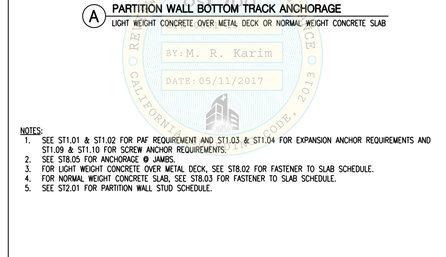
NOTES:
1. FOR PARTITION WALL CONDITION DESCRIPTION SEE ST2.00
2. FOR BOTTOM CONNECTION DEMAND SCHEDULE SEE ST6.11.

SECTION TITLE: STANDARD PARTITION WALL DETAILS

SHEET TITLE: BOTTOM CONNECTION SCHEDULE

OPD NO.: ST8.00

PLOT DATE: May 09, 2017



NOTES:
1. SEE ST1.01 & ST1.02 FOR PAF REQUIREMENT AND ST1.03 & ST1.04 FOR EXPANSION ANCHOR REQUIREMENTS AND ST1.09 & ST1.10 FOR SCREW ANCHOR REQUIREMENTS.
2. SEE ST8.05 FOR ANCHORAGE @ JAMBS.
3. FOR LIGHT WEIGHT CONCRETE OVER METAL DECK, SEE ST8.02 FOR FASTENER TO SLAB SCHEDULE.
4. FOR NORMAL WEIGHT CONCRETE SLAB, SEE ST8.03 FOR FASTENER TO SLAB SCHEDULE.
5. SEE ST2.01 FOR PARTITION WALL STUD SCHEDULE.

SECTION TITLE: STANDARD PARTITION WALL DETAILS

SHEET TITLE: BOTTOM TRACK CONNECTION TO LWC ON METAL DECK OR NWC SLAB - ALL PARTITION WALL CONDITIONS

OPD NO.: ST8.01

PLOT DATE: May 09, 2017

BOTTOM TRACK CONNECTION TO LWC ON METAL DECK FASTENER MAX SPACING SCHEDULE

BOTTOM CONNECTION DEMANDS (PARTITION WALL CONDITION 'A')

MAX PARTITION WALL HEIGHT	S_{DS}	MAXIMUM FASTENER SPACING IN INCHES AT BOTTOM CONNECTION				
		PAF	3/8"ø EXP ANCHOR W/ 2" EMBED	1/2"ø EXP ANCHOR W/ 2 1/4" EMBED	3/8"ø SCREW ANCHOR W/ 2 1/2" EMBED	1/2"ø SCREW ANCHOR W/ 2 1/2" EMBED
9 FT	1.46–1.95	16	32	32	32	32
12 FT	1.46–1.95	8	32	32	32	32
16 FT	1.46–1.95	8	32	32	32	32

BOTTOM CONNECTION DEMANDS (PARTITION WALL CONDITION 'B')

MAX PARTITION WALL HEIGHT	S_{DS}	MAXIMUM FASTENER SPACING IN INCHES AT BOTTOM CONNECTION				
		PAF	3/8"ø EXP ANCHOR W/ 2" EMBED	1/2"ø EXP ANCHOR W/ 2 1/4" EMBED	3/8"ø SCREW ANCHOR W/ 2 1/2" EMBED	1/2"ø SCREW ANCHOR W/ 2 1/2" EMBED
9 FT	1.46–1.95	8	32	32	32	32
12 FT	1.46–1.95	8	32	32	32	32
16 FT	1.46–1.95	–	32	32	32	32

BOTTOM CONNECTION DEMANDS (PARTITION WALL CONDITIONS 'C' & 'D')

MAX PARTITION WALL HEIGHT	S_{DS}	MAXIMUM FASTENER SPACING IN INCHES AT BOTTOM CONNECTION				
		PAF	3/8"ø EXP ANCHOR W/ 2" EMBED	1/2"ø EXP ANCHOR W/ 2 1/4" EMBED	3/8"ø SCREW ANCHOR W/ 2 1/2" EMBED	1/2"ø SCREW ANCHOR W/ 2 1/2" EMBED
9 FT	1.46–1.95	–	24	32	16	16
12 FT	1.46–1.95	–	16	24	16	16
16 FT	1.46–1.95	–	16	24	8	16

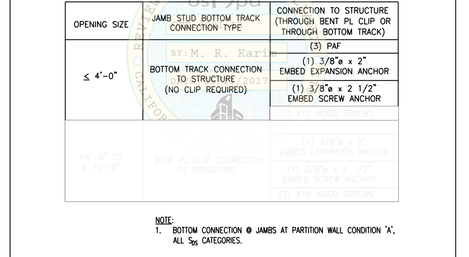
NOTES:
1. SEE ST1.01 & ST1.02 FOR PAF REQUIREMENTS.
2. SEE ST1.03 & ST1.04 FOR EXPANSION ANCHOR REQUIREMENTS.
3. SEE ST1.09 & ST1.10 FOR SCREW ANCHOR REQUIREMENTS.

SECTION TITLE: STANDARD PARTITION WALL DETAILS

SHEET TITLE: BOTTOM TRACK CONNECTION TO LWC ON METAL DECK FASTENER MAX SPACING SCHEDULE

OPD NO.: ST8.02

PLOT DATE: May 09, 2017



OPENING SIZE	JAMB STUD BOTTOM TRACK CONNECTION TYPE	CONNECTION TO STRUCTURE (THROUGH BENT PL CLIP OR THROUGH BOTTOM TRACK)
≤ 4'-0"	BOTTOM TRACK CONNECTION TO STRUCTURE (NO CLIP REQUIRED)	(3) PAF
		(1) 3/8"ø x 2" EMBED EXPANSION ANCHOR
		(1) 3/8"ø x 2 1/2" EMBED SCREW ANCHOR
>4'-0" TO ≤ 10'-0"	BENT PL CLIP CONNECTION TO STRUCTURE	(1) 3/8"ø x 2" EMBED EXPANSION ANCHOR
		(1) 3/8"ø x 2 1/2" EMBED SCREW ANCHOR
		(3) #10 WOOD SCREWS

NOTE:
1. BOTTOM CONNECTION @ JAMBS AT PARTITION WALL CONDITION 'A', ALL S_{DS} CATEGORIES.

SECTION TITLE: STANDARD PARTITION WALL DETAILS

SHEET TITLE: BOTTOM TRACK CONNECTION @ JAMBS - PARTITION WALL CONDITION 'A'

OPD NO.: ST8.05

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

NATIVIDAD MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-29256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

OPD - STANDARD PARTITION WALL DETAILS

DATE: APRIL 16, 2024

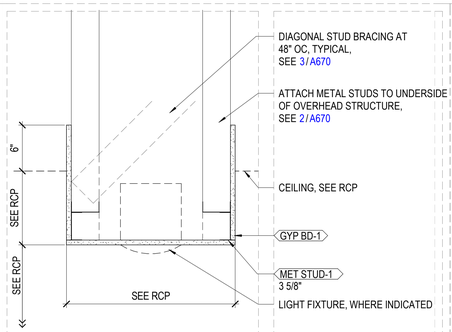
CONSTRUCTION DOCUMENTS

A663.5

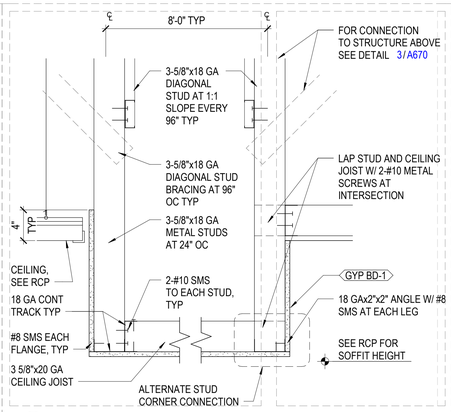
CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

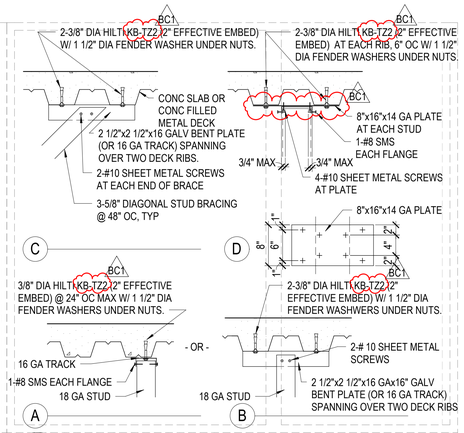
Author 4/29/2024 6:06:22 AM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/429 Natividad Med Surg 3 Unit - 3707-016-00_R25.rvt



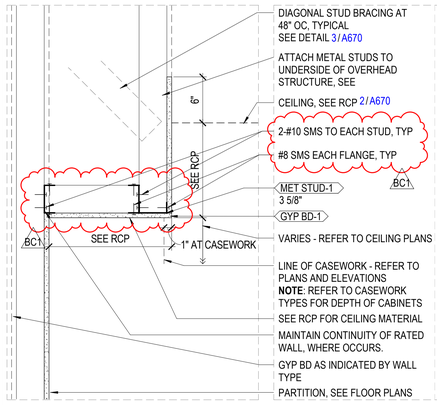
1 SECTION AT FRAMED SOFFIT
1 1/2" = 1'-0"



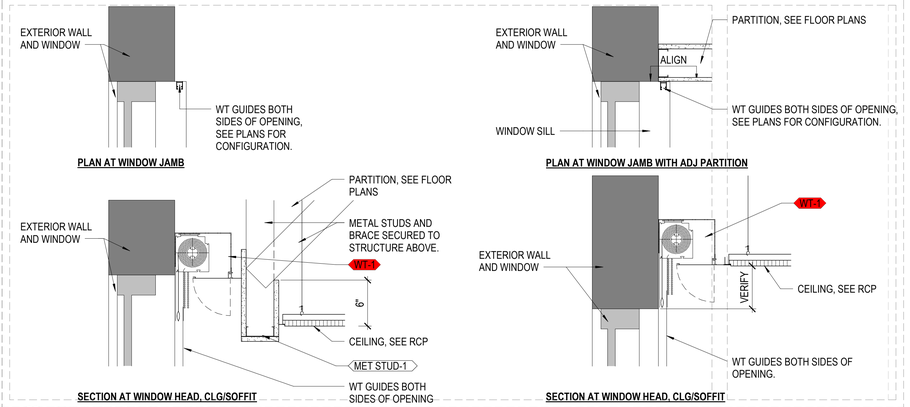
2 FRAMING REQUIREMENTS AT SOFFIT
1 1/2" = 1'-0"



3 STUD BRACING DETAILS
1" = 1'-0"



4 SECTION AT SOFFIT
1 1/2" = 1'-0"



5 CEILING WINDOW TREATMENT
1 1/2" = 1'-0"

CEILING FRAMING NOTES

COLD-FORMED STEEL CEILING FRAMING

ALL STRUCTURAL COLD-FORMED STEEL FRAMING MEMBERS, STUDS, TRACKS, BRIDGING, JOISTS AND BRACING OF THE TYPE SHOWN ON THE PLANS AND SPECIFICATIONS SHALL BE BASED ON THE STEEL STUD MANUFACTURES ASSOCIATIONS PRODUCT TECHNICAL INFORMATION PUBLICATION AND ICC REPORT 3064P.

ALL 18 GAUGE AND LIGHTER COMPONENTS SHALL BE MADE FROM STEEL HAVING A MINIMUM 33,000 PSI YIELD POINT CONFORMING TO ASTM A-446 GRADE A OR ASTM A-653 GRADE 33. ALL 16 THROUGH 12 GAUGES SHALL BE MADE FROM STEEL HAVING A MINIMUM 50,000 PSI YIELD POINT CONFORMING TO ASTM A-466 GRADE D OR ASTM A-653 GRADE 50 CLASS 1 OR 3.

COLD-FORMED SECTIONS SHALL BE GALVANIZED PER ASTM A-525.

STRUCTURAL COLD-FORMED FRAMING COMPONENTS SHALL BE SQUARELY CUT OR AS REQUIRED TO FIT NEATLY AGAINST BUTTING MEMBERS.

TRACKS SHALL BE OF THE SAME GAUGE AS THE STUDS, UNLESS NOTED OTHERWISE.

EACH STUD OR CEILING MEMBER, AS NOTED IN ICC REPORT ER-3064P, SHALL BE IDENTIFIED BY THE MFR. NAME, YIELD STRENGTH IF OVER 33 KSI, MINIMUM BASE METAL THICKNESS, AND THE REPORT UMBER EMBOSSED OR STAMPED ON THE WEB OF EACH SECTION AT A MAXIMUM OF 48 INCHES ON CENTER.

ALL SCREWS SHALL BE OF THE DIAMETER AS SHOWN ON THE DRAWINGS. PROVIDE A MINIMUM EDGE DISTANCE OF 1/2" AND A MINIMUM 3/4" SPACING OF SCREWS. SCREWS SHALL PENETRATE THROUGH JOINED MATERIALS A MINIMUM OF 3 EXPOSED THREADS. SCREWS SHALL HAVE AN ADEQUATE CUTTING TIP TO DRILL THROUGH TOTAL THICKNESS OF JOINED MATERIAL BEFORE THREADS ENGAGE MATERIAL. PRE-DRILL HOLES IN INSTANCES WHERE JOINED MATERIAL IS TOO THICK FOR SCREW TIP TO COMPLETE DRILLING BEFORE THREADS ENGAGE.

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

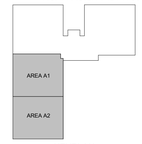
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

CEILING DETAILS

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

A670

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 12/15/2024 7:50:35 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/A29- Natividad Med Surg 3 Unit - 3707-016-00.rvt

5/9/2017 9:06:03 AM

GENERAL NOTES

1. CONSTRUCTION, WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE 2013 CALIFORNIA BUILDING STANDARDS CODE (CBSC 2013).
2. THE CONTRACTOR SHALL NOTIFY OSHPD AND THE REGISTERED DESIGN PROFESSIONAL (RDP) IN RESPONSIBLE CHARGE WHERE A CONFLICT OR DISCREPANCY OCCURS BETWEEN THE CONSTRUCTION DRAWINGS AND ANY OTHER PORTION OF THE CONSTRUCTION DOCUMENTS. FIELD CONDITIONS, OR WHERE ANY CONDITIONS ARISE NOT COVERED BY THESE DOCUMENTS WHEREIN WORK WILL NOT COMPLY WITH CODE REQUIREMENTS.
3. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE CALIFORNIA BUILDING STANDARD CODE, 2013 (CBSC 2013). SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS WHEREIN THE WORK WILL NOT COMPLY WITH CBSC 2013, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK.
4. GALVANIZED METAL STUDS, TRACKS AND SHEET STEEL SHALL CONFORM TO ASTM A653-11 MATERIAL, OR OTHER EQUIVALENT ASTM LISTED MATERIALS IN SECTION A2.1 OF THE AISI S100-07/S2-10; NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS WITH SUPPLEMENT 2, DATED 2010, WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MIL (18 GAGE) AND LIGHTER AND MINIMUM YIELD STRENGTH OF 50 KSI FOR HEAVIER GAGES.

   METAL STUDS AND TRACKS SHALL BE OF SIZE, THICKNESS AND SECTION PROPERTIES SHOWN ON TABLES 1-1, 1-2 AND 1-3 OF THE AISI MANUAL, COLD-FORMED STEEL DESIGN, 2008 EDITION. THE RDP IN RESPONSIBLE CHARGE SHALL OBTAIN OSHPD APPROVAL FOR ANY SUBSTITUTIONS.
5. ELECTRICAL METALLIC TUBE (EMT) SHALL BE ANSI C80.3/UL 797 CARBON STEEL WITH G90 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRENGTH OF (F_y =) 30 KSI AND MINIMUM ULTIMATE STRENGTH OF (F_u =) 48 KSI.
6. THESE OPD REFER TO FASTENER TYPE AND SIZE BUT DO NOT SPECIFY OR ENDORSE A SPECIFIC MANUFACTURER. THE RDP IN RESPONSIBLE CHARGE SHALL SELECT A MANUFACTURER AND SELECTED FASTENER CAPACITIES SHALL MATCH OR EXCEED THE STRENGTHS LISTED HEREIN. THE FOLLOWING REQUIREMENTS SHALL ALSO BE MET:
   a. SHEET METAL SCREWS SHALL COMPLY WITH ASTM C 1513-10, ASME B18.6.4-98 (R2005) AND ICC-ES AC 118 AND ALLOWABLE STRENGTH SHALL BE BASED ON INFORMATION PROVIDED IN CL1.31 AND CL1.32. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.
   b. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES. FIELD WELDING SHALL HAVE SPECIAL INSPECTION IN ACCORDANCE WITH 2013 CBC SECTION 1705A.2.
   c. POST- INSTALLED ANCHORS (E.G. EXPANSION ANCHORS, SCREW ANCHORS AND POWER ACTUATED FASTENERS) SHALL HAVE SPECIAL INSPECTION AND TESTING IN ACCORDANCE WITH THE 2013 CBC SECTIONS 1705A.3 & 1913A.7. FOR QUALIFICATION, DESIGN AND USE OF POST-INSTALLED ANCHORS IN CONCRETE SEE THE 2013 CBC SECTIONS 1616A.1.19 AND 1908A.1.1. LISTING OF CURRENT ICC-ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD) SHALL BE REQUIRED FOR FASTENER USED.
   d. POWER-ACTUATED FASTENERS (PAF), POWDER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDP) AND SHOT PINS ALL REPRESENT THE SAME FASTENER AND WILL HEREAFTER BE REFERRED TO AS POWER ACTUATED FASTENERS (PAF). PAF'S SHALL SATISFY THE CURRENT ACT0-ACCEPTANCE CRITERIA FOR FASTENERS POWER-DRIVEN INTO CONCRETE, STEEL AND MASONRY ELEMENTS AND THE 2013 CBC SECTION 1908A.1.1. LISTING OF CURRENT ICC ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD) SHALL BE REQUIRED FOR FASTENERS USED.
   e. FOR PAF INSTALLED IN STEEL THE FASTENER PENETRATION SHALL HAVE THE ENTIRE POINTED END OF THE FASTENER DRIVEN THROUGH THE STEEL MEMBER, EXCEPT AS NOTED IN CURRENT REPORTS FROM TESTING AGENCIES ACCEPTABLE TO OSHPD.

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS	OPD No:
Sheet Title : GENERAL NOTES - PAGE 1 OF 4	CL0.00

5/9/2017 9:06:03 AM

7. DESIGN CRITERIA
   a. BUILDING CODE: 2013 CALIFORNIA BUILDING CODE (2013 CBC), ASCE 7-10, AISI S100-07/S2-10, ASTM E580-14, C635-13a, AND C636-13. FOR LOAD COMBINATIONS, ALLOWABLE STRESS DESIGN SHALL BE IN ACCORDANCE WITH 2013 CBC SECTION 1605A.3.1.
   b. FASTENER CAPACITIES TABLES WERE DEVELOPED BASED ON ICC REPORTS BY SEVERAL MANUFACTURERS.
   c. THE DESIGN ASSUMES THAT BUILDING ELEMENTS AND SUPPORTS, TO WHICH THE COMPONENTS ADDRESSED IN THIS DOCUMENT ARE ANCHORED, HAVE SUFFICIENT CAPACITY TO CARRY THE LOADS IMPOSED BY THE COMPONENTS IN COMBINATION WITH ALL OTHER LOADS. EVALUATION OF THE CAPACITY OF THESE SUPPORTING BUILDING ELEMENTS IS BEYOND THE SCOPE OF THE OPD.
   d. THIS OPD IS LIMITED TO CEILING ASSEMBLIES HAVING MAXIMUM DEAD WEIGHT OF 4 PSF, INCLUDING LIGHTING FIXTURES (LUMINERIES) AND MECHANICAL SERVICES, EACH WEIGHING LESS THAN 56 LBS AND ATTACHED TO CEILING FRAMING SYSTEM. HEAVIER SYSTEM AND THOSE SUPPORTING LATERAL FORCES FROM PARTITION WALLS ARE OUTSIDE THE SCOPE OF THIS OPD AND WILL REQUIRE PROJECT SPECIFIC DESIGN.
8. THE RDP IN RESPONSIBLE CHARGE SHALL VERIFY THE FIRE RESISTENCE AND ACOUSTICAL RATINGS FOR ALL CEILING ASSEMBLIES.
9. "CEILING WIRE" SHALL CONFORM WITH GALVANIZED SOFT ANNEALED MILD STEEL WIRE AS DEFINED IN ASTM A641 (CLASS 1 COATING) WITH 70 KSI MINIMUM TENSILE STRENGTH:
   a. FOUR (4) TWISTS OF WIRE WITHIN 1.5" DEVELOPS THE ALLOWABLE LOAD FOR THE WIRE.
   b. THREE (3) TWISTS WITHIN 3" MAY BE USED TO DEVELOP THE MAXIMUM 50% OF ALLOWABLE LOAD.
10. SUSPENSION SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635 AND E580 SECTION 5.1:
    a. THE CEILING GRID SYSTEM SHALL BE RATED HEAVY DUTY AS DEFINED BY ASTM C635.
    b. HANGER AND BRACING WIRES SHALL BE #12 GAGE (0.106" DIAMETER), SOFT ANNEALED, AND GALVANIZED STEEL WIRES WITH CLASS 1 COATING. THEY MAY BE USED FOR UP TO AND INCLUDING 4'-0"x 4'-0" GRID SPACING ALONG AND ATTACHED TO MAIN RUNNERS. SPLICES ARE NOT PERMITTED IN ANY HANGER WIRE.
    c. MAIN RUNNERS AND CROSS RUNNERS ALONG WITH THEIR SPLICES, INTERSECTION CONNECTORS, AND EXPANSION DEVICES SHALL BE DESIGNED AND CONSTRUCTED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOT LESS THAN 180 LBS. IN COMPRESSION & TENSION. IN ACCORDANCE WITH ASTM 580 SECTION 5.1.2.
11. SUSPENSION SYSTEM INSTALLATION, SHALL COMPLY WITH ASTM C636 AND E580 SECTION 5.2:
    a. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
    b. CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS, IN ACCORDANCE WITH ASTM E580 SECTION 5.2.3. CEILING GRID MEMBERS SHALL BE AT LEAST 3/4" INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONAL TO THE CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE, AND A MINIMUM OF 3/4 INCH CLEAR OF WALL.
    c. THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN TWO (2) INCHES. USE OF ANGLES WITH SMALLER WIDTHS IN CONJUNCTION WITH PERIMETER CLIPS SHALL REQUIRE AN ALTERNATE METHOD OF COMPLIANCE WITH ADEQUATE JUSTIFICATION AND ARE OUTSIDE THE SCOPE OF THIS OPD.
    d. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A #16 GAGE WIRE WITH A POSITIVE MECHANICAL CONNECTION TO RUNNER MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS EIGHT (8) INCHES OR LESS, THIS INTERCONNECTION IS NOT REQUIRED.

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS	OPD No:
Sheet Title : GENERAL NOTES - PAGE 2 OF 4	CL0.01

5/9/2017 9:06:03 AM

12. EXPANSION JOINTS, SEISMIC SEPARATIONS, AND PENETRATIONS:
    a. EXPANSION JOINTS SHALL BE PROVIDED IN THE CEILING AT INTERSECTIONS OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS WITH LOBBIES OR OTHER SIMILAR AREAS.
    b. FOR CEILING AREAS EXCEEDING 2500 SQUARE FEET, A SEISMIC SEPARATION JOINT SHALL BE PROVIDED TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2500 SQ. FT.
    c. PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN ALL HORIZONTAL DIRECTIONS. A FLEXIBLE SPRINKLER HOSE FITTING THAT CAN ACCOMMODATE ONE (1) INCH OF CEILING MOVEMENT SHALL BE PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE OR ADAPTER. SUCH FLEXIBLE SPRINKLER HOSE SHALL BE ADEQUATELY SUPPORTED FROM SOFFIT SO AS NOT TO EXCEED THE MAXIMUM TRIBUTARY WEIGHT OF THE CEILING.
13. LATERAL FORCE BRACING:
    LATERAL FORCE BRACING IS REQUIRED IN ACCORDANCE WITH THIS SECTION FOR ALL CEILING AREAS, UON.

    EXCEPTION: LATERAL FORCE BRACING MAY BE OMITTED FOR SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 144 SQ. FT. OR LESS, WHEN PERIMETER SUPPORT IN ACCORDANCE WITH ASTM E580 ARE PROVIDED AND PERIMETER WALLS ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES.
    a. PROVIDE LATERAL-FORCE BRACING ASSEMBLIES CONSISTING OF A STRUT AND FOUR (4) #12 GAGE BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER.
    b. LATERAL-FORCE BRACING ASSEMBLIES SHALL BE SPACED IN ACCORDANCE WITH CL2.20 THROUGH CL2.22 AND CL2.30 FROM EACH WALL AND AT THE EDGES OF ANY CHANGE OF ELEVATION OF THE CEILING.
    c. THE SLOPE OF BRACING WIRES MAY BE FROM 10 TO 45 DEGREES BUT MAY NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND WIRES SHALL BE TAUT.
    d. STRUTS SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES, AND SHALL NOT BE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB.
14. ATTACHMENT OF HANGER AND BRACING WIRES:
    a. FASTEN #12 HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN 3 INCHES. HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS.
    b. FASTEN #12 BRACING WIRES WITH FOUR (4) TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1 1/2" INCHES.
    c. HANGER OR BRACING WIRE ANCHORED TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE.
    d. SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES CONDUITS, ETC.
    e. HANGER WIRES SHALL NOT BE ATTACHED TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. PROVIDE TRAPEZE OR OTHER SUPPLEMETARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS AREAS.
    f. HANGER WIRES THAT ARE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB SHALL REQUIRE PROJECT SPECIFIC DESIGN.
    g. TESTING REQUIREMENTS:
    HANGER WIRE ANCHORS: WHEN POST-INSTALLED ANCHORS OR PAF ARE USED AS HANGER WIRE ANCHORS IN REINFORCED CONCRETE. 10% OF ANCHORS SHALL BE TENSION TESTED FOR 200 LBS.
    BRACING WIRE ANCHORS: PAF USED AS BRACING WIRE ANCHORS TO CONCRETE ARE NOT PERMITTED. WHEN POST-INSTALLED ANCHORS ARE USED AS BRACING WIRE ANCHORS IN REINFORCED CONCRETE, 50% OF ANCHORS SHALL BE TENSION TESTED FOR 440 LBS. ALTERNATELY, WIRE/ANCHOR ASSEMBLIES MAY BE TENSION TESTED IN THE DIRECTION OF THE WIRE FOR 440 LBS.
    EXCEPTION: TORQUE CONTROLLED POST-INSTALLED ANCHORS MAY BE TORQUE TESTED TO MANUFACTURER'S SPECIFICATIONS OR AS SHOWN ON THE APPROVED CONSTRUCTION DOCUMENTS.

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS	OPD No:
Sheet Title : GENERAL NOTES - PAGE 3 OF 4	CL0.02 Rev: 03/30/2022

5/9/2017 9:06:03 AM

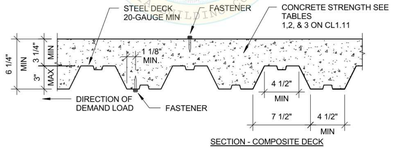
15. **CEILING FIXTURES, TERMINALS, AND DEVICES:**
    a. CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS/GRILLS, OR OTHER DEVICES (REFERRED TO ALL BY COMMON TERM FIXTURES HERE AFTER).
    b. ALL FIXTURES SHALL BE MOUNTED IN A MANNER THAT WILL NOT COMPROMISE CEILING PERFORMANCE.
    c. ALL FIXTURES SHALL BE ATTACHED TO THE SUSPENDED CEILING SYSTEM BY MECHANICAL MEANS, UNLESS INDEPENDENTLY SUPPORTED. THE ATTACHMENT DEVICE SHALL HAVE THE CAPACITY OF 100% OF FIXURE WEIGHT ACTING IN ANY DIRECTION. A MINIMUM OF TWO ATTACHMENT DEVICES ARE REQUIRED FOR EACH FIXTURE.
    d. SURFACE MOUNTED FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH POSITIVE CLAMPING DEVICES MADE OF MATERIAL WITH A MINIMUM 14 GAGE. A NO.12 GAUGE SAFETY WIRES SHALL BE ATTACHED BETWEEN THE CLAMPING DRVICE AND TO THE STRUCTURE ABOVE. IN NO CASE SHALL THE FIXTURES EXCEED THE DESIGN CAPACITY OF THE SUPPORTING MEMBERS.
    e. ALL LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE ONE NO. 12 GAUGE SAFETY WIRE CONNECTED FROM FIXURE HOUSING TO STRUCTURE ABOVE. IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO BE TAUT.
    f. ALL FIXTURES WEIGHING GREATER THAN 10 LB BUT LESS THAN OR EQUAL TO 56 LB. SHALL HAVE TWO NO. 12 GAUGE SAFETY WIRE CONNECTED FROM FIXURE HOUSING TO STRUCTURE ABOVE. IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO BE TAUT.
    g. ALL FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE SUPPORTED DIRECTLY FROM STRUCTURE ABOVE BY APPROVED HANGERS.
    h. PENDENT-HUNG FIXTURES SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE USING NO LESS THAN NO. 9-GAUGE WIRE OR AN APPROVED ALTERNATE SUPPORT. THE CEILING SUSPENSION SYSTEM SHALL NOT PROVIDE ANY DIRECT SUPPORT.
    i. ALL RECESSED OR DROP-IN FIXTURES SHALL BE SUPPORTED DIRECTLY FROM FIXTURE HOUSING TO THE STRUCTURE ABOVE WITH A MINIMUM OF TWO NO. 12 GAUGE WIRES LOCATED AT DIAGONALLY OPPOSITE CORNERS. LEVELLING OR POSITIONING OF FIXTURES MAY BE PROVIDED BY SLACK CORD. FIXTURE SUPPORT WIRES MAY BE SLIGHTLY LOOSE TO ALLOW THE FIXTURE TO SEAT IN THE GRID SYSTEM. FIXTURES SHALL NOT BE SUPPORTED FROM MAIN RUNNERS OR CROSS RUNNERS IF THE WEIGHT OF THE FIXTURES CAUSES TOTAL DEAD LOAD TO EXCEED THE DEFLECTION CAPABILITY OF THE CEILING SUSPENSION SYSTEM.
16. **ADDITIONAL REQUIREMENTS:**
    a. CEILINGS THAT ARE PART OF A FIRE RATED ASSEMBLY: PROVIDE A FIRE RATED DESIGN NUMBER FOR RATED CEILING ASSEMBLIES FROM AN APPROVED TESTING AGENCY. THE COMPONENTS AND INSTALLATION DETAILS CONFORM IN EVERY RESPECT WITH THE LISTED DETAIL AND NUMBER. DETAILS SHALL CLEARLY DEPICT ALL COMPONENTS, INCLUDING INSULATION MATERIALS, FRAMING AND ATTACHMENT OF THE DESIGN SO THAT THE ASSEMBLY CAN BE CONSTRUCTED AND INSPECTED ACCORDINGLY. POP RIVETS, SCREWS, OR OTHER ATTACHMENTS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS AND APPROVED BY APPROVED TESTING AGENCY.
    b. METAL AND OTHER PANELS: METAL PANELS AND PANELS WEIGHING MORE THAN 1/2 PSF, OTHER THAN MINERAL FIBER ACOUSTICAL TILE, ARE TO BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION RUNNERS.
    c. BUILDING EXIT WAYS: CEILINGS IN EXIT WAYS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 13.5.6.2.2(1) OF ASCE 7-10 AS AMENDED BY 2013 CBC SECTION 1616A.1.20. SPLICES OR INTERSECTION OF RUNNERS SHALL BE ATTACHED WITH THROUGH CONNECTORS SUCH AS POP RIVETS, SCREWS, PINS, PLATES WITH END TABS OR OTHER APPROVED CONNECTORS.

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS	OPD No:
Sheet Title : GENERAL NOTES - PAGE 4 OF 4	CL0.03

5/9/2017 9:06:03 AM

POWER ACTUATED FASTENER (PAF) GENERAL NOTES (INSTALLED IN CONCRETE OVER METAL DECK OR CONC SLAB)

1. POWER ACTUATED FASTENER (PAF), POWDER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDP), SHOT PINS ALL REPRESENT THE SAME FASTENER AND WILL HEREAFTER BE REFERRED TO AS POWER ACTUATED FASTENERS (PAF).
2. ALLOWABLE STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAND IN ACCORDANCE WITH THE 2013 CBC SECTION 1605A.3.1.
3. ALLOWABLE STRENGTHS ARE FOR A SINGLE FASTENER WHICH MEET REQUIREMENTS IN SECTIONS BELOW AND TABLES ON CL1.11. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE ALLOWABLE STRENGTHS LISTED IN THE ICC ESRS 1799, 2024, 2138 & 2269.
4. MINIMUM CONCRETE STRENGTH FOR f'_c=2000 PSI FOR NORMAL WEIGHT CONCRETE AND f'_c =3000 PSI FOR ALL LIGHT WEIGHT CONCRETE UNLESS OTHERWISE NOTED.
5. POWER ACTUATED FASTENER INSTALLED THROUGH LOW FLUTES OF THE METAL DECK SHALL MEET THE REQUIREMENTS OF THE INSTALLATION CRITERIA AND SECTIONS BELOW.
6. MINIMUM EDGE DISTANCE OF 1 1/8" FROM THE EDGE OF METAL DECK WEB AND 4" FROM THE EDGE OF THE DECK.
7. STEEL DECK TO BE A MINIMUM OF 20GA.
8. CONCRETE FILL DEPTH ABOVE THE TOP OF METAL DECK SHALL BE A MINIMUM OF 3 1/4" LIGHT WEIGHT CONCRETE.
9. PAF SHALL NOT BE USED TO RESIST SEISMIC SHEAR FORCES EXCEPT AT INTERIOR NON-LOAD BEARING, NON-SHEAR WALL PARTITION WALLS (AS PERMITTED BY 2013 CBC SECTION 1908A.1.1) AND COMPONENTS EXEMPT FROM CONSTRUCTION DOCUMENT REVIEW BY 2013 CBC SECTION 1616A.1.18 (NOT PERMITTED TO TAKE SEISMIC SHEAR BY ICC-ES AC70 FOR ANY OTHER CONDITIONS). PAF SHALL NOT BE USED TO CARRY SEISMIC TENSION LOADS (EXCEPT FOR VERTICAL SEISMIC LOAD PRODUCED BY SELF WEIGHT OF THE COMPONENTS) OR IN CRACKED CONCRETE UNLESS APPROVED FOR SUCH LOADING BY OSHPD.
10. PAF SHALL NOT BE USED IN PRE-STRESSED CONCRETE UNLESS NON-DESTRUCTIVE TESTING METHODS ARE USED TO LOCATE STRAND AND REINFORCEMENT PRIOR TO FASTENER INSTALLATION.
11. PAF INSTALLATION SHALL NOT NICK OR DAMAGE EXISTING CONCRETE REINFORCEMENT. SHOULD THIS OCCUR THE RDP IN RESPONSIBLE CHARGE SHALL BE NOTIFIED IMMEDIATELY. PAF SHALL BE INSTALLED 1" CLEAR OF EXISTING REINFORCEMENT. THIS MAY REQUIRE NON-DESTRUCTIVE TESTING.
12. PAF SHALL BE INSTALLED PER CURRENT ICC-ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD).
13. TESTING OF PAF SHALL BE PER 2013 CBC SECTION 1913A.7. MINIMUM CONCRETE SUBSTRATE THICKNESS IS THREE TIMES THE PAF PENETRATION INTO THE CONCRETE SUBSTRATE.
14. TESTING IS NOT REQUIRED OF PAF USED TO ATTACH TRACKS OF INTERIOR NON-SHEAR WALL PARTITIONS FOR SHEAR ONLY WHERE THERE ARE AT LEAST THREE FASTENERS.
15. TOTAL ALLOWABLE LOADS IN TENSION, SHEAR OR TENSION SHEAR COMBINATIONS SHALL NOT EXCEED 90 LBS AS PERMITTED BY EXCEPTION TO ASCE 7-10 SECTION 13.4.5.
16. REFER TO NOTE 6d ON CL0.00 FOR ADDITIONAL PAF REQUIREMENTS.



SECTION - COMPOSITE DECK

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS	OPD No:
Sheet Title : POWER ACTUATED FASTENER (PAF) IN CONCRETE OVER METAL DECK OR CONCRETE SLAB - PAGE 1 OF 2	CL1.10

5/9/2017 9:06:03 AM

POWER ACTUATED FASTENER (PAF) ALLOWABLE STRENGTHS (INSTALLED IN CONCRETE OVER METAL DECK OR CONC SLAB

TABLE 1
POWER ACTUATED FASTENER INSTALLED IN SAND-LIGHTWEIGHT CONCRETE THROUGH METAL DECK (f'_c MIN=3000 PSI)

NOMINAL SHANK DIAMETER (IN)	MIN EMBED (IN)	MIN SPACING (IN)	MIN EDGE DISTANCE (IN)	TENSION (LB) (SEE NOTE 15)	SHEAR (LB) (SEE NOTE 15)
0.145 MIN	1 1/4	4	4	90	90

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS	OPD No:
Sheet Title : POWER ACTUATED FASTENER (PAF) IN CONCRETE OVER METAL DECK OR CONCRETE SLAB - PAGE 2 OF 2	CL1.11

5/9/2017 9:06:03 AM

POWER ACTUATED FASTENER (PAF) GENERAL NOTES (INSTALLED IN STEEL)

1. MINIMUM STEEL TENSILE STRENGTH F_u=58KSI
2. MINIMUM SPACING 1 INCH.
3. MINIMUM EDGE DISTANCE 1/2 INCH.
4. USE KNURLED SHANK.
5. POWER ACTUATED FASTENERS (PAF) SHALL BE INSTALLED PER CURRENT ICC-ES EVALUATION REPORTS OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD.
6. SEE GENERAL NOTE 6d & 6e ON CL0.00 FOR PAF REQUIREMENTS & ATTACHMENT TO STEEL.
7. POWER ACTUATED FASTENER (PAF), POWEDER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDP), SHOT PINS, ARE COMMON NOMINCLATURES THAT ALL REPRESENT THE SAME FASTENER DESCRIBED HERE IN.
8. ALLOWABLE STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAND IN ACCORDANCE WITH THE 2013 CBC SECTION 1605A.3.1.
9. ALLOWABLE STRENGTHS ARE FOR SINGLE FASTENERS, WHICH MEET THE REQUIREMENTS PER NOTES ABOVE. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE ALLOWABLE STRENGTHS LISTED IN THE ESRS 1799, 2024, 2138 & 2269.
10. TOTAL ALLOWABLE TENSION, SHEAR OR TENSION SHEAR COMBINATION SHALL NOT EXCEED 250 LBS. AS PERMITTED BY THE EXCEPTION TO ASCE 7-10 SECTION 13.4.5.

NOMINAL SHANK DIAMETER (IN)	STEEL THICKNESS (IN)							
	3/16		1/4		3/8		1/2	
	TENSION (LB)	SHEAR (LB)	TENSION (LB)	SHEAR (LB)	TENSION (LB)	SHEAR (LB)	TENSION (LB)	SHEAR (LB)
0.145 MIN	155	250	230	250	250	250	190	220

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS	OPD No:
Sheet Title : POWER ACTUATED FASTENER (PAF) IN STEEL	CL1.12

5/9/2017 9:06:04 AM

POWER ACTUATED FASTENER (PAF) GENERAL NOTES (INSTALLED IN CONCRETE FILLED METAL B-DECK)

1. POWER ACTUATED FASTENER (PAF), POWER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDP), SHOT PINS ALL REPRESENT THE SAME FASTENER AND WILL HEREAFTER BE REFERRED TO AS POWER ACTUATED FASTENERS (PAF).
2. ALLOWABLE STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAND IN ACCORDANCE WITH THE 2013 CBC SECTION 1605A.3.1.
3. ALLOWABLE STRENGTHS ARE FOR A SINGLE FASTENER WHICH MEET REQUIREMENTS PER SECTION BELOW AND TABLES ON CL1.14. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE ALLOWABLE STRENGTHS LISTED IN ICC ESRS 2024, 2138, & 2269.
4. MINIMUM CONCRETE STRENGTH f'_c = 3000 PSI FOR NORMAL WEIGHT CONCRETE AND f'_c = 3000 PSI FOR ALL LIGHT WEIGHT CONCRETE UNLESS NOTED OTHERWISE.
5. POWER ACTUATED FASTENER INSTALLED THROUGH LOW FLUTES OF THE METAL DECK SHALL MEET THE REQUIREMENTS OF THE INSTALLATION CRITERIA AND SECTION BELOW.
6. MINIMUM EDGE DISTANCE OF 7/8" FROM THE EDGE OF METAL DECK WEB AND 4" FROM THE EDGE OF THE DECK.
7. STEEL DECK TO BE A MINIMUM OF 20 GA. B-DECK.
8. CONCRETE FILL DEPTH ABOVE THE TOP OF METAL DECK MUST BE A MINIMUM OF 2 1/2" AT NORMAL WEIGHT OR LIGHT WEIGHT CONCRETE COMPOSITE METAL DECK.
9. PAF SHALL NOT BE USED TO RESIST SEISMIC SHEAR FORCES EXCEPT AT INTERIOR NON-LOAD BEARING, NON-SHEAR WALL PARTITION WALLS (AS PERMITTED BY 2013 CBC 1908A.1.1) AND COMPONENTS EXEMPT FROM CONSTRUCTION DOCUMENT REVIEW BY 2013 CBC SECTION 1616A.1.18 (NOT PERMITTED TO TAKE SEISMIC SHEAR BY ICC-ES AC70 FOR ANY OTHER CONDITIONS). PAF SHALL NOT BE USED TO CARRY SEISMIC TENSION LOADS (EXCEPT FOR VERTICAL SEISMIC LOAD PRODUCED BY SELF WEIGHT OF THE COMPONENTS) OR IN CRACKED CONCRETE UNLESS APPROVED FOR SUCH LOADING BY OSHPD.
10. PAF SHALL NOT BE USED IN PRE-STRESSED CONCRETE UNLESS NON-DESTRUCTIVE TESTING METHODS ARE USED TO LOCATE STRAND & REINFORCING PRIOR TO FASTENER INSTALLATION.
11. PAF INSTALLATION SHALL NOT NICK OR DAMAGE EXISTING CONCRETE REINFORCEMENT. SHOULD THIS OCCUR THE RDP IN RESPONSIBLE CHARGE SHALL BE NOTIFIED IMMEDIATELY. PAF SHALL BE INSTAL. CLEAR OF EXISTING REINFORCEMENT. THIS MAY REQUIRE NON

5/9/2017 9:06:04 AM

POWER ACTUATED FASTENER (PAF) ALLOWABLE STRENGTHS
(INSTALLED IN CONCRETE FILLED B-DECK)

TABLE 1
POWER ACTUATED FASTENER INSTALLED TO THE UNDERSIDE OF NORMAL WEIGHT OR SAND-LIGHTWEIGHT CONCRETE THROUGH B-DECK (f'c MIN = 3000 PSI)

NOMINAL SHANK DIAMETER (IN)	MIN. EMBED (IN)	MIN. SPACING (IN)	MIN. EDGE DISTANCE (IN)	TENSION (LB) SEE NOTE 15	SHEAR (LB) (SEE NOTE 15)
0.157 MIN	1"	4"	4"	90	90

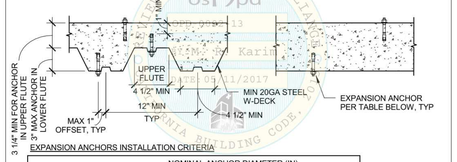
REVIEWED FOR CODE COMPLIANCE
OSHPD
OPD-0002-13
BY: M. R. Karim
DATE: 05/11/2017
CALIFORNIA BUILDING CODE, 2013

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No:
Sheet Title : POWER ACTUATED FASTENER (PAF) ALLOWABLE STRENGTHS (INSTALLED IN CONCRETE FILLED METAL B DECK) — CL1.14

5/9/2017 9:06:04 AM

EXPANSION ANCHOR GENERAL NOTES

1. ALLOWABLE STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAND IN ACCORDANCE WITH THE 2013 CBC SECTION 1605A.3.1.
2. ALLOWABLE STRENGTHS ARE FOR SINGLE ANCHORS WHICH MEET MIN. REQUIREMENTS IN ACCORDANCE WITH THE TABLE & SECTION BELOW.
3. MINIMUM CONCRETE STRENGTH f'c=3000 PSI.
4. EXPANSION ANCHORS INSTALLED THROUGH UPPER OR LOWER FLUTES OF METAL DECK SHALL MEET THE REQUIREMENTS OF THE INSTALLATION CRITERIA AND SECTION BELOW.
5. STEEL DECK TO BE MIN. 20 GA. W-DECK.
6. MINIMUM CONCRETE FILL DEPTH ABOVE THE TOP OF METAL DECK IN ACCORDANCE WITH THE SECTION AND INSTALLATION CRITERIA BELOW.
7. EXPANSION ANCHORS SHALL NOT BE USED IN PRE-STRESSED CONCRETE UNLESS NON-DESTRUCTIVE TESTING METHODS ARE USED TO LOCATE STRAND & REINFORCING PRIOR TO ANCHOR INSTALLATION.
8. EXPANSION ANCHOR INSTALLATION SHALL NOT NICK OR DAMAGE EXISTING REINFORCEMENT. SHOULD THIS OCCUR THE RDP IN RESPONSIBLE CHARGE SHALL BE NOTIFIED IMMEDIATELY. EXPANSION ANCHORS SHALL BE INSTALLED 1" CLEAR OF EXISTING REINFORCEMENT.
9. EXPANSION ANCHORS SHALL BE INSTALLED PER CURRENT ICC-ES EVALUATION REPORT OR REPORT FROM OTHER TESTING AGENCY ACCEPTABLE TO OSHPD.
10. TESTING OF EXPANSION ANCHORS SHALL BE IN ACCORDANCE WITH 2013 CBC SECTION 1913A.7.
11. EXPANSION ANCHORS SHALL BE INSTALLED TO COMPLY WITH THE MINIMUM SLAB THICKNESS REQUIREMENTS ESTABLISHED BY THE ICC-ESR FOR THE SPECIFIED ANCHOR.
12. REFER TO NOTE 6c ON CL0.00 FOR ADDITIONAL EXPANSION ANCHOR REQUIREMENTS.
13. ALL VALUES IN TABLES ARE FOR CRACKED CONCRETE & INCLUDE REDUCTION BASED ON ACI 318-11 SECTION D.3.3.4.4 REQUIREMENTS. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE ALLOWABLE STRENGTHS CALCULATED USING THE ICC ESRS 1917, 2427, 2502 & 3037 AND USING AN ALLOWABLE STRENGTH CONVERSION FACTOR OF 1.4.
14. ALL VALUES IN THE TABLE REFLECT ALLOWABLE STRENGTHS WITH 20% STRESS INCREASE FOR LOAD COMBINATIONS WITH OVERSTRENGTH FACTOR IN ACCORDANCE WITH ASCE 7-10 SECTION 12.4.3.3.



EXPANSION ANCHORS INSTALLATION CRITERIA

	NOMINAL ANCHOR DIAMETER (IN)				
	3/8	1/2		5/8	
EFFECTIVE MIN EMBEDMENT (IN)	2	2 1/4	3 1/4	3 1/8	4
MIN MEMBER THICKNESS N/W'C SLAB OR BEAM ONLY (IN)	4.5	4.5	6	6	7 1/4
MIN ANCHOR SPACING (3 x EMBED) (IN)	6 3/4	6 3/4	9 3/4	9 3/8	12
MIN EDGE DISTANCE (IN)	6	7	7 1/2	6 1/2	8 3/4

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No:
Sheet Title : EXPANSION ANCHOR GENERAL NOTES — CL1.20

5/9/2017 9:06:04 AM

EXPANSION ANCHOR ALLOWABLE STRENGTHS

TABLE 1
EXPANSION ANCHORS INSTALLED IN TO THE UNDERSIDE OF STRUCTURAL SAND-LIGHTWEIGHT CONCRETE (f'_c MIN=3000 PSI) OVER METAL DECK

ANCHOR DIA. (IN)	EMBED (IN)	SHEAR (LB)	TENSION (LB)
3/8	2	747	604
1/2	2 1/4	1029	610
1/2	3 1/4	1173	1086
5/8	3 1/4	1353	836
5/8	4 1/4	2477	1941

TABLE 2
EXPANSION ANCHORS INSTALLED IN TO THE TOP OF STRUCTURAL SAND-LIGHTWEIGHT CONCRETE (f'_c MIN=3000 PSI) OVER METAL DECK

ANCHOR DIA. (IN)	EMBED (IN)	SHEAR (LB)	TENSION (LB)
3/8	2	806	624
1/2	2 1/4	948	660

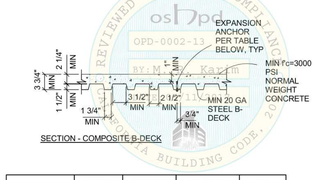
TABLE 1
EXPANSION ANCHORS INSTALLED IN TO THE UNDERSIDE OF STRUCTURAL SAND-LIGHTWEIGHT CONCRETE (f'_c MIN=3000 PSI) OVER METAL DECK
ANCHOR DIA. (IN) EMBED (IN) SHEAR (LB) TENSION (LB)
3/8 2 747 604
1/2 2 1/4 1029 610
1/2 3 1/4 1173 1086
5/8 3 1/4 1353 836
5/8 4 1/4 2477 1941
TABLE 2
EXPANSION ANCHORS INSTALLED IN TO THE TOP OF STRUCTURAL SAND-LIGHTWEIGHT CONCRETE (f'_c MIN=3000 PSI) OVER METAL DECK
ANCHOR DIA. (IN) EMBED (IN) SHEAR (LB) TENSION (LB)
3/8 2 806 624
1/2 2 1/4 948 660

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No:
Sheet Title : EXPANSION ANCHOR ALLOWABLE STRENGTHS — CL1.21

5/9/2017 9:06:05 AM

EXPANSION ANCHOR GENERAL NOTES

1. ALLOWABLE STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAND IN ACCORDANCE WITH THE 2013 CBC SECTION 1605A.3.1.
2. ALLOWABLE STRENGTHS SHOWN IN TABLES ON CL1.23 ARE FOR SINGLE ANCHORS WHICH MEET MIN. REQUIREMENTS PER TABLE AND SECTION BELOW.
3. MINIMUM CONCRETE STRENGTH f'c = 3000 PSI.
4. EXPANSION ANCHORS INSTALLED THROUGH LOWER FLUTES OF METAL DECK SHALL MEET THE REQUIREMENTS OF THE INSTALLATION CRITERIA AND SECTION BELOW.
5. STEEL DECK TO BE MIN 20 GA. B-DECK.
6. MINIMUM CONCRETE FILL DEPTH ABOVE THE TOP OF THE METAL DECK PER SECTION AND INSTALLATION CRITERIA BELOW.
7. EXPANSION ANCHORS SHALL NOT BE USED IN PRE-STRESSED CONCRETE UNLESS NON-DESTRUCTIVE TESTING METHODS ARE USED TO LOCATE STRAND & REINFORCING PRIOR TO ANCHOR INSTALLATION.
8. EXPANSION ANCHOR INSTALLATION SHALL NOT NICK OR DAMAGE EXISTING REINFORCEMENT. SHOULD THIS OCCUR, THE RDP IN RESPONSIBLE CHARGE SHALL BE NOTIFIED IMMEDIATELY. EXPANSION ANCHORS SHALL BE INSTA' CLEAR OF EXISTING REINFORCEMENT.
9. EXPANSION ANCHORS SHALL BE INSTALLED PER CURRENT ICC-ES EVALUATION REPORT OR REPORT FROM OTHER TESTING AGENCY ACCEPTABLE TO OSHPD.
10. TESTING OF EXPANSION ANCHORS SHALL BE PER 2013 CBC SECTION 1913A.7.
12. REFER TO NOTE 6c ON CL0.00 FOR ADDITIONAL EXPANSION ANCHOR REQUIREMENTS.
13. ALL VALUES IN TABLES ARE FOR CRACKED CONCRETE & INCLUDE REDUCTION BASED ON ACI 318-11 D.3.3.4.4 REQUIREMENTS. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE ALLOWABLE STRENGTHS CALCULATED USING THE ICC ESRS 1917 AND 2502 AND USING AN α FACTOR OF 1.4.
14. ALL VALUES IN TABLE REFLECT ALLOWABLE STRENGTHS WITH 20% ALLOWABLE STRESS INCREASE FOR LOAD COMBINATIONS WITH OVERSTRENGTH FACTOR IN ACCORDANCE WITH ASCE 7-10 SECTION 12.4.3.3.



SECTION - COMPOSITE B-DECK

	ANCHOR DIAMETER	EFFECTIVE EMBEDMENT	MIN EDGE DISTANCE	MIN SPACING
UNDERSIDE INSTALLATION **	3/8"	2"	6"	6 3/4"
	1/2"	2"	7"	6 3/4"

** UNDERSIDE APPLICATION ONLY.

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No:
Sheet Title : EXPANSION ANCHOR GENERAL NOTES (INSTALLED IN CONCRETE FILLED METAL B DECK) — CL1.22

5/9/2017 9:06:05 AM

SHEET METAL SCREW (SMS) GENERAL NOTES

1. THE ALLOWABLE STRENGTHS ARE BASED UPON THE AISI S100-07/S2-10 AND ARE LIMITED BY ACTUAL TESTED STRENGTH OF THE SCREWS IN TENSION AND SHEAR.
2. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE AVERAGE TESTED TENSILE AND SHEAR STRENGTHS TABULATED FROM ICC ESR'S 1976, 2196, 1730, 1408, AND THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA). FASTENER TYPES AND SIZES APPLY TO NON-PROPRIETARY FASTENER TYPES AND SIZES, AND DOES NOT ENDORSE A SPECIFIC MANUFACTURER. WHERE PROPRIETARY FASTENERS ARE SPECIFIED, NO EXCEPTIONS ARE TAKEN TO THE USE OF MANUFACTURER SPECIFIC VALUES THAT ARE BASED UPON THE AISI S100-07/S2-10, SECTION E4. ALL SCREW FASTENERS SHALL SATISFY ICC-ES AC118-ACCEPTANCE CRITERIA FOR SELF TAPPING SCREW FASTENERS.
3. TABLE 1 REPRESENTS ALLOWABLE TENSION AND SHEAR STRENGTHS FOR NON-PROPRIETARY SHEET METAL SCREWS FOR STEEL TO STEEL CONNECTIONS.
4. TABLES 2 AND 3 REPRESENT ALLOWABLE TENSION AND SHEAR STRENGTHS THAT INCORPORATE THE EFFECTS OF EITHER ONE (1) OR TWO (2) LAYERS OF 5/8" GYPSUM BOARD BETWEEN FASTENER HEAD AND CONNECTING STEEL MATERIAL.
5. IN ORDER TO USE THE VALUES IN TABLES 1, 2, AND 3, THE ATTACHMENTS SHALL BE DETAILED IN SUCH A WAY AS TO AVOID PRYING AND THE STUDS MUST BE STABILIZED WITH FULL-DEPTH BLOCKING WITH CONTINUOUS STRAPS ALONG THE FLANGES OR WITH BACKING BARS.
6. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHOULD NOT BE LESS THAN THREE (3) EXPOSED THREADS.
7. STEEL THICKNESSES JOINED ARE ASSUMED TO BE THE SAME. IF DISSIMILAR THICKNESSES ARE BEING CONNECTED, THE VALUE FOR THE THINNER PART JOINED SHALL BE USED.
8. THE MINIMUM SPACING BETWEEN CENTERS OF FASTENERS SHALL NOT BE LESS THAN 3 X FASTENER DIAMETER. THE MINIMUM EDGE DISTANCE FROM THE CENTER OF A FASTENER TO THE EDGE OF ANY PART SHALL NOT BE LESS THAN 1.5 X FASTENER DIAMETER. WHERE THE END DISTANCE IS PARALLEL TO THE FORCE ON THE FASTENER, THE NOMINAL SHEAR STRENGTH SHALL BE LIMITED BY SECTION E4.3.2 OF THE AISI S100-07/S2-10.
9. GALVANIZED METAL STUDS, TRACK AND SHEET STEEL SHALL CONFORM TO ASTM A653-09a MATERIAL (OR OTHER EQUIVALENT ASTM LISTED MATERIALS IN THE AISI S100-07/S2-10, SECTION A2.1) WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MIL (18 GA) AND LIGHTER, AND MINIMUM YIELD STRENGTH OF 50 KSI FOR 54 MIL (16 GA) & HEAVIER.
10. WHERE VALUES ARE NOT GIVEN, SUCH COMBINATIONS OF SCREW SIZES & MATERIAL THICKNESS ARE NOT RECOMMENDED.
11. IF THE ATTACHMENT DETAILS RESULT IN PRYING WITH A MOMENT ARM NOT TO EXCEED 1 5/8", THE VALUES IN TABLE 4 MAY BE USED. IF THE ATTACHMENT DETAILS RESULT IN PRYING WITH A MOMENT ARM THAT EXCEEDS 1 5/8", THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE OF THE PROJECT SHALL DETERMINE THE ALLOWABLE VALUES AND SUBMIT SUBSTANTIATION FOR THEM TO OSHPD FOR REVIEW.
12. INTERACTION OF SHEAR AND TENSION SHALL BE BASED ON $T/T_{ALL} + V/V_{ALL} \leq 1.0$.
13. REFER TO NOTE 6A ON CL0.00 FOR ADDITIONAL SHEET METAL SCREW REQUIREMENTS.

REVIEWED FOR CODE COMPLIANCE
OSHPD
OPD-0002-13
BY: M. R. Karim
DATE: 05/11/2017
CALIFORNIA BUILDING CODE, 2013

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No:
Sheet Title : SHEET METAL SCREW GENERAL NOTES — CL1.30

5/9/2017 9:06:05 AM

SHEET METAL SCREW (SMS) ALLOWABLE STRENGTHS

TABLE 1
SHEET METAL SCREW ALLOWABLE STRENGTHS FOR STEEL TO STEEL CONNECTIONS.

Fy (KSI)	MIL (STEEL GA)	FASTENER SIZE NO. 14 0.250 IN SHEAR (LB)	NO. 14 0.250 IN TENSION (LB)	NO. 12 0.216 IN SHEAR (LB)	NO. 12 0.216 IN TENSION (LB)	NO. 10 0.190 IN SHEAR (LB)	NO. 10 0.190 IN TENSION (LB)	NO. 8 0.164 IN SHEAR (LB)	NO. 8 0.164 IN TENSION (LB)	NO. 6 0.138 IN SHEAR (LB)	NO. 6 0.138 IN TENSION (LB)
50	97 (12)	704	275	525	205	-	-	-	-	-	-
	68 (14)	704	275	525	205	405	159	-	-	-	-
	54 (16)	613	261	525	205	405	159	303	118	-	-
33	43 (18)	302	144	280	124	263	109	244	94	165	79
	33 (20)	-	-	-	-	177	84	164	72	151	61

NOTES:
1. SEE GENERAL NOTES ON CL1.30 FOR ADDITIONAL INFORMATION.
2. WHERE ONE OR TWO LAYERS OF GYP BOARD OCCURS BETWEEN STEEL SURFACES, THE ALLOWABLE VALUES OF TABLE 2 & 3 SHALL BE USED.
3. ALLOWABLE STRENGTH VALUES DO NOT ACCOUNT FOR EFFECTS FROM PRYING. THE RDP IN RESPONSIBLE CHARGE OF THE PROJECT SHALL PROVIDE ADEQUATE BLOCKING/RESTRAINT TO PREVENT PRYING ACTION. WHERE PRYING OCCURS, THE VALUES AND CONSTRAINTS OF TABLE 4 SHALL BE USED.

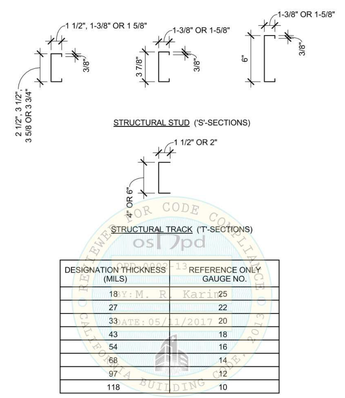
TABLE 2 - NON-PRYING CONDITION
SHEET METAL SCREW ALLOWABLE STRENGTHS FOR STEEL TO STEEL CONNECTIONS.
WITH ONE LAYER OF 5/8" GYP BOARD BETWEEN STEEL SURFACES.

Fy (KSI)	MIL (STEEL GA)	FASTENER SIZE NO. 14 0.250 IN SHEAR (LB)	NO. 14 0.250 IN TENSION (LB)	NO. 12 0.216 IN SHEAR (LB)	NO. 12 0.216 IN TENSION (LB)	NO. 10 0.190 IN SHEAR (LB)	NO. 10 0.190 IN TENSION (LB)	NO. 8 0.164 IN SHEAR (LB)	NO. 8 0.164 IN TENSION (LB)	NO. 6 0.138 IN SHEAR (LB)	NO. 6 0.138 IN TENSION (LB)
50	97 (12)	226	275	180	205	-	-	-	-	-	-
	68 (14)	226	275	180	205	140	159	-	-	-	-
	54 (16)	226	261	180	205	140	159	120	118	-	-
33	43 (18)	226	144	180	124	140	109	120	94	60	79
	33 (20)	-	-	-	-	100	84	80	72	60	61

NOTES:
1. SEE GENERAL NOTES ON CL1.30 FOR ADDITIONAL INFORMATION.
2. ALLOWABLE STRENGTH VALUES DO NOT ACCOUNT FOR EFFECTS FROM PRYING. THE RDP IN RESPONSIBLE CHARGE OF THE PROJECT SHALL PROVIDE ADEQUATE BLOCKING/RESTRAINT TO PREVENT PRYING ACTION. WHERE PRYING OCCURS, THE VALUES AND CONSTRAINTS OF TABLE 4 SHALL BE USED.

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No:
Sheet Title : SHEET METAL SCREW ALLOWABLE STRENGTHS - PAGES 1 OF 2 — CL1.31

5/9/2017 9:06:06 AM



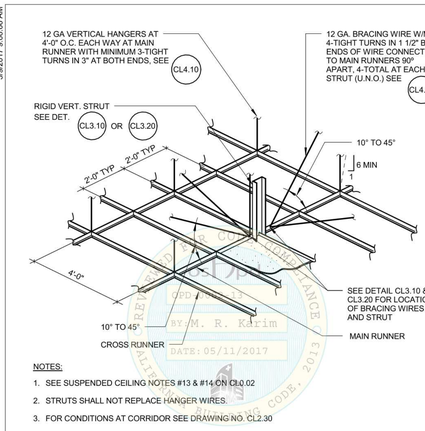
DESIGNATION THICKNESS (MILS)	REFERENCE ONLY GAUGE NO.
18	25
27	22
33	20
43	18
54	16
68	14
97	12
118	10

NOTE:

1. F_y = 50KSI FOR 54 MIL (16GA) & THICKER SECTIONS, AND F_y = 33KSI FOR SECTIONS UP TO & INCLUDING 43 MI (18GA).
2. SIZE AND THICKNESS ARE CONSIDERED MINIMUMS.
3. STRUCTURAL STUDS SHALL NOT BE PUNCHED UNLESS NOTED OTHERWISE.

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No:
Sheet Title : METAL STUD PROFILES — CL1.40

5/9/2017 9:06:06 AM



NOTES:

1. SEE SUSPENDED CEILING NOTES #13 & #14 ON CL0.02
2. STRUTS SHALL NOT REPLACE HANGER WIRES.
3. FOR CONDITIONS AT CORRIDOR SEE DRAWING NO. CL2.30

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No:
Sheet Title : SUSPENDED CEILING BRACING ASSEMBLY — CL2.10

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

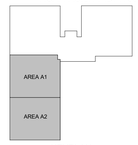
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-38256
JUNE 30, 2026
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

CEILING DETAILS - ACOUSTICAL TILE/LAY-IN PANEL OPDS

DATE: APRIL 16, 2024

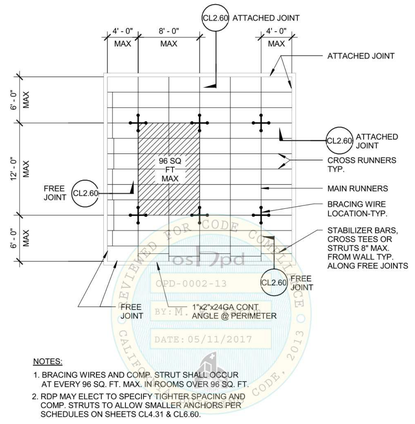
CONSTRUCTION DOCUMENTS

A671.1

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 4/29/2024 9:05:27 AM Autodesk Docs://Natividad Med Surg & Unit - 3707-016-00/A29- Natividad Med Surg & Unit - 3707-016-00.rvt

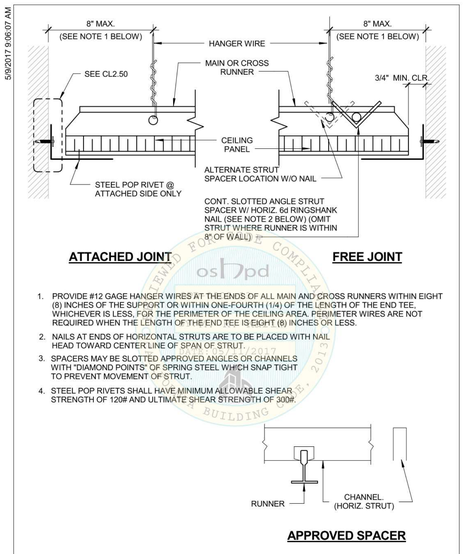


NOTES:

1. BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 96 SQ. FT. MAX. IN ROOMS OVER 96 SQ. FT.
2. RDP MAY ELECT TO SPECIFY TIGHTER SPACING AND COMP. STRUTS TO ALLOW SMALLER ANCHORS PER SCHEDULES ON SHEETS CL4.31 & CL6.60.

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No:

Sheet Title : TYPICAL CEILING PLAN FOR $1.15 < S_{DS} \leq 1.73$ AND z/h <= 1.0 — CL2.21



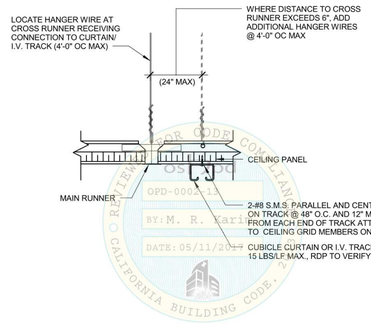
ATTACHED JOINT **FREE JOINT**

1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS. FOR THE PERIMETER OF THE CEILING AREA, PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
2. NAILS AT ENDS OF HORIZONTAL STRUTS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTER LINE OF SPAN OF STRUT.
3. SPACERS MAY BE SLOTTED APPROVED ANGLES OR CHANNELS WITH "DIAMOND POINTS" OF SPRING STEEL WHICH SNAP TIGHT TO PREVENT MOVEMENT OF STRUT.
4. STEEL POP RIVETS SHALL HAVE MINIMUM ALLOWABLE SHEAR STRENGTH OF 120# AND ULTIMATE SHEAR STRENGTH OF 300#.

APPROVED SPACER

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No:

Sheet Title : CEILING PERIMETER INCLUDING NON-EXITWAY CORRIDORS — CL2.60

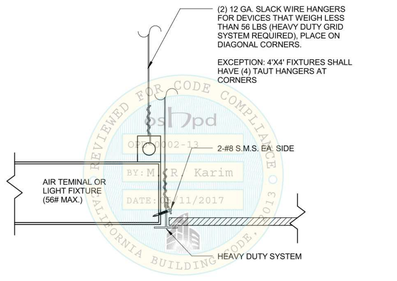


Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No:

Sheet Title : SUSPENDED ACOUSTICAL CEILING - CUBICLE CURTAIN I.V. TRACK — CL2.70

NOTES:

1. SEE GENERAL NOTE #15 ON CL0.03



Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No:

Sheet Title : SUSPENDED ACOUSTICAL CEILING - LIGHT FIXTURES/ AIR TERMINAL SUPPORT DETAIL — CL2.80

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No:

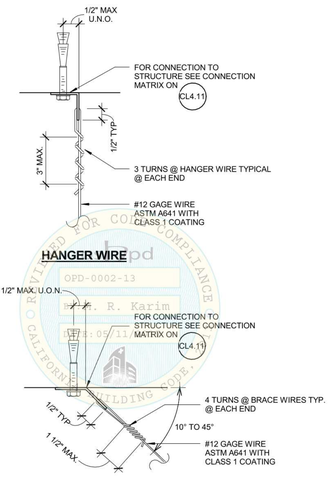
Sheet Title : SUSPENDED ACOUSTICAL CEILING - CHANNEL TYPE STRUT — CL3.10

OPTION 1 **OPTION 2**

SEE OPTION 1 FOR INFORMATION NOT SHOWN

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No:

Sheet Title : SUSPENDED ACOUSTICAL CEILING - TUBE TYPE STRUT — CL3.20



HANGER WIRE

BRACING WIRE

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No:

Sheet Title : HANGER AND BRACING WIRE CONNECTION - TYPICAL WIRE TURNS — CL4.10

STRUCTURAL CONDITION OF FLOOR/ ROOF ABOVE SUSPENDED CEILING	APPLICABLE HANGER WIRE DETAIL	APPLICABLE BRACING WIRE DETAIL
CONCRETE OVER METAL DECK	CL4.21	CL4.31
[illegible]	[illegible]	[illegible]
STRUCTURAL STEEL	CL4.23	CL4.33
[illegible]	[illegible]	[illegible]
METAL STUD WALL	CL4.25	CL4.35

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No:

Sheet Title : HANGER AND BRACING WIRE CONNECTION MATRIX — CL4.11

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

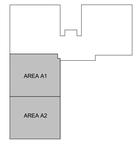
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER: S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

CEILING DETAILS - ACOUSTICAL TILE/LAY-IN PANEL OPDS

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

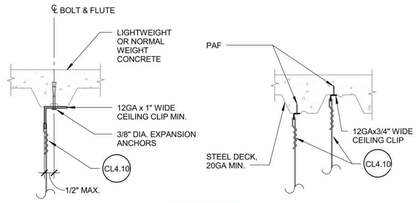
A671.2

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

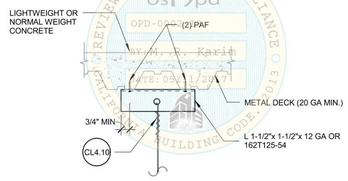
Author 4/29/2024 9:05:28 AM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/429-Natividad Med Surg 3 Unit - 3707-016-00.rvt

5/9/2017 9:06:08 AM



OPTION 1

OPTION 2



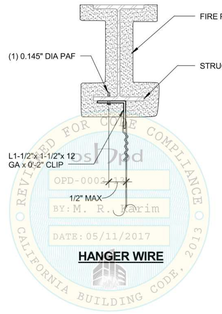
OPTION 3

NOTES:

1. LOAD TEST IN ACCORDANCE WITH GENERAL NOTE 14(g), PAGE CL0.02 SHALL BE REQUIRED
2. REFER TO CL4.10 FOR ADDITIONAL DETAILS

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No:
Sheet Title : HANGER WIRE CONNECTION TO CONCRETE OVER METAL DECK		CL4.21

5/9/2017 9:06:08 AM



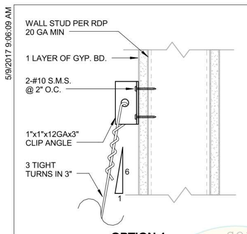
HANGER WIRE

NOTES :

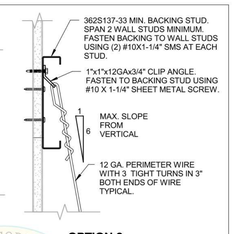
1. BEAM FLANGE THICKNESS SHALL NOT BE LESS THAN 3/16" OR MORE THAN 3/8"
2. FRAMING MEMBERS SHALL BE DESIGNED TO CARRY THE CEILING LOADS, RDP TO VERIFY
3. RDP IN RESPONSIBLE CHARGE, I.O.R. AND CONTRACTOR SHALL VERIFY THAT NO PAF IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER, SEE ANSI/AISC 341-10.

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No:
Sheet Title : HANGER WIRE CONNECTION TO STRUCTURAL STEEL		CL4.23

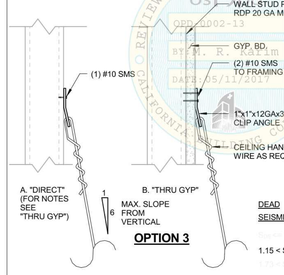
5/9/2017 9:06:09 AM



OPTION 1



OPTION 2



OPTION 3

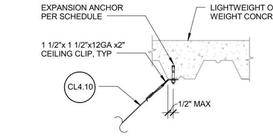
NOTES:

1. THIS IS APPLIED FOR PERIMETER WIRE ATTACHEMENT OR WHERE OBSTRUCTION PREVENTS ATTACHMENT TO STRUCTURE ABOVE
2. RDP SHALL DESIGN FRAMING WALL TO CARRY THE CEILING LOAD. SEE TABLE BELOW FOR LOADS. LOADS ASSUME A TRIBUTARY AREA OF 16 SQ FT AND ARE UNFACTORED.
3. WALLS SHALL BE DESIGNED FOR HANGER FORCES BELOW. AT FREE JOINT, HANGER WIRE SHALL HAVE A MINIMUM STRETCH LENGTH (CLR LENGTH BTWN TURNS) OF12"

	HANGER FORCES VERTICAL	HORIZONTAL
DEAD	64 LBS	11 LBS
SEISMIC (0.14S_{DS} Wp)		
1.15 < S_{DS} <= 1.73	16 LBS	3 LBS

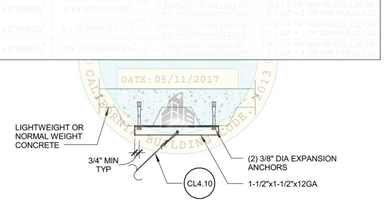
Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No:
Sheet Title : HANGER WIRE CONNECTION TO METAL STUD WALL		CL4.25

5/9/2017 9:06:09 AM



OPTION 1

ANCHOR BOLT SIZE	SPLAY BRACE/COMP POST SPACING	S_{DS} (g) RANGE (z/h = 1.0)	DECK TYPE
5/8 x 4 1/4" EMBED	8' x 12' (PER CL2.21)	1.15<S_{DS}<1.73 (PER CL2.21)	W3 + 3 1/4" MIN PER CL1.20



OPTION 2

NOTES:

1. LOAD TEST IN ACCORDANCE WITH GENERAL NOTE 14(g), PAGE CL0.02 SHALL BE REQUIRED
2. REFER TO CL4.10 FOR ADDITIONAL DETAILS
3. RDP CAN USE SMALLER EXPANSION BOLT SIZE AND SHALLOWER EMBEDMENT DEPTH SHOWN, PROVIDED VERTICAL STRUT/BRACING WIRE SPACING IS REDUCED AS SHOWN, IN LIEU OF SPACINGS SHOWN ON CL2.20, CL2.21, AND CL2.22.

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No:
Sheet Title : BRACING WIRE CONNECTION TO CONCRETE OVER METAL DECK		CL4.31

5/9/2017 9:06:09 AM

BRACING WIRE

NOTES :

1. BEAM FLANGE THICKNESS SHALL NOT BE LESS THAN 3/16" OR MORE THAN 3/8"
2. FRAMING MEMBERS SHALL BE DESIGNED TO CARRY THE CEILING LOADS, RDP TO VERIFY
3. RDP IN RESPONSIBLE CHARGE, I.O.R. AND CONTRACTOR SHALL VERIFY THAT NO PAF IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER, SEE ANSI/AISC 341-10.

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No:
Sheet Title : BRACING WIRE CONNECTION TO STRUCTURAL STEEL		CL4.33

5/9/2017 9:06:10 AM

WALL STUD GAUGE	CONN TO WALL STUD	CONN TO WALL STUD ALT [3]
20 GA	(5) #10x1-1/4" SMS	(3) #10x1-1/4" SMS
18 GA	(4) #10x1-1/4" SMS	(2) #10x1-1/4" SMS

NOTES:

1. RDP SHALL DESIGN FRAMING WALL TO CARRY THE CEILING LOAD PER NOTE #2.
2. SEISMIC BRACE WIRE FORCE = 473 LBS (LRFD LOAD). BRACING WIRE SHALL HAVE A MINIMUM STRETCH LENGTH (CLR LENGTH BTWN TURNS) OF 12", WHEN USED AT FREE JOINT.
3. APPLIES WHERE CLIP ATTACHED DIRECTLY TO WALL STUD.

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No:
Sheet Title : BRACING WIRE CONNECTION TO METAL STUD WALL		CL4.35

5/9/2017 9:06:10 AM

STRUCTURAL CONDITION OF FLOOR / ROOF ABOVE STRUT	APPLICABLE DETAIL
CONCRETE OVER METAL DECK	CL5.20
[illegible]	[illegible]
STRUCTURAL STEEL	CL5.40
[illegible]	[illegible]

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No:
Sheet Title : STRUT CONNECTION - CONNECTION MATRIX		CL5.10

5/9/2017 9:06:10 AM

OPTION 1 **OPTION 2**

CHANNEL STRUT

OPTION 1 **OPTION 2**

TUBE STRUT

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No:
Sheet Title : STRUT CONNECTION TO CONCRETE OVER METAL DECK		CL5.20

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

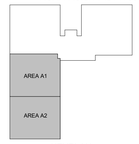
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-29256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

CEILING DETAILS - ACOUSTICAL TILE/LAY-IN PANEL OPDS

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

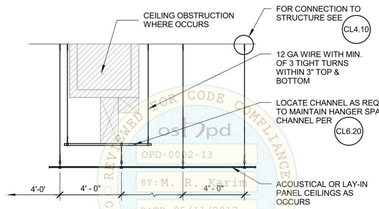
A671.3

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 4/29/2024 9:06:39 AM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/429- Natividad Med Surg 3 Unit - 3707-016-00.rvt

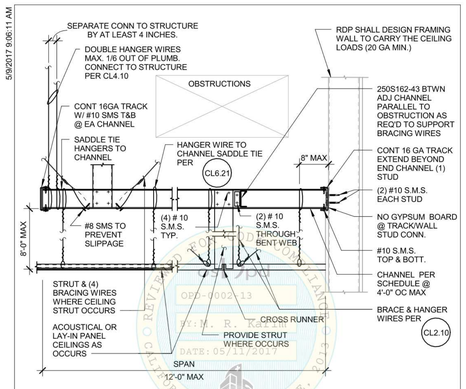
5/9/2017 9:06:11 AM



TRAPEZE SUPPORT

Section Title :	OSHPD STANDARD SUSPENDED CEILING DETAILS
Sheet Title :	OBSTRUCTION - TRAPEZE CONDITION
OPD No:	CL6.10

5/9/2017 9:06:11 AM



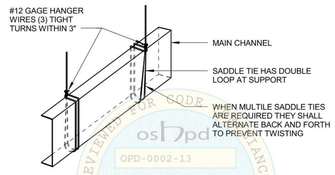
WALL WHERE OCCURS

DBL. SECTION

SPAN	SECTION
4'-0"	250S162-43
8'-0"	400S162-54
12'-0"	(2) 400S162-54

Section Title :	OSHPD STANDARD SUSPENDED CEILING DETAILS
Sheet Title :	OBSTRUCTION-BRIDGE AT LARGE OFFSET CONDITION
OPD No:	CL6.20

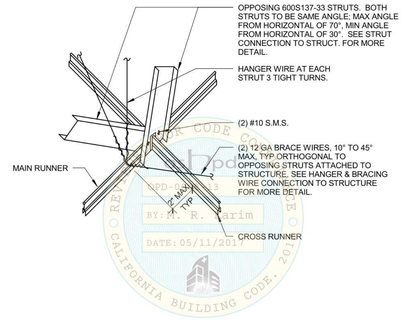
5/9/2017 9:06:11 AM



SADDLE TIE AT MAIN RUNNER TO HANGER WIRE

Section Title :	OSHPD STANDARD SUSPENDED CEILING DETAILS
Sheet Title :	SADDLE TIE DETAIL
OPD No:	CL6.21

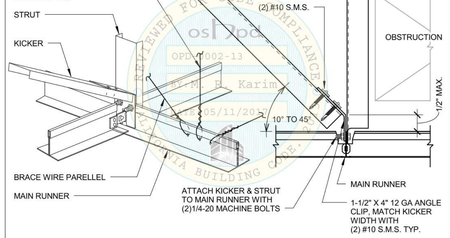
5/9/2017 9:06:11 AM



OPPOSING STRUT FOR CEILING

Section Title :	OSHPD STANDARD SUSPENDED CEILING DETAILS
Sheet Title :	OBSTRUCTION-COUNTER SLOPING STRUTS
OPD No:	CL6.30

5/9/2017 9:06:12 AM

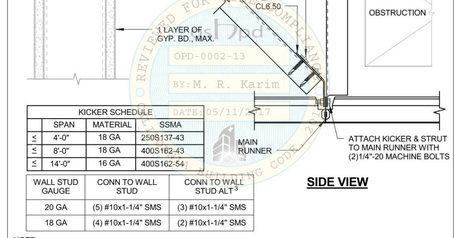


ISOMETRIC VIEW **SIDE VIEW**

T-BAR CEILING - WIRE OBSTRUCTION DETAIL W/ STUD KICKER, LESS BRACING WIRES, TO DECK.

Section Title :	OSHPD STANDARD SUSPENDED CEILING DETAILS
Sheet Title :	OBSTRUCTION-STUD KICKER TO OVERHEAD
OPD No:	CL6.50

5/9/2017 9:06:12 AM



KICKER SCHEDULE			
	SPAN	MATERIAL	SSMA
VA	4'-0"	18 GA	250S137-43
VA	8'-0"	18 GA	400S162-43
VA	14'-0"	16 GA	400S162-54

WALL STUD GAUGE	CONN TO WALL STUD	CONN TO WALL STUD ALT [3]
20 GA	(5) #10x1-1/4" SMS	(3) #10x1-1/4" SMS
18 GA	(4) #10x1-1/4" SMS	(2) #10x1-1/4" SMS

SIDE VIEW

NOTE:
1. KICKER BRACING IS AN ALTERNATE TO BRACING WIRES. THIS METHOD MAY BE USED IN LIEU OF OPPOSING WIRES AT ATTACHED JOINT ONLY. NOT PERMITTED AT FREE JOINT

2. RDP SHALL DESIGN FRAMED WALLS TO CARRY THE CEILING LOADS
3. APPLIES WHERE CLIP ATTACHED DIRECTLY TO WALL STUD.

T-BAR CEILING - WIRE OBSTRUCTION DETAIL W/ STUD KICKER, LESS BRACING WIRES, TO WALL

Section Title :	OSHPD STANDARD SUSPENDED CEILING DETAILS
Sheet Title :	OBSTRUCTION-STUD KICKER TO WALL - PAGE 1 OF 2
OPD No:	CL6.60

5/9/2017 9:06:12 AM

ANCHOR BOLT SIZE	SPLAY BRACE/COMP POST SPACING	SDS (g) RANGE (z/h = 1.0)	DECK TYPE
5/8 x 4 1/4" EMBED	8' x 12' (PER CL2.21)	1.15<Sds≤1.73 (PER CL2.21)	W3 + 3 1/4" MIN PER CL1.20

NOTE:

1. RDP CAN USE SMALLER EXPANSION BOLT SIZE AND SHALLOWER EMBEDMENT DEPTH SHOWN, PROVIDED VERTICAL STRUT/BRACING WIRE SPACING IS REDUCED AS SHOWN, IN LIEU OF SPACINGS SHOWN ON CL2.20, CL2.21, AND CL2.22.

Section Title :	OSHPD STANDARD SUSPENDED CEILING DETAILS
Sheet Title :	OBSTRUCTION-STUD KICKER TO WALL - PAGE 2 OF 2
OPD No:	CL6.61

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

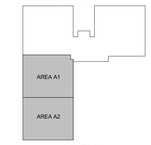
INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

CEILING DETAILS - ACOUSTICAL TILE/LAY-IN PANEL OPDS

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

A671.4

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 4/29/2024 9:06:30 AM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/A29- Natividad Med Surg 3 Unit - 3707-016-00.rvt

5/9/2017 9:07:27 AM

SUSPENDED GYP BOARD CEILING
GENERAL NOTES

1. CONSTRUCTION, WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE 2013 CALIFORNIA BUILDING STANDARDS CODE (CBSC 2013).

2. THE CONTRACTOR SHALL NOTIFY OSHPD AND THE REGISTERED DESIGN PROFESSIONAL (RDP) IN RESPONSIBLE CHARGE WHERE A CONFLICT OR DISCREPANCY OCCURS BETWEEN THE CONSTRUCTION DRAWINGS AND ANY OTHER PORTION OF THE CONSTRUCTION DOCUMENTS, FIELD CONDITIONS, OR WHERE ANY CONDITIONS ARISE NOT COVERED BY THESE DOCUMENTS WHEREIN WORK WILL NOT COMPLY WITH CODE REQUIREMENTS.

3. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE CALIFORNIA BUILDING STANDARD CODE, 2013 (CBSC 2013). SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS WHEREIN THE WORK WILL NOT COMPLY WITH CBSC 2013, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK.

4. GALVANIZED METAL STUDS, TRACKS AND SHEET STEEL SHALL CONFORM TO ASTM A653-11 MATERIAL, OR OTHER EQUIVALENT ASTM LISTED MATERIALS IN SECTION A2.1 OF THE AISI SI00-07/S2-10, NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS WITH SUPPLEMENT 2, DATED 2010, WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MIL (18 GAGE) AND LIGHTER AND MINIMUM YIELD STRENGTH OF 50 KSI FOR HEAVIER GAGES.

   METAL STUDS AND TRACKS SHALL BE OF SIZE, THICKNESS AND SECTION PROPERTIES SHOWN ON TABLES 1-1, 1-2 AND 1-3 OF THE AISI MANUAL, COLD-FORMED STEEL DESIGN, 2008 EDITION. THE RDP IN RESPONSIBLE CHARGE SHALL OBTAIN OSHPD APPROVAL FOR ANY SUBSTITUTIONS.

5. THESE OPD REFER TO FASTENER TYPE AND SIZE BUT DO NOT SPECIFY OR ENDORSE A SPECIFIC MANUFACTURER. THE RDP IN RESPONSIBLE CHARGE SHALL SELECT A MANUFACTURER AND SELECTED FASTENER CAPACITIES SHALL MATCH OR EXCEED THE STRENGTHS LISTED HEREIN. THE FOLLOWING REQUIREMENTS SHALL ALSO BE MET:

   SHEET METAL SCREWS SHALL COMPLY WITH ASTM C 1513-10, ASME B18.6.4-98 (R2005) AND ICC-ES AC 118 AND ALLOWABLE STRENGTH SHALL BE BASED ON INFORMATION PROVIDED IN GX1.31 AND GX1.32. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.

OPD-0003-13
BY: M. R. Karim
DATE: 05/11/2017
REVIEWED FOR CODE COMPLIANCE
CALIFORNIA BUILDING CODE, 2013

Section Title : OSHPD STANDARD GYPSUM BOARD CEILING DETAILS	OPD No:
Sheet Title : JOISTED GYP BOARD CEILING GENERAL NOTES	CJ0.00

5/9/2017 9:07:27 AM

6. DESIGN CRITERIA

   a. BUILDING CODE: 2013 CALIFORNIA BUILDING CODE (2013 CBC), ASCE 7-10, AND AISI S100-07/S2-10. FOR LOAD COMBINATIONS, ALLOWABLE STRESS DESIGN SHALL BE IN ACCORDANCE WITH 2013 CBC SECTION 1605A.3.1.

   b. FASTENER CAPACITIES TABLES WERE DEVELOPED BASED ON ICC REPORTS BY SEVERAL MANUFACTURERS.

   c. THE DESIGN ASSUMES THAT BUILDING ELEMENTS AND SUPPORTS, TO WHICH THE COMPONENTS ADDRESSED IN THIS DOCUMENT ARE ATTACHED, HAVE SUFFICIENT CAPACITY TO CARRY THE LOADS IMPOSED BY THE COMPONENTS IN COMBINATION WITH ALL OTHER LOADS. EVALUATION OF THE CAPACITY OF THESE SUPPORTING BUILDING ELEMENTS IS BEYOND THE SCOPE OF THE OPD. RDP SHALL DESIGN THE WALLS SUPPORTING JOISTED CEILING FOR GRAVITY AND SEISMIC FORCES FROM THE CEILING IN ADDITION TO OTHER WALL/SIGN LOADS.

   d. THIS OPD IS LIMITED TO CEILING ASSEMBLIES HAVING MAXIMUM DEAD WEIGHT OF 4 PSF, INCLUDING LIGHTING FIXTURES (LUMINERIES) AND MECHANICAL SERVICES. EACH WEIGHING LESS THAN 56 LBS AND ATTACHED TO CEILING FRAMING SYSTEM. HEAVIER SYSTEM AND THOSE SUPPORTING LATERAL FORCES FROM PARTITION WALLS ARE OUTSIDE THE SCOPE OF THIS OPD AND WILL REQUIRE PROJECT SPECIFIC DESIGN.

7. THE RDP IN RESPONSIBLE CHARGE SHALL VERIFY THE FIRE RESISTENCE AND ACOUSTICAL RATINGS FOR ALL CEILING ASSEMBLIES.

8. CEILING FIXTURES, TERMINALS, AND DEVICES:

   a. ALL LIGHT FIXTURES, AIR TERMINALS/GRILLS, OR OTHER DEVICES (REFERRED TO ALL BY COMMON TERM FIXTURES HEREAFTER) SHALL BE MOUNTED IN A MANNER THAT WILL NOT COMPROMISE CEILING PERFORMANCE.

   b. ALL LIGHT FIXTURES SHALL BE SUPPORTED DIRECTLY BY JOIST FRAMING OR BY SUPPLEMENTAL FRAMING WHICH IS SUPPORTED BY JOIST FRAMING AND POSITIVELY ATTACHED WITH SCREWS OR OTHER APPROVED CONNECTORS.

   c. SURFACE MOUNTED FIXTURES SHALL BE ATTACHED TO JOIST FRAMING WITH A POSITIVE CLAMPING DEVICE MADE OF MATERIAL WITH A MINIMUM OF 14 GAGE. ROTATIONAL SPRING CLAMPS DO NOT COMPLY.

   d. ACCESS PANELS: ACCESS TO THE SPACE BETWEEN THE CEILING AND THE FLOOR OR ROOF ABOVE SHALL NOT BE ALLOWED. SMALL ACCESS PANELS FOR THE INSPECTION, ADJUSTMENT, OR REPAIR OF UTILITY SWITCHES, VALVES, SENSORS, ETC. MAY BE ALLOWED IF THE PANEL IS LESS THAN 300 SQUARE INCHES. SUCH PANELS SHALL ALSO HAVE A PERMANENT WARNING LABEL AS FOLLOWS:

      WARNING: 1. DO NOT CLIMB, WALK, OR CRAWL ON THE GYPSUM BOARD CEILING.
               2. DO NOT STORE OR STOW ANYTHING ON THE GYPSUM BOARD CEILING.

   e. ALL LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE ONE NO. 12 GAUGE SAFETY WIRE CONNECTED FROM FIXTURE HOUSING TO STRUCTURE ABOVE. IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO BE TAUT.

   f. ALL LIGHT FIXTURES WEIGHING GREATER THAN 10 LB BUT LESS THAN 56 LB. SHALL HAVE TWO NO. 12 GAUGE WIRE CONNECTED FROM FIXTURE HOUSING TO STRUCTURE ABOVE. IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO BE TAUT.

   g. ALL LIGHT FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE SUPPORTED DIRECTLY FROM STRUCTURE ABOVE BY APPROVED HANGERS.

   h. PENDENT-HUNG FIXTURES SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE USING NO LESS THAN NO. 9-GAUGE WIRE OR AN APPROVED ALTERNATE SUPPORT. THE CEILING SUSPENSION SYSTEM SHALL NOT PROVIDE ANY DIRECT SUPPORT.

   i. ALL RECESSED OR DROP-IN FIXTURES SHALL BE SUPPORTED DIRECTLY FROM FIXTURE HOUSING TO THE STRUCTURE ABOVE WITH A MINIMUM OF TWO NO. 12 GAUGE WIRES LOCATED AT DIAGONALLY OPPOSITE CORNERS. LEVELLING OR POSITIONING OF FIXURES MAY BE PROVIDED BY JOIST FRAMING. FIXTURE SUPPORT WIRES MAY BE SLIGHTLY LOOSE TO ALLOW THE FIXTURE TO SEAT IN THE JOIST FRAMING. FIXTURES SHALL NOT BE SUPPORTED FROM JOIST FRAMING IF THE WEIGHT OF THE FIXTURES CAUSES TOTAL DEAD LOAD TO EXCEED THE DEFLECTION CAPABILITY OF THE CEILING SUSPENSION SYSTEM.

OPD-0003-13
BY: M. R. Karim
DATE: 05/11/2017
REVIEWED FOR CODE COMPLIANCE
CALIFORNIA BUILDING CODE, 2013

Section Title : OSHPD STANDARD GYPSUM BOARD CEILING DETAILS	OPD No:
Sheet Title : JOISTED GYP BOARD CEILING GENERAL NOTES	CJ0.01

5/9/2017 9:07:27 AM

9. CEILINGS THAT ARE PART OF A FIRE RATED ASSEMBLY: PROVIDE A DETAIL AND DESIGN NUMBER FOR RATED CEILING ASSEMBLIES FROM AN APPROVED TESTING AGENCY. THE COMPONENTS AND INSTALLATION DETAILS CONFORM IN EVERY RESPECT WITH THE LISTED DETAIL AND NUMBER. DETAILS SHALL CLEARLY DEPICT ALL COMPONENTS, INCLUDING INSULATION MATERIALS, FRAMING AND ATTACHMENT OF THE DESIGN SO THAT THE ASSEMBLY CAN BE CONSTRUCTED AND INSPECTED ACCORDINGLY. POP RIVETS, SCREWS, OR OTHER ATTACHMENTS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS AND APPROVED BY APPROVED TESTING AGENCY.

METAL STUDS

1. COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2013 CBC SECTIONS 2210A AND 2211A.

2. ALL LIGHTGAGE METAL FRAMING SHALL CONFORM WITH THE FOLLOWING:
   (SEE GENERAL NOTE #4 FOR ADDITIONAL REQUIREMENTS)

GALVANIZED STUDS & TRACKS: 12 (97), 14 (68) OR 16 (54) GAGE (MILS)	ASTM A653-11, GR50 (Fy = 50,000 psi)
GALVANIZED STUDS & TRACKS: 18 (43) GAGE (MILS) AND LIGHTER SECTIONS	ASTM A653-11, GR 33 (Fy = 33,000 psi)
GALVANIZED BACKING PLATES:	ASTM A653-11, GR50 (Fy = 50,000 psi)
GALVANIZED END CLOSURES, BRIDGING AND ACCESSORIES:	ASTM A653-11, GR 33 (Fy = 33,000 psi)

MINIMUM STUD PROPERTIES SHALL BE PER GX1.40, TYP.

GYPSUM BOARD INSTALLATION

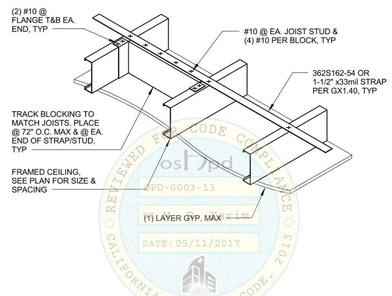
GYPSUM BOARD INSTALLATION SHALL COMPLY WITH ASTM C840-11:

1. GYPSUM BOARD SHALL CONSIST OF SINGLE-PLY ½" OR 5/8" THICK IN ACCORDANCE WITH ASTM C11-10a.
2. GYPSUM BOARD SHALL BE INSTALLED PERPENDICULAR TO FURRING WITH SCREWS AT 12" ON CENTER MAXIMUM, IN ACCORDANCE WITH ASTM C840-11.
3. GYPSUM BOARD SHALL BE ATTACHED TO FURRING/FRAMING WITH ASTM C1002-07 TYPE S (ASTM A568-11b GRADES 1018 TO 1022) SCREWS (NOT LESS THAN NO. 6, WITH MAJOR DIAMETER NOT LESS THAN 0.136 IN).

OPD-0003-13
BY: M. R. Karim
DATE: 05/11/2017
REVIEWED FOR CODE COMPLIANCE
CALIFORNIA BUILDING CODE, 2013

Section Title : OSHPD STANDARD GYPSUM BOARD CEILING DETAILS	OPD No:
Sheet Title : JOISTED GYP BOARD CEILING GENERAL NOTES	CJ0.02

5/9/2017 9:07:27 AM

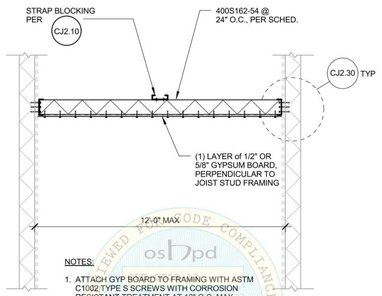


CEILING JOIST - FINISH ONE SIDE ONLY

OPD-0003-13
BY: M. R. Karim
DATE: 05/11/2017
REVIEWED FOR CODE COMPLIANCE
CALIFORNIA BUILDING CODE, 2013

Section Title : OSHPD STANDARD GYPSUM BOARD CEILING DETAILS	OPD No:
Sheet Title : JOISTED GYP BOARD CEILING BLOCKING DETAIL	CJ2.10

5/9/2017 9:07:27 AM



NOTES:

1. ATTACH GYP BOARD TO FRAMING WITH ASTM C1002 TYPE S SCREWS WITH CORROSION RESISTANT TREATMENT AT 12" O.C. MAX.
2. WHEN GYPSUM BOARD IS TO BE APPLIED TO BOTH CEILING AND WALLS, GYPSUM BOARD SHALL BE APPLIED FIRST TO THE CEILING AND THEN TO THE WALLS IN ACCORDANCE WITH ASTM C840.

JOIST GYP-BOARD CEILING SECTION

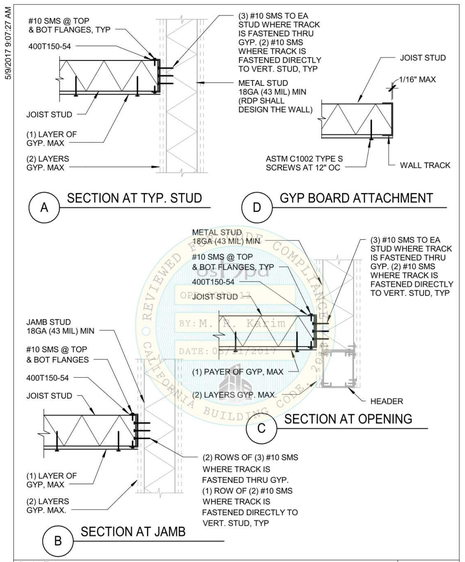
JOIST SPAN SCHEDULES

JOIST STUD SIZE	S_{DS} (g)	BRIDGING LOCATION	F_{in} ALLOWABLE FOR WALL DESIGN
SCHEDULE A - JOIST CONNECTION FASTENS THROUGH (2) LAYERS OF GYPSUM BOARD MAX			
400S162-54			
	1.15 < S_{DS} ≤ 1.73	MIDPOINT	9.9 plf

1. SEE CJ2.31 FOR TYPICAL 4'-1" x 2'-1" MAX OPENING IN JOISTED CEILING.

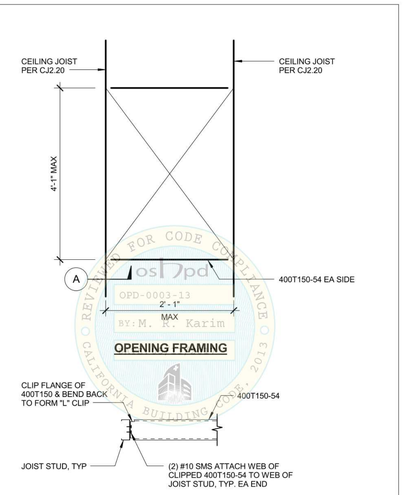
Section Title : OSHPD STANDARD GYPSUM BOARD CEILING DETAILS	OPD No:
Sheet Title : JOISTED GYP BOARD CEILING MAXIMUM SPANS	CJ2.20

5/9/2017 9:07:27 AM



Section Title : OSHPD STANDARD GYPSUM BOARD CEILING DETAILS	OPD No:
Sheet Title : JOISTED GYP BOARD CEILING CONNECTIONS	CJ2.30

5/9/2017 9:07:28 AM



A TYPICAL CONNECTION

Section Title : OSHPD STANDARD GYPSUM BOARD CEILING DETAILS	OPD No:
Sheet Title : JOISTED GYP BOARD CEILING AT OPENINGS	CJ2.31

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

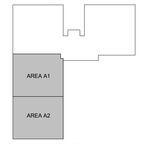
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39255
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

CEILING DETAILS - JOISTED GYP BOARD OPDS

DATE: APRIL 16, 2024

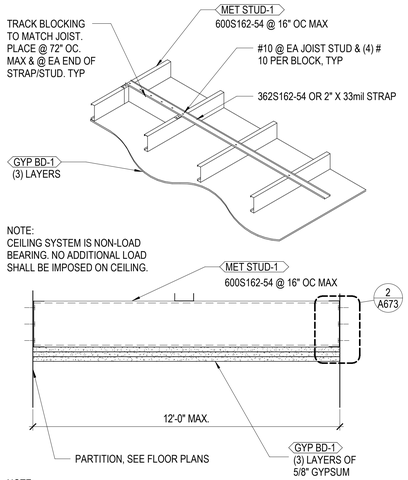
CONSTRUCTION DOCUMENTS

A672

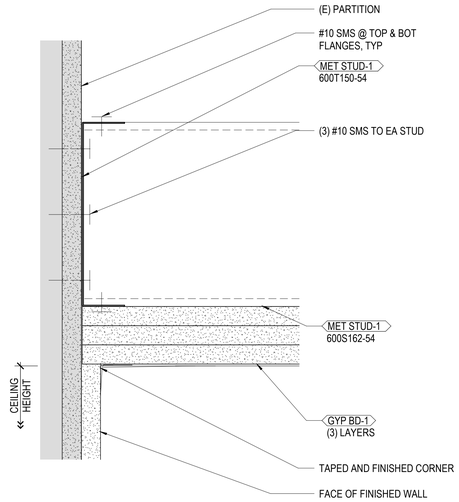
CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

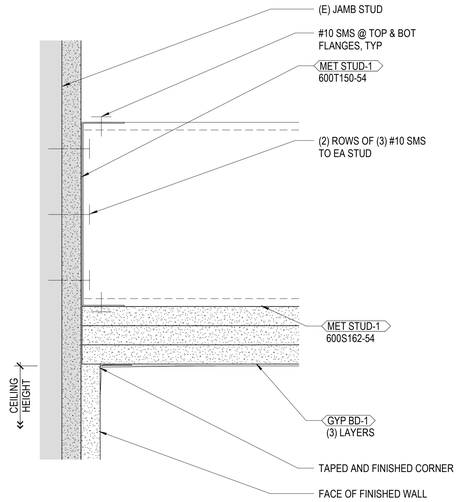
Author 4/29/2024 9:05:31 AM Autodesk Docs://Natividad Med Surg & Unit - 3707-016-00/A29-Natividad Med Surg & Unit - 3707-016-00.rvt



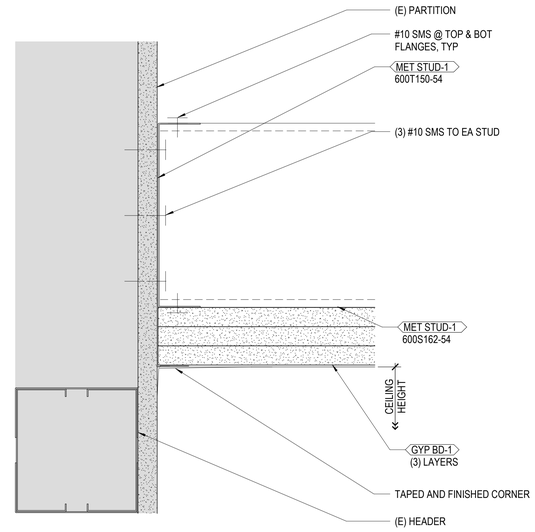
1 JOISTED GYPSUM BOARD CEILING (UL LISTING - I506)
1 1/2" = 1'-0"



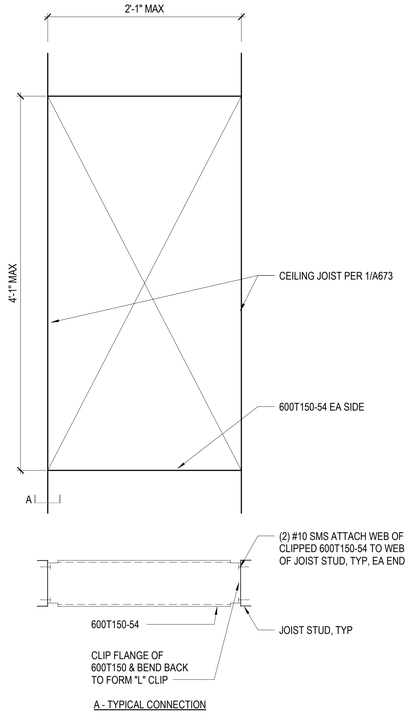
2 JOISTED GYPSUM BOARD CEILING AT WALL - SECTION @ TYP. STUD
6" = 1'-0"



3 JOISTED GYPSUM BOARD CEILING AT WALL - SECTION @ JAMB
6" = 1'-0"



4 JOISTED GYPSUM BOARD CEILING AT WALL - SECTION @ HEADER
6" = 1'-0"



5 JOISTED GYPSUM BOARD CEILING AT OPENINGS
1 1/2" = 1'-0"

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

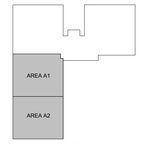
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER: S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

CEILING DETAILS - JOISTED GYP BOARD - 1HR RATED

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

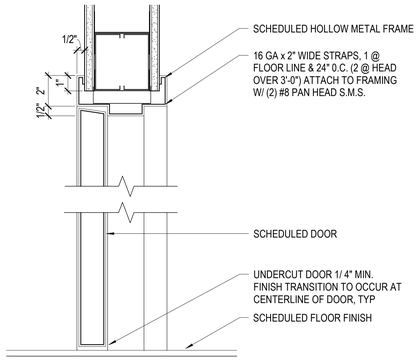
BC1

A673

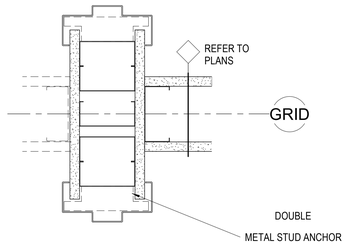
CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

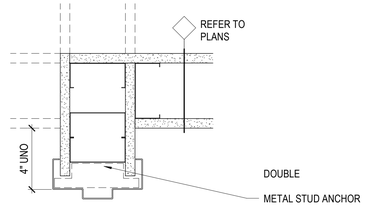
Author 12/15/2024 7:50:35 PM Autodesk Docs://Natividad Med Surg 3 Units 3707-016-00/A29 Natividad Med Surg 3 Units 3707-016-00.rvt



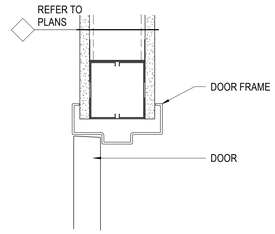
1 DOOR HEAD (JAMBS SIM) - HOLLOW METAL
3" = 1'-0"



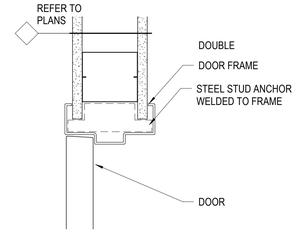
2 HM FRAME DETAILS - MET STUD PTN - JAMB
3" = 1'-0"



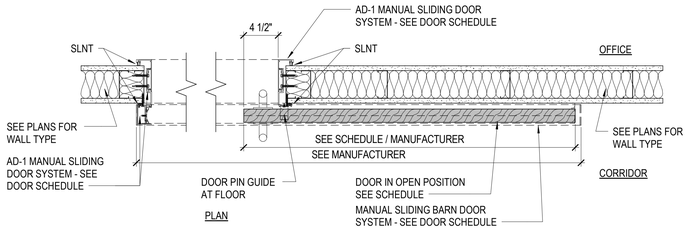
3 HM FRAME DETAILS - MET STUD PTN
3" = 1'-0"

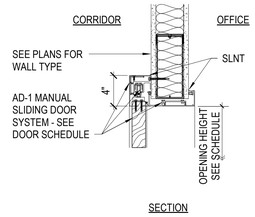


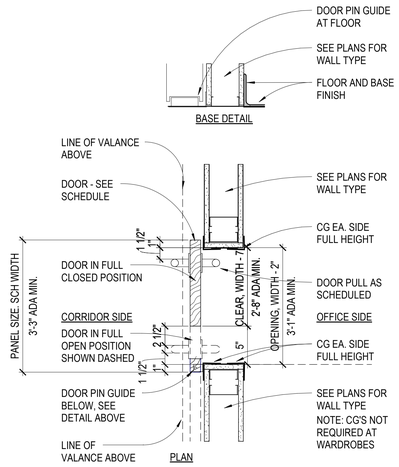
4 HM FRAME DETAILS - MET STUD PTN - HEAD
3" = 1'-0"

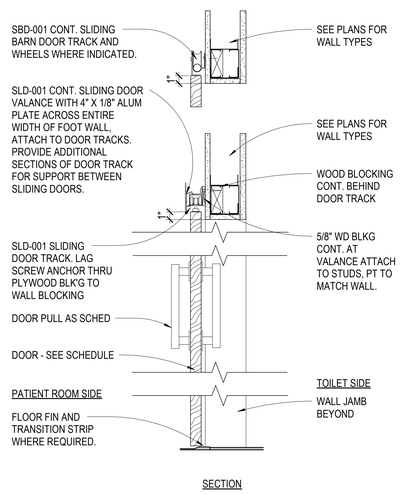


5 HM FRAME DETAILS - MET STUD PTN - JAMB
3" = 1'-0"









6 DOOR, SLIDING DETAILS
1 1/2" = 1'-0"

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

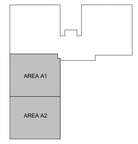
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S2405l93-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

OPENING DETAILS

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

A680

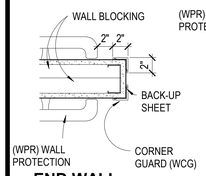
CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

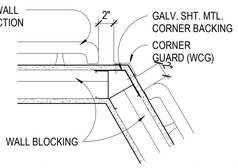
Author 4/29/2024 9:05:33 AM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/A29- Natividad Med Surg 3 Unit - 3707-016-00.rvt

CORNER GUARD AND CRASH, HAND, CHAIR RAIL DETAIL NOTES :

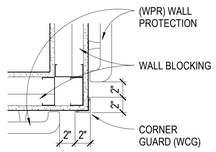
1. SEE PLANS FOR SPECIFIC CORNER GUARD AND WALL PROTECTION TYPES.
2. SHEET INTERIOR ELEVATIONS AND HANDRAIL/CRASHRAIL/BUMPER RAIL DETAIL FOR TYPICAL MOUNTING HEIGHTS.
3. SEE PLANS FOR PARTITION TYPES.
4. CORNER GUARD EXTEND FROM TOP OF WALL BASE TO 7' - 2" A.F.F., UNO
5. TYPES 1, 2 AND 3 ARE 90 DEGREE ANGLE TYPES. SEE ALSO PLANS AND MATERIAL ID CODES.
6. TYPES WITH A's ARE 45 DEGREE ANGLE TYPES.
7. TYPES WITH B's ARE 135 DEGREE ANGLE TYPES.
8. TYPES WITH C's ARE END WALL TYPES.



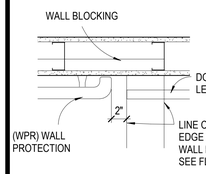
END WALL



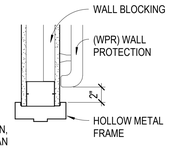
ANGLE WALL (135 DEG)



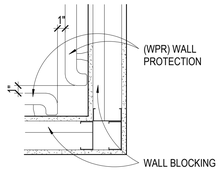
OUTSIDE CORNER (90 DEG)



DOOR END

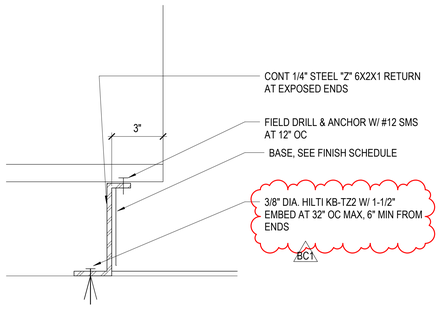


DOOR JAMB



INSIDE CORNER

1 WALL PROTECTION (WPR AND WCG) SETOUT DETAILS
1 1/2" = 1'-0"



2 LOCKER BASE
3" = 1'-0"

GENERAL NOTES - FINISH SCHEDULE

A. PTM DENOTES, PATCH AND REPAIR AS REQUIRED TO MATCH EXISTING FLOOR, WALL AND CEILING FINISHES/MATERIALS.
B. HOLLOW METAL DOORS AND FRAMES TO RECEIVE PT-1, UNO.
C. WOOD DOORS AND FRAMES TO BE WD-1, UNO.
D. CTW AND CTF GROUT LINES TO BE 1/8" WIDE, UNLESS NOTED OTHERWISE.
E. WALL PAINT PT-1, UNO.
F. GYPBOARD CEILINGS AND SOFFITS PT-1, UNO.
G. SEE CASEWORK GENERAL NOTES FOR TYPICAL CASEWORK CABINET AND COUNTERTOP TYPICAL FINISH, UNO.
H. WALL BRACKETS, COUNTERTOP BRACKETS, FIRE EXTINGUISHER CABINETS, FIN TUBE RADIATION UNITS, MECH. GRILLES AND ELECTRICAL PANELS NOT IN MECH. OR ELEC. ROOMS TO BE PT TO MATCH ADJACENT WALL SURFACE.
I. REFER TO WALL FINISH PLANS FOR WALL PROTECTION TYPES AND LOCATIONS.
J. PROVIDE WT-1 TO EXTERIOR WINDOWS UNO.
K. PROVIDE CORNER GUARDS WCG-1 FULL HEIGHT TO ALL OUTSIDE CORNERS IN HALLWAYS, EQUIPMENT, AND STORE ROOMS, UNO.
L. PROVIDE WALL PROTECTION TO ALL WALLS IN HALLWAYS, CRASH CART AND EQUIPMENT ALCOVES, UNO.
M. PROVIDE CTA-3 AT ALL EXTERIOR CTW CORNERS, PROVIDE SLNT AT ALL INTERIOR CTW CORNERS. SLNT TO MATCH GROUT COLOR.

SPECIFIC NOTES - FINISH SCHEDULE

1. ALCOVE OFF NURSE STATION - IF SO, FINISHES WILL MATCH.
2. CTW-1 ON PLUMBING WALLS AND ADJACENT WALLS WITHIN TOILET PARTITIONED AREAS, AS INDICATED ON DRAWINGS.
3. CTW-1, FULL HEIGHT ON WALLS SURROUNDING SHOWERS.
4. PROVIDE FRT WD-SHTG-1 BEHIND GYP BD TO DECK ABOVE.
5. FULL HEIGHT CTW-1.
6. RUBBER BASE AS REQUIRED ON GYP BD WALLS.
7. CTW-1 WAINSCOT TO 72" AFF WITH COORDINATING TRIM PEICES. PT ABOVE AS SCHEDULED.
8. REFER TO "I" SERIES DRAWINGS FOR FINISH INFORMATION.
9. 6" HIGH INTEGRAL COVE BASE.
10. COVE CEILING TO WALL.
11. PROVIDE RFT-1/RB-1 IN LOCKER ROOM AND CTF-1/CTB-1 IN TOILET ROOM.
12. WALLS TO RECEIVE CTW-1 WAINSCOT AS NOTED ON STANDARD DETAILS. CTW-2 AT TOP ROW OF WAINSCOT WALL FINISH EDGE. PT ABOVE AS SCHEDULED.
13. FRP WAINSCOT, 5'-0" HIGH AT GYP BD WALLS BEHIND AND ADJACENT TO CLINICAL SINK AND JANITOR RECEPTOR.

HGA

222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

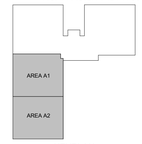
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

FINISH DETAILS

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

A690

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 12/15/2024 7:50:35 PM Autodesk Docs://Natividad Med Surg 3 Vista 3707-016-00/A29 Natividad Med Surg 3 Vista 3707-016-00.rvt

DOOR AND FRAME SCHEDULE

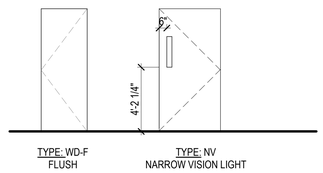
REV #	DOOR NUMBER	ROOM NAME	PANEL COUNT & WIDTH	PANEL HEIGHT	PANEL TYPE A	PANEL TYPE B	PANEL FINISH	PANEL GLAZING TYPE	FRAME TYPE	FRAME SIDELIGHT WIDTH	FRAME TRANSOM HEIGHT	FRAME FINISH	FRAME GLAZING TYPE	RATING	HDW GROUP	NOTES
LEVEL 03																
	01A.06A.27	SUP RN OFFICE	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--	BC1	32 GX	
BC1	01A.06A.60	EQUIPMENT STORAGE	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--	45	211.01 G	
	01A.06A.61	EQUIP RM.	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--	20	211.01 G	
	01A.06A.62	SOIL UTIL.	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--	20	211.01 G	
	01A.06A.63	BREAK ROOM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--	20	211.01 GX	
	01A.06A.64	OFFICE	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		32 G	
	01A.06A.65	ANTE RM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--	20	32 G	
	01A.06A.66	MEDS	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--	20	211.01 G	
	01A.06A.68	STAFF LOUNGE	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		11.02 G	
	01A.06A.69	STAFF LOUNGE	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--	20	211.01 G	
	01A.06A.70	COMM. RM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--	20	211.01 G	
	01A.06A.71	ELEC RM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--	20	34 G	
	01A.06A.72A	SUPPLY/MEDS ROOM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--	20	211.01 G	
	01A.06A.72B	SUPPLY/MEDS ROOM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--	20	211.01 G	
	01A.06A.73	SUPPLY PYXIS	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--	20	211.01 G	
BC1	01A.06A.74	CLEAN UTILITY	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--	45	211.01 GY	
	01A.06A.76	NUTRITION PANTRY/KITCHEN	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--	20	32 G	
	01A.06A.77A	WORK RM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--	20	32 G	
	01A.06A.77B	WORK RM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--	20	32 G	
	01A.06A.78	J.C.	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--	20	34 ADG	
	01A.06A.87	CNS OFFICE	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		32 G	
	01A.06A.88	WELLNESS ROOM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--	20	31.02 G	
	01A.06A.89	OFFICE SUPPLY ROOM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--	20	32 GY	
BC1	01A.80A.2	EQUIPMENT STORAGE	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--	45	211.01 G	
	311	SEMI-PRIVATE PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--	BC1	10 GY	
	311A	SEMI-PRIVATE PATIENT RM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 X	
	312	PRIVATE PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 GY	
	312A	PRIVATE PATIENT RM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 X	
	313	SEMI-(P) PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 GY	
	313A	SEMI-(P) PATIENT RM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 X	
	314	PRIVATE PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 GY	
	314A	PAT H/C TOILET/SHWR	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 X	
	315	SEMI-(P) PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 G	
	315A	SEMI-(P) PATIENT RM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 X	
	316	PRIVATE PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 GY	
	316A	PAT H/C TOILET/SHWR	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10	
	317	SEMI-(P) PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 GY	
	317A	SEMI-(P) PATIENT RM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 X	
	318	PRIVATE PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 GY	
	318A	PAT H/C TOILET/SHWR	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10	
	319	SEMI-(P) PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 GY	
	319A	SEMI-(P) PATIENT RM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 X	
	320	PRIVATE PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 GY	
	320A	PRIVATE PATIENT RM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 X	
	321	SEMI-(P) PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 GY	
	321A	SEMI-(P) PATIENT RM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 X	
	322	SEMI-(P) PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 GY	
	322A	SEMI-(P) PATIENT RM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 X	
	323	SEMI-(P) PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 GY	
	323A	SEMI-(P) PATIENT RM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 X	
	324	SEMI-(P) PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 GY	
	324A	SEMI-(P) PATIENT RM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 X	
	325	SEMI-(P) PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 GY	
	325A	SEMI-(P) PATIENT RM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 X	
	326	PRIVATE PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 GY	
	326A	PAT H/C TOILET/SHWR	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 G	
	327	SEMI-(P) PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 GY	
	327A	SEMI-(P) PATIENT RM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 X	
	328	PRIVATE PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 GY	
	328A	PRIVATE PATIENT RM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 X	
	329	IMC PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		30 GY	
	329A	IMC PATIENT RM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 X	
	329B	ANTE RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		30 GY	
	330	IMC PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		30 GY	
	330A	IMC PATIENT RM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 X	
	330B	ANTE RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		30 GY	
	331	SEMI-(P) PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 GY	
	331A	SEMI-(P) PATIENT RM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 X	
	332	SEMI-(P) PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 GY	
	332A	SEMI-(P) PATIENT RM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 X	
	333	SEMI-(P) PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 GY	
	333A	SEMI-(P) PATIENT RM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 X	
	334	IMC PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		30 GY	
	334A	IMC PATIENT RM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 X	
	334B	ANTE RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		30 GY	
	335	IMC PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		30 GY	
	335A	IMC PATIENT RM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 X	
	335B	ANTE RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		30 GY	
	336	IMC PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		30 GY	
	336A	PAT IMC TOILET/SHWR	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 X	
	336B	ANTE RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		30 GY	
	337	IMC PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		30 GY	
	337A	PAT IMC TOILET/SHWR	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 X	
	337B	ANTE RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		30 GY	
	338	SEMI-(P) PATIENT RM	(1) 4' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 GY	
	338A	SEMI-(P) PATIENT RM	(1) 3' - 0"	7' - 0"	F	--	HM	--	HM-002	0' - 0"	0' - 0"	SP-2	--		10 X	

DOOR ASSEMBLY SCHEDULE

REV #	DOOR NUMBER	ROOM NAME	WIDTH	HEIGHT	ASSEMBLY TYPE	DOOR PANEL FINISH	DOOR PANEL GLAZING TYPE	FRAME FINISH	FRAME GLAZING TYPE	RATING	HDW GROUP	NOTES
BC1	300	OFFICE	4' - 0"	7' - 0"	SD-4	WD-1	--	SP-2	--	-	7.02	

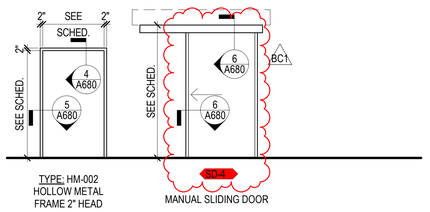
PANEL TYPES

REFER TO SCHEDULE FOR MATERIALS AND FINISHES



FRAME TYPES

REFER TO SCHEDULE FOR MATERIALS AND FINISHES



A. NOT ALL DOOR AND FRAME TYPES SHOWN HERE MAY BE USED IN THIS PROJECT.

B. REFER TO DOOR AND FRAME SCHEDULE, SEE DOOR ELEVATIONS AND DETAILS FOR FRAME TYPE, FRAME WIDTH AND RELATED DOOR GLAZING INFORMATION.

C. PROVIDE TEMPERED GLASS AT LOCATIONS INDICATED AND AS REQUIRED TO COMPLY WITH APPLICABLE CODES.

D. REFER TO PLANS FOR INTERIOR PARTITION TYPES AND EXTERIOR WALL TYPES.

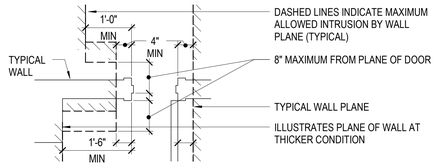
E. GROUT SOLID HOLLOW METAL FRAMES AT MASONRY PARTITIONS.

F. REFER TO DOOR AND FRAME SCHEDULE FOR FRAME WIDTHS AND FOR DOOR INFORMATION.

G. . WHERE FIRE-RATED PARTITIONS INTERSECT ANOTHER FIRE-RATED OR NON-RATED PARTITION, MAINTAIN HIGHER-RATED ASSEMBLY CONTINUITY ACROSS INTERSECTION.

1 DOOR AND FRAME GENERAL NOTES

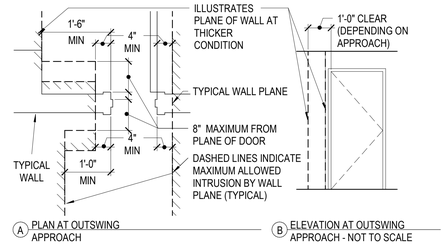
1'-0"=1'=0"



NOTE: AT NARROW CONDITIONS THE SETBACKS INCREASE DUE TO LACK OF WHEELCHAIR MOBILITY AREA - REFER TO ADA.

2 DOOR MANEUVERING CLEARANCES INSWING APPROACH

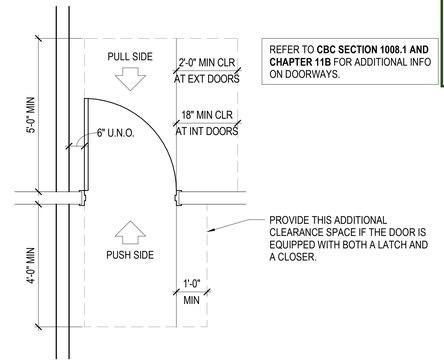
3/4" = 1'-0"



NOTE: AT NARROW CONDITIONS THE SETBACKS INCREASE DUE TO LACK OF WHEELCHAIR MOBILITY AREA - REFER TO ADA.

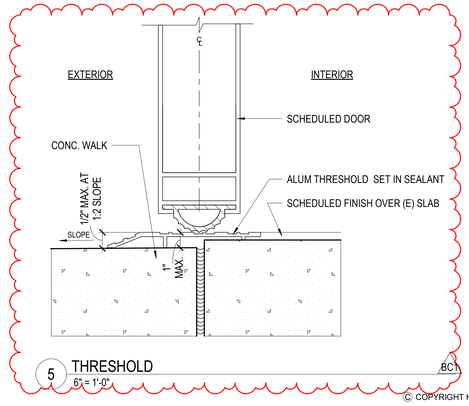
3 DOOR MANEUVERING CLEARANCES OUTSWING APPROACH

3/4" = 1'-0"



4 DOOR LOCATION & CLEARANCES

1/2" = 1'-0"



5 THRESHOLD

6" = 1'-0"

BC1

HGA

222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

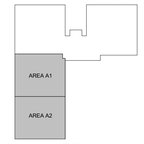
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39255
JUNE 30, 2026
RENEWAL DATE
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

DOOR SCHEDULE

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

A700

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

12/16/2024 7:50:35 PM Autodesk Docs://Natividad Med Samp 3 Unit - 3707-016-00/A22- Natividad Med Samp 3 Unit - 3707-016-00.rvt

00 - UL LISTING TABLE OF CONTENTS - (INDIVIDUAL ULs CAN BE FOUND IN THE PROJECT MANUAL - APPENDIX B)

02 - WALL...

			RATINGS			
REV.	LISTING	F	-	-	DESCRIPTION	PROPRIETARY MFR
	V497	1,2			WALL - NONBEARING	
	U419	1, 2, 3, 4			WALL - NONBEARING	
	U465	1			WALL - NONBEARING	

03 - HEAD OF WALL ASSEMBLIES

			RATINGS			
REV.	LISTING	F	-	L*	DESCRIPTION	PROPRIETARY MFR
	HW-D-0045	1,2	-	-	WALL PERP TO DECK	HILTI
	HW-D-0084	1,2	-		WALL TO DECK	HILTI
	HW-D-0259	1,2		>1 CFM/LIN FT	WALL II TO BEAM, ALIGNED	HILTI
	HW-D-0299	1,2		>1 CFM/LIN FT	WALL PERP. TO BEAM	RECTORSEAL
	HW-D-0388	1,2		>1 CFM/LIN FT	WALL II TO BEAM, 0" TO 4" GAP	HILTI
	HW-D-0634	1,2		>1 CFM/LIN FT	WALL II TO BEAM, 0" TO 12" GAP	HILTI

04 - BOTTOM OF WALL ASSEMBLIES

			RATINGS			
REV.	LISTING	F	-	L*	DESCRIPTION	PROPRIETARY MFR
	BW-S-0002	1,2		>1 CFM/LIN FT	WALLS	HILTI

05 - CEILING MEMBRANES

			RATINGS			
REV.	LISTING	F	-	-	DESCRIPTION	PROPRIETARY MFR
	I506	1,2		-	CEILING - NONBEARING	

06 - PENETRATION FIRE STOPPING

			RATINGS				
REV.	LISTING	F	T	L*	DESCRIPTION	PROPRIETARY MFR	MAX OPENING
	C-AJ-1291	2	0	-	METALLIC PIPE OR TUBING	HILTI	30-7/8" DIA.
	C-AJ-1406	2	0	>1 CFM/SQ FT	MULTIPLE CONDUIT, TUBING, & PIPING	RECTORSEAL	15 1/4" DIA.
	C-AJ-1575	2,3	0	-	METAIL PIPE, TUBING, & CONDUIT	HILTI	30 7/8" DIA.
	CP617	1,2	-	-	FIRESTOP BOX INSERT & PUTTY PADS	HILTI	-
	F-A-1119	2	0	>1 CFM/SQ FT	METAIL PIPE, TUBING, & CONDUIT	HILTI	10 5/8" DIA.
	F-B-1032	3	0	-	WASTE/OVERFLOW/DRAIN FITTING	HILTI	
	W-L-003	1,2	1,2	-	EMPTY HOLE	HILTI	240 SQ IN/20" MAX WIDE DIM
	W-L-0040	1,2	0,1.75	-	EMPTY HOLE	HILTI	2-1/2" DIA/4" MAX AREA WITH 2" MAX...
	W-L-1054	1,2	0	>1 CFM/SQ FT	METAL PIPE & CONDUIT	HILTI	32 1/4" DIA.
	W-L-1228	1,2	0, .5, 1	>1 CFM/SQ FT;...	METAL CONDUIT & EMT	HILTI	67 1/2 SQ IN / 22.5"
	W-L-1243	1,2	0.5	-	MULTIPLE RIGID CONDUIT OR EMT	HILTI	360 SQ IN/ 30"
	W-L-1290	1,2	0	>1 CFM/SQ FT	METAL PIPE/CONDUIT (4" MAX DIA)	HILTI	5" DIA
	W-L-1297	1,2	0	>1 CFM/SQ FT	METAL PIPE, TUBING, & CINDUIT	HILTI	32" DIA.
	W-L-1359	1,2	0.25		IRON PIPE W/ COMPRESSION FITTING	HILTI	8" DIA.
	W-L-1380	1,2	0	-	METAL PIPE, TUBE, CONDUIT @ SHAFTWALL	HILTI	9.5" DIA.
	W-L-1410	1,2	0	-	METAL PIPE/CONDUIT PENETRATIONS ONE SIDE	HILTI	5" DIA.
	W-L-1464	1,2	0,1.5	-	FLEXIBLE METAL CONDUIT (1-6)	HILTI	5.5" DIA.
	W-L-1506	1,2	1,2	>1 CFM/OPENING	METAL PIPE, TUBE, CONDUIT (3/4" MAX DIA.)	HILTI	1" DIA./1"
	W-L-2078	1,2	0,1,2	3 CFM/SQ FT; >1...	NONMETALLIC PIPE	HILTI	11.5" DIA.
	W-L-2568	1,2	0,1	-	OPTICAL FIBER RACEWAY ASSEMBLY (3" MAX DIA.)	HILTI	5-1/2" DIA.
	W-L-3065	1, 2	0, .75	15 CFM/SQ FT;...	CABLE BUNDLE, STRAIGHT OR ANGLED	HILTI	W/SLEEVE - 5-1/2" DIA.; W/O SLEEVE 4"...
	W-L-3310	1,2	0	-	3/C (W/ GROUND) NO. 8 AWG BARE COPPER GROUND METAL CLADCABLES W/ PVC JACKET (3 MAX)	HILTI	3" DIA.
	W-L-3385	1,2,3	0	-	CABLE BUNDLE (45% MAX AGGREGATE OF...	HILTI	4" DIA.
	W-L-4019	1, 2	0	-	CABLE TRAY	HILTI	216 SQ. IN. / 24"
	W-L-5029	1, 2	0, .5, 1, 1.25	4 CFM/SQ FT; >1...	METAL PIPE W/ INSULATION	HILTI	18-5/8" DIA.
	W-L-5046	1,2	0,1	-	METALLIC PIPE/TUBE W/ COVER	HILTI	22" DIA.
	W-L-5047	1,2	0,1.5	-	METALLIC PIPE/TUBE W/ INSULATION	HILTI	30" DIA.
	W-L-5257	1,2	0,1	4 CFM/SQ FT; >1...	METAL PIPE W/ INSULATION	HILTI	8" DIA.
	W-L-7040	1, 2	0	>1 CFM/SQ FT	RECTANGULAR DUCT	HILTI	1300 SQ. IN. / 50"
	W-L-7042	1, 2	0	-	ROUND DUCT	HILTI	21-3/4" DIA.
	W-L-7130	1, 2	0	-	STEEL STRUT, CABLE, THREADED ROD OR ANGLE	HILTI	15 SQ. IN. / 5" OR 3" DIA.
	W-L-7153	1,2	0.75	> 1CFM/SQ FT	CIRCULAR DUCT W/ INSULATION	HILTI	SPIRAL WOUND HVAC DUCT - 20" DIA,...
	W-L-7154	1,2	0	-	METALLIC STRUT, STEEL ANGLE, OR CHANNEL	HILTI	8.6 S. IN./6-7/8"
	W-L-7155	1, 2	0	>1 CFM/SQ FT	RECTANGULAR DUCT	HILTI	73 SF / 104"
	W-L-7156	1, 2	0	-	RECTANGULAR DUCT W/ INSULATION	HILTI	76.2 SQ FT / 105.5"
	W-L-7214	1,2	-	-	CIRCULAR DUCT	HILTI	SPIRAL WOUND HVAC DUCT - 20" DIA,...
	W-L-8079	1, 2	0, .5, .75, 1.5...	-	MULTIPLE CONDUIT, BARE & INSULATED PIPE/TUBING, ...	HILTI	240 SQ. IN. / 20"

***L-RATING LISTED AMBIENT/400 f; LESS RATING IS SAME FOR BOTH**

HGA

222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET,
SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET,
SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA
95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-29256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

UL LISTINGS

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

BC1

A740

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 12/15/2024 7:59:37 PM Autodesk Docs://Natividad Med Scan 9.1/on...3707-016-00 HGA 2.rvt Natividad Med Scan 9.1/on...3707-016-00.rvt

REVISION	ROOM#	ROOM NAME	QTY	TAG	DESCRIPTION	MANUFACTURER	MODEL NO	RESP	MOUNTING	MECHREQ	WIDTH (IN.)	HEIGHT (IN.)	DEPTH (IN.)	DIA (IN.)	WEIGHT (LBS)	VOLTS	AMPS	WATTS	PHASE	BTU/HR	DED CKT	NEMA	DATA LINE	SEISMIC	FACILITY SVCS	BIOMED	TECH REVIEW	MINOR ASSEMBLY	MINOR INSTALL	EXIST	DETAILED DESCRIPTION
BC1				BD-1	BED, ELECTRIC, CRITICAL CARE	HILL-ROM	CENTRELLA	OFOI	MOBILE		40	32.5 (MAX)	98.7 (MAX)		150																	
BC1				MW-1	WOW CART COMPUTER WORKSTATION			OFOI	MOBILE																						
BC1				HS-1	HAMPER STAND			OFOI	MOBILE																						
BC1				IV-1	IV STAND			OFOI	MOBILE																						
BC1				VS-1	VITAL SIGN			OFOI	WALL/ (ST5.00/A663.3)																						
BC1				VM-1	VITALS SIGN MACHINE	MASIMO	ROOT	OFOI	MOUNTED TO VM-2		11	10.5	5.5		<8																	
BC1				VM-2	VARIABLE HEIGHT WALL MOUNT	GCX	VHM-25	OFCI	WALL/ (ST5.00/A663.3)		4	19	2		3 (MAX)																	
BC1				TV-1	TV MONITOR, 32"	SAMSUNG	HG32NB673BF	OFOI	MOUNTED TO AV EQ-1		29	17.1	1.9		<10																	
BC1				AV EQ-1	WALL BRACKET FOR 32" MONITOR			OFCI	WALL, SEE 4/S2.02		-	-	-		20 (MAX)																	
BC1				WS-1	COMPUTER WORKSTATION UNIT; WALL-MOUNTED	PROXIMITY SYSTEM	Embrace EXT-28-INT Wall Mounted Computer Workstation Unit	VFCI	WALL, SEE 2/S2.02		28.125	37.25	4		100 (MAX)																	
BC1				DF-1	DRINKING FOUNTAIN/BOTTLE FILLING STATION	ELKAY	ELKAY EZH2O (EZWS-EDFPBM114K)	VFCI	WALL, SEE 1/S2.02		19.75	35	19		118																	
BC1				RF-1	REFRIGERATOR	KENMORE	253.6041241	OFCI	WALL, SEE 5/S2.02		29.5	67	33.5		800 (MAX)																	
BC1				LKR-1	LOCKER, 5 TIERS	ASI	TRADITIONAL COLLECTION	OFCI	WALL, SEE 6/S2.02		12	72	18		300 (MAX)																	

BC1

HGA

222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

EQUIPMENT SCHEDULE

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

A730

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 12/15/2024 7:59:35 PM Autodesk Docs://Natividad Med Scan 9 Unit - 3707-016-00/429 Natividad Med Scan 9 Unit - 3707-016-00.rvt

GENERAL NOTES

GENERAL
A. REFER TO ARCHITECTURAL SPECIFICATIONS FOR ALL SUBMITTAL AND/OR MOCKUP GUIDELINES AND REQUIREMENTS.
B. CONTACT GALLUN SNOW FOR CLARIFICATION IN THE EVENT OF CONTRADICTORY INFORMATION BETWEEN DRAWINGS, LEGEND, AND/OR SPECIFICATIONS.
C. REFER TO FINISH (SCHEDULE, PLAN) FOR GENERAL FINISHES. REFER TO ALL SPECIFICATIONS AND INTERIOR DRAWINGS (INCLUDING PLANS, ELEVATIONS, AND DETAILS) FOR COMPLETE INTERIORS INFORMATION.
D. ALL SURFACES REQUIRE NEW FINISHES UNO. IF COLOR OR FINISH IS NOT SPECIFIED, CONTACT GALLUN SNOW FOR CLARIFICATION.
E. DO NOT SCALE DRAWINGS.

DEMOLITION
A. REMOVE EXISTING ARTWORK, SIGNAGE, AND WALL MOUNTED ACCESSORIES WITHIN THE PROJECT SCOPE AND RETURN TO OWNER FOR STORAGE PRIOR TO DEMOLITION.
B. REMOVE COMPLETELY FROM THE JOB SITE ALL MATERIALS SPECIFIED FOR DEMOLITION AND NOT NOTED TO BE RETURNED TO OWNER.
C. REPLACE ANY ITEM DEMOLISHED OR DAMAGED BY DEMOLITION AND NOT SPECIFIED FOR DEMOLITION WITH A LIKE ITEM AS APPROVED BY OWNER AT NO ADDITIONAL COST.
D. PROTECT ALL EXISTING FLOOR, WALL, DOOR, AND CEILING FINISHES TO REMAIN. REPAIR ANY DAMAGE AS A RESULT OF DEMOLITION OR CONSTRUCTION.
E. REMOVE EXISTING FLOORING, ADHESIVE, AND MASTIC AT ALL EXISTING FLOOR SCHEDULED FOR DEMOLITION. PATCH AND PREP SUBFLOOR TO MEET MANUFACTURER'S REQUIREMENTS FOR NEW FLOORING MATERIALS. FLOAT SUBFLOOR AS NECESSARY TO ALIGN FINISHED SURFACE BETWEEN NEW FLOORING AND EXISTING TO REMAIN.

FLOORING
A. ALIGN TRANSITION OF FLOOR MATERIAL WITH CENTER OF HINGE IN DOORWAY. IN A WRAPPED OPENING WITHOUT HINGES RE: FINISH PLANS FOR TRANSITION LOCATION.
B. HEAT WELD ALL RESILIENT SHEET FLOORING SEAMS AND SEAL.
C. PROVIDE COLOR MATCH HEAT WELD RODS FOR EACH SHEET RESILIENT FLOOR AS SPECIFIED IN FINISH LEGEND.
D. INSTALL DIRECTIONAL FLOORING ORIENTED AS SPECIFIED IN THE FINISH PLAN.
E. CENTER TILE LAYOUT IN EACH ROOM. DO NOT INSTALL LESS THAN A 1/2 TILE.

WALL BASE
A. PROVIDE 6" HIGH RUBBER COVE BASE UNO.
B. PROVIDE 6" HIGH INTEGRAL COVE BASE TO MATCH ADJACENT SHEET FLOORING WITH STAINLESS STEEL TOP CAP AND MECHANICALLY FASTENED CORNERS, BNT METALS #6450-IC (INSIDE CORNER) AND #6450-OC (OUTSIDE CORNER).
C. PROVIDE CONTINUOUS LENGTH OF RUBBER BASE WITH FIELD FORMED OUTSIDE CORNERS.
D. PROVIDE ALL AVAILABLE CERAMIC TILE TRIM PIECES - COVE, BULLNOSE, INSIDE/OUTSIDE CORNERS, ETC.
E. PROVIDE SOLID MAPLE HARDWOOD FOR ALL SPECIFIED MILLWORK TRIM.

WALLS AND DOORS
A. PROVIDE WALL FINISHES FROM LOWER TO HIGHER IN THE ORDER LISTED.
B. PROVIDE MITERED END CAPS AT ALL MILLWORK TRIM. CONTINUE ANY ROUTED DETAIL ON ALL PERIMETER EDGES.
C. PROVIDE FULL HEIGHT WALL TILE IN ALL SHOWER SURROUNDS. RE: ELEVATIONS FOR WALL TILE PATTERN.
D. CENTER TILE LAYOUT ON EACH WALL. DO NOT INSTALL LESS THAN A 1/2 TILE.
E. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL WALL FINISH INFORMATION.
F. PAINT ALL METAL DOORS, VISION PANEL, SIDELIGHT, AND WINDOW AND DOOR FRAMES SP2 UNO.
G. REFER TO ARCHITECTURAL SPECIFICATIONS FOR DEFINITION OF GLOSS RANGE ON THE FOLLOWING PAINT SHEENS:
   a. PROVIDE EGGSHELL FINISH UNO. (P-X)
   b. PROVIDE EPOXY SEMI GLOSS FINISH IN ISOLATION ROOMS, ANTE ROOMS, EVS AND RESTROOMS. (EP-X)
   c. PROVIDE ACRYLIC SEMI GLOSS FINISH FOR ALL PAINTED METAL. (SP-X)
H. PROVIDE WALL BLOCKING FOR ALL CABINETRY AND SYSTEMS FURNITURE. RE: ELEVATION AND FURNITURE PLANS FOR LOCATIONS AND EXTENT.
I. PATCH AND PREP ALL EXISTING WALLS TO REMAIN FOLLOWING DEMOLITION. CONFIRM EQUIPMENT MOUNTING HEIGHTS WITH DESIGNER/OWNER PRIOR TO RE-INSTALL.
J. PAINT METAL GRILLES, WALL DIFFUSERS, ELECTRICAL PANELS, ACCESS PANELS, ETC WHICH ARE EXPOSED IN FINISHED SPACES TO MATCH THE SURFACE ON WHICH THEY OCCUR.
K. PAINT ALL WALLS P-1 UNO.

CEILINGS
A. EXISTING CEILING TILES AND GRID TO REMAIN. AT DAMAGED OR STAINED CEILING TILES REPLACE WITH TILES TO MATCH SAT-1.
B. PAINT SOFFITS P-1 UNO. PAINT UNDERSIDE AND FACE OF SOFFIT AS SCHEDULED.
C. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL SOFFIT AND CEILING FINISH INFORMATION.
D. PAINT ALL GYP. CEILINGS PT-1 UNO.
E. PAINT ALL OPEN STRUCTURE CEILINGS INCLUDING ALL EXPOSED COMPONENTS P-1 UNO.

CASEWORK
A. PROVIDE SOLID SURFACE COUNTER TOPS WITH INTEGRAL BACKSPLASH AT ALL SINK COUNTERS.
B. CAULK COUNTERS WHERE THEY ABUT WALLS WITH CLEAR CAULK.
C. PROVIDE LAMINATE PL-1 AT VERTICAL BASE, EXPOSED SHELVES, AND WALL CABINETS UNO.
D. PROVIDE 3MM MATCHING EDGE BANDING ON ALL DOOR AND DRAWER FRONT EDGES IN THE COLORS SPECIFIED UNO.
E. PROVIDE 3MM MATCHING EDGE BANDING ON ALL COUNTERTOP EDGES IN THE COLORS SPECIFIED UNO.
F. PROVIDE WHITE MELAMINE AT SEMI-EXPOSED CASEWORK INTERIORS, AS DEFINED BY AWI STANDARDS, UNO.
G. PROVIDE LAMINATE PL-1 AT ALL EXPOSED CASEWORK INTERIORS UNO.
H. PROVIDE SOLID SURFACE COUNTER TOPS WITH INTEGRAL BACKSPLASH AT ALL PATIENT ROOM COUNTERS.

SPECIALTIES
A. PROVIDE BLOCKING AT ALL WALLS SCHEDULED FOR WALL HUNG EQUIPMENT, SYSTEMS FURNITURE, FLIP DOWN CHARTING, LARGE MARKER OR TACK BOARDS, ETC. RE: ARCH. ELEVATIONS, EQUIPMENT AND FURNITURE PLANS.
B. ALL FURNITURE (EQUIPMENT) IS OF/OI UNO.
C. ALL EXISTING HANDRAIL AND CORNER GUARDS TO REMAIN IN CORRIDORS. REMOVE, CLEAN, AND REINSTALL AFTER PAINTING AND WALL PROTECTION INSTALLATION. PROVIDE NEW TO MATCH EXISTING WHERE DAMAGED OR MISSING.
D. PROVIDE FULL HEIGHT CORNER GUARDS UNO. INSTALL ABOVE WALL BASE. RE: FINISH PLANS FOR LOCATIONS.
E. INSTALL WALL PROTECTION PANELS ABOVE WALL BASE. RE: FINISH PLANS FOR EXTENT AND LEGEND FOR COLORS AND HEIGHT.
F. WHERE WALL PROTECTION PANELS OCCUR ON A WALL THAT HAS CONTROL JOINTS, ALIGN WALL PROTECTION JOINTS WITH CONTROL JOINTS.
G. WHERE A WALL SCHEDULED FOR WALL PROTECTION PANELS IS TOO SHORT TO ACCOMMODATE A CORNER GUARD, PROVIDE INSIDE AND OUTSIDE CORNER TRIM PIECES PER DETAIL 7/I-200.
H. PROVIDE WALL PROTECTION OF ANY ONE COLOR FROM A SINGLE MANUFACTURER.
I. CONFIRM ANY WALL SCHEDULED FOR HANDRAIL AND LESS THAN 2'-0" WIDE WITH ARCHITECT/DESIGNER PRIOR TO ORDER.
J. PROVIDE TRIM (J, T, TOP CAP, INSIDE /OUTSIDE CORNER, ETC.) AT WALL PROTECTION PANELS UNO.

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
CC	CUBICLE CURTAIN
CG	CORNER GUARD
CL	CENTER LINE
CLG	CEILING
CLG HT	CEILING HEIGHT
CLR	CLEAR
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
CTF	CERAMIC TILE (FLOOR)
CTW	CERAMIC TILE (WALL)
DEMO	DEMOLITION
DIA	DIAMETER
DIM	DIMENSION
EP	EPOXY PAINT
EQ	EQUAL
EXIST	EXISTING
FEC	FIRE EXTINGUISHER CABINET
FF&E	FURNITURE, FIXTURE AND EQUIPMENT
FR	FIRE RESISTANT
FURN	FURNITURE
GC	GENERAL CONTRACTOR
GT	GROUT
GYP	GYPSUM BOARD
HDWL	HEADWALL
HR	HANDRAIL
IB	INTEGRAL BASE
LB	LINER BAR
LF	LINEAR FEET (FOOT)
ME	MATCH EXISTING
MFR	MANUFACTURER
MLWK	MILLWORK
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OTS	OPEN TO STRUCTURE
P	PAINT
PL	PLASTIC LAMINATE
RB	RUBBER BASE / RESILIENT BASE
RCP	REFLECTED CEILING PLAN
RE	REFERENCE
RF	RESILIENT FLOORING
SAT	SUSPENDED ACOUSTICAL TILE
SC	SEALED CONCRETE
SF	SQUARE FEET (FOOT)
SIM	SIMILAR
SP	SEMI GLOSS PAINT
SS	SOLID SURFACE
SST	STAINLESS STEEL
TBD	TO BE DETERMINED
TS	THRESHOLD
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
WP	WALL PROTECTION

FINISH LEGEND

FLOORING AND WALL BASE

CERAMIC TILE BASE
CTB-1 CROSSVILLE, COLOR BLOX 2.0, 12" X 24" CUT TO 6" X 24" X 9.5MM THICK, SANDBOX, 1/8" GROUT JOINT, EPOXY GROUT: MAPEI HARVEST #06 (PATIENT RESTROOM), RE: 12/I-200

CERAMIC TILE (FLOOR)
CTF-1 CROSSVILLE, COLOR BLOX 2.0, 12" X 24" X 9.5MM THICK, MUD PIE, 1/8" GROUT JOINT, EPOXY GROUT: MAPEI MOCHA #42, INSTALLATION 33% OFFSET, REFER TO FLOOR PATTERN PLANS FOR DIRECTION, RE: 3/I-200 (PATIENT RESTROOM)

INTEGRAL BASE
IB-6 6" HIGH INTEGRAL BASE TO MATCH ADJACENT FLOORING, RE: 4/I-200

RUBBER BASE/ RESILIENT BASE
RB-1 MANNINGTON, BURKE, 6" HIGH COVED BASE, COLOR: 508 TWEED

RESILIENT FLOORING
RF-1-4 NOT USED

RF-5 MANNINGTON, BIOSPEC ARMOR, ROLL GOODS, 0.100" THICK, HAYSTACK OR119, HEAT WELD COLOR 842485 BONE BEIGE (ACCENT)

RF-6-8 NOT USED

RF-9 MANNINGTON, BIOSPEC ARMOR, ROLL GOODS, 0.100" THICK, BREEZY OR122, HEAT WELD COLOR 842339 SPRUCE (FIELD)

RF-10 MANNINGTON, BIOSPEC ARMOR, ROLL GOODS, 0.100" THICK, PISTACHIO OR110, HEAT WELD COLOR 842333 SAGE (PATIENT ROOMS)

THRESHOLD
TS-1 NOT USED

TS-2 GRIF-FORM INNOVATIONS SOLID SURFACE THRESHOLD, TCT6, COLOR: SAHARA

WALLS

CERAMIC TILE (WALL)
CTW-1 CROSSVILLE, COLOR BLOX 2.0, 12" X 24" X 9.5MM THICK, SANDBOX, 1/8" GROUT JOINT, EPOXY GROUT: MAPEI HARVEST #06, RE: 13/I-200 & 14/I-200 (PATIENT RESTROOM)

LINER BAR
LB-1 CROSSVILLE, EBB AND FLOW LINEAR MOSAIC, 12" x 13" SHEET, 0.25" THICK, TO BE CUT TO SIZE, STICKS AND STONES EF07, 1/8" GROUT JOINT, GROUT: MAPEI HARVEST #06, RE: 14/I-200 (PATIENT RESTROOM)

PAINT / EPOXY PAINT / SEMI-GLOSS PAINT
P-1/EP-1 SHERWIN WILLIAMS, SW6126 NAVAJO WHITE

SP-2 SHERWIN WILLIAMS, SW6141 SOFTER TAN

P-3-11 NOT USED

P-12 SHERWIN WILLIAMS, SW7616 BREEZY

P-13 BENJAMIN MOORE, HC-161 TEMPLETON GRAY

P-14-19 NOT USED

P-20/EP-20 SHERWIN WILLIAMS, SW6471 HAZEL

CEILINGS

SUSPENDED ACOUSTICAL TILE
SAT-1 ARMSTRONG, OPTIMA OPEN PLAN, 3250, TEGULAR FINE TEXTURE, 2'-0" X 2'-0" X 1" THICK; PRELUDE 15/16" SQUARE TEGULAR, BLIZZARD WHITE

CASEWORK

PLASTIC LAMINATE
PL-1 WILSONART, KENSINGTON MAPLE 10776-60; 3MM EDGE BANDING: DOELLKEN 4469

PL-2 NEVAMAR, SOVEREIGN CHERRY #W8325T; 3MM EDGE BANDING: DOELLKEN 3994

SOLID SURFACE
SS-1 CORIAN, LINEN, 1/2" THICK, RE: 8/I-200, 9/I-200

SPECIALTIES

CORNER GUARD
CG-1 CS ACROVYN, MODEL: 4000, SM-20N, 3" WING, COLOR: 920 ALMOND, 90 DEGREE, 96" HEIGHT, RE: 10/I-200

CG-2 CS ACROVYN, MODEL: 4000, SSM-25MN, ONE PIECE COVER, COLOR: 920 ALMOND, 96" HEIGHT, RE: 11/I-200

HANDRAIL
HR-1 CS ACROVYN, MODEL: HRB-10C, 4"H CRASH RAIL IN 920 ALMOND, 1601 NATURAL RIBBONWOOD HANDRAIL

WALL PROTECTION
WP-1 CS ACROVYN, MODEL 4000, COLOR: 920 ALMOND, 0.040" THICK, TO BE INSTALLED TO CENTER OF HANDRAIL, RE: 5/I-200, 6/I-200, 7/I-200

WP-2 KOROSEAL, REATEC, MAPLE FLAT GRAIN 2, COLOR: TC-4215 (HEADWALL)

WP-3 KOROSEAL, REATEC, MAHOGANY STRAIGHT GRAIN 1, COLOR: TC-4277 (HEADWALL)

WALL PROTECTION GROUP
WPG-1 WP1 + HR1, RE: 6/I-200

MISCELLANEOUS

CUBICLE CURTAIN
CC-1 STANDARD TEXTILE, UNDER THE SEA, TREASURE. TRACK SYSTEM: ON THE RIGHT TRACK, SEE ARCHITECTURAL ENLARGED PLAN FOR LOCATIONS

WINDOW TREATMENTS
WT1 MECHOSHADE, MANUAL MECHO/S SINGLE ROLLER SOLAR SCREEN, STYLE: THERMOVEIL 1000 SERIES, 3% OPEN, COLOR: BEIGE 1002. INCLUDE FASCIA END CAPS AND COVERPLATE, CLEAR ANODIZED

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

FINISH LEGEND, GENERAL NOTES, AND ABBREVIATIONS

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

I010

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 4/23/2024 4:50:30 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/Natividad Med Surg 3 Unit - 3707-016-00 Interiors.rvt

ROOM FINISH SCHEDULE

ROOM				WALL FINISH					CASEWORK FINISH			
NUMBER	NAME	FLOOR FINISH	BASE FINISH	NORTH	EAST	SOUTH	WEST	CEILING FINISH	VERTICAL	HORIZONTAL	TRANSACTION	NOTES
01A.6A.60	EQUIPMENT STORAGE	RF9	RB1	P1	P1	P1	P1	GYP. P1				
01A.06A.63	BREAK ROOM	RF9	RB1	P1	P1	P1	P13	EXIST				
01A.06A.69	STAFF LOUNGE	RF9	RB1	P1	P1	P13	P1	EXIST				
01A.06A.74	CLEAN UTILITY	RF9	RB1	P1	P1	P1	P1	GYP. P1				
01A.06A.90	N.S.	RF9	RB1	P1	P1	P1	P1	EXIST				SEE FINISH PLAN FOR SOFFIT PAINT
01A.06A.91	NS/RECEP	RF9	RB1	P1	P1	P1	P1	EXIST				SEE FINISH PLAN FOR SOFFIT PAINT
01A.06A.92	TELE TECH WORKSTATION	RF9	RB1	P1	P1	P1	P1	EXIST				SEE FINISH PLAN FOR SOFFIT PAINT
01A.80A.2	EQUIPMENT STORAGE	RF9	RB1	P1	P1	P1	P1	GYP. P1				
300	OFFICE	RF9	RB1	P1	P1	P1	P1	EXIST				
311	SEMI-PRIVATE PATIENT RM	RF10	RB1	P20	P1	P1	P1	EXIST				PROVIDE CC1 AND WT1
311A	PAT (P) TOILET/SHWR	CTF1	CTB1	CTW1, LB1	CTW1, LB1	EP1, CTW1, LB1	EP1, CTW1, LB1	GYP: EP1				
312	PRIVATE PATIENT RM	RF10	RB1	P1	P1	P20	P1	EXIST				PROVIDE CC1 AND WT1
312A	PAT H/C TOILET/SHWR	CTF1	CTB1	EP1, CTW1, LB1	CTW1, LB1	CTW1, LB1	EP1, CTW1, LB1	GYP: EP1				
313	SEMI-(P) PATIENT RM	RF10	RB1	P20	P1	P1	P1	EXIST				PROVIDE CC1 AND WT1
313A	PAT (P) TOILET/SHWR	CTF1	CTB1	CTW1, LB1	CTW1, LB1	EP1, CTW1, LB1	EP1, CTW1, LB1	GYP: EP1				
314	PRIVATE PATIENT RM	RF10	RB1	P1	P1	P20	P1	EXIST				PROVIDE CC1 AND WT1
314A	PAT H/C TOILET/SHWR	CTF1	CTB1	EP1, CTW1, LB1	CTW1, LB1	CTW1, LB1	EP1, CTW1, LB1	GYP: EP1				
315	SEMI-(P) PATIENT RM	RF10	RB1	P20	P1	P1	P1	EXIST				PROVIDE CC1 AND WT1
315A	PAT (P) TOILET/SHWR	CTF1	CTB1	CTW1, LB1	CTW1, LB1	EP1, CTW1, LB1	EP1, CTW1, LB1	GYP: EP1				
316	PRIVATE PATIENT RM	RF10	RB1	P1	P1	P20	P1	EXIST				PROVIDE CC1 AND WT1
316A	PAT H/C TOILET/SHWR	CTF1	CTB1	EP1, CTW1, LB1	CTW1, LB1	CTW1, LB1	EP1, CTW1, LB1	GYP: EP1				
317	PRIVATE PATIENT RM	RF10	RB1	P20	P1	P1	P1	EXIST				PROVIDE CC1 AND WT1
317A	PAT (P) TOILET/SHWR	CTF1	CTB1	CTW1, LB1	CTW1, LB1	EP1, CTW1, LB1	EP1, CTW1, LB1	GYP: EP1				
318	PRIVATE PATIENT RM	RF10	RB1	P1	P1	P20	P1	EXIST				PROVIDE CC1 AND WT1
318A	PAT H/C TOILET/SHWR	CTF1	CTB1	EP1, CTW1, LB1	CTW1, LB1	CTW1, LB1	CTW1, LB1	GYP: EP1				
319	SEMI (P) PATIENT RM	RF10	RB1	P20	P1	P1	P1	EXIST				PROVIDE CC1 AND WT1
319A	PAT (P) TOILET/SHWR	CTF1	CTB1	CTW1, LB1	CTW1, LB1	EP1, CTW1, LB1	EP1, CTW1, LB1	GYP: EP1				
320	PRIVATE PATIENT RM	RF10	RB1	P1	P1	P20	P1	EXIST				PROVIDE CC1 AND WT1
320A	PAT H/C TOILET/SHWR	CTF1	CTB1	EP1, CTW1, LB1	CTW1, LB1	CTW1, LB1	EP1, CTW1, LB1	GYP: EP1				
321	PRIVATE PATIENT RM	RF10	RB1	P1	P1	P1	P20	EXIST				PROVIDE CC1 AND WT1
321A	PAT (P) TOILET/SHWR	CTF1	CTB1	EP1, CTW1, LB1	EP1, CTW1, LB1	CTW1, LB1	CTW1, LB1	GYP: EP1				
322	SEMI-(P) PATIENT RM	RF10	RB1	P1	P20	P1	P1	EXIST				PROVIDE CC1 AND WT1
322A	PAT H/C TOILET/SHWR	CTF1	CTB1	EP1, CTW1, LB1	CTW1, LB1	CTW1, LB1	EP1, CTW1, LB1	GYP: EP1				
323	SEMI-(P) PATIENT RM	RF10	RB1	P1	P1	P1	P20	EXIST				PROVIDE CC1 AND WT1
323A	TOILET/SHWR	CTF1	CTB1	EP1, CTW1, LB1	EP1, CTW1, LB1	CTW1, LB1	CTW1, LB1	GYP: EP1				
324	SEMI-(P) PATIENT RM	RF10	RB1	P1	P20	P1	P1	EXIST				PROVIDE CC1 AND WT1
324A	TOILET/SHWR	CTF1	CTB1	EP1, CTW1, LB1	CTW1, LB1	CTW1, LB1	EP1, CTW1, LB1	GYP: EP1				
325	SEMI-(P) PATIENT RM	RF10	RB1	P1	P1	P1	P20	EXIST				PROVIDE CC1 AND WT1
325A	TOILET/SHWR	CTF1	CTB1	EP1, CTW1, LB1	EP1, CTW1, LB1	CTW1, LB1	CTW1, LB1	GYP: EP1				
326	PRIVATE PATIENT RM	RF10	RB1	P1	P1	P20	P1	EXIST				PROVIDE CC1 AND WT1
326A	PAT H/C TOILET/SHWR	CTF1	CTB1	EP1, CTW1, LB1	CTW1, LB1	CTW1, LB1	CTW1, LB1	GYP: EP1				
327	SEMI-(P) PATIENT RM	RF10	RB1	P20	P1	P1	P1	EXIST				PROVIDE CC1 AND WT1
327A	PAT (P) TOILET/SHWR	CTF1	CTB1	CTW1, LB1	EP1, CTW1, LB1	EP1, CTW1, LB1	CTW1, LB1	GYP: EP1				
328	PRIVATE PATIENT RM	RF10	RB1	P1	P1	P20	P1	EXIST				PROVIDE CC1 AND WT1
328A	PAT H/C TOILET/SHWR	CTF1	CTB1	EP1, CTW1, LB1	EP1, CTW1, LB1	CTW1, LB1	CTW1, LB1	GYP: EP1				
329	IMC PATIENT RM	RF10	IB6	EP20	EP1	EP1	EP1	EXIST				PROVIDE CC1 AND WT1
329A	PAT ISO TOILET/SHWR	CTF1	CTB1	CTW1, LB1	EP1, CTW1, LB1	EP1, CTW1, LB1	CTW1, LB1	GYP: EP1				
329B	ANTE RM	RF10	IB6	EP1	EP1	EP1	EP1	EXIST				
330	IMC PATIENT RM	RF10	IB6	EP1	EP1	EP20	EP1	EXIST				PROVIDE CC1 AND WT1
330A	PAT ISO TOILET/SHWR	CTF1	CTB1	EP1, CTW1, LB1	EP1, CTW1, LB1	CTW1, LB1	CTW1, LB1	GYP: EP1				
330B	ANTE RM	RF10	IB6	EP1	EP1	EP1	EP1	EXIST				
331	SEMI-(P) PATIENT RM	RF10	RB1	P20	P1	P1	P1	EXIST				PROVIDE CC1 AND WT1
331A	PAT (P) TOILET/SHWR	CTF1	CTB1	CTW1, LB1	EP1, CTW1, LB1	EP1, CTW1, LB1	CTW1, LB1	GYP: EP1				
332	SEMI-(P) PATIENT RM	RF10	RB1	P1	P1	P20	P1	EXIST				PROVIDE CC1 AND WT1
332A	PAT (P) TOILET/SHWR	CTF1	CTB1	EP1, CTW1, LB1	EP1, CTW1, LB1	CTW1, LB1	CTW1, LB1	GYP: EP1				
333	SEMI-(P) PATIENT RM	RF10	RB1	P20	P1	P1	P1	EXIST				PROVIDE CC1 AND WT1
333A	PAT (P) TOILET/SHWR	CTF1	CTB1	CTW1, LB1	EP1, CTW1, LB1	EP1, CTW1, LB1	CTW1, LB1	GYP: EP1				
334	IMC PATIENT RM	RF10	IB6	EP1	EP1	EP20	EP1	EXIST				PROVIDE CC1 AND WT1
334A	PAT ISO TOILET/SHWR	CTF1	CTB1	EP1, CTW1, LB1	EP1, CTW1, LB1	CTW1, LB1	CTW1, LB1	GYP: EP1				
334B	ANTE RM	RF10	IB6	EP1	EP1	EP1	EP1	EXIST				
335	IMC PATIENT RM	RF10	IB6	EP20	EP1	EP1	EP1	EXIST				PROVIDE CC1 AND WT1
335A	PAT ISO TOILET/SHWR	CTF1	CTB1	CTW1, LB1	EP1, CTW1, LB1	EP1, CTW1, LB1	CTW1, LB1	GYP: EP1				
335B	ANTE RM	RF10	IB6	EP1	EP1	EP1	EP1	EXIST				
336	IMC PATIENT RM	RF10	IB6	EP1	EP1	EP20	EP1	EXIST				PROVIDE CC1 AND WT1
336A	PAT ISO TOILET/SHWR	CTF1	CTB1	EP1, CTW1, LB1	EP1, CTW1, LB1	CTW1, LB1	CTW1, LB1	GYP: EP1				
336B	ANTE RM	RF10	IB6	EP1	EP1	EP1	EP1	EXIST				
337	IMC PATIENT RM	RF10	IB6	EP20	EP1	EP1	EP1	EXIST				PROVIDE CC1 AND WT1
337A	PAT ISO TOILET/SHWR	CTF1	CTB1	CTW1, LB1	EP1, CTW1, LB1	EP1, CTW1, LB1	CTW1, LB1	GYP: EP1				
337B	ANTE RM	RF10	IB6	EP1	EP1	EP1	EP1	EXIST				
338	SEMI-(P) PATIENT RM	RF10	RB1	P1	P1	P20	P1	EXIST				PROVIDE CC1 AND WT1
338A	PAT (P) TOILET/SHWR	CTF1	CTB1	EP1, CTW1, LB1	EP1, CTW1, LB1	CTW1, LB1	CTW1, LB1	GYP: EP1				
C300A1	CORRIDOR	RF9, RF5	RB1	P1	P1	P1	P12	EXIST				
C300A2	CORRIDOR	RF9, RF5	RB1	P1	P12	P1	P1	EXIST				
C300A3	CORRIDOR	RF9, RF5	RB1	-	P12	-	P1	EXIST				
C300A4	CORRIDOR	RF9, RF5	RB1	P1	P1	P1	-	EXIST				
C300A5	CORRIDOR	RF9, RF5	RB1	-	P1	P1	P12	EXIST				
C300A6	CORRIDOR	RF9	RB1	P1	-	P1	-	EXIST				
C300A7	CORRIDOR	RF9, RF5	RB1	-	-	P1	-	P12	EXIST			
C300A8	CORRIDOR	RF9	RB1	P1	-	P1	-	EXIST				

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET,
SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET,
SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA
95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK #1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

FINISH SCHEDULE

DATE: APRIL 16, 2024

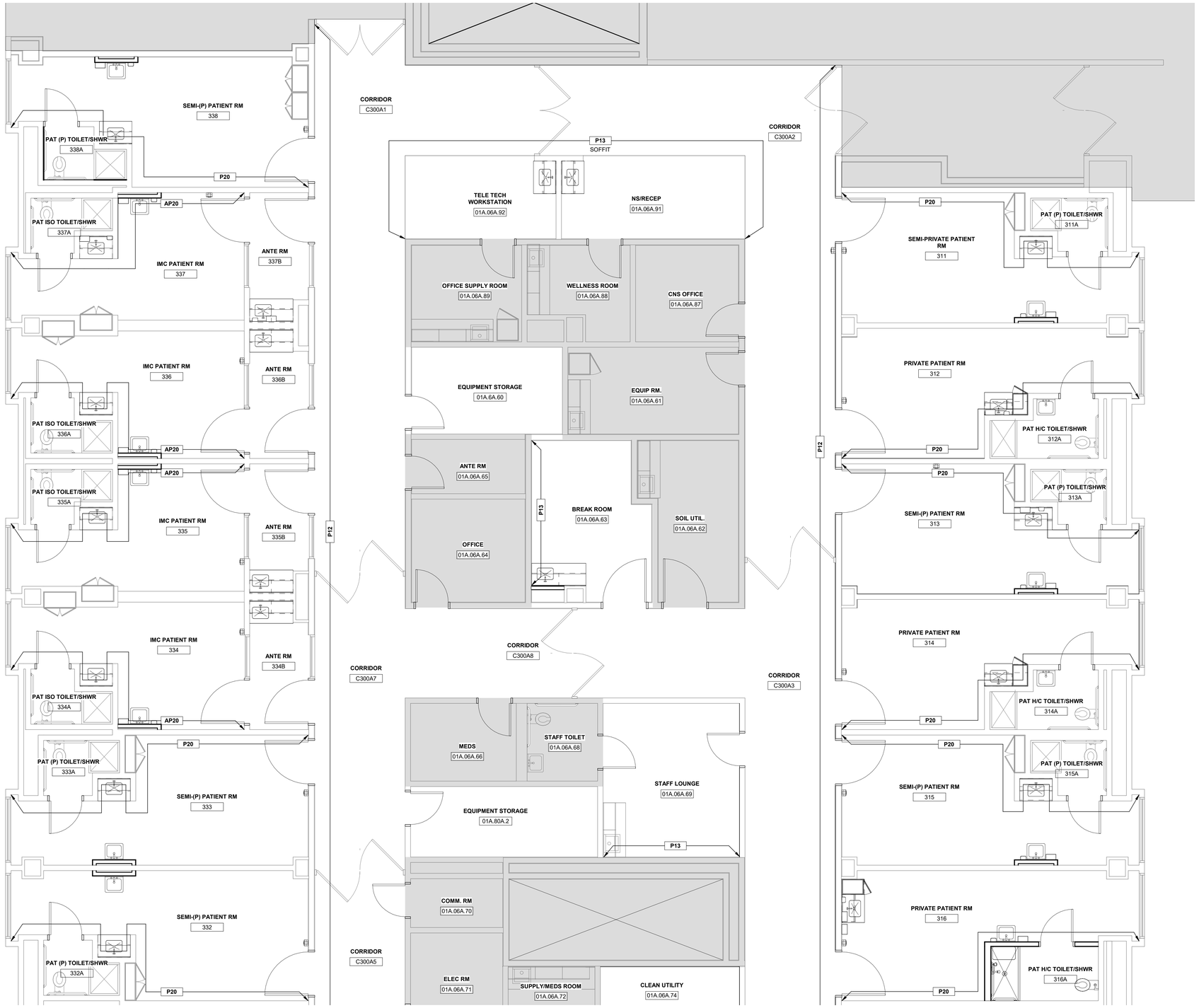
CONSTRUCTION DOCUMENTS

I020

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 9/5/2024 2:53:16 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707.016.00/Natividad Med Surg 3 Unit - 3707.016.00 Interiors.rvt



1 ENLARGED FINISH PLAN LEVEL 03 AREA A1
1/4" = 1'-0"

FINISH PLAN LEGEND

WALL FINISH: XX/XX

WALL FINISH SYMBOLS REPRESENT LOCATION OF ACCENT FINISHES STARTING AT THE FLOOR AND MOVING TO THE CEILING. REFER TO ELEVATIONS FOR CLARIFICATION.

GRAIN DIRECTION:

ARROWS INDICATE DIRECTION OF WOOD GRAIN OR LINEAR PATTERN.

FLOOR FINISH: XXX

FLOOR FINISH TRANSITION: XXX | XXX

INDICATES LINE OF TRANSITION BETWEEN FLOOR FINISHES. REFER TO DETAILS FOR TRANSITION TYPE.

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353

KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

INTERIOR FINISH PLAN - A1

DATE: APRIL 16, 2024

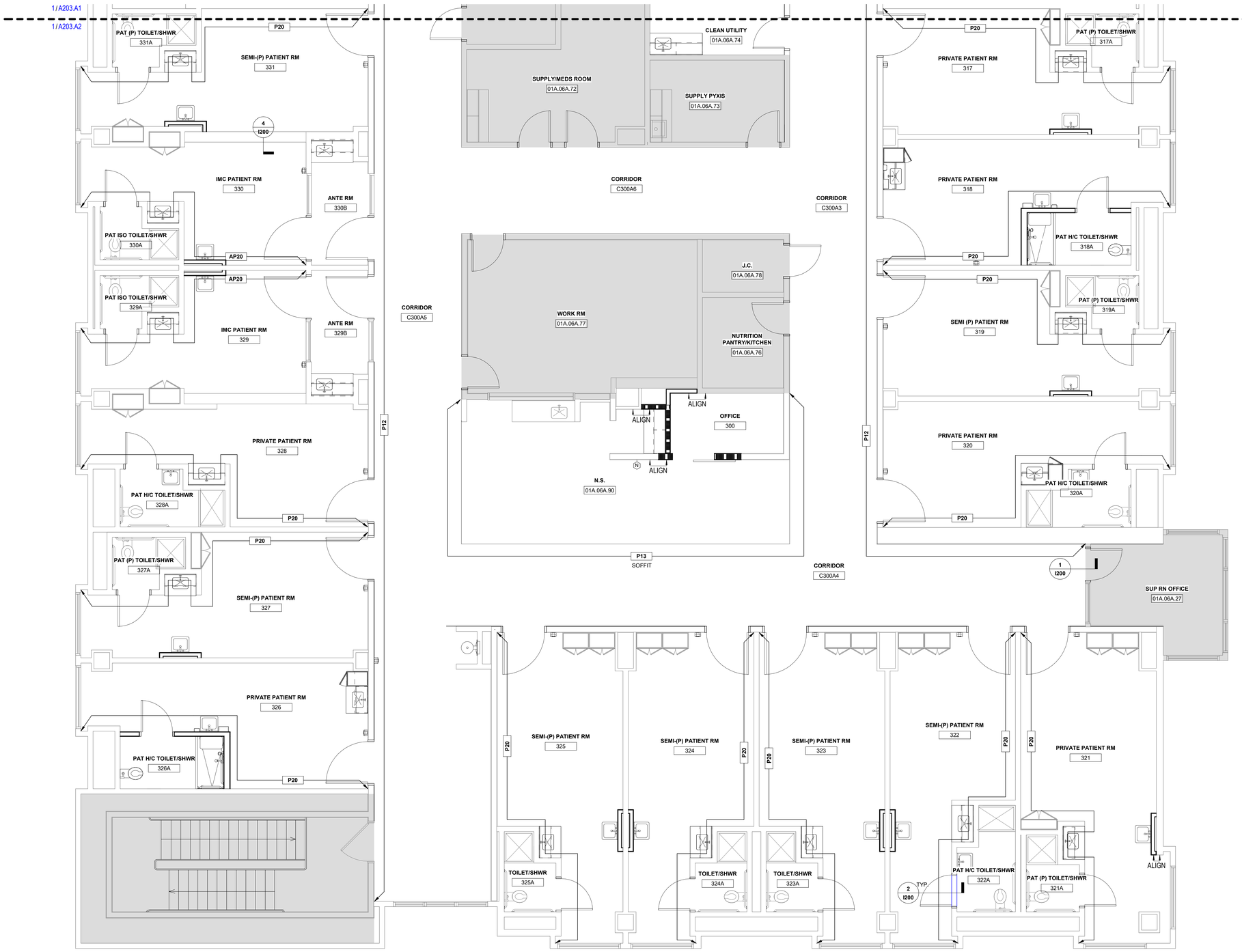
CONSTRUCTION DOCUMENTS

I100

CONSTRUCTION DOCUMENTS

Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/Natividad Med Surg 3 Unit - 3707-016-00_Interior_v21.rvt
4/23/2024 4:50:31 PM
Author

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.



1 ENLARGED FINISH PLAN LEVEL 03 AREA A2
1/4" = 1'-0"

FINISH PLAN LEGEND

WALL FINISH: XX/XX

WALL FINISH SYMBOLS REPRESENT LOCATION OF ACCENT FINISHES STARTING AT THE FLOOR AND MOVING TO THE CEILING. REFER TO ELEVATIONS FOR CLARIFICATION.

GRAIN DIRECTION:

ARROWS INDICATE DIRECTION OF WOOD GRAIN OR LINEAR PATTERN.

FLOOR FINISH: XXX

FLOOR FINISH TRANSITION: XXX | XXX

INDICATES LINE OF TRANSITION BETWEEN FLOOR FINISHES. REFER TO DETAILS FOR TRANSITION TYPE.

HGA

222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353

KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

INTERIOR FINISH PLAN - A2

DATE: APRIL 16, 2024

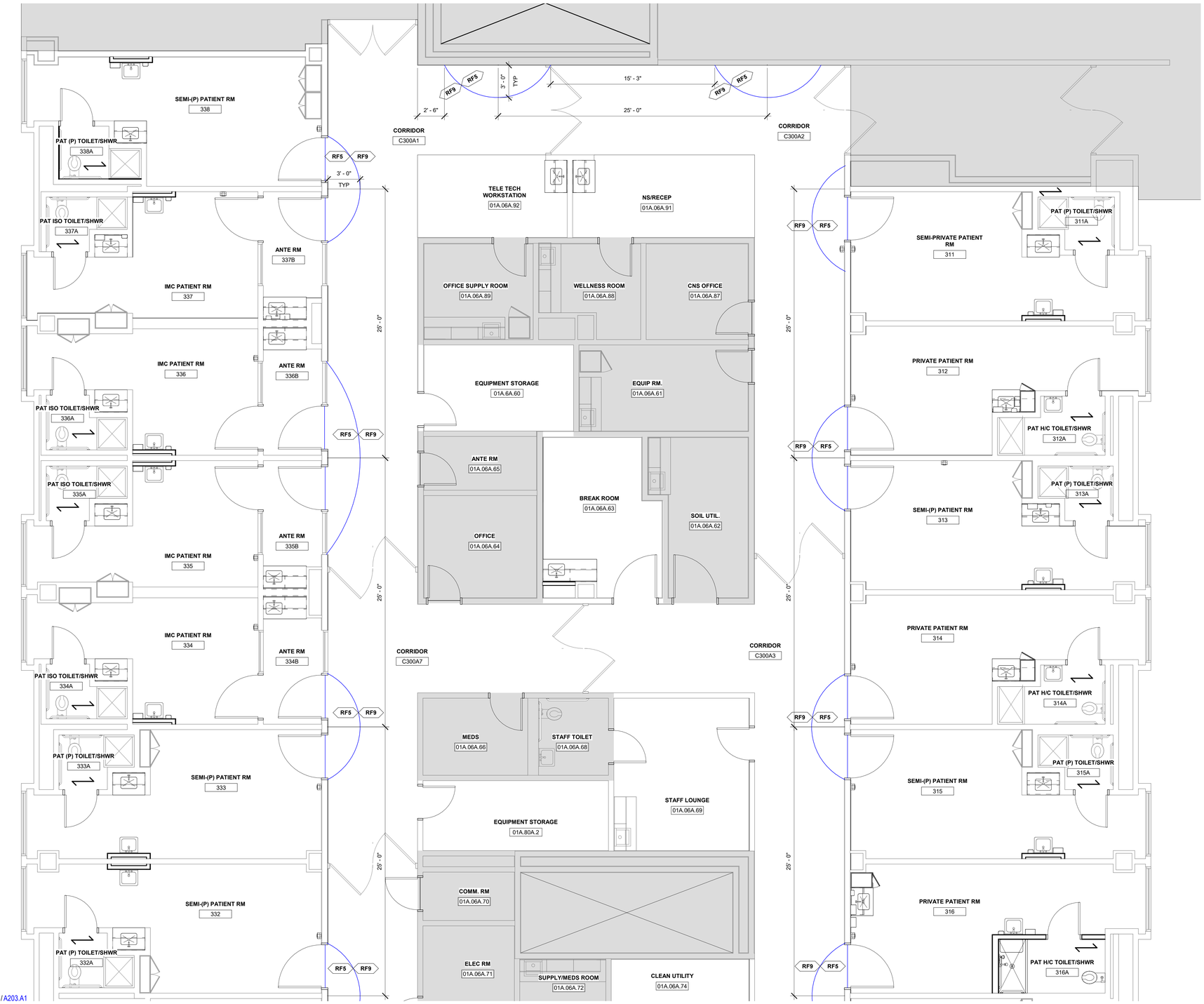
CONSTRUCTION DOCUMENTS

I101

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

4/23/2024 4:50:33 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/Natividad Med-Surg 3 Unit - 3707-016-00_interiors.rvt Author



1 ENLARGED FLOOR PATTERN PLAN LEVEL 03 AREA A1
1/4" = 1'-0"

FINISH PLAN LEGEND

WALL FINISH: XX/XX

WALL FINISH SYMBOLS REPRESENT LOCATION OF ACCENT FINISHES STARTING AT THE FLOOR AND MOVING TO THE CEILING. REFER TO ELEVATIONS FOR CLARIFICATION.

GRAIN DIRECTION:

ARROWS INDICATE DIRECTION OF WOOD GRAIN OR LINEAR PATTERN.

FLOOR FINISH: XXX

FLOOR FINISH TRANSITION: XXX | XXX

INDICATES LINE OF TRANSITION BETWEEN FLOOR FINISHES. REFER TO DETAILS FOR TRANSITION TYPE.

HGA

222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER: S240593-27-00
HCAI FACILITY ID: 17353

KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-29256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

INTERIOR FLOOR PATTERN PLAN - A1

DATE: APRIL 16, 2024

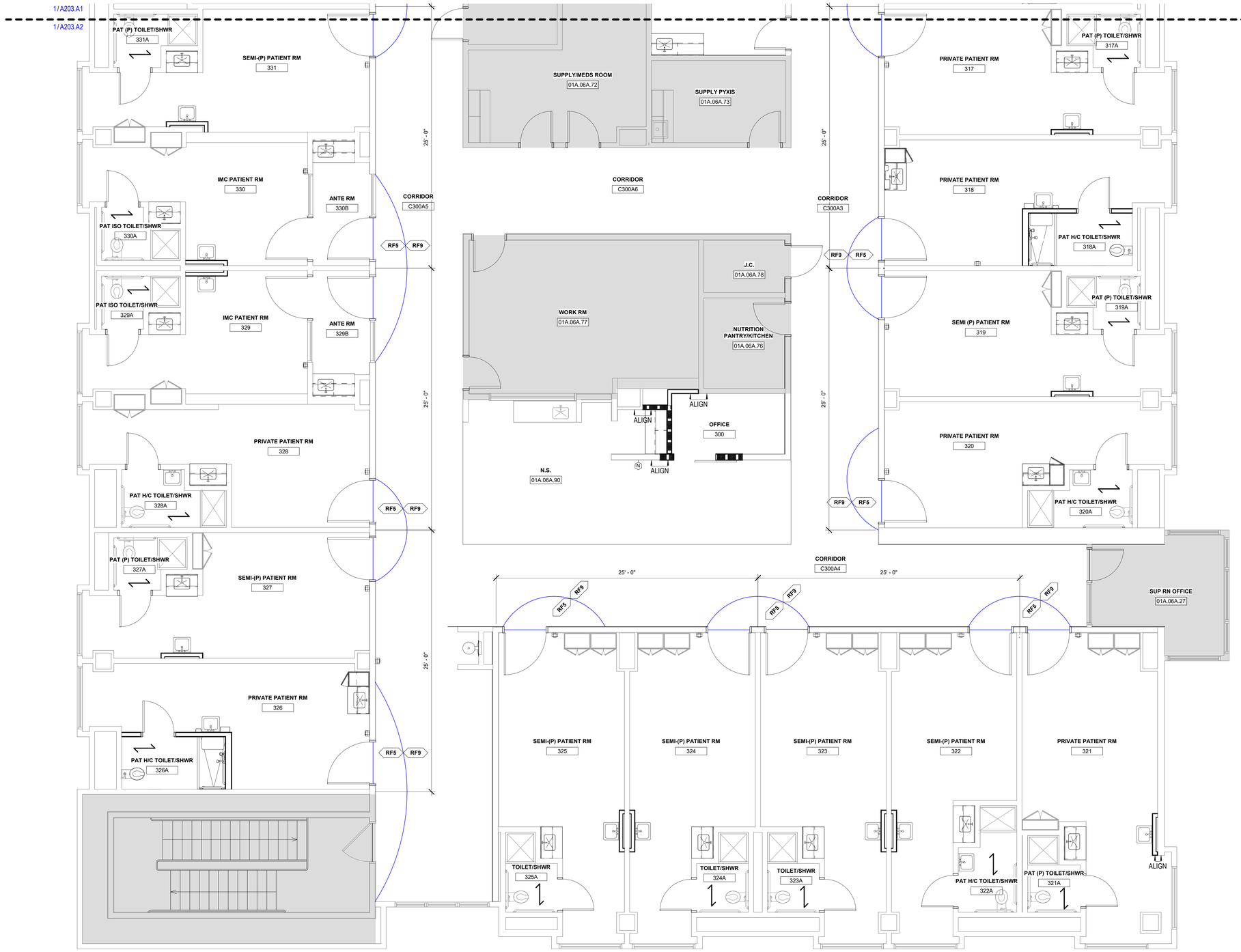
CONSTRUCTION DOCUMENTS

I102

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 4/23/2024 4:50:34 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/Natividad Med Surg 3 Unit - 3707-016-00 Interiors.rvt



1 ENLARGED FLOOR PATTERN PLAN LEVEL 03 AREA A2
1/4" = 1'-0"

FINISH PLAN LEGEND

WALL FINISH: XX/XX

WALL FINISH SYMBOLS REPRESENT LOCATION OF ACCENT FINISHES STARTING AT THE FLOOR AND MOVING TO THE CEILING. REFER TO ELEVATIONS FOR CLARIFICATION.

GRAIN DIRECTION:

ARROWS INDICATE DIRECTION OF WOOD GRAIN OR LINEAR PATTERN.

FLOOR FINISH: XXX

FLOOR FINISH TRANSITION: XXX | XXX

INDICATES LINE OF TRANSITION BETWEEN FLOOR FINISHES. REFER TO DETAILS FOR TRANSITION TYPE.

HGA

222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353

KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

INTERIOR FLOOR PATTERN PLAN - A2

DATE: APRIL 16, 2024

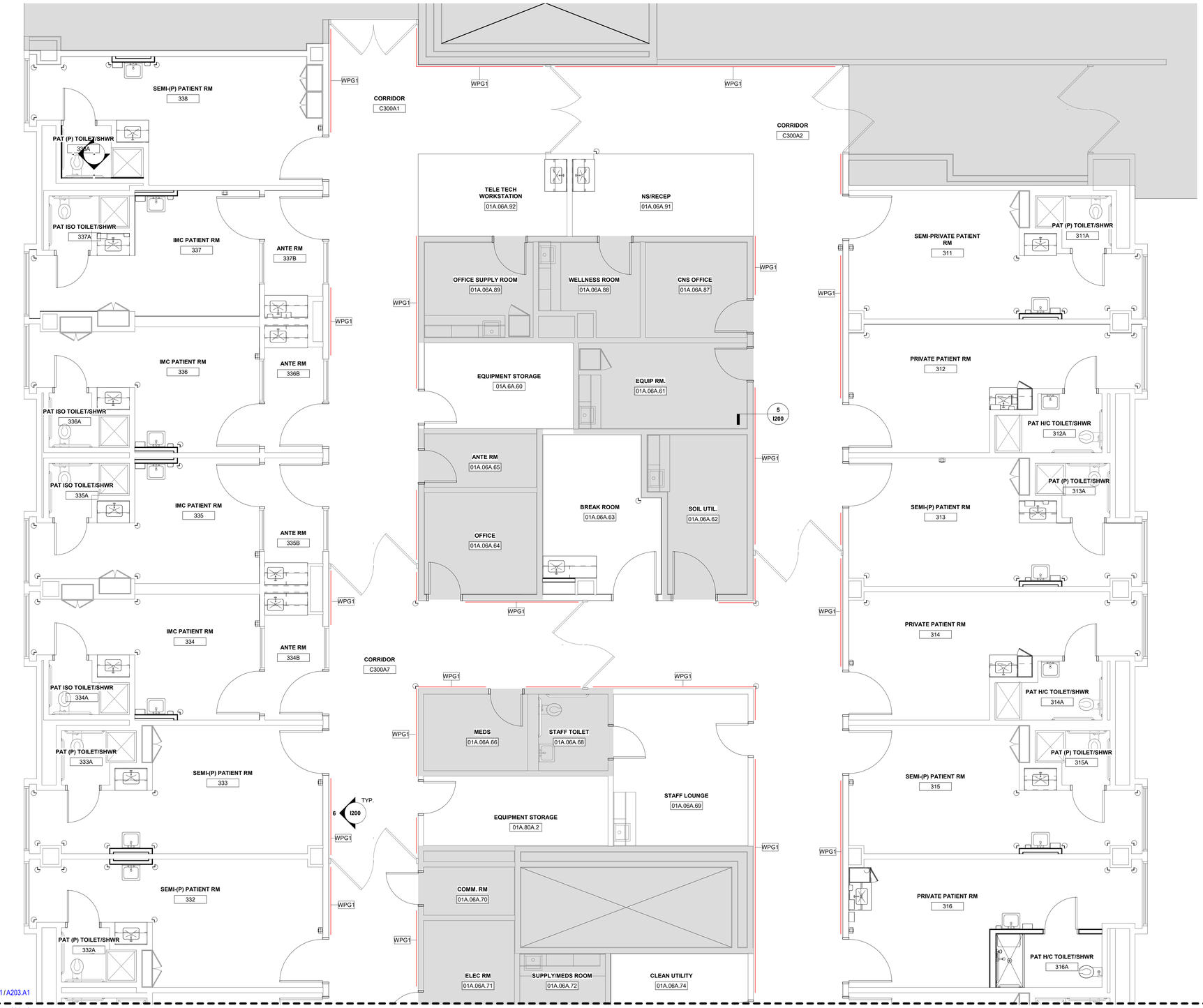
CONSTRUCTION DOCUMENTS

I103

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 4/23/2024 4:50:35 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/Natividad Med Surg 3 Unit - 3707-016-00 Interiors.rvt



1 ENLARGED WALL PROTECTION PLAN LEVEL 03 AREA A1
1/4" = 1'-0"

WALL PROTECTION PLAN LEGEND

PLEASE NOTE:
WALL PROTECTION IS BEST VIEWED AND PRINTED IN COLOR

WALL PROTECTION:

RE: FINISH LEGEND FOR PRODUCT INFORMATION AND INSTALL HEIGHT.
RE: WALL PROTECTION PLAN PLAN FOR TYPE AND LOCATION

WALL PROTECTION GROUP

WPG1

CORNER GUARD
ALL CORNER GUARDS ARE CG1, UNO

HGA

222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353

KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
524059327-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

INTERIOR WALL PROTECTION PLAN - A1

DATE: APRIL 16, 2024

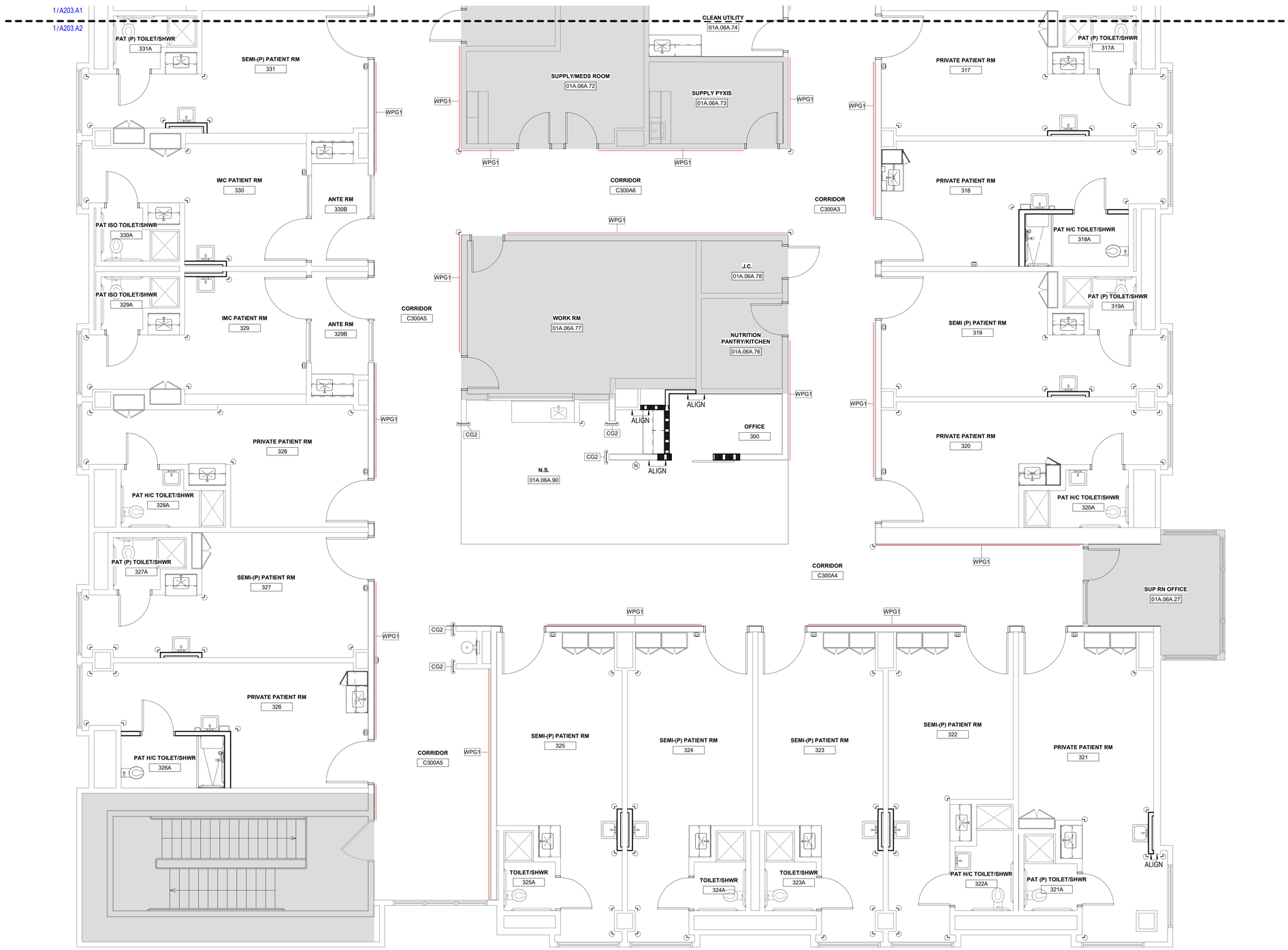
CONSTRUCTION DOCUMENTS

I104

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author
4/23/2024 4:50:37 PM
Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/Natividad Med Surg 3 Unit - 3707-016-00 Interiors.rvt



1 ENLARGED WALL PROTECTION PLAN LEVEL 03 AREA A2
1/4" = 1'-0"

WALL PROTECTION PLAN LEGEND

PLEASE NOTE:
WALL PROTECTION IS BEST VIEWED AND PRINTED IN COLOR

WALL PROTECTION:

RE: FINISH LEGEND FOR PRODUCT INFORMATION AND INSTALL HEIGHT.
RE: WALL PROTECTION PLAN PLAN FOR TYPE AND LOCATION

WALL PROTECTION GROUP

WPG1

CORNER GUARD
ALL CORNER GUARDS ARE CG1, UNO

HGA

222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET,
SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET,
SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA
95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353

KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39255
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

INTERIOR WALL PROTECTION PLAN - A2

DATE: APRIL 16, 2024

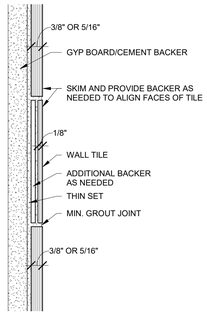
CONSTRUCTION DOCUMENTS

I105

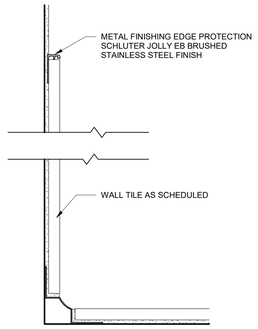
CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

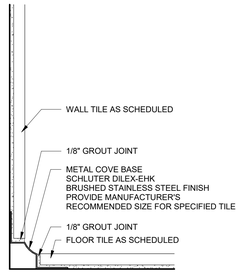
Author 4/23/2024 4:50:38 PM Autodesk Docs://Natividad Med Bldng 3 Unit - 3707-016-00/Natividad Med Bldng 3 Unit - 3707-016-00 Interiors.rvt



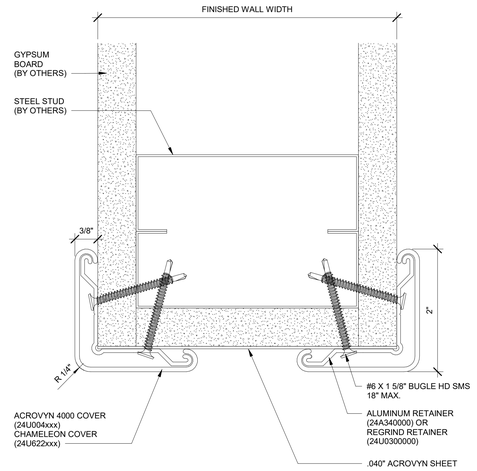
14 CERAMIC TILE ALIGNMENT
6" = 1'-0"



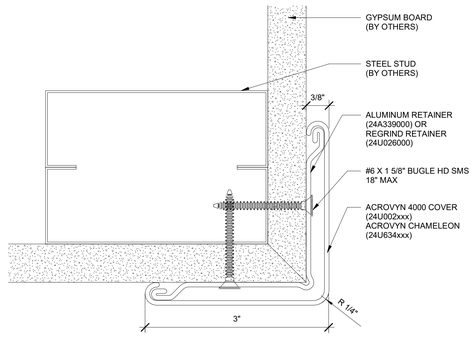
13 METAL TRIM AT WALL TILE
6" = 1'-0"



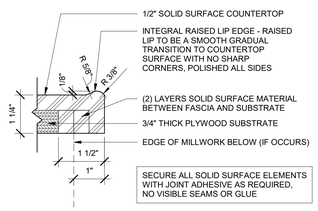
12 METAL COVE BASE AT WALL TILE
6" = 1'-0"



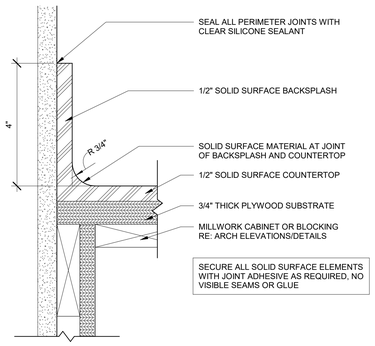
11 CORNER GUARD - ACROVYN SSM-25
12" = 1'-0"



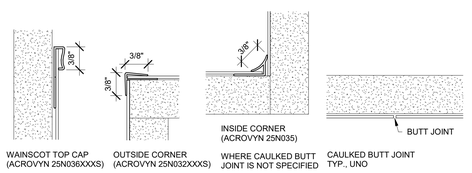
10 CORNER GUARD - ACROVYN SM-20
12" = 1'-0"



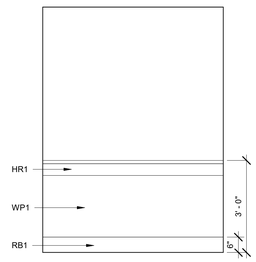
9 SOLID SURFACE LIP EDGE
6" = 1'-0"



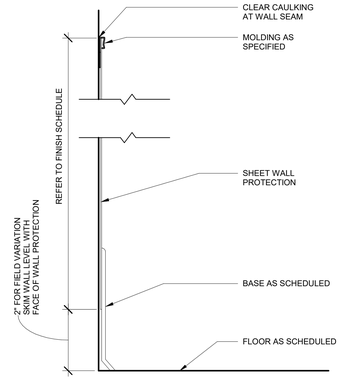
8 SOLID SURFACE BACKSPLASH
6" = 1'-0"



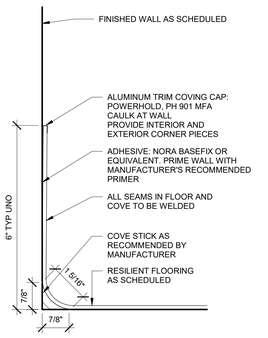
7 SHEET WALL PROTECTION TRIM PIECES
1'-0" = 1'-0"



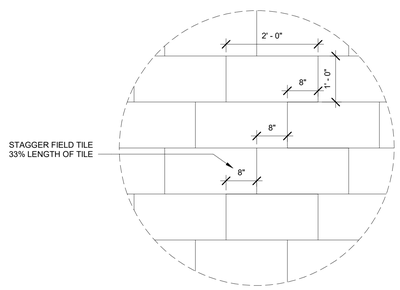
6 WPG1
1/2" = 1'-0"



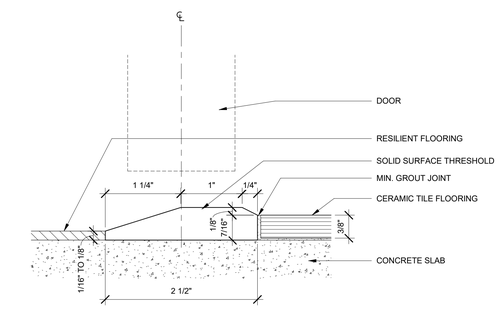
5 SHEET WALL PROTECTION
6" = 1'-0"



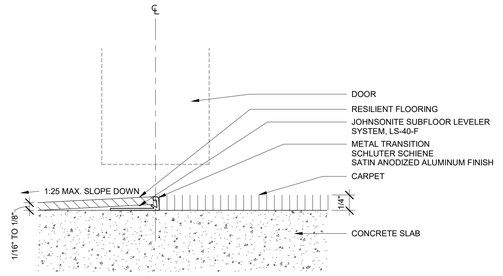
4 INTEGRAL COVE BASE DETAIL
6" = 1'-0"



3 33% OFFSET TILE INSTALLATION
3/4" = 1'-0"



2 RESILIENT TO CERAMIC TILE FLOORING TRANSITION
1'-0" = 1'-0"



1 RESILIENT TO EXISTING CARPET FLOORING TRANSITION
1'-0" = 1'-0"

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPE
C-39256
JUNE 30, 2025
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

INTERIOR DETAILS

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

I200

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 4/23/2024 4:50:39 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/Natividad Med Surg 3 Unit - 3707-016-00 Interiors.rvt

GENERAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES
100TN001

1. INTERPRETATION OF DRAWINGS & SPECIFICATIONS
   a. WHERE SPECIFICATIONS HAVE BEEN PREPARED FOR THIS PROJECT, THEY ARE ARRANGED IN SEVERAL SECTIONS, BUT SUCH SEPARATION SHALL NOT BE CONSIDERED AS THE LIMITS OF THE WORK REQUIRED OF ANY SEPARATE TRADE. THE TERMS AND CONDITIONS OF SUCH LIMITATIONS ARE WHOLLY BETWEEN THE CONTRACTOR AND THEIR SUBCONTRACTORS.
   b. IN GENERAL, THE WORKING DETAILS WILL INDICATE DIMENSIONS, POSITION AND KIND OF CONSTRUCTION, AND THE SPECIFICATIONS, QUALITIES AND METHODS. ANY WORK INDICATED ON THE WORKING DETAILS AND NOT MENTIONED IN THE SPECIFICATIONS, OR VICE VERSA, SHALL BE FURNISHED AS THOUGH FULLY SET FORTH IN BOTH. WORK NOT PARTICULARLY DETAILED, MARKED OR SPECIFIED, SHALL IDENTICAL OR SIMILAR TO LIKE CASES OF CONSTRUCTION THAT ARE DETAILED, MARKED OR SPECIFIED. IF CONFLICTS OCCUR ON DRAWINGS AND/OR SPECIFICATIONS, THE MOST EXPENSIVE MATERIALS OR METHODS WILL PREVAIL.
   c. SHOULD AN ERROR APPEAR IN THE WORKING DETAILS OR SPECIFICATIONS OR IN WORK DONE BY OTHERS AFFECTING THIS WORK, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AT ONCE AND IN WRITING. IF THE CONTRACTOR PROCEEDS WITH THE WORK SO AFFECTED WITHOUT HAVING GIVEN SUCH WRITTEN NOTICE AND WITHOUT RECEIVING THE NECESSARY APPROVAL, DECISION OR INSTRUCTIONS IN WRITING FROM THE OWNER, THEN THE CONTRACTOR SHALL HAVE NO VALID CLAIM AGAINST THE OWNER, FOR THE COST OF SO PROCEEDING AND SHALL MAKE GOOD ANY RESULTING DAMAGE OR DEFECT. NO VERBAL APPROVAL, DECISION, OR INSTRUCTION SHALL BE VALID OR BE THE BASIS FOR ANY CLAIM AGAINST THE OWNER, ITS OFFICERS, EMPLOYEES OR AGENTS. THE FOREGOING INCLUDES TYPICAL ERRORS IN THE SPECIFICATIONS OR NOTATIONAL ERRORS IN THE WORKING DETAILS WHERE THE INTERPRETATION IS DOUBTFUL OR WHERE THE ERROR IS SUFFICIENTLY APPARENT AS TO PLACE A REASONABLY PRUDENT CONTRACTOR ON NOTICE THAT, SHOULD THE CONTRACTOR ELECT TO PROCEED, THEY ARE DOING SO AT THEIR OWN RISK.
2. CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES AND REGULATIONS.
3. SHOP DRAWING NOTE:
   a. WHEN NOT ADDRESSED BY DIVISION 1 OF THE SPECIFICATIONS, SUBMITTALS SHALL BE ELECTRONIC PDF FORMAT.
   b. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE STRUCTURAL ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT BY INDICATING WHICH MATERIAL THE CONTRACTOR INTENDS TO FURNISH AND INSTALL, AND BY DETAILING THE FABRICATION AND INSTALLATION METHODS THE CONTRACTOR INTENDS TO USE ON A STAND ALONE SET OF DOCUMENTS. DUPLICATION OF DESIGN DOCUMENTS FOR THE PURPOSE OF SHOP DRAWINGS IS NOT ACCEPTABLE.
   c. PRIOR TO FABRICATION, SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW BY THE STRUCTURAL ENGINEER. SHOP DRAWING SUBMITTALS SHALL INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, STRUCTURAL STEEL, REINFORCING STEEL, & GLUE-LAMINATED BEAMS.
   d. PRIOR TO SUBMISSION THE CONTRACTOR SHALL REVIEW ALL SUBMITTALS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND SHALL STAMP SUBMITTALS AS BEING "REVIEWED FOR CONFORMANCE".
   e. SHOP DRAWING SUBMITTALS PROCESSED BY THE STRUCTURAL ENGINEER ARE NOT CHANGE ORDERS.
   f. ANY DETAIL ON THE SHOP DRAWINGS THAT DEVIATES FROM THE CONTRACT DOCUMENTS SHALL CLEARLY BE MARKED WITH THE NOTE "THIS IS A CHANGE".
   g. SHOP DRAWINGS OR CALCULATIONS SUBMITTED FOR REVIEW THAT REQUIRE RESUBMITTAL FOR RE-REVIEW SHALL BE BILLED HOURLY FOR SUCH TIME TO THE GENERAL CONTRACTOR. RE-REVIEW WILL NOT PROCEED WITHOUT WRITTEN APPROVAL FROM THE GENERAL CONTRACTOR FOR ADDITIONAL ENGINEERING REVIEW SERVICES.
4. SAFETY NOTE:
   a. IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS, AS THEY APPLY TO THIS PROJECT, OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA LATEST EDITION, AND ALL OSHA REQUIREMENTS.
   b. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED. SHORING INDICATIONS (LOCATION, DIRECTION, DURATION, ETC.) ARE ONLY SHOWN ON THE STRUCTURAL DRWGS WHEN REQUIRED TO IMPLEMENT THE DESIGN INTENT OF THE FINAL WORK PRODUCT. DETERMINATION WHETHER SHORING IS REQUIRED FOR TEMPORARY OR INTERMEDIATE CONDITIONS DURING CONSTRUCTION IS WHOLLY THE RESPONSIBILITY OF THE CONTRACTOR.
   c. THE OWNER AND THE STRUCTURAL ENGINEER DO NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
5. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OR DISCREPANCY OCCURS BETWEEN THE STRUCTURAL DRAWINGS AND ANY OTHER PORTION OF THE CONTRACT DOCUMENTS OR EXISTING FIELD CONDITIONS. SUCH NOTIFICATION SHALL BE GIVEN IN DUE TIME SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE. IN CASE OF A CONFLICT BETWEEN STRUCTURAL DRAWINGS AND SPECIFICATIONS THE MORE RESTRICTIVE CONDITION SHALL TAKE PRECEDENCE UNLESS WRITTEN APPROVAL HAS BEEN GIVEN FOR THE LEAST RESTRICTIVE. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PRIOR TO COMMENCING ANY WORK.
6. WHERE NO SPECIFIC DETAIL IS SHOWN, THE CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THIS PROJECT. SHOULD THERE BE ANY QUESTION, CONTACT THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO PROCEEDING.
7. WHEN CONSTRUCTION ATTACHES TO OR IS WITHIN AN EXISTING BUILDING, A COMPLETE SET OF DRAWINGS OF THE EXISTING BUILDING SHALL BE KEPT ON THE JOB SITE. CONTRACTOR TO OBTAIN THESE DRAWINGS FROM THE OWNER (IF THEY ARE AVAILABLE).
8. ANY SUBSTITUTIONS FOR STRUCTURAL MEMBERS, HARDWARE OR DETAILS SHALL BE REVIEWED BY THE ARCHITECT AND STRUCTURAL ENGINEER. SUCH REVIEW WILL BE BILLED ON A TIME AND MATERIALS BASIS TO THE GENERAL CONTRACTOR WITH NO GUARANTEE THAT THE SUBSTITUTION WILL BE ALLOWED.
9. DO NOT SCALE DRAWINGS. CONTACT THE ARCHITECT OR STRUCTURAL ENGINEER FOR ANY DIMENSIONS NOT SHOWN.
10. THESE DRAWINGS ARE NOT COMPLETE UNTIL REVIEWED AND ACCEPTED BY THE ENFORCEMENT AGENCY AND SIGNED BY THE STRUCTURAL ENGINEER.

DESIGN CRITERIA
100TN002-19

1. CODES AND STANDARDS
   2022 CALIFORNIA BUILDING CODE (CBC w/ STATE OF CA AMENDMENTS)
   ASCE 7-16
   ACI 318-14
   AISC 360-16, 341-16, 358-16
   AISI S100-16, S240-15, S400-15
   TMS 402/602-16
   2018 NDS, 2015 SDPWS
2. LATERAL LOADS
   SEISMIC:
   SITE CLASS D - DEFAULT
   S_S = 1.912 , S_{DS} = 1.53
   S_1 = 0.665 , S_{D1} = N/A
   I_P = 1.0 TYPICAL
   I_E = 1.5 PER ASCE 7-16 SECT 13.1.3
   RISK CATEGORY: IV

COLD-FORMED METAL FRAMING
540SN001

1. GALVANIZED SHEET STEEL SHALL CONFORM TO ASTM A653, STRUCTURAL QUALITY, WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MILS (18 GA) AND THINNER AND ASTM A653, STRUCTURAL QUALITY, WITH A MINIMUM YIELD STRENGTH OF 50 KSI FOR 54 MILS (16 GA) AND THICKER. HOT-ROLLED CARBON SHEET AND STRIP STEEL USED IN THE FABRICATION OF COLD-FORMED MEMBERS SHALL CONFORM TO ASTM A1011 WITH A RUST INHIBITIVE COATING. ALL CFS MEMBERS ARE TO BE COATED IN ACCORDANCE WITH THE OPTIONS SHOWN IN PARAGRAPH 4.3 AND TABLE 1 OF ASTM C955 AND SHALL HAVE A MINIMUM COATING PROTECTION LEVEL OF CP 60.
2. METAL STUDS AND JOISTS SHALL BE OF SIZE AND THICKNESS SHOWN ON DRAWINGS WITH THE MINIMUM EFFECTIVE SECTION PROPERTIES SHOWN IN THE TABLE(S).
3. MINIMUM THICKNESS SHOWN IN TABLE FOR THE THICKNESS SPECIFIED REPRESENTS 95% OF DESIGN THICKNESS PER AISI S240-15
4. METAL FRAMING SHALL BE PER ICC-ES NO. 3064P OR ICC-ES 4205. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AGENCY APPROVAL FOR ANY SUBSTITUTIONS.
5. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 "STRUCTURAL WELDING CODE-SHEET STEEL". WELDERS SHALL BE AWS CERTIFIED. WELDING RODS: E60XX MIN (43 MIL AND THINNER), E70XX MIN (54 MIL AND THICKER).
6. SMS SHALL BE PER ONE OF THE FOLLOWING:
   A. GRABBER CONSTRUCTION PRODUCTS INC PER ESR-1271
   B. PRIMESOURCE BUILDING PRODUCTS PER ESR-1408
   C. ITW BUILDEX PER ESR-1976
   D. ITW BUILDEX PER ESR-3223
   E. HILTI PER ESR-2196
   F. PORTEOUS FASTENER PER ESR-3231
   G. ELCO CONSTRUCTION PRODUCTS PER ESR-3294
   H. SIMPSON STRONG-TIE COMPANY PER ESR-3006
7. SMS MUST BE INSTALLED WITH THE FOLLOWING MINIMUM DIMENSIONAL LIMITATIONS: WHERE MULTIPLE FASTENERS ARE USED, SCREWS ARE TO HAVE A CENTER-TO-CENTER SPACING OF AT LEAST 3 TIMES THE NOMINAL DIAMETER (D). SCREWS ARE TO HAVE A CENTER-OF-SCREW TO EDGE-OF-STEEL DIMENSION OF AT LEAST 1.5 TIMES THE NOMINAL DIAMETER (D) OF THE SCREW.
8. ALL SCREWS ARE TO PROTRUDE A MINIMUM OF THREE FULL THREADS BEYOND THE CONNECTED PARTS, UNLESS OTHERWISE NOTED. WHERE THE CONNECTED PARTS ARE DIFFERENT THICKNESS, THE SCREW IS TO FIRST PENETRATE THE THINNER MEMBER, THEN PENETRATE THICKER PART, MEANING, THE SCREW HEAD IS IN CONTACT WITH THE THINNER MEMBER, UNLESS OTHERWISE NOTED.
9. TYPICAL METAL TRACK SHALL BE SAME GAUGE AS STUDS WHICH IT SUPPORTS, UNPUNCHED, WITH A FLANGE WIDTH OF 1 1/4 INCHES AND A DEPTH EQUAL TO THE NOMINAL STUD PLUS 2 TIMES THE TRACK THICKNESS PLUS THE RADIUS. NESTED TRACKS SHALL BE FABRICATED TO FILL THE OUTSIDE OF A TYPICAL METAL TRACK. DEEP LEG TRACKS SHALL HAVE A MINIMUM FLANGE WIDTH OF 2 INCHES. USE SLOTTED SLIP TRACKS WHERE SPECIFIED. SEE SECTIONS AND TYPICAL METAL STUD DETAILS.
10. METAL STUDS AND JOISTS SHALL NOT HAVE PUNCH-OUTS CLOSER THAN 10" CLEAR FROM THE END OF THE MEMBER OR AT INTERMEDIATE LATERAL BEARING POINTS OF THE MEMBER. METAL STUDS WHICH ARE PART OF BUILT-UP HEADER SECTIONS SHALL BE UNPUNCHED FULL LENGTH.
11. AT CONTRACTORS OPTION, ALTERNATIVE PRODUCTS (SUCH AS PROPRIETARY OR PRE-MANUFACTURED ATTACHMENTS) MAY BE USED TO CONNECT FRAMING ELEMENTS OR OTHER CFS MEMBERS TOGETHER. THE CONTRACTOR SHALL PROVIDE A SUBMITTAL FOR BUEHLER'S REVIEW THAT INCORPORATES ALL OF THE PROPOSED CFS CONNECTION SUBSTITUTIONS. ACCEPTABLE MANUFACTURERS INCLUDE:
   A. SIMPSON STRONG TIE
   B. THE STEEL NETWORK
   C. CLARKDIETRICH

COLD-FORMED METAL FRAMING SECTION PROPERTIES - SSMA C STUDS & JOISTS - S162 SECTIONS [2,3]
540SN002

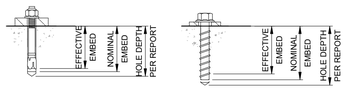
GAUGE/MIL	20/33		18/43		16/54		14/68		S STUDS & JOISTS
DESIGNATION	S162-33		S162-43		S162-54		S162-68		
MIN THICKNESS	0.0329		0.0428		0.0538		0.0677		
DEPTH "D"	Ix	Sx	Ix	Sx	Ix	Sx	Ix	Sx	
2 1/2"	0.235	0.180	0.302	0.240	0.370	0.284	0.450	0.357	
3 5/8"	0.551	0.268	0.710	0.372	0.873	0.444	1.069	0.574	
4"	0.692	0.299	0.892	0.417	1.098	0.498	1.346	0.648	
6"	1.793	0.577	2.316	0.767	2.860	0.916	3.525	1.164	
8"	3.384	0.710	4.500	1.019	5.600	1.229	7.070	1.663	
10"	-	-	7.523	1.302	9.391	1.572	11.978	2.154	
12"	-	-	-	-	14.298	1.914	18.390	2.645	

NOTES:
1. FOR COMPLETE SECTION DESIGNATIONS IN ACCORDANCE WITH SSMAOR SFIA STANDARDS, ADD MEMBER DEPTH TO FRONT OF INDICATED DESIGNATION. EXAMPLE: FOR 3 5/8" MEMBER WITH GAUGE/MIL OF 18/43, THE FULL DESIGNATION IS 362S162-43.
2. SECTION PROPERTIES SHOWN ARE EFFECTIVE PROPERTIES CONFORMING TO AISI A7.2 PER SSMA OR SFIA STANDARDS FOR MATERIAL STRENGTH NOTED IN COLD-FORMED METAL FRAMING NOTES.

POST-INSTALLED ANCHORS
305TN001

1. FOR CONCRETE CONSTRUCTION, POST-INSTALLED ANCHORS SHALL BE ONE OF THE FOLLOWING:
   A. ADHESIVE ANCHORS FOR THRD ROD & REBAR:
      a. HILTI HIT-HY 200 PER ESR-3187
      b. HILTI HIT-RE500 V3 PER ESR-3814
      c. SIMPSON SET-XP PER ESR-2508
      d. SIMPSON SET-3G PER ESR-4057
      e. DEWALT/PURE ESR-3298
   B. EXPANSION ANCHORS:
      a. HILTI KB-TZ2 PER ESR-4266
      b. SIMPSON STRONG BOLT 2 PER ESR-3037
      c. DEWALT/POWER-STUD+ SD2 ESR-2502
   C. SCREW ANCHORS:
      a. HILTI KWIK HUS-EZ (KH-EZ) PER ESR-3027
      b. SIMPSON TITEN HD PER ESR-2713
      c. DEWALT/SCREWBOLT+ PER ESR-3889
2. ANCHOR TYPE, SIZE & EMBEDMENT SHALL BE AS INDICATED IN DRAWINGS. POST-INSTALLED ANCHORS FOR REPAIR SHALL BE EVALUATED ON A CASE BY CASE BASIS. NOTIFY STRUCTURAL ENGINEER FOR REPAIRS.
3. ALL EMBEDMENT DEPTHS CALLED OUT IN DRAWINGS REFER TO EFFECTIVE EMBEDMENT UNLESS OTHERWISE NOTED. SEE DIAGRAM BELOW AND ICC REPORTS.
4. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN THE EVALUATION REPORT. PROVIDE MINIMUM EMBEDMENT PROVIDED IN ICC ESR REPORT UNLESS NOTED OTHERWISE.
5. PROVIDE SPECIAL INSPECTION AS INDICATED IN THE STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING.
6. WHEN INSTALLING POST-INSTALLED ANCHORS IN EXISTING CONCRETE OR MASONRY, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN. DO NOT INSTALL ANCHORS WITHIN 1 1/2" OF CMU HEAD JOINTS. DO NOT INSTALL ANCHORS IN PRESTRESSED CONCRETE ELEMENTS.
7. ANCHORS INSTALLED FROM THE BOTTOM INTO METAL DECK WITH CONCRETE SHALL BE INSTALLED IN THE CENTER OF THE LOW FLUTE OF THE DECKING UNLESS NOTED OTHERWISE IN EVALUATION REPORT. THE DECKING SHALL HAVE A MINIMUM THICKNESS OF 20 GAUGE. THE MINIMUM THICKNESS OF THE CONCRETE ABOVE THE HIGH FLUTE OF THE METAL DECK SHALL BE AS INDICATED IN THE EVALUATION REPORT. SEE EVALUATION REPORT FOR ADDITIONAL REQUIREMENTS, INCLUDING MINIMUM DIMENSIONS FOR FLUTE WIDTH AND DEPTH.
8. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT THE TIME OF ANCHOR INSTALLATION PER ACI 318, CHAPTER 17.
9. INSTALLER CERTIFICATION AND INSPECTION IS REQUIRED FOR HORIZONTAL AND UPWARDLY INCLINED ADHESIVE ANCHORS SUBJECTED TO SUSTAINED TENSION LOADING IN ACCORDANCE WITH ACI 318, CHAPTER 17.
10. IF TEMPERATURE OF BASE MATERIAL AT TIME OF ADHESIVE ANCHOR INSTALLATION IS 45 DEGREES FARENHEIT OR LOWER, AN "ACRYLIC" OR COLD WEATHER ADHESIVE IS REQUIRED. USE DEWALT AC200+, SIMPSON AT-XP, OR HILTI HIT-HY200 WHEN THIS OCCURS.
11. THE TESTING OF THE ANCHORS SHALL BE DONE BY A QUALIFIED TESTING AGENCY AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO THE GOVERNING AGENCY AND ARCHITECT/STRUCTURAL ENGINEER. SEE NOTES ON THIS SHEET FOR TESTING CRITERIA.

INSTALLED ANCHOR DIAGRAMS



EXPANSION ANCHOR SCREW ANCHOR

STRUCTURAL SPECIAL INSPECTIONS AND TESTING

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

POST-INSTALLED ANCHOR TESTING CRITERIA
305TN002

1. EXPANSION ANCHOR TESTING SHALL COMPLY WITH INSTALLATION TORQUE VALUES PROVIDED IN MANUFACTURER'S EVALUATION REPORT. EPOXY AND SCREW ANCHOR TESTING SHALL COMPLY WITH TENSION TEST VALUES SPECIFIED IN DRAWINGS. TESTING FREQUENCY SHALL COMPLY WITH CBC SECTION 1910A.5.3.
2. APPLY PROOF TEST LOADS TO EXPANSION ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE NUT AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS AS THE ORIGINAL NUT USING A TORQUE WRENCH TO APPLY THE TEST LOAD.
3. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE(S).
4. TEST EQUIPMENT (INCLUDING TORQUE WRENCHES) IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
5. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
   a. HYDRAULIC RAM METHOD: THE ANCHOR SHALL HAVE NO OBSERVABLE MOVEMENT FOR A MINIMUM OF 15 SECONDS AT THE APPLICABLE TEST LOAD. FOR EXPANSION AND SLEEVE TYPE ANCHORS, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE.
   b. TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS:
      EXPANSION TYPE:
      - ONE-QUARTER (1/4) TURN OF THE NUT FOR 3/8"Ø SLEEVE ANCHORS.
      - ONE-HALF (1/2) TURN OF THE NUT FOR 1/4"Ø AND LARGER ANCHORS.
6. PROVIDE SPECIAL INSPECTION AS NOTED IN THE ICC REPORT.
7. IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME TYPE AND INSTALLED BY THE SAME TRADE SHALL BE TESTED UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST FREQUENCY. ANCHORS PREVIOUSLY TESTED PRIOR TO FAILED TEST SHALL NOT BE RETESTED.
8. TORQUE EXPANSION ANCHORS TO THE VALUES SHOWN BELOW:

EXPANSION ANCHOR TORQUE TEST VALUE (FT-LB)

DIAMETER	HILTI KB-TZ2		SIMPSON STRONG BOLT 2		DEWALT POWER-STUD+ SD2	DEWALT POWER-STUD+ SD4 & SD6
	CARBON STEEL	STAINLESS STEEL	CARBON STEEL	STAINLESS STEEL	CARBON STEEL	STAINLESS STEEL
1/4"	4	6	4	4		6
3/8"	30	30	30	30	20	25
1/2"	50	40	60	65	40	40
5/8"	40	60	90	80	60	60
3/4"	110	125	150	150	110	110

HOSPITAL EQUIPMENT ANCHORAGE
100TN015

SUPPORTS AND ATTACHMENTS OF ALL EQUIPMENT TO BE INSTALLED AS A PART OF THIS PROJECT SHALL BE DETAILED ON CONSTRUCTION DOCUMENTS, EXCEPT THOSE EXEMPT BY THE 2019 CBC SECTION 1617A.1.18. EQUIPMENT SUPPORTS AND ATTACHMENTS SHALL BE APPROVED BY THE APPROPRIATE DESIGN PROFESSIONAL OF RECORD (RDP) AND OSHPD AS A PART OF FIELD REVIEWS/OBSERVATIONS. THE INSPECTOR OF RECORD (IOR) SHALL ASSURE THAT THE ABOVE REQUIREMENTS ARE ENFORCED.

EXEMPTION INCLUDE BUT ARE NOT LIMITED TO:
1. FURNITURE (EXCEPT STORAGE CABINETS).
2. TEMPORARY OR MOVABLE EQUIPMENT.
3. EQUIPMENT WEIGHING LESS THAN 400 POUNDS WITH A CENTER OF MASS 4 FEET OR LESS ABOVE THE ADJACENT FLOOR LEVEL.
4. EQUIPMENT WEIGHING 20 POUNDS OR LESS, OR A DISTRIBUTION SYSTEM WEIGHING 5 POUNDS PER FOOT OR LESS.

POWER-ACTUATED FASTENERS (SHOT PINS)
100SN016

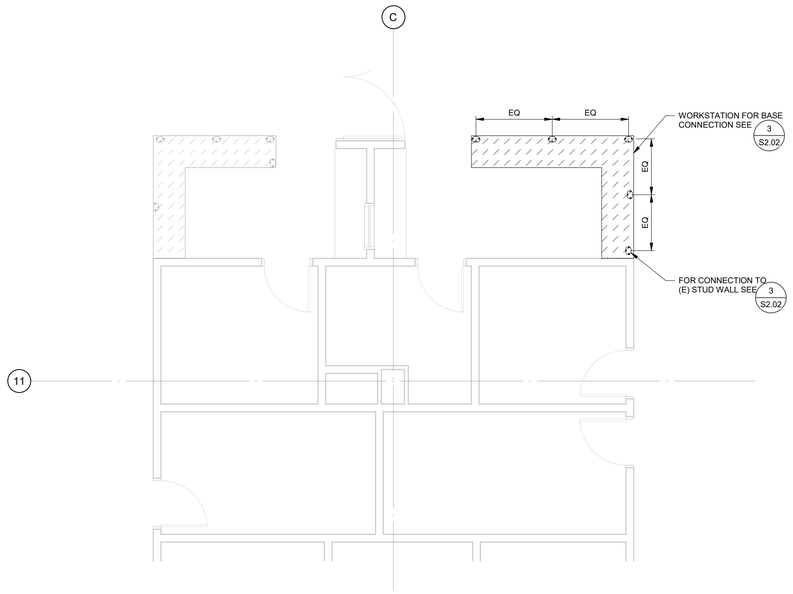
1. THESE NOTES GOVERN ALL CONDITIONS CALLED OUT ON THE PLANS AS 'SHOT PINS' UNLESS SPECIFICALLY NOTED OTHERWISE.
2. ALL SHOT PINS SHALL BE X-U UNIVERSAL KNURLED SHANK FASTENERS WITH SHANK DIAMETER OF 0.157" AS MANUFACTURED BY HILTI INCORPORATED IN ACCORDANCE WITH ICC ESR-2269 AND THE CURRENT EDITION OF THE HILTI 'PRODUCT TECHNICAL GUIDE' OR CSI KNURLED SHANK FASTENERS w/ SHANK DIAMETER OF 0.157" AS MANUFACTURED BY DEWALT IN ACCORDANCE w/ ICC ESR-2024.
3. ALL SHOT PINS SHALL INCLUDE STANDARD HILTI STEEL WASHERS OR STANDARD DEWALT STEEL WASHERS.
4. SHOT PINS DRIVEN INTO STEEL BASE MATERIAL SHALL MAINTAIN A MINIMUM EDGE DISTANCE AT ALL STEEL ELEMENTS OF 1/2" AND MINIMUM FASTENER SPACING SHALL BE 1". LENGTH OF PIN SHALL BE AS REQUIRED TO PENETRATE THRU STEEL MEMBER UNO. AT 3/4" THICK STEEL, PENETRATION NEED NOT EXCEED 1/2".
5. SHOT PINS DRIVEN INTO CONCRETE BASE MATERIAL SHALL MAINTAIN A MINIMUM EDGE DISTANCE AT ALL CONCRETE ELEMENTS OF 3" AND MINIMUM FASTENER SPACING SHALL BE 4". PINS SHALL HAVE 1 1/4" PENETRATION UNO. MINIMUM CONCRETE THICKNESS SHALL BE 3 TIMES THE PENETRATION DEPTH. CONCRETE SHALL ATTAIN FULL DESIGN STRENGTH PRIOR TO INSTALLING SHOT PINS.
6. SHOT PINS DRIVEN INTO 3 1/4" MINIMUM LIGHT WEIGHT CONCRETE FILL OVER 3"x 20GA MINIMUM METAL DECK MAY BE INSTALLED FROM THE TOP OR FROM THE BOTTOM IN EITHER THE HIGH OR LOW FLUTE. PINS INSTALLED FROM THE TOP SHALL BE SPACED AS NOTED ABOVE FOR TYPICAL CONCRETE ELEMENTS. PINS INSTALLED FROM THE BOTTOM IN THE HIGH FLUTES SHALL BE INSTALLED WITHIN 1" OF FLUTE CENTER. PINS INSTALLED FROM THE BOTTOM IN THE LOW FLUTES SHALL BE INSTALLED WITHIN 1" OF THE FLUTE CENTER AND SHALL BE NO CLOSER THAN 1 1/8" TO THE EDGE OF THE LOW FLUTE. PINS INSTALLED FROM THE BOTTOM SHALL BE SPACED NO CLOSER THAN 5 1/2" PARALLEL TO THE FLUTES. PINS SHALL HAVE 1" PENETRATION INTO CONCRETE UNO. CONCRETE SHALL ATTAIN FULL DESIGN STRENGTH PRIOR TO INSTALLING SHOT PINS.
7. SHOT PIN INSTALLERS SHALL BE CERTIFIED BY HILTI AND HAVE A CURRENT HILTI ISSUED OPERATORS LICENSE OR CERTIFIED BY DEWALT AND HAVE A CURRENT DEWALT ISSUED OPERATORS LICENSE. SHOT PIN INSTALLATION SHALL MEET ALL OSHA REQUIREMENTS.

ABBREVIATIONS
100SN003

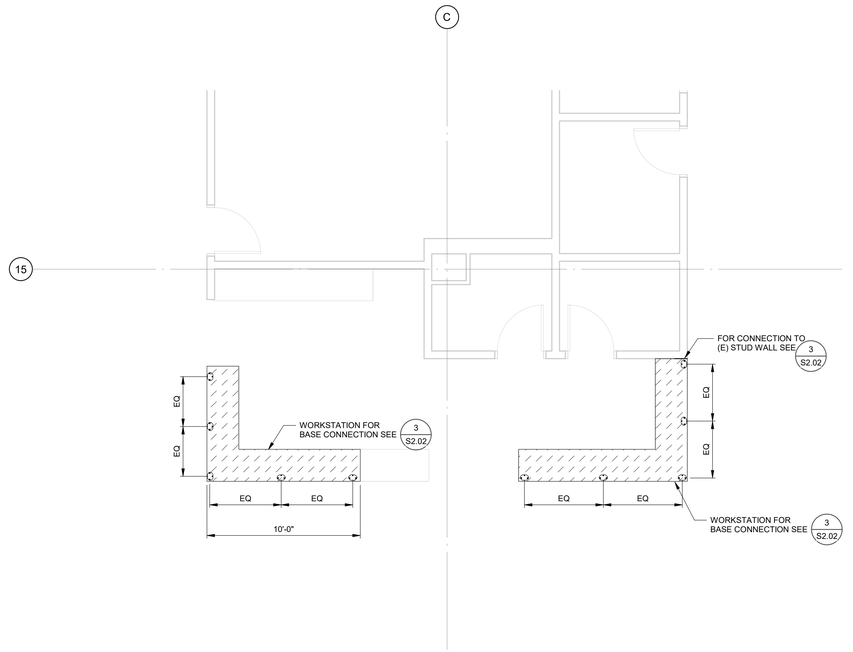
(A) - OCCURS ABOVE
AB - ANCHOR BOLT
ABV - ABOVE
ADDL - ADDITIONAL
AHU - AIR HANDLING UNIT
ALT - ALTERNATE
APPROX - APPROXIMATE
ARCH - ARCHITECTURAL
(B) - OCCURS BELOW
BLDG - BUILDING
BLKG - BLOCKING
BLW - BELOW
BM - BEAM
B.O. - BOTTOM OF
BOF - BOTTOM OF FOOTING
BOTT - BOTTOM
BRCG - BRACING
BRG - BEARING
BTWN - BETWEEN
BYND - BEYOND
CC - CENTER TO CENTER
CG - CENTER OF GRAVITY
CJ - CONSTRUCTION JOINT
CJP - COMPLETE JOINT PENETRATION
CL - CENTERLINE
CLG - CEILING
CLR - CLEAR
CMU - CONCRETE MASONRY UNIT
COL - COLUMN
CONC - CONCRETE
CONN - CONNECTION
CONT - CONTINUOUS
CONTR - CONTRACTOR
COORD - COORDINATE
CSK - COUNTERSINK
DBL - DOUBLE
DF - DOUGLAS FIR
DIAG - DIAGONAL
DL - DEAD LOAD
DWG - DRAWING
(E) - EXISTING
EA - EACH
EF - EACH FACE OR EDGE FASTENER
EJ - EXPANSION JOINT
ELEV - ELEVATION
EN - EDGE NAILING
EOS - EDGE OF SLAB
EQ - EQUAL
EW - EACH WAY
FB - FACE OF BLOCK/BRICK OR FLAT BAR
FC - FACE OF CONCRETE
FDN - FOUNDATION
FF - FINISH FLOOR
FRMG - FRAMING
FRT - FIRE RETARDANT TREATED
FS - FACE OF STUD OR FAR SIDE
FTG - FOOTING
GA - GAUGE OR GAGE
GALV - GALVANIZED
GLB - GLUED LAMINATED BEAM
GR - GRADE
GYP - GYPSUM
HD - HOLDDOWN
HDR - HEADER
HGR - HANGER
HK - HOOK
HORIZ - HORIZONTAL
HSB - HIGH STRENGTH BOLT
HSS - HOLLOW STRUCTURAL SECTION
HT - HEIGHT
JH - JOIST HANGER
LL - LIVE LOAD
LLH - LONG LEG HORIZONTAL
LLV - LONG LEG VERTICAL
LONGIT - LONGITUDINAL
LS - LAG SCREW
LW - LIGHTWEIGHT
MECH - MECHANICAL
MFR - MANUFACTURER
MI - MALLEABLE IRON
× - MARK
MTL - METAL
(N) - NEW
NIC - NOT IN CONTRACT
NS - NEAR SIDE
NTS - NOT TO SCALE
NW - NORMAL WEIGHT
OC - OVER
OH - OPPOSITE HAND
OPNG - OPENING
OSB - ORIENTED STRAND BOARD
PC - PIECE
PERP - PERPENDICULAR
PJP - PARTIAL JOINT PENETRATION
PL - PLATE
PT - PRESSURE TREATED
PW - PUDDLE WELD
REINF - REINFORCING OR REINFORCEMENT
REQD - REQUIRED
RWD - REDWOOD
SC - SLIP CRITICAL
SCH - SCHEDULE
SEOR - STRUCTURAL ENGINEER OF RECORD
SHTG - SHEATHING
SIM - SIMILAR
SJ - SLAB CONTROL JOINT
SMS - SHEET METAL SCREW
SOG - SLAB-ON-GRADE
SP - STRUCTURAL PANEL
SPCG - SPACING
SQ - SQUARE
STD - STANDARD
STFNR - STIFFENER
STGRD - STAGGERED
STL - STEEL
STRUCT - STRUCTURAL
SW - SHEAR WALL
T&B - TOP & BOTTOM
T&G - TONGUE & GROOVE
THRD - THREADED
TN - TOE NAIL
T.O. - TOP OF
TOC - TOP OF CONCRETE (SLAB UNO)
TOF - TOP OF FOOTING OR TOP OF FRAMING
TOS - TOP OF STEEL
TOW - TOP OF WALL
TRANS - TRANSVERSE
TYP - TYPICAL
UNO - UNLESS NOTED OTHERWISE
VERT - VERTICAL
VIF - VERIFY IN FIELD
WF - WIDE FLANGE
WHS - WELDED HEADED STUD
WP - WORK POINT
WS - WOOD SCREW
WWF - WELDED WIRE FABRIC
XS - EXTRA STRONG
XXS - DOUBLE EXTRA STRONG
Ø - ROUND OR DIAMETER

STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING
110TN001

1. SPECIAL INSPECTIONS AND TESTING SHALL BE PROVIDED BY A TESTING AND INSPECTION AGENCY, EMPLOYED BY THE OWNER (OR OWNER'S AUTHORIZED AGENT), AND APPROVED BY THE BUILDING OFFICIAL TO PROVIDE SPECIAL INSPECTIONS AND TESTING FOR THE PARTICULAR TYPE OF CONSTRUCTION.
2. TABLES OF SPECIAL INSPECTIONS AND TESTING ARE DERIVED FROM THE STRUCTURAL PROVISIONS OF THE CBC AND REFERENCED STANDARDS AND ARE FOR REFERENCE ONLY. THE INCLUDED TABLES ARE PROVIDED FOR THE CONVENIENCE OF THE OWNER, TESTING AGENCY AND CONTRACTOR IN DEVELOPING THE SCOPE OF WORK FOR REQUIRED TESTING AND INSPECTION OF STRUCTURAL MATERIALS AND COMPONENTS. FINAL DEFINITION OF THIS SCOPE OF WORK IS TO BE DETERMINED BY THE TESTING AGENCY AND THE OWNER (OR OWNER'S AUTHORIZED AGENT).
3. FREQUENCY OF SPECIAL INSPECTIONS AND TESTING SHALL BE, AT A MINIMUM, AS NOTED FOR THE INDIVIDUAL ELEMENTS WITHIN THE TABLES BELOW. THE CONTRACTOR SHALL COORDINATE TIMING OF SPECIAL INSPECTIONS AND TESTING WITH THE SPECIAL INSPECTION AND TESTING AGENCY.
4. PRIOR TO THE START OF CONSTRUCTION, THE TESTING AND INSPECTION AGENCY SHALL PROVID



PARTIAL PLAN 1 S2.01 — 1/4" = 1'-0"
PARTIAL THIRD FLOOR FRAMING PLAN



PARTIAL PLAN 2 S2.01 — 1/4" = 1'-0"
LEVEL 3

HGA

222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET,
SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET,
SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA
95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

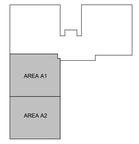
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

REGISTERED PROFESSIONAL ENGINEER
WARREN R. POTTEBAUM
No. 4791
STRUCTURAL
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

THIRD FLOOR PARTIAL PLAN

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

S2.01

CONSTRUCTION DOCUMENT

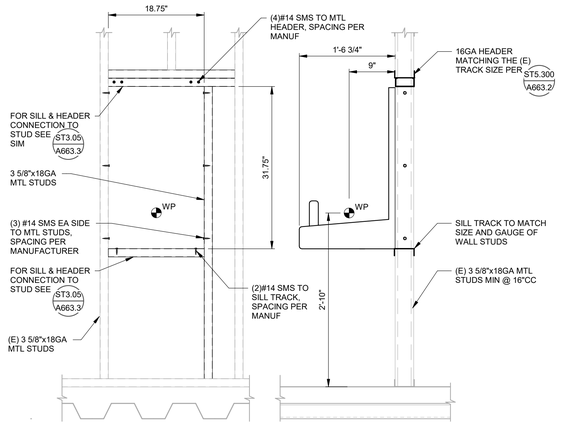
© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 4/23/2024 1:52:45 PM c:\revit\2022\3122_Natividad Med Surg P2P_Central_427.rvt\standard

A S2.02 EQUIPMENT SCHEDULE

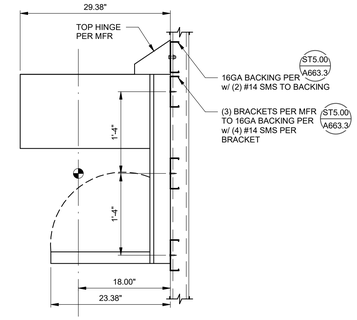
ID	DESCRIPTION	WT (LBS)	MOUNTING				ANCHORAGE DETAIL	COMMENTS
			WALL	FLOOR	COUNTERTOP	SUSPENDED		
	WATER FILLER	120	X				1/S2.02	
	PROXIMITY WALL MOUNTED COMPUTER WORKSTATION UNIT	60	X				2/S2.02	
	SAMSUNG 32" TV MONITOR	200	X				4/S2.02	
	REFRIGERATOR	800	X				5/S2.02	w/ CONTENT
	LOCKERS	300	X	X			7/S2.02	w/ CONTENT

BC1



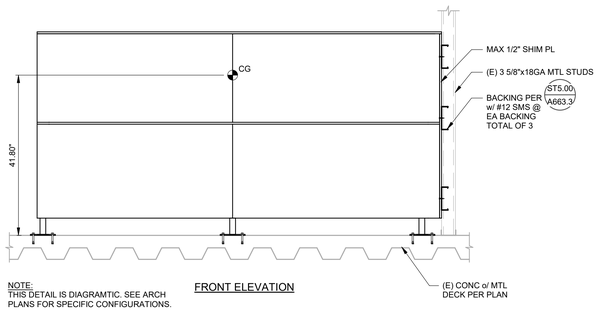
ELKAY WATER FILLER
MAX WT = 120#

DETAIL 1 S2.02 — 1" = 1'-0"



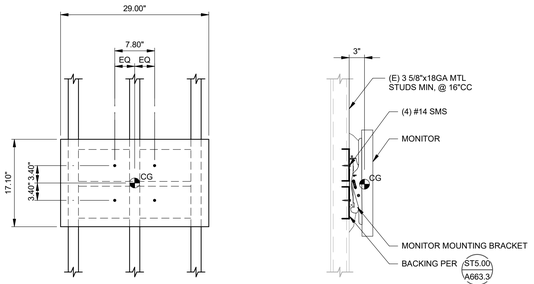
PROXIMITY EMBRACE EXT28
COMPUTER WORKSTATION
MAX WT = 100# (INCLUDING MONITOR AND MOUSE)

DETAIL 2 S2.02 — 1" = 1'-0"



NOTE:
THIS DETAIL IS DIAGRAMTIC. SEE ARCH PLANS FOR SPECIFIC CONFIGURATIONS.

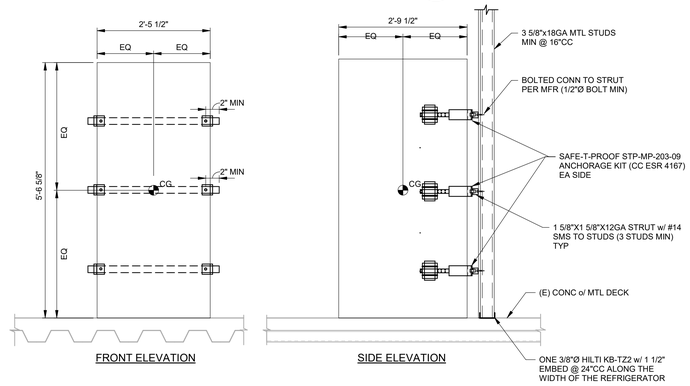
FRONT ELEVATION



FRONT ELEVATION SIDE ELEVATION

TV MONITOR
MAX WT = 20#

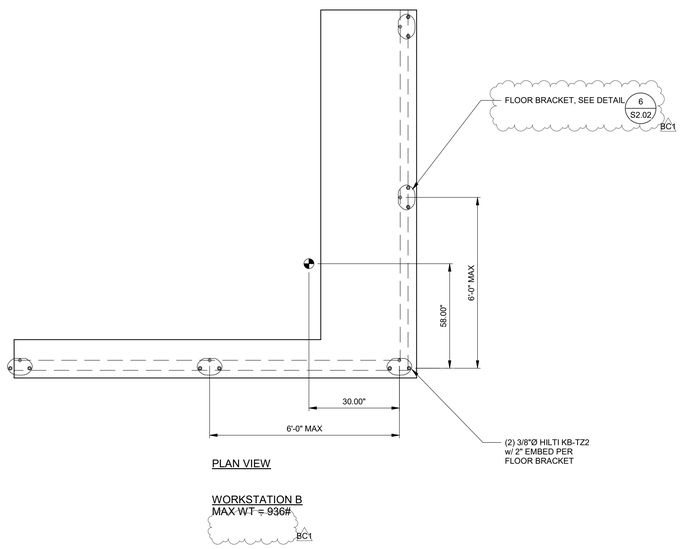
DETAIL 4 S2.02 — 1" = 1'-0"



FRONT ELEVATION SIDE ELEVATION

REFRIGERATOR
MAX WT = 800# (INCLUDING CONTENTS)

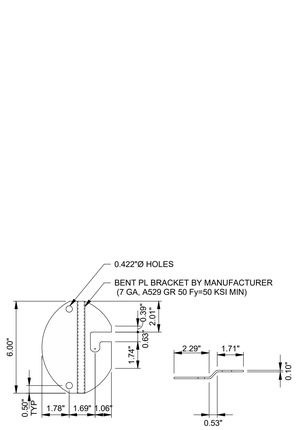
DETAIL 5 S2.02 — NO SCALE



PLAN VIEW

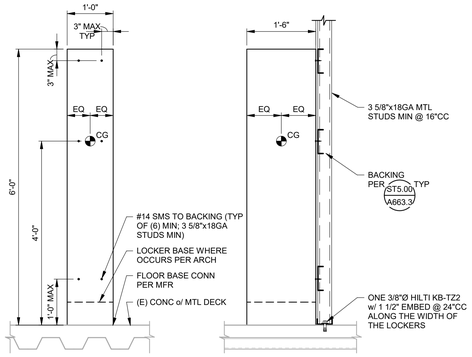
WORKSTATION B
MAX WT = 936#
BC1

DETAIL 3 S2.02 — 3/4" = 1'-0"



PLAN SIDE

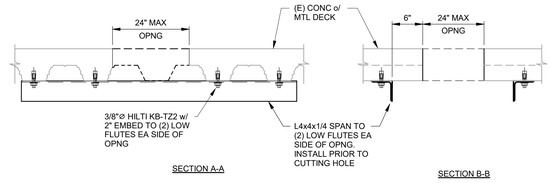
DETAIL 6 S2.02 — NO SCALE — BC1



FRONT ELEVATION SIDE ELEVATION

LOCKERS
MAX WT = 300# (INCLUDING CONTENTS)

DETAIL 7 S2.02 — NO SCALE



SECTION A-A SECTION B-B

NOTES:
1. APPLIES AT OPENINGS FROM 6" TO 24" WIDE IN CONCRETE OVER METAL DECK.
2. THE MIN CLR SPACING BETWEEN OPENINGS SHALL BE '2 x OPENING WIDTH' UNLESS OPENINGS ARE GROUPED AND TREATED AS A SINGLE COMBINED OPENING OF 2'-0" MAX WIDTH.

DETAIL OPENINGS 6" TO 24" IN METAL DECK w/ FILL — 8 S2.02 — 1" = 1'-0"
BC1

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

REGISTERED PROFESSIONAL ENGINEER
WARREN R. POTTENBAUM
No. A761
STRUCTURAL
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK 1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

DETAILS

DATE: APRIL 16, 2024

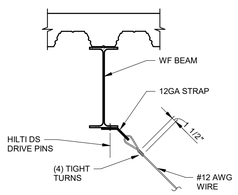
CONSTRUCTION DOCUMENTS

S2.02

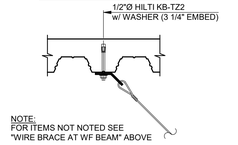
CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 9/4/2024 1:17:33 PM c:\revit\20022-24\22 Natividad Med Surg R22 Central 4zahanie8LVNSr.rvt



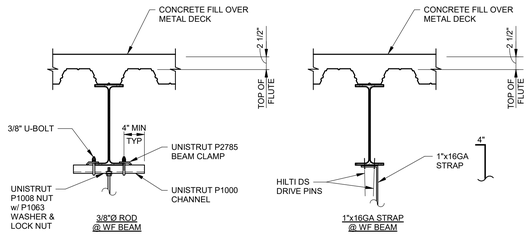
WIRE BRACE AT WF BEAM

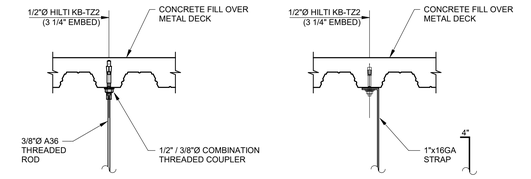


NOTE:
FOR ITEMS NOT NOTED SEE
"WIRE BRACE AT WF BEAM" ABOVE

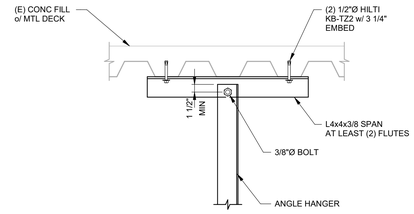
WIRE BRACE AT LOW FLUTE

DETAIL 1/S2.03 — **WIRE BRACE ATTACHMENT** — 1" = 1'-0"
02100.05C - Wire Brace Details

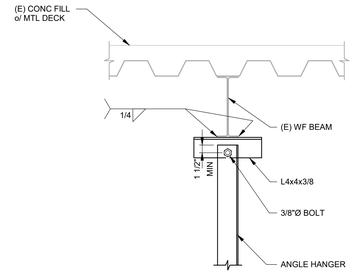




DETAIL 2/S2.03 — **HANGER AT DUCT** — 1" = 1'-0"
03100104 - Hanger Detail at Ducts

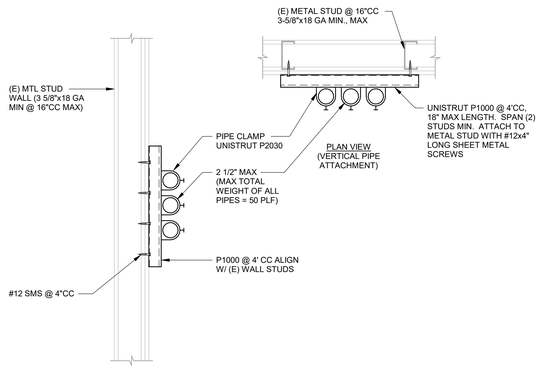


ANGLE HANGER AT METAL DECK



ANGLE HANGER AT WF BEAM

DETAIL 3/S2.03 — 1" = 1'-0"
MK_100



SIDE ELEVATION

HORIZONTAL PIPE
ATTACHMENT AT METAL
STUD WALL

DETAIL 4/S2.03 — 1 1/2" = 1'-0"
10041401 - PIPE WALL SUPPORT

HGA

222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET,
SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET,
SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA
95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION
BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353

REVIEWED IN ACCORDANCE WITH
THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

REGISTERED PROFESSIONAL ENGINEER
WARREN R. POTTENBAUM
No. 4761
STRUCTURAL
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK 1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

DETAILS

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

S2.03

BC1

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 9/4/2024 1:17:34 PM c:\revit\2022\0122 Natividad Med Surg F22 Central Asset\arch\S_NVS.rvt

ABBREVIATIONS

AAV	AUTOMATIC AIR VENT	ID	INSIDE DIAMETER
AC	AIR CONDITIONING	IN	INCH(ES)
ACCEPT	ACCEPTANCE	INPLV	INTEGRATED PART LOAD VALUE
ACU	AIR CONDITIONING UNIT	KW	KILOWATT
AD	ACCESS DOOR	KWH	KILOWATT HOUR
AFF	ABOVE FINISHED FLOOR	L	LENGTH
AFMS	AIR FLOW MEASURING STATION	LAT	LEAVING AIR TEMPERATURE
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	LBS	POUNDS
AG	AIR GAP	LDB	LEAVING DRY BULB
AHJ	AUTHORITY HAVING JURISDICTION	LF	LINEAR FEET
AHU	AIR HANDLING UNIT	LP	LOW PRESSURE
AMB	AMBIENT	LPC	LOW PRESSURE CONDENSATE
A	AMPERE	LPS	LOW PRESSURE STEAM
AP	ACCESS PANEL	LWB	LEAVING WET BULB
APPROX	APPROXIMATELY	LWT	LEAVING WATER TEMPERATURE
ARCH	ARCHITECT	M	MOTOR
ARI	AMERICAN REFIRGERATION INSTITUTE	MA	MIXED AIR
AS	AIR SEPARATOR	MAD	MIXED AIR DAMPER
AUTO	AUTOMATIC	MAX	MAXIMUM
AUX	AUXILIARY	MBH	THOUSAND BTU PER HOUR
B	BOILER	MC	MECHANICAL CONTRACTOR
BAS	BUILDING MANAGEMENT SYSTEM	MCA	MINIMUM CIRCUIT AMPACITY
BDD	BACKDRAFT DAMPER	MCC	MOTORIZED CONTROL CENTER
BHP	BRAKE HORSEPOWER	MD	MOTORIZED DAMPER
BOD	BOTTOM OF DUCT	MECH	MECHANICAL
BOP	BOTTOM OF PIPE	MERV	MINIMUM EFFICIENCY RATING VALUE
BFP	BACKFLOW PREVENTER	MFR	MANUFACTURER
BSMT	BASEMENT	MIN	MINIMUM
BTU	BRITISH THERMAL UNIT	MOCP	MINIMUM OVER CURRENT PROTECTION
BTUH	BTU PER HOUR	MV	MANUAL AIR VENT
BV	BALL VALVE OR BALANCING VALVE	(N)	NEW
BYV	BUTTERFLY VALVE	N/A	NOT APPLICABLE
C	COMMON, CONDENSATE OR CONDUIT	NC	NORMALLY CLOSED
CA	CONTROL AIR	NIC	NOT IN CONTRACT
CAP	CAPACITY	NO	NORMALLY OPEN OR NUMBER
CAV	CONSTANT AIR VOLUME	NOM	NOMINAL
CB	CHILLED BEAM	NPSH	NET POSITIVE SUCTION HEAD
CC	COOLING COIL OR CONTROLS CONTRACTOR	NTS	NOT TO SCALE
CEG	CEILING EXHAUST GRILLE	OA	OUTSIDE AIR
CER	CEILING EXHAUST REGISTER	OAD	OUTSIDE AIR DAMPER
CFF	CAP FOR FUTURE	OAT	OUTSIDE AIR TEMPERATURE
CFM	CUBIC FEET PER MINUTE	OBD	OPPOSED BLADE DAMPER
CFS	CUBIC FEET PER SECOND	OC	ON CENTER
CHWP	CHILLED WATER PUMP	OD	OUTSIDE DAMPER
CHWR	CHILLED WATER RETURN	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CHWS	CHILLED WATER SUPPLY	OFOI	OWNER FURNISHED OWNER INSTALLED
CH	CHILLER	OPER	OPERATING
CHV	CHECK VALVE	OV	OUTLET VELOCITY
CL	CENTERLINE	P	PUMP OR PRESSURE OR POLE
CLG	CEILING	PC	PUMPED CONDENSATE
CO	CLEANOUT	PD	PRESSURE DROP
CONN	CONNECTION	PF	PREFILTER
CONT	CONTINUATION	PG	PIPE GUIDE OR PRESSURE GAUGE
CONTR	CONTRACTOR	PH	PHASE (ELECTRICAL)
COP	COEFFICIENT OF PERFORMANCE	PHC	PREHEAT COIL
CP	CONTROL PANEL OR CONDENSATE PUMP	POC	POINT OF CONNECTION
CR	CONDENSATE RETURN	POD	POINT OF DISCONNECTION
CRG	CEILING RETURN GRILLE	PRESS	PRESSURE
CRR	CEILING RETURN REGISTER	PRV	PRESSURE REDUCING VALVE
CSD	CEILING SUPPLY DIFFUSER	PS	PRESSURE SENSOR
CTE	CONNECT TO EXISTING	PSI	POUNDS PER SQUARE INCH
CUFT	CUBIC FEET	PSIA	PSI ABSOLUTE
CUIN	CUBIC INCHES	PSIG	PSI GAUGE
CV	CONSTANT VOLUME OR CONTROL VALVE	QTY	QUANTITY
CW	COLD WATER	R	RELOCATE, RISE, RISER
CWP	CONDENSER WATER PUMP	RA	RETURN AIR
CWR	CONDENSER WATER RETURN	RAD	RETURN AIR DAMPER
CWS	CONDENSER WATER SUPPLY	RD	REFRIGERANT DISCHARGE
DBT	DRY BULB TEMPERATURE	REF	ROOFTOP EXHAUST FAN
DDC	DIRECT DIGITAL CONTROL	REFRIG	REFRIGERATION
DIA	DIAMETER	REV	REVISE, REVISION OR REVOLUTIONS
DIFF	DIFFERENCE	RF	RETURN FAN
DN	DOWN	RH	RELATIVE HUMIDITY
DP	DIFFERENTIAL PRESSURE	RHC	REHEAT COIL
DPT	DEW POINT TEMPERATURE	RHT	RADIANT HEATER
DSD	DUCT SMOKE DETECTOR	RPM	REVOLUTIONS PER MINUTE
DWG(S)	DRAWINGS(S)	RS	REFRIGERANT SUCTION
DX	DIRECT EXPANSION	RTU	ROOFTOP UNIT
(E)	EXISTING	S	SUPPLY OR SLOPE
EA	EXHAUST AIR OR EACH	SA	SUPPLY AIR
EAD	EXHAUST AIR DAMPER	SCFM	CFM, STANDARD CONDITIONS
EAT	ENTERING AIR TEMPERATURE	SD	SMOKE DAMPER
EC	ELECTRICAL CONTRACTOR	SEER	SEASONAL ENERGY EFFICIENCY RATING
ECON	ECONOMIZER	SEN	SENSIBLE
EDB	ENTERING DRY BULB TEMPERATURE	SF	SUPPLY FAN OR SQUARE FEET
EWT	ENTERING WATER TEMPERATURE	SIU	SPLIT INDOOR UNIT
EER	ENERGY EFFICIENCY RATING	SOU	SPLIT OUTDOOR UNIT
EF	EXHAUST FAN	SP	STATIC PRESSURE
EFF	EFFICIENCY	SPD	SPLITTER DAMPER
ELEC	ELECTRICAL	SPEC	SPECIFICATIONS
EQUIP	EQUIPMENT	SQ IN	SQUARE INCH
(ER)	EXISTING RELOCATED	ST	STRAINER OR SOUND TRAP
ESP	EXTERNAL STATIC PRESSURE	STD	STANDARD
ET	EXPANSION TANK		
EWB	ENTERING WET BULB TEMPERATURE	T	THERMOSTAT (NOT TEMPERATURE SENSOR)
EXH	EXHAUST	T	THERMOMETER
EXT	EXTERNAL	TCP	TEMPERATURE CONTROL PANEL
F	FAHRENHEIT	TDH	TOTAL DYNAMIC HEAD
FPB	FAN POWERED BOX	TEMP	TEMPERATURE
FC	FLEXIBLE CONNECTION OR FAIL CLOSED	TFA/TFB	TO FLOOR ABOVE/BELOW
FCU	FAN COIL UNIT	TI	TENANT IMPROVEMENT
FD	FIRE DAMPER	TRG	TRANSFER GRILLE
FF	FINAL FILTER OR FINISHED FLOOR	TS	TEMPERATURE SENSOR
FFA/FFB	FROM FLOOR ABOVE/BELOW	TSP	TOTAL STATIC PRESSURE
FO	FAIL OPEN	TT	TEST TAP OR TEST TEE
FPI	FINS PER INCH	TXV	THERMAL EXPANSION VALVE
FPM	FEET PER MINUTE	(TYP)	TYPICAL
FPS	FEET PER SECOND	U	HEAT TRANSFER COEFFICIENT
FSD	FIRE/SMOKE DAMPER	UG	UNDERGROUND
FT	FOOT OR FEET	UH	UNIT HEATER
GA	GAUGE	UON	UNLESS OTHERWISE NOTED
GAL	GALLONS	V	VENT OR VOLUME OR VELOCITY
GALV	GLAVANIZED	VAV	VARIABLE AIR VOLUME
GC	GENERAL CONTRACTOR	VB	VACUUM BREAKER
GLV	GLOBE VALVE	VD	VOLUME DAMPER
GPM	GALLONS PER MINUTE	VEL	VELOCITY
GND	GROUND	VERT	VERTICAL
GV	GATE VALVE	VFD	VARIABLE FREQUENCY DRIVE
H	HEIGHT	VOL	VOLUME
HB	HOSE BIBB	W	WASTE OR WIDTH OR WATTS
HC	HEATING COIL	W/	WITH
HD	HEAD	W/O	WITHOUT
HOR	HORIZONTAL	WB	WET BULB TEMPERATURE
HP	HIGH PRESSURE	WC	WATER COLUMN
HP	HORSEPOWER	WEG	WALL EXHAUST GRILLE
HP	HEAT PUMP	WG	WATER GAUGE
HPC	HIGH PRESSURE CONDENSATE	WP	WORKING PRESSURE
HPS	HIGH PRESSURE STEAM	WPD	WATER PRESSURE DROP
HR	HOUR(S)	WRR	WALL RETURN REGISTER
HRU	HEAT RECOVERY UNIT	WSHP	WATER-SOURCE HEAT PUMP
HS	HUMIDITY SENSOR	WSR	WALL SUPPLY REGISTER
HV	HOSE VALVE	WT	WEIGHT
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	Z	ZONE
HW	HEATING WATER	ZD	ZONE DAMPER
HWP	HEATING WATER PUMP		
HWR	HEATING WATER RETURN		
HWS	HEATING WATER SUPPLY		
HX	HEAT EXCHANGER		
HZ	FREQUENCY (HERTZ)		

HVAC LEGEND

NOTE: NOT ALL SYMBOLS OR ABBREVIATIONS ARE APPLICABLE TO THIS PROJECT. REFER TO DETAILS AND NOTES FOR MOUNTING HEIGHTS.

GENERAL

SYMBOL	DESCRIPTION
	NEW WORK
(E)	EXISTING WORK TO REMAIN
(D)	EXISTING WORK TO BE REMOVED
(F)	FUTURE WORK
(ER)	EXISTING RELOCATED
℄	CENTER LINE
	POINT OF CONNECTION OR POINT OF DISCONNECTION
1 M-1	DETAIL 1, DRAWING M-1
A M-1	SECTION A, DRAWING M-1
1 M-1	ELEVATION 1, DRAWING M-1
EXH 1	RISER IDENTIFICATION EXHAUST #1
HP 1	EQUIPMENT IDENTIFICATION HEAT PUMP UNIT #1
1	KITCHEN EQUIPMENT TAG
#	KEYED NOTE
150	DIRECTION OF TRANSFER AIRFLOW (150 CFM)
78°F	78 DEGREES FAHRENHEIT

PIPING

SYMBOL	DESCRIPTION
	DIRECTION OF SLOPE
	DIRECTION OF FLOW
	PIPE UP (OR UP & DOWN WITH NOTATION)
	PIPE DOWN
	PIPE DROP/PIPE RISE
	TOP CONNECTION - BRANCH LINE
	BOTTOM CONNECTION - BRANCH LINE
	PIPE ANCHOR
	TEE UP
	TEE DOWN
	STRAINER
	STRAINER WITH BLOW OFF
	INLINE PUMP
	BASE MOUNTED PUMP
	TEST TAP (PETE'S PLUG)
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	VACUUM BREAKER
	VENT THRU ROOF
	PIPE GUIDE
	EXPANSION JOINT
	FLEXIBLE CONNECTOR
	UNION
	CAPPED OR PLUGGED TEE
	BLIND FLANGE, CAP
	CONCENTRIC REDUCER
	EXPANSION LOOP
	VALVE ON RISE
6"	PIPE SIZE (DIAMETER IN INCHES)

STEAM

SYMBOL	DESCRIPTION
HPS	HIGH PRESSURE STEAM
LPS	LOW PRESSURE STEAM
HPC	HIGH PRESSURE CONDENSATE
LPC	LOW PRESSURE CONDENSATE
C PC	GRAVITY OR PUMPED CONDENSATE
CR	CONDENSATE RETURN
SV	STEAM VENT PIPE
	STEAM TRAP
BBD	BOILER BLOW DOWN
FOB	ECCENTRIC REDUCER (STEAM PIPE FLAT ON BOTTOM (FOB))

VALVES & GAUGES

SYMBOL	DESCRIPTION
	BALL VALVE
	SOLENOID CONTROL VALVE
	PRESSURE AND TEMP. RELIEF VALVE
	BUTTERFLY VALVE
TS	MOTORIZED BUTTERFLY VALVE
	GATE VALVE
	BALANCING VALVE
	ANGLE GATE VALVE
	GLOBE VALVE
	ANGLE GLOBE VALVE
	CHECK VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	NON-SLAM WAFER CHECK VALVE
	PRESSURE REDUCING VALVE (PRV)
	DIAPHRAGM VALVE
	LOCK SHIELD VALVE
	NEEDLE VALVE
	QUICK OPENING VALVE
	VENTURI FLOW METER
	PRESSURE GAUGE
	PRESS. GAUGE WITH COCK AND SNUBBER
	THERMOMETER

HYDRONIC

SYMBOL	DESCRIPTION
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN

CONTROLS

SYMBOL	DESCRIPTION
TS	TEMPERATURE SENSOR
T	THERMOSTAT OR THERMOMETER
CO2	CARBON DIOXIDE SENSOR
OS	OCCUPANCY SENSOR
H	HUMIDITY SENSOR OR HUMIDISTAT
SP	STATIC PRESSURE SENSOR
RS	REFRIGERANT SENSOR
CO	CARBON MONOXIDE SENSOR
H	HYDROGEN SENSOR
DSD	DUCT SMOKE DETECTOR
TS	TEMPERATURE SENSOR
SP	STATIC PRESSURE SENSOR
PS	PRESSURE SENSOR OR SWITCH
DPS	DIFFERENTIAL PRESSURE SENSOR
AFMS	AIR FLOW MEASURING STATION
HS	HUMIDITY SENSOR
FS	FLOW SENSOR OR SWITCH
FM	FLOW METER
CS	CURRENT SENSOR
M	MOTOR
A	ACTUATOR
HM	HYDROGEN MONITOR
RM	REFRIGERANT MONITOR
AI	ANALOG INPUT
AO	ANALOG OUTPUT
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
BAS	BUILDING AUTOMATION SYSTEM
PI	PULSING INPUT

WALL / CEILING MOUNTED DEVICE

EQUIPMENT / SYSTEM MOUNTED DEVICE

MISCELLANEOUS

SYMBOL	DESCRIPTION
RD	REFRIGERANT DISCHARGE
RS	REFRIGERANT SUCTION
	PNEUMATIC CONTROL VALVE
A	AIR LINE
ST	SOUND TRAP
CC	COOLING COIL
HC	HEATING COIL
RHT	RADIANT HEATER
BHT	BASEBOARD HEATER
CB	CHILLED BEAM
	THRUST BLOCK

DUCTWORK

SYMBOL	DESCRIPTION
AD/AP	ACCESS DOOR / ACCESS PANEL
	FLEXIBLE CONNECTION
	FLEXIBLE DUCT RUNOUT TO DIFFUSER
12x6	RECTANGULAR DUCT SIZE (WIDTH x DEPTH IN INCHES)
18ø	ROUND DUCT SIZE (DIAMETER IN INCHES)
24x12ø	OVAL DUCT SIZE (WIDTH x DEPTH IN INCHES)
	DUCT THROUGH BEAM PENETRATION
R D	DUCT OFFSET (RISE OR DROP)
VD RVD	VOLUME DAMPER OR REMOTE VOLUME DAMPER
FD SD FSD	FIRE, SMOKE OR FIRE/SMOKE DAMPER
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	EXHAUST DUCT UP
	EXHAUST DUCT DOWN
	RETURN DUCT UP
	RETURN DUCT DOWN
	CROSS SECTION OF SUPPLY DUCT
	CROSS SECTION OF EXHAUST AIR DUCT
	CROSS SECTION OF RETURN AIR DUCT
	CROSS SECTION OF ROUND DUCT
	DUCT ELBOW WITH TURNING VANES
	SMOOTH RADIUS DUCT ELBOW WITHOUT TURNING VANES
	CONICAL BRANCH FITTING
	45 DEGREE BOOT LO-LOSS BRANCH FITTING
	WYE BRANCH FITTING
12x6 M	ACOUSTICAL LINING DUCT (DIMENSION IS INSIDE DIMENSION)
	MOTORIZED DAMPER INSIDE DUCT
TAG NECK SIZE-CFM	TRANSFER DUCT (WITH LINER)
8' - 11" BOD	INDICATES 8'11" TO BOTTOM OF DUCT
TAG NECK SIZE-CFM	RECTANGULAR OR ROUND SUPPLY DIFFUSER OR REGISTER (SEE SCHEDULE). 4-WAY THROW UNLESS INDICATED OTHERWISE. EXAMPLE: SB12X12-400 REFERS TO TAG SB WITH 12"X12" NECK AND 400 CFM
TAG NECK SIZE-CFM	RECTANGULAR OR ROUND EXHAUST GRILLE OR REGISTER (SEE SCHEDULE)
TAG NECK SIZE-CFM	RECTANGULAR OR ROUND RETURN GRILLE OR REGISTER (SEE SCHEDULE)
TAG NECK SIZE-CFM	WALL SUPPLY GRILLE OR REGISTER (SEE SCHEDULE)
TAG NECK SIZE-CFM	WALL RETURN OR EXHAUST GRILLE OR REGISTER (SEE SCHEDULE)
TAG NECK SIZE-LENGTH-CFM	LINEAR SLOT DIFFUSER (SEE SCHEDULE FOR NUMBER OF SLOTS). 2-WAY THROW UNLESS NOTED OTHERWISE. EXAMPLES: SN10-48-250 REFERS TO TAG SN WITH 10" ROUND NECK, 48" SLOT LENGTH AND 250 CFM.
	VARIABLE AIR VOLUME TERMINAL UNIT
	VARIABLE AIR VOLUME TERMINAL UNIT W/ REHEAT
	FAN POWERED TERMINAL UNIT
	FAN POWERED TERMINAL UNIT W/ REHEAT

HVAC DRAWING LIST

M000	MECHANICAL LEGEND AND ABBREVIATIONS
M001	MECHANICAL SHEET SPECIFICATIONS
M002	BASIS OF DESIGN AND TABULATED DATA
M101	LEVEL 3 - HVAC DEMOLITION PLAN
M203	LEVEL 3 - HVAC PLAN
M901	MECHANICAL DETAILS

HGA

222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353

KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

CHRISTOPHER M. LEE — No. M 41585 — EXP. 9/30/2025 — MECHANICAL — STATE OF CALIFORNIA
5/22/2024

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

MECHANICAL LEGEND AND ABBREVIATIONS

DATE: APRIL, 16, 2024

CONSTRUCTION DOCUMENTS

M000

CONSTRUCTION DOCUMENTS

Author 4/17/2024 10:41:48 AM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/MEP Mod Surg MEP_V22.rvt

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

MECHANICAL -SPECIFICATIONS

230000 - HVAC SHEET SPECIFICATIONS
PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS

A. DEFINITIONS- "CONTRACTOR" MEANS "MECHANICAL CONTRACTOR" WHEN REFERENCED ANYWHERE IN THE MECHANICAL CONSTRUCTION DOCUMENTS UNLESS WORK AND EQUIPMENT HAS BEEN COORDINATED BETWEEN MECHANICAL AND GENERAL CONTRACTORS TO BE PROVIDED BY OTHERS. "NEEDED," "PROVIDE," AND "INSTALL" MEANS ALL ITEMS CALLED OUT IN THE CONTRACT DOCUMENTS AND ANY ADDITIONAL ITEMS NOT CALLED OUT BUT REQUIRED TO MAKE A COMPLETE AND OPERATIONAL SYSTEM.

B. PLANS ARE DIAGRAMMATIC. DO NOT SCALE FOR MATERIAL QUANTITIES. ALL SCALING SHOULD BE REFERENCED TO ARCHITECTURAL PLANS ONLY. FURNISH AND INSTALL ALL COMPONENTS NEEDED WHETHER INDICATED OR NOT TO PROVIDE A COMPLETE AND OPERATING SYSTEM.

C. CONTRACTOR SHALL VISIT SITE AND VERIFY ALL CONNECTIONS TO EXISTING WORK PRIOR TO BIDDING.

D. SCOPE - THE INTENT OF THE SPECIFICATIONS AND THE DRAWINGS IS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL MECHANICAL SYSTEM. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO COMPLETE THE MECHANICAL WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF MATERIAL INTO THE BUILDING AS INDICATED ON DRAWINGS, WITHOUT INTERFERENCE WITH OTHER WORK, AND SHALL MAKE REASONABLE MODIFICATIONS IN THE LAYOUTS NEEDED TO PREVENT CONFLICT WITH OTHER TRADES, TO PROVIDE ACCESS AND FOR THE PROPER EXECUTION OF THE WORK.

E. MANUFACTURER'S INSTRUCTIONS - COMPLY WITH MANUFACTURER'S INSTRUCTIONS FOR INSTALLING AND PROGRAMMING COMPONENTS, DEVICES, ACCESSORIES, AND EQUIPMENT. IF THE CONTRACTOR MUST DEVIATE FROM THE MANUFACTURER'S CLEARANCE RECOMMENDATIONS, PROVIDE A LETTER FROM THE MANUFACTURER INDICATING THE CLEARANCE TO BE PROVIDED IS ACCEPTABLE FOR SCHEDULED PERFORMANCE AND MAINTENANCE.

F. PERMITS AND FEES - THE MECHANICAL CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS, FEES AND INSPECTIONS NECESSARY TO COMPLETE THE MECHANICAL SCOPE OF WORK.

G. WARRANTY - THE MECHANICAL CONTRACTOR SHALL UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY OWNER'S REPRESENTATIVE AND WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE AND RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE MATERIALS AND WORKMANSHIP.

H. CODES - ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL CODES AND ORDINANCES, IN CASE OF CONFLICT BETWEEN THE DRAWINGS AND THE SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY. THE MECHANICAL CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD WITHOUT EXTRA COST.

I. STANDARDS - EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF CSA, ULC, ARL, ASME, ASTM, UL, NEMA, ANSI SMACNA, ASHRAE, AND NFPA, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY.

J. SUBSTITUTIONS - ALL PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED PRIOR TO BIDDING AND PREAPPROVED IN WRITING. ALL COORDINATION ASSOCIATED WITH SUBSTITUTED MATERIALS OR EQUIPMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

K. SUBMITTALS -THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND TECHNICAL DATA FOR ALL EQUIPMENT AND MATERIALS SCHEDULED AND SPECIFIED INCLUDING AIR DISTRIBUTION AND PIPING SYSTEMS.

L. OPERATING AND MAINTENANCE INSTRUCTIONS - AT THE CONCLUSION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE OPERATING AND MAINTENANCE INSTRUCTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING PERIODIC SERVICE.

1.2 COORDINATION WITH EXISTING CONDITIONS AND OTHER TRADES

A. THIS PROJECT INVOLVES CONSTRUCTION INSIDE AN EXISTING STRUCTURE. CONTRACTORS, BY SUBMITTING A BID ARE DEEMED TO BE COMPLETELY FAMILIAR WITH THE EXISTING CONDITIONS OF THE BUILDING AS IT INFLUENCES THE WORK DESCRIBED. NO CLAIMS FOR EXTRA COMPENSATION WILL BE CONSIDERED FOR EXISTING CONDITIONS VISIBLE OR REASONABLY INFERABLE FROM A CAREFUL EXAMINATION OF THE EXISTING BUILDING CONDITIONS.

B. CONTRACTOR SHALL INSPECT THE EXISTING FIELD CONDITIONS AT THE SITE AND THE "AS BUILT" CONTRACT DOCUMENTS PRIOR TO THE START OF ANY WORK TO DETERMINE WHAT AFFECT THE EXISTING CONDITIONS WILL HAVE ON THE WORK POTENTIAL. PROBLEM AREAS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE IMMEDIATELY.

C. CONTRACTOR SHALL CONNECT THEIR WORK TO THE EXISTING PIPING, DUCTWORK, AND CONTROL SYSTEMS. NEW WORK SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM MATERIALS, AND CONSTRUCTION METHODS. COORDINATE ALL WORK WITH OTHER TRADES AND INSTALL ALL WORK IN COORDINATION WITH ARCHITECTURAL AND STRUCTURAL MEMBERS. EXCEPT FOR NECESSARY CONNECTIONS TO ASSOCIATED EQUIPMENT, NO PIPING OR DUCTWORK IS TO BE IN CONTACT WITH EQUIPMENT.

D. COORDINATE ALL CUTTING AND PATCHING WITH GENERAL CONTRACTOR AND OTHER DISCIPLINES. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING RELATED TO HIS WORK.

E. OBTAIN WRITTEN PERMISSION OF STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY CUTTING OR PATCHING OF STRUCTURAL SYSTEMS. DO NOT CUT ROOF FRAMING.

F. CARE SHALL BE TAKEN DURING INSTALLATION OF THE WORK TO NOT DAMAGE OR INTERRUPT THE EXISTING BUILDING SYSTEMS AND SERVICES INSTALLED. DAMAGE TO EXISTING SYSTEMS AND EQUIPMENT CAUSED BY CONTRACTOR DURING THE INSTALLATION OF THEIR WORK SHALL BE REPAIRED AND/OR REPLACED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE BUILDING OWNER.

G. NOTIFICATIONS AND COMPLIANCE WITH BUILDING STANDARDS AND RULES:
1. OBTAIN A COPY OF BUILDING CONSTRUCTION STANDARDS AND COMPLY WITH THESE STANDARDS.
2. SHUTDOWN OF EXISTING SYSTEMS FOR CONNECTION TO EXISTING SERVICES SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL SUBMIT REQUESTS WHERE THEY AFFECT THE OPERATION OF THE BUILDING SYSTEMS AT LEAST ONE (1) WEEK IN ADVANCE OF ANY REQUIRED SHUTDOWN. THE ACTUAL SHUTDOWN PERIOD SHALL BE AS SHORT AS POSSIBLE AND AT A TIME AGREED TO BY THE OWNER'S REPRESENTATIVE.

H. DEMOLITION SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE, ARCHITECT AND GENERAL CONTRACTOR.

I. CONTRACTOR SHALL PROVIDE THE FOLLOWING SERVICES AS APPLICABLE, ON ALL EXISTING HVAC EQUIPMENT INDICATED TO REMAIN: FILTER CHANGES; BALANCING; LUBRICATION OF APPLICABLE MOVING COMPONENTS; CLEAN ALL COILS; CALIBRATE UNIT CONTROL COMPONENTS; VERIFY FAN ROTATION AND OPERATION; VERIFY CONTROLS OPERATION; CLEAN CONDENSATE PAN AND TRAP; AND VERIFY PITCH OF CONDENSATE DRAIN.

J. CONTRACTOR SHALL REPORT ANY EQUIPMENT DEFICIENCIES FOUND TO THE OWNER'S REPRESENTATIVE WITHIN FIVE (5) DAYS OF DISCOVERY.

1.3 MECHANICAL - GENERAL

A. ALL MATERIALS AND EQUIPMENT ARE TO BE NEW UNLESS OTHERWISE DESIGNATED IN THESE DOCUMENTS.

B. THE MECHANICAL CONTRACTOR SHALL COORDINATE HVAC WORK WITH OTHER TRADES. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONED DIFFUSER LOCATIONS AND MOUNTING HEIGHTS WHERE EXPOSED.

C. ALL HVAC DUCTWORK AND EQUIPMENT SHALL BE SUPPORTED FROM STRUCTURE (CONFIRM) AND NOT FROM OTHER DUCTS, PIPING, CONDUITS OR CEILING SUPPORTS.

1.4 TESTING, ADJUSTING, BALANCING

A. INDEPENDENT AIR BALANCE CONTRACTOR OR QUALIFIED MECHANICAL CONTRACTOR SHALL ACCURATELY BALANCE THE AIR (SUPPLY, RETURN, VENTILATION AIR, AND EXHAUST AIR) AND HYDRONIC SYSTEMS (HEATING WATER, CHILLED WATER, CONDENSER WATER), WHERE APPLICABLE, TO PROVIDE AIR AND WATER QUANTITIES INDICATED ON THE DRAWINGS AND IN THIS SPECIFICATION. BALANCER SHALL BE QUALIFIED FOR TAB WORK PER NEBB OR AABC STANDARDS. OPERATE AUTOMATIC CONTROLS SYSTEM AND VERIFY SET POINTS. SUBMIT BALANCE REPORT TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL.

PART 2 - PRODUCTS AND EXECUTION

2.1 DUCTWORK AND ACCESSORIES

A. SHEETMETAL DUCTWORK - ALL DUCTWORK SHALL BE RIGID SHEETMETAL CONSTRUCTED FROM GALVANIZED SHEET STEEL IN ACCORDANCE WITH SMACNA LOW VELOCITY DUCT CONSTRUCTION STANDARDS. FIBERGLASS DUCTBOARD IS NOT ALLOWED. ALL EXPOSED DUCTWORK SHALL BE ROUND, FLAT, OVAL, SPIRAL, OR RECTANGULAR LOCK-SEAM TYPE, AS SHOWN ON HVAC PLAN. ASSEMBLE AND INSTALL DUCTWORK IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICE FOR ACHIEVING AIR TIGHT (5% LEAKAGE) AND NOISELESS (NO OBJECTIONABLE NOISE) SYSTEMS, CAPABLE OF PERFORMING EACH INDICATED SERVICE. FURNISH ALL REQUIRED DAMPERS, TRANSITIONS, CONNECTIONS TO AIR TERMINALS, AND OTHER ACCESSORIES NECESSARY FOR A COMPLETE OPERATING SYSTEM. NO VARIATION OF DUCT CONFIGURATION OR SIZES WILL BE PERMITTED EXCEPT BY PERMISSION FROM THE ENGINEER.
1. ALL MEDIUM PRESSURE SUPPLY DUCTWORK UPSTREAM OF AIR TERMINAL DEVICES SHALL BE 4-INCH W.G. PRESSURE CLASS.
2. ALL LOW PRESSURE SUPPLY DUCTWORK DISTRIBUTION SHALL BE 2-INCH W.G. PRESSURE CLASS.
3. ALL RETURN AND EXHAUST DUCTWORK SHALL BE 2-INCH PRESSURE CLASS.
4. DUCTWORK CROSSING OVER CORRIDORS SHALL BE NOT LESS THAN 26-GAUGE.

B. FLEXIBLE DUCTWORK - FLEXIBLE DUCTWORK SHALL ONLY BE INSTALLED AS SHOWN IN PLAN AND NOT ABOVE HARD LID CEILINGS. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5' IN LENGTH WITH ONE ELBOW. FLEXIBLE DUCTWORK SHALL BE PULLED TAUT AND APPROPRIATELY FASTENED TO RIGID BRANCH DUCT AND DIFFUSER. BENDS SHALL BE MINIMIZED AND WHERE NEEDED BE A FULL, RADIUS BEND. SUPPORT BANDS SHALL BE INSTALLED SO AS TO NOT CRIMP FLEX DUCT. FLEXIBLE DUCTWORK SHALL BE UL 181 LISTED AS A CLASS 1 AIR DUCT.

C. DUCT SEALANT - SEAL LONGITUDINAL AND TRANSVERSE JOINTS WITH NON-HARDENING, NON-MITIGATING MASTIC OR LIQUID ELASTIC SEALANT, WITH VOC CONTENT NO GREATER THAN 250G/L AND OF A TYPE RECOMMENDED BY THE MANUFACTURER FOR SEALING JOINTS AND SEAMS IN SHEET METAL DUCTWORK. COVER ALL FIELD JOINTS, JOINTS AROUND SPIN-IN FITTINGS AND FASTENING SCREWS WITH MASTIC.

D. SUPPORTS - PROVIDE HOT-DIPPED GALVANIZED STEEL, FASTENERS, ANCHORS, RODS, STRAPS, TRIM AND ANGLES FOR SUPPORT OF DUCTWORK.

E. DAMPERS - FURNISH AND INSTALL OPPOSED-BLADE, MULTI-LEAF VOLUME CONTROL DAMPERS WHERE INDICATED ON DRAWINGS. PROVIDE MANUAL VOLUME DAMPERS WHERE BRANCHES ARE TAKEN FROM LARGER DUCTS AND IN ALL BRANCH DUCTS TO INDIVIDUAL DIFFUSERS, GRILLES, AND REGISTERS. PROVIDE UL LISTED FIRE DAMPERS AND/OR COMBINATION FIRE SMOKE DAMPERS WHERE NEEDED AND IN ACCORDANCE WITH NFPA AND LOCAL CODES. COORDINATE WITH GENERAL CONTRACTOR AND ELECTRICAL FOR FIRE ALARM INTERFACE AND POWER. PROVIDE CONVENIENTLY LOCATED ACCESS DOORS OF AMPLE SIZE AND QUANTITY FOR SERVICING THE DAMPERS. WHERE REQUIRED BY CODE OR AHJ, F&I MOTORIZED CAMPERS FOR OSA (NOT NECESSARILY SHOWN).

F. GRILLES, REGISTERS AND DIFFUSERS - GRILLES, REGISTERS AND DIFFUSERS SHALL BE INDICATED ON THE DRAWINGS AND SCHEDULES. PROVIDE ALL MISCELLANEOUS ITEMS NECESSARY FOR A COMPLETE AND PROPER INSTALLATION IN THE TYPE OF WALLS AND CEILINGS USED IN THIS PROJECT.

G. THERMAL INSULATION - PROVIDE EXTERNAL THERMAL INSULATION WITH AN INTEGRAL VAPOR BARRIER FACING OF SUFFICIENT THICKNESS TO MEET LOCAL ENERGY CODE REQUIREMENTS AND ASHRAE 90.1, WHICHEVER IS MORE STRINGENT. PROVIDE INSULATION ON EXHAUST AND OUTSIDE AIR DUCTS, AND ON CONCEALED PORTIONS OF SUPPLY AND RETURN AIR DUCTS. DO NOT EXTERNALLY INSULATE EXPOSED DUCTWORK AND PORTIONS OF DUCTWORK THAT ARE INTERNALLY LINED WITH CODE REQUIRED THICKNESS. THERMAL INSULATION TO COMPLY WITH AN NFPA FLAME SPREAD OF 25 OR LESS, AND SMOKE DEVELOPED TO GREATER THAN 50. INTERNALLY INSULATE EXTERIOR DUCTWORK PER CODE.

H. ACCESS PROVISIONS - PROVIDE ACCESS DOORS IN HARD WALLS AND CEILINGS FOR ALL EQUIPMENT AND DUCTWORK REQUIRING SERVICE. PROVIDE ACCESS DOORS IN DUCTWORK AS REQUIRED ACCESS.

2.2 PIPING

A. DIELECTRIC FITTINGS: PROVIDE AT CONNECTIONS BETWEEN DISSIMILAR METALS.

B. PIPING MATERIAL:
1. HYDRONIC WATER PIPING SHALL BE SCHEDULE 40 BLACK STEEL (ASTM 53) WITH CLASS 150 MALLEABLE IRON SCREWED FITTINGS, FORGED STEEL WELDING OR MECHANICAL FITTINGS, OR TYPE L HARD DRAWN COPPER TUBING WITH WROUGHT COPPER FITTINGS. SYSTEM PIPING PRESSURE RATING SHALL BE SUITABLE FOR THE APPLICATION.
2. EQUIPMENT AND CONDENSATE DRAINS SHALL BE TYPE M HARD DRAWN COPPER TUBING WITH WROUGHT COPPER FITTINGS.
3. REFRIGERANT PIPING SHALL BE ACR COPPER TUBING.

C. VALVES
1. SHALL HAVE THE NAME OF THE MANUFACTURER AND PRESSURE CAST OR STAMPED ON THE VALVE BODY. ALL VALVES SHALL BE OF A SINGLE MANUFACTURER BY APOLLO, CRANE, NIBCO, STOCKHAM, OR MILWAUKEE.
2. SHUT-OFF VALVES 2" AND SMALLER SHALL BE FULL PORT BALL TYPE
3. STRAINERS SHALL BE FULL SIZE OF EXTERNAL PIPE SIZE WITH STRAINERS LOCATED TO ALLOW REMOVAL OF SCREENS FOR CLEANING.
4. PROVIDE PRESSURE-INDEPENDENT CONTROL VALVES.
5. WHERE PRESSURE INDEPENDENT CONTROL VALVES ARE NOT REQUIRED PROVIDE BALANCING VALVES AT EACH TERMINAL DEVICE.

D. PIPE HANGERS - PROVIDE HANGERS FOR INSULATED PIPE SIZES 1/2" TO 1-1/2" OF THE ADJUSTABLE STEEL BAND TYPE. HANGERS FOR INSULATED PIPE SIZES 2" AND OVER SHALL BE ADJUSTABLE STEEL CLEVIS TYPE. SHIELDS SHALL BE USED WHERE HANGER SUPPORTS INSULATED PIPE. HANGERS SHALL BE LOCATED 12" MAXIMUM FROM ANY CHANGE IN DIRECTION. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED BY LOCAL CODE REQUIREMENTS. PROVIDE HANGER SPACING AS FOLLOWS FOR STRAIGHT RUNS:

2.3 INSULATION

A. INSULATE DUCTWORK AND PIPING SYSTEMS TO MEET LOCAL ENERGY CODE REQUIREMENTS. INSULATION MATERIALS TO MEET FLAME SPREAD AND SMOKE DEVELOPMENT RATING OF 25/50 OR LESS. WHERE SYSTEMS ARE EXPOSED TO DAMAGE THE INSULATION SHALL BE PROTECTED WITH A SHEET METAL OR PLASTIC COVER. WHERE DUCTWORK IS INSTALLED EXPOSED TO THE OUTSIDE, INSULATION IS TO BE EXECUTED USING LINED DUCTWORK.

2.4 CONTROLS

A. CONTROL WIRING
1. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING NECESSARY FOR THE COMPLETE AND PROPER OPERATING TEMPERATURE CONTROL SYSTEM INCLUDING ALL MODES OF OPERATION AND INTERLOCKS. WHERE LOW VOLTAGE WIRING IS SUBJECT TO MECHANICAL DAMAGE (MECHANICAL ROOMS, EXTERIOR EXPOSURE) IT IS TO BE RUN IN CONDUIT.

B. CONTROL OPTIONS:
1. WHERE WORK IS BEING EXECUTED IN AN EXISTING LARGE BUILDING WITH HVAC PROVIDED AS TERMINAL ZONES SERVED FROM THE LARGER BUILDING SYSTEMS, MAKE THE FOLLOWING PROVISIONS:
   A) PROVIDE ZONE CONTROLS COORDINATED TO MATCH EXISTING BUILDING TERMINAL UNIT CONTROLLERS AND ZONE SENSORS.
2. WHERE WORK IS SELF-CONTAINED HVAC (PACKAGE ROOFTOP EQUIPMENT, WATER SOURCE HEAT PUMP, OR FAN COIL) PROVIDE SELF-CONTAINED CONTROLS. THERMOSTAT(S) SHALL BE MANUFACTURER PROVIDED, HONEYWELL, OR NEST PROGRAMMABLE THERMOSTAT WITH SETBACK, SETUP, AND TIMECLOCK FUNCTIONS.
3. BUILDING AUTOMATION SYSTEM (BAS) INTERFACE: WHERE A BAS EXISTS, INTEGRATE ALL NEW ZONE AND HVAC UNIT CONTROLS FOR REMOTE MONITORING AND SETPOINT CONTROL BY THE SYSTEM INCLUDING:
   A) INSTALL AND CONNECT COMMUNICATION CABLING CONNECTING ALL OF THE NEW HVAC UNIT CONTROLLERS TO THE BAS SYSTEM, ESTABLISH ADDRESSES, AND CONFIRM COMMUNICATION.
   B) ADD NEW CONTROL EQUIPMENT AND POINTS TO THE EXISTING BAS GRAPHICS PACKAGE AND CONFIRM WORKSTATION AND WEB BROWSER ACCESS.

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET,
SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET,
SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA
95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

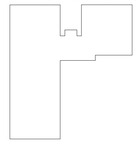
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

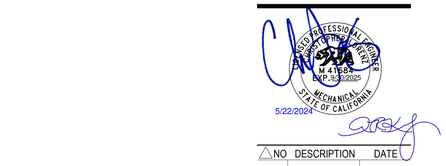
HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL



NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

MECHANICAL SHEET SPECIFICATIONS

DATE: APRIL, 16, 2024

CONSTRUCTION DOCUMENTS

M001

CONSTRUCTION DOCUMENTS

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 4/17/2024 10:41:49 AM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/MMD Med Surg MEP_V22.rvt

MECHANICAL - BASIS OF DESIGN

A. THIS BUILDING IS A RENOVATION OF THE THIRD FLOOR OF NATIVIDAD MEDICAL CENTER, MED-SURG WING. THE PRIMARY SCOPE OF THE PROJECT IS RELATED TO ARCHITECTURAL FINISHES, AND THE CONVERSION OF (3) OF THE PATIENT ROOMS INTO ACCESSIBLE ROOMS BY WAY OF INCREASING THE AREAS OF THE TOILET ROOMS.

B. PRIMARY HVAC SYSTEM IS EXISTING TO REMAIN. THE EXISTING SYSTEM HAS THE FOLLOWING:
   1. AIR DISTRIBUTION: SUPPLY AIR IS CONSTANT VOLUME AND DISTRIBUTED TO EACH UNIQUE THERMAL ZONE VIA MEDIUM PRESSURE DUCTWORK. THE RETURN AIR DUCTWORK IS FULLY DUCTED.
   2. AIR HANDLING: EXISTING CENTRAL STATION CHILLED WATER AND HEATING WATER HANDLERS PROVIDE THE COOLING AND VENTILATION TO THE SPACES. SINGLE-DUCT TERMINAL UNITS WITH REHEAT CONTROL ZONE TEMPERATURE AND AIRFLOW TO EACH ZONE.

C. CODES AND STANDARDS (LATEST EDITIONS UNLESS OTHERWISE REQUIRED BY AHJ)
   1. AMERICANS WITH DISABILITIES ACT (ADA).
   2. NFPA 90A: STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS.
   3. NFPA 90B: STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR-CONDITIONING SYSTEMS.
   4. NFPA 99: HEALTH CARE FACILITIES CODE.
   5. NFPA 101: LIFE SAFETY CODE.
   6. ASHRAE 2020 HANDBOOK, HVAC SYSTEMS AND EQUIPMENT.
   7. ASHRAE 2023 HANDBOOK, HVAC APPLICATIONS.
   8. ASHRAE 2022 HANDBOOK, REFRIGERATION.
   9. ASHRAE 2021 HANDBOOK, FUNDAMENTALS.
   10. ASHRAE 55-2017 THERMAL ENVIRONMENTAL CONDITIONS FOR HUMAN OCCUPANCY.
   11. ASHRAE 62.1-2016 VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY.
   12. ASHRAE 90.1-2016 ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS.
   13. **CALIFORNIA** BUILDING CODES ENFORCED BY THE AUTHORITY HAVING JURISDICTION (AHJ):
      a. 2022 CALIFORNIA BUILDING CODE (CBC), CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 2 (2021 INTERNATIONAL BUILDING CODE WITH STATE AND LOCAL AMENDMENTS).
      b. 2022 CALIFORNIA MECHANICAL CODE (CMC), CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 4 (2021 UNIFORM MECHANICAL CODE (UMC) WITH STATE AND LOCAL AMENDMENTS).
      c. 2022 CALIFORNIA PLUMBING CODE (CPC), CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 5 (2021 UNIFORM PLUMBING CODE (UPC) WITH STATE AND LOCAL AMENDMENTS).
      d. 2022 CALIFORNIA FIRE CODE (CFC), CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 9 (2021 INTERNATIONAL FIRE CODE WITH STATE AND LOCAL AMENDMENTS).
      e. 2022 CALIFORNIA ELECTRIC CODE (CEC) (2020 NATIONAL ELECTRICAL CODE WITH STATE AND LOCAL AMENDMENTS).
      f. 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARD FOR RESIDENTIAL AND NONRESIDENTIAL BUILDINGS, CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 6.
      g. 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 11.

D. OUTDOOR DESIGN CONDITIONS:
   1. LOCATION: SALINAS, CA
   2. SUMMER: 83°F DB/65°F WB (0.5%)
   3. WINTER: 26°F (MEDIAN OF EXTREMES)
   4. ELEVATION: 85 FEET ABOVE SEA LEVEL.
   5. CLIMATE ZONE: 3

E. INDOOR DESIGN CONDITIONS: BASED ON +/-2°F CONTROL ACCURACY FROM SETPOINTS.
   1. TEMPERATURE CONTROL
      A. PER CMC TABLE 4A - REFER TO AIR BALANCE TABLE FOR TEMPERATURE REQUIREMENTS.
   2. HUMIDITY CONTROL
      a. PER CMC TABLE 4A - REFER TO AIR BALANCE TABLE FOR HUMIDITY REQUIREMENTS.

F. **CALIFORNIA** VENTILATION / EXHAUST CRITERIA:
   1. PER CMC TABLE 4A - REFER TO AIR BALANCE TABLE FOR EXHAUST AND VENTILATION REQUIREMENTS.

G. SEISMIC:
   1. ANCHORAGE AND RESTRAINTS MUST BE COORDINATED WITH STRUCTURAL ENGINEER AND AUTHORITY HAVING JURISDICTION.

AIR BALANCE SCHEDULE - THIRD FLOOR

ROOM #	ZONE	FACILITY ROOM CODE	ROOM NAME	AREA DESIGNATION PER CMC TABLE 4-A	AREA (SQ.FT.)	CLG. HT. (FT.)	DESIGN AIRFLOW VOLUME (CU.FT.)	SUPPLY (CFM)	OSA (CFM)	RETURN (CFM)	EXHAUST (CFM)	INFIL. (CFM)	EXFIL. (CFM)	PROPOSED DESIGN TOTAL ACH	PROPOSED DESIGN OSA ACH	PROPOSED DESIGN ROOM PRESS.**	PROJECT REQUIREMENTS TOTAL ACH	PROJECT REQUIREMENTS OSA ACH	PROJECT REQUIREMENTS ROOM PRESS.**	SPECIAL REQUIREMENTS EXHAUST ROOM	SPECIAL REQUIREMENTS RECIRC. UNITS ALLOWED	SPECIAL REQUIREMENTS RELATIVE HUMIDITY	SPECIAL REQUIREMENTS TEMP RANGE
300			OFFICE	OFFICE	63	9	567	75	19	75	0	0	0	7.9	2.0	-	4	2	NR	NR	NR	NR	NR
316			PRIVATE PATIENT RM	PATIENT ROOM	247	9.6	2371.2	430	79	355	0	0	75	10.9	2.0	P	4	2	NR	NR	NR	MAX 60	70-75
318			PRIVATE PATIENT RM	PATIENT ROOM	247	9.6	2371.2	430	79	355	0	0	75	10.9	2.0	P	4	2	NR	NR	NR	MAX 60	70-75
326			PRIVATE PATIENT RM	PATIENT ROOM	247	9.6	2371.2	595	79	520	0	0	75	15.1	2.0	P	4	2	NR	NR	NR	MAX 60	70-75
01A.06A.60			EQUIPMENT STORAGE	OTHER	112	9	1008	165	0	165		0	0	9.8	0.0	-	0	0	NR	NR	NR	NR	NR
01A.06A.63			BREAK ROOM	OTHER	147	9	1323	165	0	165	0	0	0	7.5	0.0	-	0	0	NR	NR	NR	NR	NR
01A.06A.69			STAFF LOUNGE	OTHER	179	9	1611	250	0	0	240	0	10	9.3	0.0	P	0	0	NR	NR	NR	NR	NR
01A.06A.74			CLEAN UTILITY	CLEAN WORKROOM OR CLEAN HOLDING (SUPPORT)	104	9	936	100	31	0	25	0	75	6.4	2.0	P	4	2	P	NR	NR	NR	NR
01A.06A.90			NURSE STATION	NURSE STATION	357	8.5	3034.5	700	51	0	0	0	700	13.8	1.0	P	2	1	NR	(aa)	(aa)	(aa)	(aa)
316A			PAT H/C TOILET/SHWR	TOILET ROOM	50	9	450	0	0	0	75	75	0	10.0	0.0	N	10	0	N	Yes	No	NR	NR
318A			PAT H/C TOILET/SHWR	TOILET ROOM	50	9	450	0	0	0	75	75	0	10.0	0.0	N	10	0	N	Yes	No	NR	NR
326A			PAT H/C TOILET/SHWR	TOILET ROOM	50	9	450	0	0	0	75	75	0	10.0	0.0	N	10	0	N	Yes	No	NR	NR
TOTALS					1853			2910	340	1635	490	225	1010										

DIFFUSER AND GRILLE SCHEDULE

TAG	MANUFACTURER	MODEL	DESCRIPTION	FACE TYPE	FACE SIZE	COLOR	MATERIAL	NOTES
EA	PRICE	PDR	SQUARE CEILING EXHAUST	PERFORATED	12X12	WHITE	ALUMINUM	ALL
RA	PRICE	PDR	SQUARE CEILING RETURN	PERFORATED	<varies>	WHITE	ALUMINUM	<varies>
SA	PRICE	PDF	SQUARE CEILING SUPPLY	PERFORATED MODULAR CORE	<varies>	WHITE	ALUMINUM	<varies>

NOTES:

1. MAXIMUM NC LEVEL SHALL BE 20.
2. ALL VISIBLE SURFACES AND DUCTWORK BEHIND FACE SHALL BE PAINTED FLAT BLACK.
3. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS FOR BORDER TYPES.
4. NECK SIZE AND CFM SHOWN ARE ON PLANS (EXAMPLE: SA12x12-400 REFERS TO TAG "SA" WITH 12x12 NECK AND 400 CFM).
5. PROVIDE RECTANGULAR/SQUARE TO ROUND TRANSITION AS REQUIRED AND SIZED FOR MAXIMUM 0.01" WG TOTAL PRESSURE DROP.
6. ADJUSTABLE HORIZONTAL / VERTICAL DISCHARGE

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

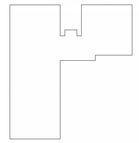
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER: S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/3/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

12/11/2024

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

BASIS OF DESIGN AND TABULATED DATA

DATE: APRIL, 16, 2024

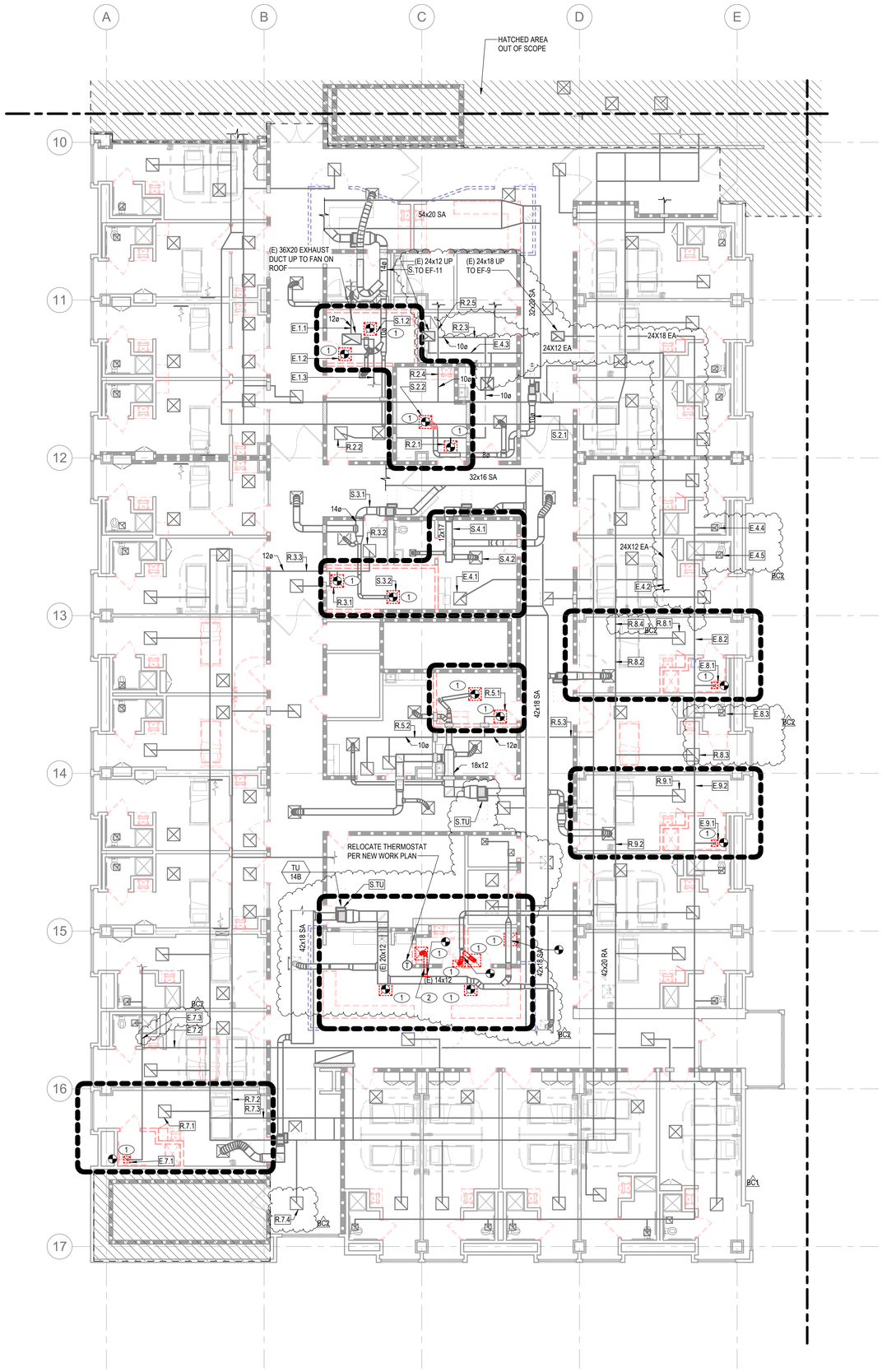
CONSTRUCTION DOCUMENTS

M002

CONSTRUCTION DOCUMENTS

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 12/11/2024 3:27:45 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/NMC Med Surg MEP_V22.rvt



1 **LEVEL 03 - MECHANICAL DEMOLITION HVAC PLAN**
SCALE: 1/8" = 1'-0"

0 8' - 0" 16' - 0" 24' - 0" 32' - 0"

SHEET NOTES

1. COMPLETE LAYOUT AND COORDINATION SHOP DRAWINGS AS REQUIRED BY SPECIFICATION SECTION 230500 PART 1 SHALL BE SUBMITTED FOR APPROVAL PRIOR TO THE START OF INSTALLATION OR DEMOLITION. DEMOLITION NOR CONSTRUCTION SHALL NOT START UNTIL COORDINATED LAYOUT SHOP DRAWINGS HAVE BEEN APPROVED.
2. COORDINATE AND SUBMIT A METHOD OF PROCEDURE PRIOR TO ANY REQUIRED SHUTDOWN OF AIRFLOW, COOLING OR HEATING TO ANY SPACE. THIS METHOD OF PROCEDURE SHALL MAINTAIN PRESSURE RELATIONSHIPS FOR ALL ROOM AS REQUIRED BY TABLE 4 A TO HAVE A POSITIVE OR NEGATIVE PRESSURE RELATIONSHIP TO MAINTAIN THAT RELATIONSHIP WHILE OCCUPIED. ROOMS NOT REQUIRING A PRESSURE RELATIONSHIP SHALL BE LIMITED TO A 4 HOUR SHUTDOWN SUBJECT TO OWNER AND ENGINEER APPROVAL.
3. ALL WORK TO BE PERFORMED SHALL BE COORDINATED WITH OWNER AND IN COMPLIANCE WITH CLINICAL STANDARDS AND PROCEDURES RELATED TO INFECTION CONTROL.
4. PRIOR TO STARTING THIS WORK PERFORM ALL REPAIRS AND RESEAL EXISTING TO REMAIN DUCTWORK (EXHAUST, RETURN AND SUPPLY) AS REQUIRED. CONFIRM THROUGH A CERTIFIED TAB CONTRACTOR THAT THE ENTIRE SYSTEM HAS LESS THAN 5% DUCT LEAKAGE.
5. ALL EXISTING PIPING, DUCTWORK, SPRINKLERS, CONDUIT, LIGHTING AND OTHER CONSTRUCTION MATERIALS SHALL BE RELOCATED AS REQUIRED FOR DEMOLITION AND INSTALLATION WORK.
6. TERMINAL UNIT INLET AND DISCHARGE DUCTS SHALL MATCH TERMINAL UNIT UNLESS OTHERWISE INDICATED.
7. BRANCH DUCTS SHALL MATCH AIR DEVICE NECK SIZE UNLESS OTHERWISE INDICATED.
8. BRANCH PIPES TO COILS SHALL MATCH CONNECTION SIZE UNLESS OTHERWISE INDICATED.
9. RETURN AIR DUCTS SHALL NOT REQUIRE INSULATION EXCEPT THOSE INSTALLED IMMEDIATELY BELOW A ROOF OR INSTALLED IN ANOTHER UNCONDITIONED SPACE UNLESS OTHERWISE INDICATED.
10. ALL NEW DUCTS AND PIPES SHALL BE SEISMICALLY BRACED PER SPECIFICATIONS.
11. NEW TERMINAL UNITS SHALL BE PROVIDED WITH NEW THERMOSTATS WITH +/-3°F USER ADJUSTABILITY UNLESS OTHERWISE INDICATED.
12. DEMOLISHED CONTROL DEVICES SHALL BE REMOVED FROM BUILDING AUTOMATION SYSTEM GRAPHICS.
13. WHERE TERMINAL UNIT SELECTIONS DO NOT MEET THE NOISE CRITERIA SPECIFIED IN THE CONSTRUCTION DOCUMENTS PROVIDE AN HCAI APPROPRIATE ACOUSTICALLY LINED DISCHARGE.
14. ANY ABANDONED ITEM SHALL BE MARKED AS ABANDONED AT LEAST ONCE PER LEG AND ON EACH SIDE OF A WALL. ALL MATERIALS SHALL BE REMOVED COMPLETELY UNLESS OTHERWISE INDICATED.
15. COORDINATE ANY REQUIRED SHUTDOWNS AND PREPARE A METHOD OF PROCEDURE FOR REVIEW AND APPROVAL AT LEAST 14 DAYS IN ADVANCE.
16. PATIENT CARE SPACES REQUIRING PRESSURE RELATIONSHIPS TO BE MAINTAINED PER CMC TABLE 4A SHALL BE UNOCCUPIED PRIOR TO ANY AIRFLOW SHUTDOWN.
17. PATIENT CARE SPACES NOT REQUIRING PRESSURE RELATIONSHIPS TO BE MAINTAINED CMC PER TABLE 4A SHALL BE LIMITED TO A MAXIMUM OF A 4 HOUR SHUTDOWN WITH OWNER APPROVAL.
18. CONTRACTOR SHALL PROVIDE BALANCE DAMPERS WHERE EXISTING TO REMAIN DAMPERS ARE NOT FUNCTIONAL OR WHERE AN EXISITNG BRANCH DUCT IS NOT PROVIDED WITH A BALANCE DAMPER.
19. WHEN DEMOLISHING ANY COMPONENT, REMOVE BACK TO MAINS AND CAP OR PREPARE FOR NEW CONNECTIONS. PROVISION FOR TEMPORARY CONNECTIONS WHERE REQUIRED BY OPERATIONS. REMOVE ALL SUPPORTS, CONDUITS AND CONTROL GRAPHICS WHERE REQUIRED FOR A COMPLETE REMOVAL ITEMS MAYBE ABANDONED IN CONCEALED SPACES ONLY WITH OWNER'S APPROVAL AND SUCH ITEMS MUST BE MARKED ABANDONED IN EACH ROOM OR SPACE THEY ARE ROUTED THROUGH OR EVERY 5 FEET.
20. ANY CORRECTIONS OF DEFICIENCIES OF EXISTING CONDITIONS SHALL NOT BECOME PART OF THE SCOPE OF THIS PROJECT WITHOUT OWNER APPROVAL, INCLUDING BUT NOT LIMITED TO:
    A. EXISTING TO REMAIN DUCTS WITHOUT FIRE OR SMOKE DAMPERS CROSSING EXISTING TO REMAIN RATED PARTITIONS.
    B. EXISTING TO REMAIN PIPING AND DUCTS SHALL NOT REQUIRE ANY NEW SEISMIC BRACING UNLESS OTHERWISE INDICATED.

KEYED NOTES

1. REMOVE EXISTING DIFFUSERS AND REPLACE IN NEW CEILING GRID. REFER TO NEW WORK PLAN
2. REMOVE FIRE SMOKE DAMPER - RESERVE EXISTING CIRCUIT FOR REPLACEMENT DAMPER. REFER TO NEW WORK PLAN.

PRE-TAB NOTES

S.1.1 — PERFORM PRE-DEMOLITION AIRFLOW MEASUREMENT AT THE LOCATION INDICATED BY THE SYMBOL TO THE LEFT. PERFORM TRAVERSE WHERE DUCTS ARE INDICATED, FLOW-HOOD READING WHERE GRILLES/DIFFUSERS ARE INDICATED.

X.1.1 = IDENTIFYING NUMBER

'S' = SUPPLY
'R' = RETURN
'E' = EXHAUST

S.TU — PERFORM PRE-DEMOLITION AIRFLOW MEASUREMENT AT ALL DIFFUSERS ASSOCIATED WITH THIS TERMINAL UNIT. BC1 BC2

HGA
2150 West Washington Street,
Suite 113, San Diego, CA 92110
Telephone: 619.202.9100

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET,
SUITE 1500,
SAN FRANCISCO, CA 94104 .
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET,
SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING

EQUIPMENT

INTERIOR ARCHITECT
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

NATIVIDAD MEDICAL CENTER

1441 CONSTITUTION BOULEVARD SALINAS, CA 93906

PROJECT SPECIFIC INFORMATION

Natividad MEDICAL CENTER

AREA A	AREA B
AREA C	AREA D

KEYPLAN

LICENSED PROFESSIONAL ENGINEER — CHRISTOPHER A. HUNTER — M 41684 — EXP 6-30-2026 — MECHANICAL — STATE OF CALIFORNIA

3/21/2025

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024
BC2	BACKCHECK#2	03/14/2025

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

LEVEL 3 - HVAC DEMOLITION PLAN

DATE: APRIL, 16, 2024

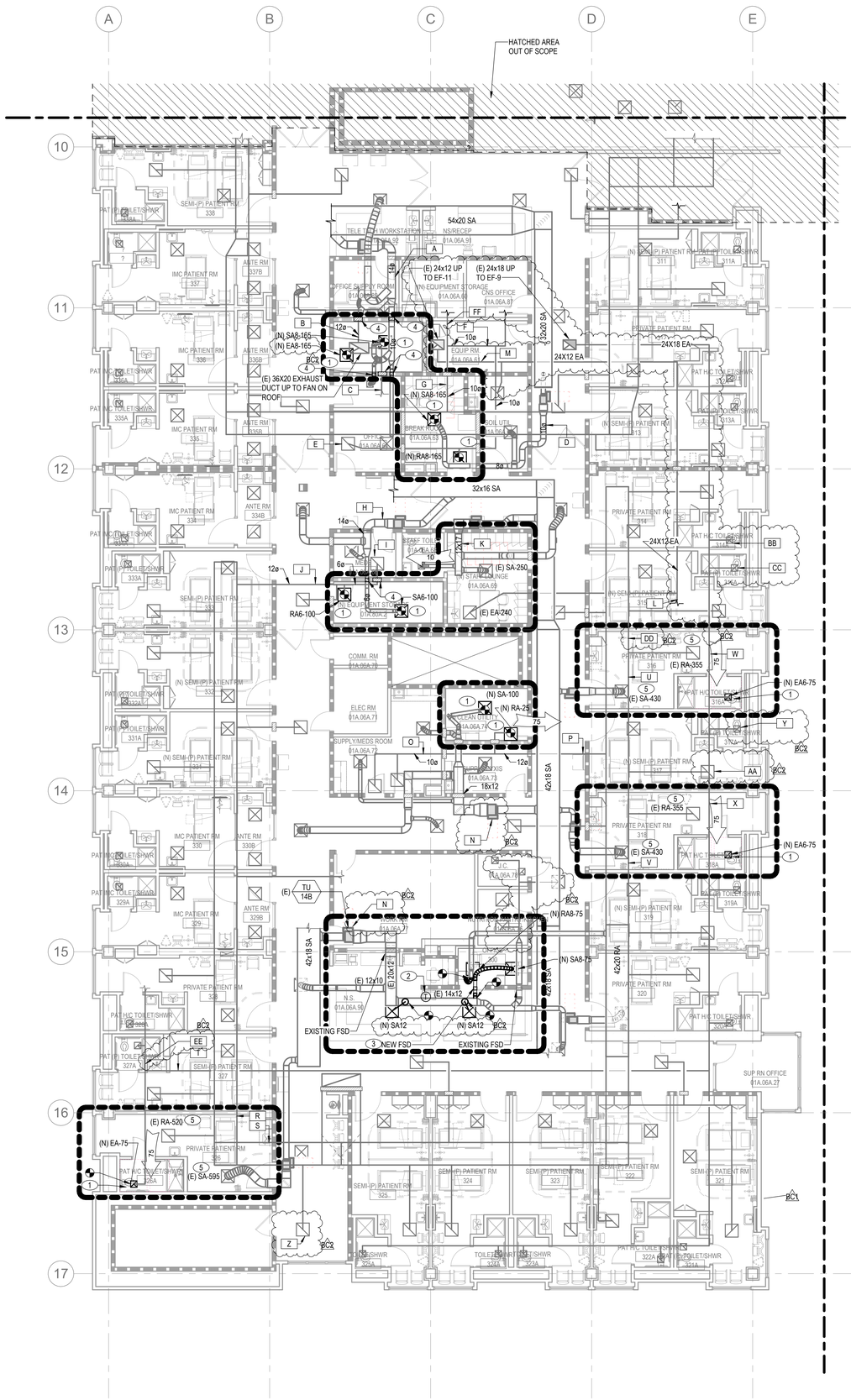
CONSTRUCTION DOCUMENTS

M101

CONSTRUCTION DOCUMENTS

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 3/20/2025 3:15:00 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/NMC Med Surg MEP_V24.rvt



1 LEVEL 03 - MECHANICAL HVAC PLAN

SCALE: 1/8" = 1'-0"

0 8' - 0" 16' - 0" 24' - 0" 32' - 0"

OSHPD SEISMIC BRACING NOTE

1. ALL SUPPORTS AND SEISMIC RESTRAINTS SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER. PRODUCTS OF OTHER MANUFACTURERS ARE ACCEPTABLE PROVIDED THEIR SYSTEMS COMPLY WITH THE SPECIFICATION AND HAVE THE APPROVAL OF THE ENGINEER.
2. SEISMIC RESTRAINT OF SUSPENDED PIPING AND DUCTWORK
   - A. MASON INDUSTRIES, INC OPM-0043-13 OR B-LINE/TOLCO OPM-0052-13 OR OTHER MANUFACTURERS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION, CAN BE USED FOR ANCHORAGE AND BRACING OF DUCTS, PIPES, CONDUITS, AND OTHER SUB-SYSTEMS. IF INSTALLATION VARIES IN ANY WAY FROM THAT SHOWN IN THE ANCHORAGE PRE-APPROVAL DOCUMENT, PROVIDE COMPLETE CALCULATIONS FOR THE ANCHORAGE AND BRACING OF THE COMPONENT AND SYSTEM PER NOTE 1 ABOVE. BC1
   - B. ALTERNATELY, BRACING OF ALL DUCTS, PIPES, CONDUITS, AND OTHER SUB-SYSTEMS SHALL MEET THE DESIGN CRITERIA AS DEFINED IN THE 2022 CBC, SECTION 16A (CALIFORNIA CODE AND REGULATIONS, PART 2, TITLE 24).
3. WHERE POSSIBLE, PIPES, CONDUIT, AND THEIR CONNECTIONS SHALL BE CONSTRUCTED OF DUCTILE MATERIALS (COPPER, DUCTILE IRON, STEEL OR ALUMINUM AND BRAZED OR WELDED CONNECTIONS). PIPES, CONDUITS, AND THEIR CONNECTIONS. CONSTRUCTED OF NONDUCTILE MATERIALS (E.G., CAST IRON, NO-HUB PIPE AND PLASTIC), SHALL HAVE THE BRACE SPACING REDUCED TO ONE-HALF OF THE SPACING ALLOWED FOR DUCTILE PIPE.
4. SEISMIC RESTRAINTS MAY BE OMITTED FROM THE FOLLOWING INSTALLATIONS:
   - A. THE COMPONENT IS POSITIVELY ATTACHED TO STRUCTURAL; FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE PIPE OR DUCT OR CONDUIT AND COMPONENT/EQUIPMENT; AND PIPE OR DUCT OR CONDUIT WEIGHS 5 LBS/FT OR LESS.
   - B. ALL PIPING SUSPENDED BY INDIVIDUAL HANGERS TWELVE (12) INCHES OR LESS IN LENGTH FROM THE TOP OF PIPE TO THE SUPPORTING STRUCTURAL. WHERE PIPES ARE SUPPORTED ON A TRAPEZE, THE TRAPEZE SHALL BE SUPPORTED BY HANGERS HAVING A LENGTH OF 12" OR LESS FROM THE TOP OF THE TRAPEZE MEMBER TO SUPPORTING STRUCTURE. WHERE READ HANGERS ARE USED WITH A DIAMETER GREATER THAN 3/8", THEY SHALL BE EQUIPPED WITH SWIVELS EYE BOLTS OR OTHER DEVICES TO PREVENT INELASTIC BENDING OF THE ROD, OR
   - C. PIPING WITH AN Rp OF 4.5 OR GREATER IS USED AND PROVISION ARE MADE TO AVOID IMPACT WITH OTHER STRUCTURAL OR NONSTRUCTURAL COMPONENTS OR TO PROTECT THE PIPING IN THE EVENT OF SUCH IMPACT.
   - D. ALL ELECTRICAL CONDUIT LESS THAN 2.5 INCHES TRADE SIZE.
   - E. ALL RECTANGULAR AIR HANDLING DUCTS LESS THAN SIX (6) SQUARE FEET IN CROSS-SECTIONAL AREA, OR
   - F. ALL DUCTS SUSPENDED BY HANGERS 12 INCHES OR LESS IN LENGTH FROM THE TOP OF THE DUCT TO THE BOTTOM OF THE STRUCTURAL SUPPORT FOR THE HANGER, WHERE THE HANGERS ARE DETAILED TO AVOID BENDING OF THE HANGERS AND THEIR CONNECTION.
   - G. WHERE LATERAL RESTRAINTS ARE OMITTED, THE PIPING, DUCTS OR CONDUIT SHALL BE INSTALLED SUCH THAT LATERAL MOTION OF THE PIPING OR DUCT WILL NOT CAUSE IMPACT WITH OTHER SYSTEMS OF STRUCTURAL MEMBERS, OR LOSS OF VERTICAL SUPPORT. PROVIDE FLEXIBLE CONNECTION BETWEEN COMPONENT AND ASSOCIATED PIPING, DUCTWORK AND/OR CONDUIT.
   - H. PIPES, DUCTS AND CONDUIT SUPPORTED BY A TRAPEZE WHERE NONE OF THOSE ELEMENTS WOULD INDIVIDUALLY BE BRACED NEED NOT BE BRACED IF CONNECTIONS TO THE PIPE/CONDUIT/DUCTWORK OR DIRECTIONAL CHANGES DO NOT RESTRICT THE MOVEMENT OF THE TRAPEZE. IF THIS FLEXIBILITY IS NOT PROVIDED, BRACING WILL BE REQUIRED WHEN THE AGGREGATE WEIGHT OF THE PIPES AND CONDUIT EXCEED 10 POUNDS PER FOOT. THE WEIGHT SHALL BE DETERMINED ASSUMING ALL PIPES AND CONDUIT ARE FILLED WITH WATER.
5. EACH TRADE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS (THAT ARE IN COMPLIANCE WITH THE APPROVED PLANS AND PRE APPROVED SYSTEMS NOTED) FOR THE BRACING AND ANCHORAGE OF THE UTILITY ROUTING WITHIN THEIR WORK SCOPE TO THE PROFESSIONAL OF RECORD FOR REVIEW. SHOP DRAWINGS SHALL BE APPROVED BY THE PROFESSIONAL OF RECORD PRIOR TO INSTALLATION OF THE BRACING SYSTEMS.
6. ONCE THE EXACT LOCATIONS OF ALL PIPES, DUCTS AND CONDUITS HAVE BEEN ESTABLISHED, THE STRUCTURAL ENGINEER OF RECORD MUST VERIFY THE ADEQUACY OF THE SUPPORTING STRUCTURE FOR LOADS IMPOSED BY THE ANCHORAGE AND BRACING SYSTEM, TO ENSURE THAT THE ORIGINAL DESIGN IS STILL ADEQUATE. THE STRUCTURAL ENGINEER OF RECORD MUST REVIEW AND FORWARD THE ANCHORAGE AND BRACING PLANS TO OSHPD WITH A NOTATION INDICATING THAT THE PLANS HAVE BEEN REVIEWED AND ARE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE PROJECT. A "SHOP DRAWING STAMP" MAY BE USED TO INDICATE COMPLIANCE WITH THIS REQUIREMENT.
   - A. SHOP DRAWINGS SHALL REFLECT THE FOLLOWING INFORMATION:
     1. LAYOUT PLAN SHOWING VERTICAL SUPPORT AND LATERAL BRACE LOCATIONS (TRANSVERSE AND LONGITUDINAL).
     2. BRACE AND STRUCTURE CONNECTION DETAILS.
     3. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL ENGINEERING AND REQUIRED DOCUMENTATION FOR ANY DEVIATIONS TO THE OSHPD APPROVED PLANS.
     4. ANY DEVIATIONS FROM THE UTILITY LINE ANCHORAGE AND/OR BRACING DETAILS INDICATED WITHIN THE APPROVED DRAWINGS & SPECIFICATIONS SHALL BE ANALYZED, DESIGNED, SIGNED AND SEALED BY A CALIFORNIA LICENSED STRUCTURAL ENGINEER AND SUBMITTED TO THE PROFESSIONAL OF RECORD AND OSHPD FOR REVIEW AND APPROVAL.
     5. ANY DEVIATIONS FROM THE UTILITY LINE ANCHORAGE AND/OR BRACING DETAILS INDICATED WITHIN THE APPROVED DRAWINGS & SPECIFICATIONS SHALL BE APPROVED BY THE PROFESSIONAL OF RECORD AND OSHPD PRIOR TO THE INSTALLATION OF ANCHORAGE AND BRACING ELEMENTS.
     6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF UTILITY LINE ANCHORAGE AND BRACING FOR ALL TRADES.
     7. LAYOUT DRAWINGS, SHOWING THE BRACING/SUPPORT LOCATIONS AND REFERENCES TO DETAILS FROM RELEVANT OSHPD PRE-APPROVALS FOR PIPING/DUCTS/CONDUITS EXCEPT FOR FIRE SPRINKLERS, NEED TO BE SUBMITTED FOR USE BY THE IOR AND OSHPD FIELD STAFF. THE LAYOUT DRAWINGS, PREPARED PER SECTION 1616A.1.18, 1616A.1.24 & ASCE 7 SECTION 13.1.4 AND 13.6.7 NEED TO BE REVIEWED AND ACCEPTED BY THE EOR (SE AND/OR ME/EE) PRIOR TO STARTING INSTALLATION OF THE BRACING/SUPPORT. THE IOR SHALL ENSURE THE ABOVE REQUIREMENTS ARE SATISFIED.

SHEET NOTES

1. COORDINATE AND SUBMIT A METHOD OF PROCEDURE PRIOR TO ANY REQUIRED SHUTDOWN OF AIRFLOW, COOLING OR HEATING TO ANY SPACE. THIS METHOD OF PROCEDURE SHALL MAINTAIN PRESSURE RELATIONSHIPS FOR ALL ROOM AS REQUIRED BY TABLE 4A TO HAVE A POSITIVE OR NEGATIVE PRESSURE RELATIONSHIP TO MAINTAIN THAT RELATIONSHIP WHILE OCCUPIED. ROOMS NOT REQUIRING A PRESSURE RELATIONSHIP SHALL BE LIMITED TO A 4 HOUR SHUTDOWN SUBJECT TO OWNER AND ENGINEER APPROVAL.
2. ALL WORK TO BE PERFORMED SHALL BE COORDINATED WITH OWNER AND IN COMPLIANCE WITH CLINICAL STANDARDS AND PROCEDURES RELATED TO INFECTION CONTROL.
3. PRIOR TO STARTING THIS WORK PERFORM ALL REPAIRS AND RESEAL EXISTING TO REMAIN DUCTWORK (EXHAUST, RETURN AND SUPPLY) AS REQUIRED. CONFIRM THROUGH A CERTIFIED TAB CONTRACTOR THAT THE ENTIRE SYSTEM HAS LESS THAN 5% DUCT LEAKAGE.
4. ALL EXISTING PIPING, DUCTWORK, SPRINKLERS, CONDUIT, LIGHTING AND OTHER CONSTRUCTION MATERIALS SHALL BE RELOCATED AS REQUIRED FOR DEMOLITION AND INSTALLATION WORK.
5. BRANCH DUCTS SHALL MATCH AIR DEVICE NECK SIZE UNLESS OTHERWISE INDICATED.
6. RETURN AIR DUCTS SHALL NOT REQUIRE INSULATION EXCEPT THOSE INSTALLED IMMEDIATELY BELOW A ROOF OR INSTALLED IN ANOTHER UNCONDITIONED SPACE UNLESS OTHERWISE INDICATED.
7. ALL NEW DUCTS AND PIPES SHALL BE SEISMICALLY BRACED PER SPECIFICATIONS.
8. ANY ABANDONED ITEM SHALL BE MARKED AS ABANDONED AT LEAST ONCE PER LEG AND ON EACH SIDE OF A WALL. ALL MATERIALS SHALL BE REMOVED COMPLETELY UNLESS OTHERWISE INDICATED.
9. COORDINATE ANY REQUIRED SHUTDOWNS AND PREPARE A METHOD OF PROCEDURE FOR REVIEW AND APPROVAL AT LEAST 14 DAYS IN ADVANCE.
10. PATIENT CARE SPACES REQUIRING PRESSURE RELATIONSHIPS TO BE MAINTAINED PER CMC TABLE 4A SHALL BE UNOCCUPIED PRIOR TO ANY AIRFLOW SHUTDOWN.
11. PATIENT CARE SPACES NOT REQUIRING PRESSURE RELATIONSHIPS TO BE MAINTAINED CMC PER TABLE 4A SHALL BE LIMITED TO A MAXIMUM OF A 4 HOUR SHUTDOWN WITH OWNER APPROVAL.
12. CONTRACTOR SHALL PROVIDE BALANCE DAMPERS WHERE EXISTING TO REMAIN DAMPERS ARE NOT FUNCTIONAL OR WHERE AN EXISITNG BRANCH DUCT IS NOT PROVIDED WITH A BALANCE DAMPER.
13. WHEN DEMOLISHING ANY COMPONENT, REMOVE BACK TO MAINS AND CAP OR PREPARE FOR NEW CONNECTIONS. PROVISION FOR TEMPORARY CONNECTIONS WHERE REQUIRED BY OPERATIONS. REMOVE ALL SUPPORTS, CONDUITS AND CONTROL GRAPHICS WHERE REQUIRED FOR A COMPLETE REMOVAL ITEMS MAYBE ABANDONED IN CONCEALED SPACES ONLY WITH OWNER'S APPROVAL AND SUCH ITEMS MUST BE MARKED ABANDONED IN EACH ROOM OR SPACE THEY ARE ROUTED THROUGH OR EVERY 5 FEET.
14. ANY CORRECTIONS OF DEFICIENCIES OF EXISTING CONDITIONS SHALL NOT BECOME PART OF THE SCOPE OF THIS PROJECT WITHOUT OWNER APPROVAL, INCLUDING BUT NOT LIMITED TO:
    - A. EXISTING TO REMAIN DUCTS WITHOUT FIRE OR SMOKE DAMPERS CROSSING EXISTING TO REMAIN RATED PARTITIONS.
    - B. EXISTING TO REMAIN PIPING AND DUCTS SHALL NOT REQUIRE ANY NEW SEISMIC BRACING UNLESS OTHERWISE INDICATED.

KEYED NOTES (#)

1. RECONNECT NEW AIR DEVICE TO EXISTING DUCT RUNNOUT. MODIFY AS NECESSARY TO ACCOMODATE NEW CEILING GRID.
2. REPLACE EXISTING THERMOSTAT IN NEW WALL.
3. NEW COMBINATION FIRE SMOKE DAMPER AT CORRIDOR WALL PENETRATION. DERIVE POWER FROM EXISTING CIRCUIT FROM DEMOLISHED DAMPER.
4. STORAGE ROOM WALLS TO BE UPGRADED TO 1HR FIRE BARRIERS. INSTALL NEW FIRE/SMOKE DAMPERS AT EXISTING DUCT PENETRATIONS.
5. REBALANCE EXISTING DIFFUSER TO INDICATED AIRFLOW

TAB NOTES X

PERFORM CONFIRMATION AIRFLOW MEASUREMENTS AT THE AREAS INDICATED. CONTRACTOR SHALL RE-BALANCE AS REQUIRED TO ACHIEVE THE FINAL AIRFLOWS INDICATED BELOW, IN REFERENCE TO MEASUREMENTS IDENTIFIED ON DEMOLITION PLAN, PRE-TAB VALUES.

A. = S.1.1 - S.1.2 + 165CFM
B. = E.1.1
C. = E.1.3
D. = S.2.1 - S.2.2 + 165CFM
E. = R.2.2
F. = R.2.3 - R.2.1 + 165CFM
G. = R.2.4 - R.2.3 + F.
H. = S.3.1 - S.3.2 + 100CFM
I. = R.3.2
J. = R.3.3 - R.3.1 + 100CFM
K. = S.4.1 - S.4.2 + 250CFM
L. = E.4.2
M. = E.4.3 - E.4.1 + L + 240CFM
N. = VERIFY AIRFLOWS OF ALL DIFFUSERS AT THIS TERMINAL UNIT SUCH THAT EXISTING AIRFLOWS ARE MAINTAINED EXCEPT WHERE NOTED OTHERWISE BC2
O. = R.3.2
P. = R.5.3 - R.5.1 + O.
Q. = NOT USED BC2
R. = R.7.2
S. = R.7.2 - R.7.1 + 520
T. = E.7.2 - E.7.1 + 75
U. = R.8.2 - R.8.1 + 355CFM
V. = R.9.2 - R.9.1 + 355CFM
W. = E.8.2 - E.8.1 + 75CFM
X. = E.9.2 - E.9.1 + 75CFM
BC1 Y. = E.8.3
Z. = R.7.4
AA. = R.8.3 BC2
AB. = E.4.4
AC. = E.4.5
AD. = R.8.4
AE. = E.7.4
AF. = R.2.5

HGA
2150 West Washington Street,
Suite 113, San Diego, CA 92110
Telephone: 619.202.9100

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET,
SUITE 1500,
SAN FRANCISCO, CA 94104
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET,
SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING

EQUIPMENT

INTERIOR ARCHITECT
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO 80203
303.433.9500

NATIVIDAD MEDICAL CENTER

1441 CONSTITUTION BOULEVARD SALINAS, CA 93906

PROJECT SPECIFIC INFORMATION

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

Natividad MEDICAL CENTER

AREA A	AREA B
AREA C	AREA D

KEYPLAN

LICENSED PROFESSIONAL ENGINEER
CHRISTOPHER J. HOLT
M 44684
EXP. 06/30/2026
MECHANICAL
STATE OF CALIFORNIA

3/21/2025

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024
BC2	BACKCHECK#2	03/14/2025

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

LEVEL 3 - HVAC PLAN

DATE: APRIL, 16, 2024

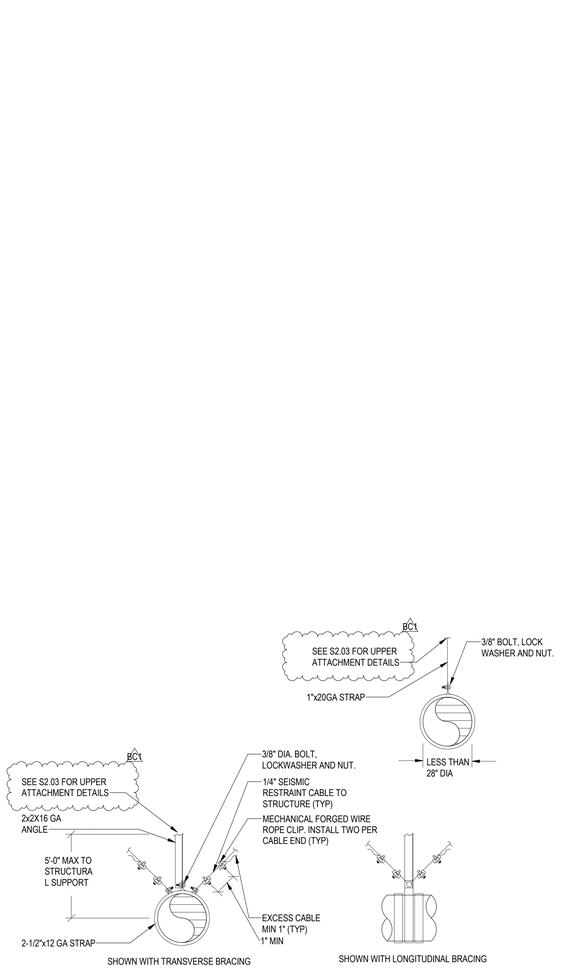
CONSTRUCTION DOCUMENTS

M203

CONSTRUCTION DOCUMENTS

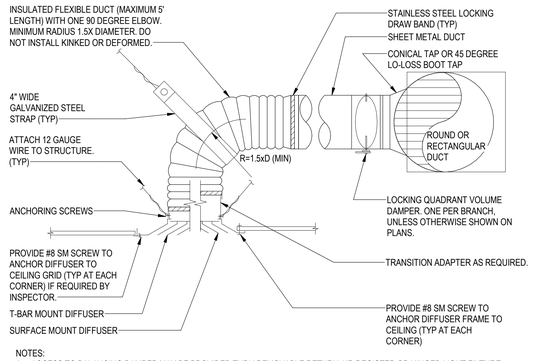
© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 3/20/2025 2:15:08 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/NMC Med Surg MEP - V24.rvt



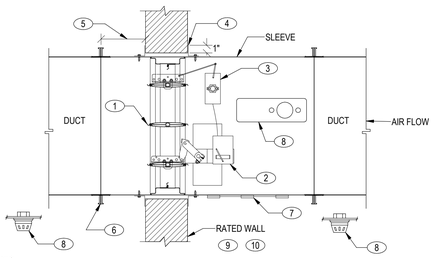
NOTES:
1. HANGERS SHALL BE INSTALLED AT EVERY CHANGE OF DIRECTION AND NO MORE THAN 10'-0" APART.
2. PROVIDE A FLEXIBLE CONNECTION BETWEEN MECHANICAL EQUIPMENT AND DUCT.
3. STRAP MAY BE REDUCED TO 1"x22 GA FOR DUCT 24" DIA. AND LESS IN DIAMETER.
4. SEISMIC RESTRAINT CABLES MAY BE OMITTED WHERE DUCT IS SUPPORTED WITHIN 12" OF STRUCTURE AS MEASURED FROM THE TOP OF DUCT TO THE BOTTOM OF STRUCTURE.
5. VERTICAL HANGERS, DIAGONAL AND HORIZONTAL BRACES TO BE SIZED IN ACCORDANCE WITH SMACNA SEISMIC RESTRAINT MANUAL.
6. COORDINATE WITH STRUCTURAL ENGINEER FOR UPPER ATTACHMENTS.
7. WHERE SEISMIC CABLE RESTRAINTS ARE REQUIRED.
   A. PROVIDE SEISMIC CABLE TRANSVERSE BRACING AT 30 FT AND
   B. SEISMIC CABLE LONGITUDINAL BRACING AT 60 FT.
   C. SEISMIC CABLE RESTRAINTS ARE NOT REQUIRED AT EVERY HANGER LOCATION.

5 ROUND DUCT SUPPORT
SCALE: NONE



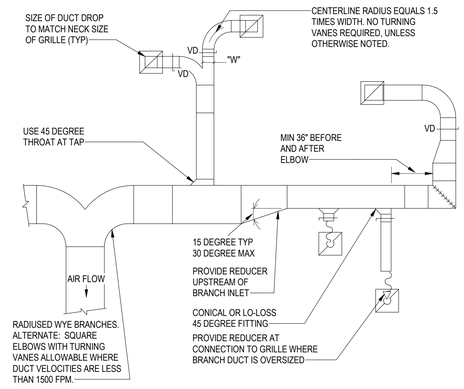
NOTES:
1. ACCESS TO BALANCING DAMPER MAY BE PROVIDED THRU REMOVABLE RETURN AIR REGISTER OR HINGED LIGHT FIXTURE.
2. FOR INACCESSIBLE CEILING USE REMOTE FLEXIBLE STEEL SHAFT DAMPER OPERATOR OR PROVIDE 18"x18" (MIN) ACCESS DOOR.
3. DIFFUSER FRAME SHALL MATCH ARCHITECTURAL CEILING TYPE.
4. IF FLEXIBLE DUCT SIZE INDICATED ON PLAN IS LARGER OR SMALLER THAN DIFFUSER NECK OR IF DIFFUSER NECK IS SQUARE OR RECTANGULAR PROVIDE TRANSITION FITTING AT DIFFUSER NECK.
5. REFER TO STRUCTURAL DESIGN FOR ATTACHMENT REQUIREMENTS AND ADDITIONAL SUPPORT OPTIONS.

3 CEILING DIFFUSER MOUNTING-FLEXIBLE
SCALE: NONE



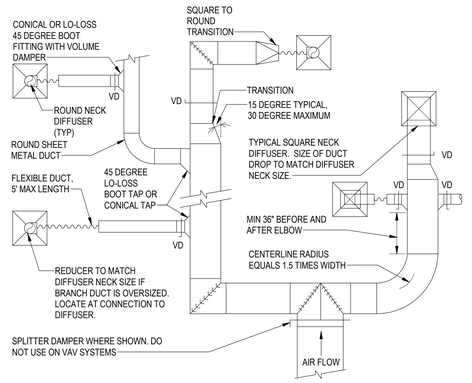
NOTES: (#)
1. DAMPER BLADES
2. ELECTRIC ACTUATOR MOTOR INTERLOCKED WITH SMOKE DETECTOR OR FIRE ALARM SYSTEM. COORDINATE WITH ELECTRICAL DESIGN FOR POWER, CONTROL WIRING AND SEQUENCE OF OPERATION.
3. ELECTRIC RESETTABLE FUSIBLE LINK CLOSES AND LOCKS THE DAMPER WHEN TEMPERATURE EXCEEDS PRESET TEMPERATURE. DAMPER MAY BE RESET BY PRESSING RESET BUTTON. INTEGRAL DAMPER BLADE INDICATOR SWITCH FOR REMOTE MONITORING OF OPEN AND CLOSED POSITIONS.
4. STEEL RETAINING ANGLES, MINIMUM 1-1/2"x1-1/2"x0.060", FASTENED TO FIRE DAMPER SLEEVE. ANGLES SHALL BE INSTALLED ON ALL FOUR SIDES OF DAMPER AND ON EACH SIDE OF THE WALL. FASTEN ANGLE TO SLEEVE WITH #10 SHEET METAL SCREWS (MINIMUM). ANGLE GAUGE AND FASTENING METHOD AS PERMITTED AS A CONDITION OF DAMPER LISTING. REFER TO MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. MINIMUM 1" ANGLE OVERLAP ON ALL SIDES OF PARTITION WALL.
5. DAMPER SLEEVE ON OPPOSITE SIDE OF WALL FROM ACTUATOR MUST BE MINIMUM 3" AND MAXIMUM OF 6" LONG.
6. DUCT CONNECTION AS PERMITTED PER DAMPER LISTING. FLANGED BREAK-AWAY STYLE DUCT/SLEEVE CONNECTIONS ARE SHOWN.
7. ACCESS DOOR SHOWN ON BOTTOM OF SLEEVE FOR ACCESS TO FIRE DAMPER BLADES. PANEL TO BE HINGED WITH AIRTIGHT SEAL. ACCESS SIZE MUST BE MINIMUM OF 12" BY 12" OR THE WIDTH OF DUCT IF SMALLER THAN 12" WIDE. ACCESS PANEL MUST BE LABELED WITH THE WORDS, "FIRE DOOR - DO NOT OBSTRUCT" IN LETTERS NO LESS THAN 1" IN HEIGHT. EXTERNAL INSULATION SHALL NOT CONCEAL ACCESS UNLESS A LABEL IS ATTACHED TO THE INSULATION WHICH INDICATES THE EXACT LOCATION OF THE OPENING.
8. DUCT SMOKE DETECTOR MOUNTED IN SLEEVE ON OPPOSITE SIDE FROM ACTUATOR WITHIN FIVE FEET OF DAMPER. OR, AREA SMOKE DETECTORS CONNECTED TO CENTRAL FIRE ALARM SYSTEM. SMOKE DETECTORS SHALL BE ADDRESSABLE AND UNIQUELY TAGGED.
9. LOCATE 3/4" HIGH WHITE PLASTIC LAMINATE SIGNS WITH 3/8" HIGH BLACK LETTERING WITH THE INITIALS "FSD" AND UNIQUE NUMBER ON THE CEILING ACCESS DOOR OR T-BAR CEILING GRID IN THE AREA OF THE DAMPER ACCESS PANEL. ATTACH TO CEILING WITH EPOXY ADHESIVE.
10. FIRE/SMOKE DAMPER DETAIL FOR REFERENCE ONLY. FIRE DAMPER SHALL BE STATE FIRE MARSHAL APPROVED. INSTALL PER MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS WHICH SHALL BE MADE AVAILABLE TO INSPECTION AUTHORITIES.
11. UL 555 & 555S COMPLIANT. LISTINGS: RUSKIN#R5531, GREENHECK#R13317, POTTORFF#R11767, NAILOR#R9492, CESCO#R6462 .
12. REFER TO SPECIFICATION SECTION 233113 FOR ADDITIONAL REQUIREMENTS.

4 FSD WALL AIRFOIL BLADE
SCALE: NONE



NOTES:
1. PROVIDE DUCT LINER AND/OR EXTERNAL DUCT INSULATION AS NOTED ON PLANS OR IN SPECIFICATIONS.
2. PROVIDE HANGERS AND SEISMIC BRACING PER SMACNA AND BUILDING CODE.
3. LOCATE MANUAL BALANCING DAMPERS IMMEDIATELY DOWNSTREAM OF EACH DUCT TAP.
4. MAINTAIN MINIMUM 36" CLEARANCE BETWEEN LEADING OR TRAILING ELBOW JOINT AND DUCT TAP FITTINGS.
5. TURNING VANES REQUIRED ON RECTANGULAR DUCT SYSTEM ELBOWS. SINGLE THICKNESS VANES UP TO 25" HEIGHT AND DOUBLE THICKNESS VANES IN DUCTS GREATER THAN 25" HEIGHT. RADIUSED ELBOWS MAY BE USED AS AN ALTERNATE.
6. NO TURNING VANES REQUIRED ON DUCT SIZES LESS THAN 180 SQ. IN. IF DUCT VELOCITY IS LESS THAN 1500 FPM.

2 RETURN EXHAUST DUCT FITTINGS
SCALE: NONE



NOTES:
1. PROVIDE DUCT LINER AND/OR EXTERNAL DUCT INSULATION AS NOTED ON PLANS OR IN SPECIFICATIONS.
2. PROVIDE HANGERS AND SEISMIC BRACING PER SMACNA AND BUILDING CODE REQUIREMENTS.
3. LOCATE MANUAL BALANCING DAMPERS IMMEDIATELY DOWNSTREAM OF EACH DUCT TAP.
4. CUSHION HEADS OR BULLHEAD TEES ARE NOT ALLOWED.
5. MAINTAIN MINIMUM 36" CLEARANCE BETWEEN LEADING OR TRAILING ELBOW JOINT AND DUCT TAP FITTINGS.
6. RADIUSED ELBOWS OR TURNING VANES REQUIRED ON RECTANGULAR DUCT SYSTEM ELBOWS. SINGLE THICKNESS VANES UP TO 25" HEIGHT AND DOUBLE THICKNESS VANES IN DUCTS GREATER THAN 25" HEIGHT.

1 SUPPLY DUCT FITTINGS
SCALE: NONE

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

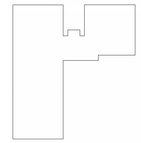
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER: S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

12/11/2024

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

MECHANICAL DETAILS

DATE: APRIL, 16, 2024

CONSTRUCTION DOCUMENTS

M901

CONSTRUCTION DOCUMENTS

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 12/11/2024 3:27:48 PM Autodesk Docs://Natividad Med Surg 3 Units - 3707-016-00/MKR Med-Surg MEP_v22.rvt

GENERAL NOTES

1. THESE GENERAL NOTES APPLY TO ALL SHEETS.
2. CONTRACT DOCUMENT DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. DO NOT SCALE FOR MATERIAL QUANTITIES. ALL SCALING SHOULD BE REFERENCED TO ARCHITECTURAL PLANS ONLY.
3. COORDINATE CONSTRUCTION OF ALL PLUMBING WORK WITH ALL OTHER DISCIPLINES AND AS SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
4. CONTRACTOR SHALL VISIT SITE AND VERIFY ALL EXISTING CONDITIONS AND CONNECTIONS TO EXISTING WORK PRIOR TO BIDDING AND CONSTRUCTION. COORDINATE WITH OWNER'S REPRESENTATIVE WHEN FIELD CONDITIONS PREVENT CORRECT INSTALLATION.
5. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED FEES, PERMITS AND INSPECTIONS. OBTAIN ALL FIELD APPROVALS ON WORK FROM REGULATING AGENCIES WHERE REQUIRED.
6. DURING ENTIRE CONSTRUCTION PERIOD MAINTAIN ADEQUATE TYPE 2A:40BC FIRE EXTINGUISHERS READY FOR USE IN CASE OF FIRE.
7. PROTECTION OF PUBLIC: THE CONTRACTOR SHALL PROTECT THE PUBLIC FROM INJURY DURING THE WORK BY POSTING WARNING SIGNS, GUARD LIGHTS AND BARRICADES.
8. COORDINATE ALL WORK WITH OTHER TRADES AND AVOID IMPACTING ARCHITECTURAL AND STRUCTURAL MEMBERS. NO WORK SUCH AS PIPE, DUCTWORK, ETC., SHALL BE IN CONTACT WITH ANY EQUIPMENT OR BUILDING MEMBERS.
9. COORDINATE ALL CUTTING AND PATCHING WITH GENERAL CONTRACTOR AND OTHER DISCIPLINES. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING RELATED TO THEIR WORK.
10. ALL ATTACHMENTS TO THE BUILDING STRUCTURE SHALL BE COORDINATED WITH THE STRUCTURAL DESIGN.
11. OBTAIN WRITTEN PERMISSION OF STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY CUTTING OR PATCHING OF STRUCTURAL SYSTEMS. DO NOT CUT ROOF FRAMING.
12. REFER TO STRUCTURAL PLANS FOR SEISMIC ATTACHMENT REQUIREMENTS PER SECTION 1613 OF THE BUILDING CODE.
13. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE OWNER'S REPRESENTATIVE BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.
14. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN ON DRAWINGS FOR PIPING AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR.
15. ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE COORDINATED WITH GENERAL CONTRACTOR. ALL ATTACHMENTS TO STEEL BAR JOISTS, TRUSSES, OR JOIST GIRDERS SHALL BE AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. WELDING TO STRUCTURAL MEMBERS IS NOT PERMITTED. THE USE OF C-CLAMPS IS NOT PERMITTED.
16. PIPING SHALL NOT BE SUPPORTED FROM METAL DECK.
17. THESE PLANS AND ACCOMPANYING SPECIFICATIONS HAVE BEEN DESIGNED TO SHOW SUBSTANTIAL COMPLIANCE WITH THE APPLICABLE PLUMBING CODE AND BUILDING ENERGY EFFICIENCY CODE. ALL EQUIPMENT SHALL MEET THE REQUIREMENTS OF THE BUILDING ENERGY EFFICIENCY CODE.
18. WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.
19. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS, ROUGH IN DIMENSIONS, AND MOUNTING HEIGHTS OF ALL FIXTURES, EQUIPMENT, ACCESS PANELS, CLEANOUTS, AND OTHER EXPOSED PLUMBING ELEMENTS. WHERE DIMENSIONS ARE NOT INDICATED, COORDINATE WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING CURRENT REQUIREMENTS WITH THE MANUFACTURER OF THE PRODUCTS USED ON THE PROJECT AND NOTIFY THE OWNER'S REPRESENTATIVE IF ANY DISCREPANCIES ARE FOUND BEFORE THE PURCHASE OF THE PRODUCT AND PRIOR TO INSTALLATION WORK OF ANY OWNER-FURNISHED PRODUCTS.
21. CONTRACTOR SHALL PROVIDE DUST COVERS AT ALL EXPOSED PIPING OPENINGS DURING CONSTRUCTION. BROOM CLEAN WORK AREA ON A DAILY BASIS TO MINIMIZE DUST AND DEBRIS WITHIN THE CONSTRUCTION AREA.
22. LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
23. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL FIRE AND SMOKE RATED ASSEMBLIES. PROVIDE UL LISTED SEALANT SYSTEM AT ALL LOCATIONS WHERE PIPING PENETRATES FIRE OR SMOKE RATED ASSEMBLIES (WALLS AND FLOORS).
24. DO NOT INSTALL ANY PIPING INSIDE ANY RATED WALL ASSEMBLIES OR IN STAIRWELLS.
25. PROVIDE WATER PROOF SEALANT AT FLOOR PENETRATIONS.
26. THESE DRAWINGS DO NOT INCLUDE ALL NECESSARY SAFETY REQUIREMENTS. CONTRACTOR TO COMPLY WITH SAFETY REQUIREMENTS SET FORTH BY THE LOCAL AUTHORITIES HAVING JURISDICTION.
27. ALL PLUMBING WORK SHALL BE INSTALLED AS TO AVOID INTERFERENCE WITH OTHER TRADES.
28. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE AND LOCATED AS PER CODE REQUIREMENTS. DO NOT INSTALL ANY FLOOR CLEANOUTS IN PATHS OF TRAVEL. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, FURNITURE, CASEWORK, ETC. AND THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
29. SHUT OFF VALVES, WATER CONTROL DEVICES, CLEANOUTS, ETC. SHALL BE THE SAME SIZE AS PIPING SERVED, UNLESS NOTED OTHERWISE.
30. BEFORE FABRICATION OR INSTALLATION, THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT AND EQUIPMENT PROVIDED UNDER ANOTHER SECTION OF SPECIFICATIONS. EXACT ROUGH IN LOCATIONS AND REQUIREMENTS SHALL BE COORDINATED IN THE FIELD.
31. ALL HORIZONTAL PIPING LINES EXTENDED AND CONNECTED TO EQUIPMENT SHALL BE RUN AT THE HIGHEST POSSIBLE ELEVATIONS.
32. ALL PIPING SHALL BE SUPPORTED SO AS NOT TO CONTACT ANY PORTION OF THE SUSPENDED CEILING SYSTEMS. STUDS/GYPSUM BOARD/NOISE CONTROL ELEMENTS OF THE OVERALL STRUCTURE. TRAPEZES OR OTHER DEVICES SHALL BE USED WHERE PIPING INTERFACES WITH THE NORMAL SPACING OF HANGER WIRES FOR CEILING SYSTEMS.
33. HORIZONTAL SOIL, WASTE, AND TRAP PRIMER PIPING WITHIN THE BUILDING SHALL BE INSTALLED CONCEALED WITHIN WALLS, BELOW FINISH FLOOR, OR BELOW FINISH SLAB AS APPLICABLE UNLESS NOTED OTHERWISE. ALL OTHER HORIZONTAL PIPING WITHIN THE BUILDING SHALL BE INSTALLED CONCEALED ABOVE CEILING OR WITHIN WALLS AS APPLICABLE UNLESS NOTED OTHERWISE. ALL VERTICAL PIPING SHALL BE INSTALLED CONCEALED WITHIN WALLS UNLESS NOTED OTHERWISE. NO PIPING SHALL BE INSTALLED IN EXPOSED LOCATIONS UNLESS SPECIFICALLY NOTED AS SUCH ON PLANS.
34. PIPING BETWEEN EACH PLUMBING FIXTURE AND THE NEAREST BRANCH OR MAIN PIPING RUN SHALL BE SIZED TO MATCH THE CORRESPONDING FIXTURE SCHEDULE CONNECTION SIZE AT A MINIMUM UNLESS NOTED AS A LARGER SIZE ON PLANS. PIPE HEADERS IN WALLS SERVING BANKS OF FIXTURES SHALL BE FULL LINE SIZE FROM THE UPSTREAM END OF THE BRANCH LINE TO THE END TERMINAL UNLESS NOTED OTHERWISE.
35. VERIFY EXACT LOCATIONS OF ALL MECHANICAL, FIRE PROTECTION, ELECTRICAL AND/OR OTHER EQUIPMENT INSTALLED BY OTHERS REQUIRING PLUMBING CONNECTIONS PRIOR TO ORDERING OF MATERIALS OR INSTALLATION. COORDINATE EXACT ROUGH IN LOCATIONS AND REQUIREMENTS WITH OTHER INSTALLING CONTRACTORS AS APPLICABLE PRIOR TO INSTALLATION
36. DOMESTIC WATER PIPING, FITTINGS, VALVES, AND APPURTENANCES SHALL BE LEAD-FREE IN COMPLIANCE WITH STATE REQUIREMENTS.
37. REFER TO TYPICAL DETAILS FOR PIPING AND EQUIPMENT INSTALLATION.
38. PROVIDE FLASHING AND COUNTERFLASHING FOR ALL PENETRATIONS THROUGH WALLS OR ROOF TO MAKE WATERPROOF INSTALLATION.
39. SUPPORT ALL PIPING SO THAT IT IS FIRMLY HELD IN PLACE BY APPROVED IRON HANGERS AND SUPPORTS, IN ACCORDANCE WITH RECOMMENDATIONS OF AMERICAN PIPE FITTERS ASSOCIATION AND PIPE HANGER INSTITUTE.
40. INSTALL ALL PLUMBING EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
41. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL PIPING DIMENSIONS BEFORE FABRICATION.
42. WHEREVER POSSIBLE, USE SAME ACCESS PANEL FOR SHUT OFF VALVES, TRAP PRIMERS, CLEANOUTS, AND/OR OTHER INTERIOR WALL COMPONENTS WHEN LOCATED DIRECTLY ADJACENT IN SAME VICINITY. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. WHERE DIMENSIONS ARE NOT INDICATED, COORDINATE WITH ARCHITECT AND/OR OWNER'S REPRESENTATIVE FOR LOCATIONS PRIOR TO INSTALLATION. MINIMUM SIZE REQUIRED: 12"x12".
43. ALL TESTS SHALL BE COMPLETED BEFORE ANY PIPING INSULATION IS APPLIED.
44. TEST SYSTEMS IN ACCORDANCE WITH REQUIREMENTS OF THE GOVERNING AUTHORITIES.
45. DISINFECTION AND FLUSHING OF POTABLE WATER PIPING SHALL BE DONE IN ACCORDANCE WITH THE PLUMBING CODE.
46. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND REPAIRING ALL AREAS WHICH ARE EXCAVATED AND/OR DAMAGED BY THEIR OPERATIONS. THE CONTRACTOR SHALL RESTORE ALL AREAS DAMAGED BY THEIR OPERATIONS TO THEIR ORIGINAL CONDITION.
47. AT COMPLETION OF CONSTRUCTION PROVIDE AS-BUILT DRAWINGS AND COPIES OF BOUND OPERATIONS AND MAINTENANCE MANUALS.
48. GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR (MINIMUM) FROM DATE OF CERTIFICATE OF OCCUPANCY.
49. A COPY OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE PROVIDED AT THE LOCATION OF EACH PIECE OF EQUIPMENT.

ABBREVIATIONS

ABV	ABOVE
AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AP	ACCESS PANEL
ARCH	ARCHITECT
ASR	AUTO FIRE SPRINKLER RISER
BAS	BUILDING AUTOMATION SYSTEM
BFV	BUTTERFLY VALVE
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BWV	BACKWATER VALVE
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CR	STEAM CONDENSATE RETURN
CFF	CAP FOR FUTURE
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CI	CAST IRON
CLG	CEILING
CO	CLEANOUT
CONC	CONCRETE
CV	CHECK VALVE
CW	DOMESTIC COLD WATER
CWFU	COLD WATER FIXTURE UNIT
DN	DOWN
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DDCVA	DOUBLE DETECTOR CHECK VALVE ASSEMBLY
DFU	DRAINAGE FIXTURE UNIT
DIA	DIAMETER
DSN	DOWNSPOUT NOZZLE
DWG	DRAWING
DWV	DRAINAGE WASTE AND VENT
E	EXISTING
ELEC	ELECTRICAL
FA	FLOW ALARM
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEANOUT
FDV	FIRE DEPARTMENT VALVE
FDVC	FIRE DEPARTMENT VALVE CABINET
FFA/FFB	FROM FLOOR ABOVE/BELOW
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FHV	FIRE HOSE VALVE
FIN	FINISHED
FO	FUEL OIL
FPS	FEET PER SECOND
FT	FEET
FT	FLUSH TANK
FU	FIXTURE UNIT
FV	FLUSH VALVE
G	GAS
GAL	GALLONS
GC	GAS COCK
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GV	GATE VALVE
HD	HUB DRAIN
HP	HORSEPOWER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RECIRCULATION
HWFU	HOT WATER FIXTURE UNIT
IAPMO	INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
IE	INVERT ELEVATION
IRR	IRRIGATION
LAV	LAVATORY
LBS	POUNDS (UNIT OF FORCE)
MAX	MAXIMUM
MBH	THOUSANDS BTU/HR
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MH	MANHOLE
NC	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO	NORMALLY OPEN OR NUMBER
NIC	NOT IN CONTRACT
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OW	OIL WASTE
POC	POINT OF CONNECTION
POD	POINT OF DISCONNECTION
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
RI&C	ROUGH IN AND CONNECT
R	RELOCATE, RISE, RISER
RP	REDUCED-PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY
RPM	REVOLUTIONS PER MINUTE
SD	STORM DRAIN
SF	SQUARE FEET
SHWR	SOLAR HOT WATER RETURN
SHWS	SOLAR HOT WATER SUPPLY
SOV	SHUT-OFF VALVE
SPK	SPRINKLER
SS	SANITARY SEWER
TFA/TFB	TO FLOOR ABOVE/BELOW
TP	TRAP PRIMER
TS	TAMPER SWITCH
TT	TEST TEE
TYP	TYPICAL
U/UR	URINAL
VB	VACUUM BREAKER
V	VENT
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET
WHA	WATER HAMMER ARRESTOR
WCO	WALL CLEANOUT
W/	WITH
YB	YARD BOX

PLUMBING LEGEND

NOTE: NOT ALL SYMBOLS OR ABBREVIATIONS ARE APPLICABLE TO THIS PROJECT. REFER TO DETAILS AND NOTES FOR MOUNTING HEIGHTS.

SYMBOL	DESCRIPTION
	TRAP PRIMER
	BALL VALVE
TS	BUTTERFLY VALVE
	GATE VALVE
	BALANCING VALVE
	SHUT OFF VALVE IN CONCRETE YARD BOX
	ANGLE GATE VALVE
	SOLENOID VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE
	MIXING VALVE
	PLUG VALVE / GAS COCK
	RELIEF VALVE
	VACUUM RELIEF VALVE
	PRESSURE & TEMPERATURE RELIEF VALVE
	AUTOMATIC AIR VENT
	BACKWATER VALVE
	REDUCED - PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY (RP)
	UNION
	STRAINER
	STRAINER WITH BLOW OFF HOSE BIBB
	PIPE ANCHOR
	PIPE ALIGNMENT GUIDE
	EXPANSION JOINT
	FLEXIBLE CONNECTOR
	CAP OR PLUG
	BLIND FLANGE
	CONCENTRIC REDUCER
	AQUASTAT
WHA	WATER HAMMER ARRESTOR
PG	PRESSURE GAUGE WITH COCK
T	THERMOMETER
CO/WCO	CLEANOUT / WALL CLEANOUT
FCO/COTG	FLOOR CLEANOUT / CLEANOUT TO GRADE
YCO/COTG	YARD CLEANOUT / CLEANOUT TO GRADE
TT	TEST TEE
WH	WALL HYDRANT
HB	HOSE BIBB
	ROOF HYDRANT
YH	YARD HYDRANT
	THRUST BLOCK
FD	FLOOR DRAIN
FS	FLOOR SINK W/ GRATE AS SHOWN
	HUB DRAIN
	ROOF RECEPTOR
	STORM DRAIN
	OVERFLOW DRAIN
	DECK DRAIN, PLANTER DRAIN
	DOWN SPOUT NOZZLE
M	SUB-METER

SYMBOL	DESCRIPTION
1% SLOPE	DIRECTION OF SLOPE
	DIRECTION OF FLOW
	PIPE UP OR UP & DN
	PIPE DOWN
	PIPE DROP
	TOP CONNECTION - BRANCH LINE
	BOTTOM CONNECTION - BRANCH LINE
	COLD WATER
	HOT WATER
	HOT WATER RECIRCULATION
140	HOT WATER (140°F)
	VENT
	PIPING BELOW GRADE OR FLOOR
	PIPING ABOVE GRADE OR FLOOR
SS	SANITARY SEWER, WASTE OR SOIL
SD	STORM DRAIN, RAINWATER DRAIN PIPING
OD	OVERFLOW STORM DRAIN PIPING
PD	PUMPED DISCHARGE
D	DRAIN LINE
IW	INDIRECT WASTE
GW	GREASE WASTE
G	NATURAL GAS (7"W.C.)
MG	MEDIUM PRESSURE GAS (2 PSIG TO 5 PSIG)
LG	LOW PRESSURE GAS
CA	COMPRESSED AIR
(E)	EXISTING PIPE
TW	TEMPERED WATER
TWR	TEMPERED WATER RETURN
6"	PIPE SIZE (DIAMETER IN INCHES)
(E)	EXISTING WORK TO REMAIN
(D)	EXISTING WORK TO BE REMOVED
(F)	FUTURE WORK
(ER)	EXISTING RELOCATED
℄	CENTER LINE
	POINT OF CONNECTION OR POINT OF DISCONNECTION
SS	SANITARY SEWER STACK
V	VENT STACKS
CW	COLD WATER RISER
HW	HOT WATER RISER
HWC	HOT WATER RECIRC. RISER
G	GAS RISER
SD	STORM DRAIN RISER
OD	OVERFLOW DRAIN RISER
CA	COMPRESSED AIR RISER
XX / X	PLUMBING EQUIPMENT
XXX	MISCELLANEOUS EQUIPMENT
#	KEYED NOTE
1 / P2	DETAIL NO. / SHEET NO.
#	POUNDS OR NUMBER

MEDICAL PIPING

SYMBOL	DESCRIPTION
DI	DEIONIZED WATER
O2	MEDICAL OXYGEN
O2	MEDICAL OXYGEN OUTLET
N2	NITROGEN
MV	MEDICAL VACCUM
MV	MEDICAL VACCUM INLET
MA	MEDICAL AIR
MA	MEDICAL AIR OUTLET
MVAC	MEDICAL VACUUM
AW	ACID WASTE
AV	ACID VENT

PLUMBING DRAWING LIST

P000	PLUMBING LEGEND AND ABBREVIATIONS
P001	PLUMBING SHEET SPECIFICATIONS
P002	SCHEDULES, SPECIFICATIONS & DETAILS
P100	LEVEL 2 - PLUMBING DEMOLITION PLAN
P101	LEVEL 3 - PLUMBING DEMOLITION PLAN (BC2)
P200	LEVEL 2 - PLUMBING PLAN
P201	LEVEL 3 - PLUMBING PLAN
P601	ENLARGED PLANS
P602	ENLARGED PLANS
P603	ENLARGED PLANS

DEFERRED SUBMITTALS

1. FIRE SPRINKLER DESIGN
2. SEISMIC BRACING FOR MECHANICAL AND PLUMBING SYSTEMS, INCLUDING EQUIPMENT, PIPING, AND DUCTWORK.
3. PIPE SYSTEM CERTIFICATION AND ANALYSIS:
   A. DESIGN: DESIGN AND CALCULATE REQUIREMENTS FOR THERMAL EXPANSION OF PIPING SYSTEMS AND FOR SELECTING AND DESIGNING EXPANSION JOINTS AND LOOPS.
   B. ANCHOR DETAILS: DETAIL FABRICATION OF EACH ANCHOR. SHOW DIMENSIONS AND METHODS OF ASSEMBLY AND ATTACHMENT TO BUILDING STRUCTURE. SUPPORTS, ANCHORS, AND GUIDES SHALL BE DESIGNED FOR COMBINED GRAVITY, SEISMIC, PRESSURE, AND THERMAL LOADS.
   C. ALIGNMENTS GUIDE DETAILS: DETAIL FIELD ASSEMBLY AND ATTACHMENT TO BUILDING STRUCTURE.
   D. SCHEDULE: EACH EXPANSION JOINT SHALL BE SCHEDULE WITH MANUFACTURER, TYPE, MATERIAL, SIZE, PRESSURE RATING, END CONNECTIONS, AND LOCATION.
   E. FULLY COORDINATE WITH DESIGN OF SEISMIC RESTRAINT AND ANCHORAGE.

*FOR ALL ITEMS LISTED ABOVE, THE PLUMBING AND/OR MECHANICAL CONTRACTOR SHALL PROVIDE A DELEGATED DESIGN SUBMITTAL WITH DOCUMENTATION AND ENGINEERING REQUIRED TO SATISFY REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION (AHJ). THE DELEGATED DESIGN SUBMITTAL SHALL INCLUDE BUT NOT BE LIMITED TO ANALYSIS DATA SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.

PLUMBING BASIS OF DESIGN

1. THE EXISTING LEVEL THREE OF THE BUILDING IS TO BE UPDATE WITH NEW FIXTURES AND LAYOUTS .
2. CODES AND STANDARDS (LATEST EDITIONS UNLESS OTHERWISE REQUIRED BY AHJ)
   1. AMERICANS WITH DISABILITIES ACT (ADA) (BC1)
   2. NFPA 99: HEALTH CARE FACILITIES CODE
   3. CALIFORNIA BUILDING CODES ENFORCED BY THE AUTHORITY HAVING JURISDICTION (AHJ):
      a. 2022 CALIFORNIA BUILDING CODE (CBC), CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 2 (2021 INTERNATIONAL BUILDING CODE WITH STATE AND LOCAL AMENDMENTS)
      b. 2022 CALIFORNIA PLUMBING CODE (CPC), CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 5 (2021 UNIFORM PLUMBING CODE WITH STATE AND LOCAL AMENDMENTS)
      c. 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARD FOR NONRESIDENTIAL COMPLIANCE, CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 6
      d. 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 11
1. WATER SUPPLY:
   1. THE EXISTING COLD WATER DISTRIBUTION SYSTEM SHALL BE USED TO SUPPLY COLD WATER TO ALL NEW FIXTURES.
   2. IT IS ASSUMED THERE ARE NO DIFICIENCIES WITHIN THE SYSTEM AND IT IS APPROPRIATELY SIZED TO SERVICE NEW FIXTURES.
2. DOMESTIC HOT WATER:
   1. THE EXISTING HOT WATER DISTRIBUTION SYSTEM SHALL BE USED TO SUPPLY COLD WATER TO ALL NEW FIXTURES.
   2. IT IS ASSUMED THERE ARE NO DEFICIENCIES WITHIN THE SYSTEM AND IT IS APPROPRIATELY SIZED TO SERVICE NEW FIXTURES.
   3. THE MAXIMUM ALLOWABLE PIPING LENGTH FOR DOMESTIC HOT WATER FROM THE NEAREST SOURCE OF HEATED WATER TO THE TERMINATION OF THE FIXTURE SUPPLY PIPE SHALL NOT EXCEED 25 FEET FOR LAVATORIES AND HAND WASHING SINKS.
3. SANITARY SEWER:
   A. ALL NEW SANITARY WASTE AND VENT PIPING SHALL BE CONNECTED INTO EXISTING BRANCHES OR MAINS. SEE ENLARGED PLANS FOR FURTHER DETAILS.

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET,
SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET,
SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING

EQUIPMENT

INTERIOR ARCHITECT
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

NATIVIDAD MEDICAL CENTER

1441 CONSTITUTION BOULEVARD SALINAS, CA 93906

PROJECT SPECIFIC INFORMATION

Natividad MEDICAL CENTER

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S24OSHP-27-00
Russell Rocker

CHRISTOPHER J. LENZ — No. M 684 — EXP. 12-31-2026 — MECHANICAL — STATE OF CALIFORNIA

3/21/2025

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024
BC2	BACKCHECK#2	03/14/2025

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

PLUMBING LEGEND AND ABBREVIATIONS

DATE: APRIL, 16, 2024

CONSTRUCTION DOCUMENTS

P000

CONSTRUCTION DOCUMENTS

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 3/20/2026, 1:30:06 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/NMC Med Surg MEP_V24.rvt

PLUMBING SHEET SPECIFICATIONS

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS
A. DEFINITIONS – "CONTRACTOR" MEANS "PLUMBING CONTRACTOR" WHEN REFERENCED ANYWHERE IN THE PLUMBING CONSTRUCTION DOCUMENTS UNLESS WORK AND EQUIPMENT HAS BEEN COORDINATED BETWEEN PLUMBING AND GENERAL CONTRACTORS TO BE PROVIDED BY OTHERS. "NEEDED," "PROVIDE," AND "INSTALL" MEANS ALL ITEMS CALLED OUT IN THE CONTRACT DOCUMENTS AND ANY ADDITIONAL ITEMS NOT CALLED OUT BUT REQUIRED TO MAKE A COMPLETE AND OPERATIONAL SYSTEM.

B. PLANS ARE DIAGRAMMATIC. DO NOT SCALE FOR MATERIAL QUANTITIES. ALL SCALING SHOULD BE REFERENCED TO ARCHITECTURAL PLANS ONLY. FURNISH AND INSTALL ALL COMPONENTS NEEDED WHETHER INDICATED OR NOT TO PROVIDE A COMPLETE AND OPERATING SYSTEM.

C. CONTRACTOR SHALL VISIT SITE AND VERIFY ALL CONNECTIONS TO EXISTING WORK PRIOR TO BIDDING.

D. SCOPE – THE INTENT OF THE SPECIFICATIONS AND THE DRAWINGS IS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL PLUMBING SYSTEM. THE PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO COMPLETE THE PLUMBING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF MATERIAL INTO THE BUILDING AS INDICATED ON DRAWINGS, WITHOUT INTERFERENCE WITH OTHER WORK, AND SHALL MAKE REASONABLE MODIFICATIONS IN THE LAYOUTS NEEDED TO PREVENT CONFLICT WITH OTHER TRADES, TO PROVIDE ACCESS AND FOR THE PROPER EXECUTION OF THE WORK.

E. PERMITS AND FEES – THE PLUMBING CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS, FEES AND INSPECTIONS NECESSARY TO COMPLETE THE PLUMBING SCOPE OF WORK.

F. WARRANTY – THE PLUMBING CONTRACTOR SHALL UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY OWNER'S REPRESENTATIVE AND WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE AND RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE MATERIALS AND WORKMANSHIP.

G. CODES: ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL CODES AND ORDINANCES, IN CASE OF CONFLICT BETWEEN THE DRAWINGS AND THE SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY. THE PLUMBING CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD WITHOUT EXTRA COST.

H. STANDARDS: EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF UPC, CPC, CSA, ULC, ARL, ASME, ASTM, UL, NEMA, ANSI SMACNA, ASHRAE, AND NFPA, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY.

I. ALL PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED PRIOR TO BIDDING AND PREAPPROVED IN WRITING. ALL COORDINATION ASSOCIATED WITH SUBSTITUTED MATERIALS OR EQUIPMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

J. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND TECHNICAL DATA FOR ALL EQUIPMENT AND MATERIALS SCHEDULED AND SPECIFIED INCLUDING AIR DISTRIBUTION AND PIPING SYSTEMS.

K. OPERATING AND MAINTENANCE INSTRUCTIONS – AT THE CONCLUSION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE THREE (3) COPIES OF OPERATING AND MAINTENANCE INSTRUCTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING PERIODIC SERVICE.

L. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND INSTRUCTIONS.

1.2 COORDINATION WITH EXISTING CONDITIONS AND OTHER TRADES
A. THIS PROJECT INVOLVES CONSTRUCTION INSIDE AN EXISTING STRUCTURE. CONTRACTORS, BY SUBMITTING A BID ARE DEEMED TO BE COMPLETELY FAMILIAR WITH THE EXISTING CONDITIONS OF THE BUILDING AS IT INFLUENCES THE WORK DESCRIBED. NO CLAIMS FOR EXTRA COMPENSATION WILL BE CONSIDERED FOR EXISTING CONDITIONS VISIBLE OR REASONABLY INFERABLE FROM A CAREFUL EXAMINATION OF THE EXISTING BUILDING CONDITIONS.

B. CONTRACTOR SHALL INSPECT THE EXISTING FIELD CONDITIONS AT THE SITE AND THE "AS BUILT" CONTRACT DOCUMENTS PRIOR TO THE START OF ANY WORK TO DETERMINE WHAT AFFECT THE EXISTING CONDITIONS WILL HAVE ON THE WORK POTENTIAL. PROBLEM AREAS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.

C. CONTRACTOR SHALL CONNECT THEIR WORK TO THE EXISTING PIPING SYSTEMS. NEW WORK SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM MATERIALS, AND CONSTRUCTION METHODS. COORDINATE ALL WORK WITH OTHER TRADES AND INSTALL ALL WORK IN COORDINATION WITH ARCHITECTURAL AND STRUCTURAL MEMBERS. EXCEPT FOR NECESSARY CONNECTIONS TO ASSOCIATED EQUIPMENT, NO PIPING OR DUCTWORK IS TO BE IN CONTACT WITH EQUIPMENT.

D. COORDINATE ALL CUTTING AND PATCHING WITH GENERAL CONTRACTOR AND OTHER DISCIPLINES. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING RELATED TO HIS WORK.

E. OBTAIN WRITTEN PERMISSION OF STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY CUTTING OR PATCHING OF STRUCTURAL SYSTEMS. DO NOT CUT ROOF FRAMING.

F. CARE SHALL BE TAKEN DURING INSTALLATION OF THE WORK TO NOT DAMAGE OR INTERRUPT THE EXISTING BUILDING SYSTEMS AND SERVICES INSTALLED. DAMAGE TO EXISTING SYSTEMS AND EQUIPMENT CAUSED BY CONTRACTOR DURING THE INSTALLATION OF THEIR WORK SHALL BE REPAIRED AND/OR REPLACED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE BUILDING OWNER.

G. NOTIFICATIONS AND COMPLIANCE WITH BUILDING STANDARDS AND RULES:
1. OBTAIN A COPY OF ANY APPLICABLE BUILDING TENANT DEVELOPMENT AND BUILDING CONSTRUCTION STANDARDS AND COMPLY WITH THESE STANDARDS.
2. SHUTDOWN OF EXISTING SYSTEMS FOR CONNECTION TO EXISTING SERVICES SHALL BE COORDINATED WITH THE OWNER. CONTRACTOR SHALL SUBMIT REQUESTS WHERE THEY AFFECT THE OPERATION OF THE BUILDING SYSTEMS AT LEAST ONE (1) WEEK IN ADVANCE OF ANY REQUIRED SHUTDOWN. THE ACTUAL SHUTDOWN PERIOD SHALL BE AS SHORT AS POSSIBLE AND AT A TIME AGREED TO BY THE OWNER.

H. DEMOLITION SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE, ARCHITECT AND GENERAL CONTRACTOR.

I. CONTRACTOR SHALL REPORT ANY EQUIPMENT DEFICIENCIES FOUND TO THE ARCHITECT WITHIN FIVE (5) DAYS OF DISCOVERY.

PART 2 - PRODUCTS AND EXECUTION

2.1 BASIC MATERIALS AND METHODS
A. ALL MATERIALS AND EQUIPMENT ARE TO BE NEW UNLESS OTHERWISE DESIGNATED IN THESE DOCUMENTS.

B. CUTTING, CORING AND FITTING – PERFORM REPAIRING AND FINISHING OF THE WORK NECESSARY FOR THE INSTALLATION OF THE FIXTURE. HOWEVER, NO CUTTING OF THE WORK OF OTHER TRADES OR ANY STRUCTURAL MEMBER SHALL BE DONE WITHOUT THE CONSENT OF THE ARCHITECT, CONSTRUCTION MANAGER, GENERAL CONTRACTOR, AND/OR OWNER. PROPERLY FILL, SEAL, FIREPROOF, AND WATERPRROOF ALL OPENINGS, SLEEVES AND HOLES IN SLABS, WALLS, AND CASEWORK.

C. HANGERS AND SUPPORTS – THE PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPORTS NEEDED FOR EQUIPMENT AND MATERIAL. PROVIDE HANGERS FOR INSULATED PIPE SIZES 1/2" TO 1-1/2" OF THE ADJUSTABLE STEEL BAND TYPE. HANGERS FOR INSULATED PIPE SIZES 2" AND OVER SHALL BE ADJUSTABLE STEEL CLEVIS TYPE. SHIELDS SHALL BE USED WHERE HANGER SUPPORTS INSULATED PIPE. HANGERS AND PIPE ATTACHMENTS TO BE FACTORY FABRICATED WITH GALVANIZED COATINGS; NONMETALLIC COATED FOR HANGERS IN DIRECT CONTACT WITH COPPER TUBING. HANGERS SHALL BE LOCATED 12" MAXIMUM FROM ANY CHANGE IN DIRECTION AND SPACES AS FOLLOWS FOR STRAIGHT RUNS. MAXIMUM SPACING BETWEEN HANGERS SHALL COMPLY WITH LOCAL CODE REQUIREMENTS WITH ADDITIONAL SUPPORTS WHERE REQUIRED TO PROPERLY SUPPORT EACH PIPE.

D. CONNECTIONS – INSTALL UNIONS ADJACENT TO EACH VALVE AND AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT. INSTALL DIELECTRIC COUPLINGS TO CONNECT PIPING MATERIALS OF DISSIMILAR METALS. SCREW JOINT STEEL PIPING UP TO AND INCLUDING 1-1/2". WELD PIPING USE NON-LEAD, NON-ANTIMONY SOLDER FOR SOLDERING DOMESTIC WATER COPPER PIPE.

E. INSTALLATION – INSTALL PIPING FREE OF SAGS AND BENDS, PROVIDE BRACKET STANDOFFS FROM MOUNTING SURFACES SUFFICIENT TO ALLOW 1" CLEANING SPACE AROUND ALL PIPING, INCLUDING ANY ADDED PIPING INSULATION. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS. INSTALL SLEEVES FOR PIPES PASSING THROUGH CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, CONCRETE FLOOR, AND ROOF SLABS/STRUCTURE. SEAL PIPE PENETRATIONS THROUGH RATED CONSTRUCTION WITH FIRE-STOPPING SEALANT MATERIAL MEETING CODE, AHJ, AND ARCHITECT'S REQUIREMENTS. UNDERGROUND WATER AND SEWER LINES SHALL BE LAID IN SEPARATE TRENCHES WITH A MINIMUM HORIZONTAL SPACING AS REQUIRED BY CODE, EXCAVATED TO THE PROPER DEPTH AND GRADED TO PRODUCE THE REQUIRED FALL.

F. ALL PLUMBING AND PLUMBING EQUIPMENT SHALL BE SUPPORTED FROM STRUCTURE (CONFIRM) AND NOT FROM OTHER EQUIPMENT, PIPING, CONDUITS OR CEILING SUPPORTS.

2.2 PLUMBING EQUIPMENT
A. EQUIPMENT – THE PLUMBING CONTRACTOR SHALL VERIFY ANY EQUIPMENT LOCATION AND SIZES REQUIRING PLUMBING CONNECTION(S) WITH THE TRADE AND VENDOR SUPPLYING THE EQUIPMENT PRIOR TO ROUGH-IN.

B. CLEANOUTS – WALL
1. CLEANOUT TEE: CAST IRON CLEANOUT TEE WITH COUNTERSUNK BRONZE PLUG, NEOPRENE PLUG GASKET SEAL AND SMOOTH STAINLESS STEEL COVER.
2. MANUFACTURER: ZURN #Z1446, OR J.R. SMITH #4530 SERIES.

C. TESTING – ALL PIPES SHALL BE TESTED BY AN APPROVED METHOD BEFORE THEY ARE BACKFILLED OR CONCEALED. AFTER TESTING IS COMPLETE, THE PLUMBING CONTRACTOR SHALL DISINFECT THE POTABLE WATER SYSTEM AS REQUIRED BY AHJ. TEST WATER PURITY ACCORDING TO AHJ AND SUBMIT CERTIFIED TEST RESULTS TO AHJ FOR REVIEW AND APPROVAL.

2.3 INSULATION
A. DOMESTIC HOT WATER
1. PREFORMED MINERAL WOOL OR FIBERGLASS:
a. MOLDED FIBROUS GLASS PIPE INSULATION SHALL COMPLY WITH THE REQUIREMENTS OF ASTM C 547 AND MEET ASTM C 585 FOR SIZES REQUIRED IN THE PARTICULAR SYSTEM. UL 723 OR ASTM E84 COMPLIANT FOR FLAME SPREAD INDEX OF 25 OR LESS AND SMOKE DEVELOPED INDEX OF 50 OR LESS. FOR ALL FLUID DISTRIBUTION TEMPERATURES BELOW 45;F THE SYSTEM SHALL BE OF A WICKING TYPE.
b. NON-WICKING.
c. APPLICATIONS: INSULATION OF PIPING UP TO 18" IN DIAMETER AND 3" THICK INSULATION.
d. 'K' VALUE: 0.23 AT 75°F.
e. MAXIMUM SERVICE TEMPERATURE: 850°F.
f. FLAME SPREAD INDEX: ASTM E84 AND UL 723, LESS THAN 25.
g. SMOKE DEVELOPED INDEX: ASTM E84 AND UL 723, LESS THAN 50.
h. VAPOR RETARDER JACKET: AP-T PLUS WHITE KRAFT PAPER REINFORCED WITH GLASS FIBER YARN AND BONDED TO ALUMINUM FOIL, SECURE WITH SELF-SEALING LONGITUDINAL LAPS AND BUTT STRIPS OR AP JACKET WITH OUTWARD CLINCH EXPANDING STAPLES OR VAPOR BARRIER MASTIC AS NEEDED.
i. MANUFACTURERS: JOHNS MANVILLE #MICRO-LOK HP, OWENS CORNING #SSL II, KNAUF, OR EINSULATION.

B. INSTALL NO-SCALD SAFETY COVERS WIT INSULATED FOAM LINER AND TAMPER PROOF STRAP AT EXPOSED PIPING UNDER ADA SINKS.

2.4 PIPING
A. SANITARY WASTE AND VENT PIPING, CAST IRON PIPING. UP TO 15":
1. PIPE AND FITTINGS:
a. CAST IRON, BITUMINOUS COATED "NO-HUB" FITTINGS COMPLYING WITH ASTM A74, ASTM A888, CISPI 301.
b. MANUFACTURED BY AB&I, CHARLOTTE, TYLER, OR NEW AGE.
2. COUPLINGS:
a. TYPE 301 OR 304 STAINLESS STEEL COUPLINGS CONFORMING TO ASTM C1540 WITH HEAVY-DUTY SHIELD AND NEOPRENE SEALING SLEEVE CONFORMING TO ASTM C-564, CISPI 310 AND FM-16I80.
b. MANUFACTURERS: ANACO HUSKY #HD-2000, CLAMP-ALL (NORMA GROUP) #HI-TORQ 80, MISSION #HEAVYWEIGHT, OR IDEAL TRIDON #MD.

B. DOMESTIC WATER PIPING, COPPER PIPING. PIPE SIZES 1/2" TO 8":
1. PIPING:
a. ASTM B88 OR B75, TYPE K OR L, ANNEALED (SOFT) TEMPER.
b. ASTM B88 OR B75, TYPE K OR L, HARD TEMPER.
c. MANUFACTURERS: MUELLER STREAMLINE, OR CERRO FLOW PRODUCTS.
2. FITTINGS-SOLDERED:
a. ASME B16.22 WROUGHT COPPER ALLOY.
b. ASME B16.18 CAST COPPER ALLOY.
c. MANUFACTURERS: NIBCO, OR MUELLER.
3. FITTINGS-BRAZED:
a. ASME B16.50 WROUGHT OR COPPER ALLOY.
b. MANUFACTURERS: NIBCO, OR MUELLER.
4. JOINTS-SOLDERED:
a. ASTM B32 FILLER METALS. MANUFACTURERS: CANFIELD #SILVERFLO OR #WATERSAFE, OR LUCAS MILHAUPT #SILVABRITE 100.
b. WATER SOLUBLE, LEAD FREE FLUX. MANUFACTURERS: OATEY #H-20-95, JW HARRIS #BRIDGIT, LA-CO #FLUX-RITE 90, RECTORSEAL #NOKORODE, OR LUCASMILHAUPT #SILVABRITE 100 OR #95/5.
5. JOINTS-BRAZED:
a. ANSI/AWS A5.8 FILLER METALS. MANUFACTURERS: CANFIELD #SIL-CAN 5 OR #SIL-CAN 15, OR LUCASMILHAUPT #SIL-FOS.
b. WATER SOLUBLE, LEAD FREE FLUX. MANUFACTURERS: JW HARRIS #SAFETY-SILV, OR LUCASMILHAUPT #HANDY FLUX.

C. MEDICAL GRADE GASES & VACUUM
1. TYPE "L" OR TYPE "K" HARD DRAWN COPPER (OXYMED), ASTM B819.
2. FITTINGS: WROUGHT COPPER, ASME/ANSI B16.50, FOR BRAZE-JOINT PRESSURE FITTINGS. BCUP SERIES SILVER-COPPER-PHOSPHORUS ALLOY BRAZED JOINT, AWS A5.8, ONLY. NO FLUX SHALL BE USED. ADHERE TO THE FOLLOWING REQUIREMENTS AND PER NFPA-99 CHAPTER 5.

2.5 VALVES
A. GENERAL – PLUMBING CONTRACTOR TO PROVIDE VALVES WHERE INDICATED ON PLANS AND AS NECESSARY FOR PROPER SYSTEM OPERATION AND COMPONENT ISOLATION. INSTALL VALVES FOR EACH FIXTURE AND ITEM OF EQUIPMENT. PROVIDE BRAIDED STAINLESS STEEL HOSE (UNLESS OTHERWISE NOTED) BETWEEN VALVE AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. LOCATE SHUT-OFF VALVES WITHOUT MOVING EQUIPMENT. PROVIDE STOP VALVES FOR ALL EQUIPMENT WHETHER SHOWN ON THE DRAWINGS OR NOT. VALVES SHALL BE LISTED/APPROVED FOR USE BY AHJ AND CODE REQUIREMENTS.

B. VALVES – UNLESS NOTED OTHERWISE, VALVES SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:
1. VALVE TYPE:
a. BALL VALVE (UP TO 2"): 600 PSI, 2-PIECE, BRONZE BODY, SOLDERED ENDS FOR COPPER PIPE AND THREADED ENDS FOR IRON PIPE, CHROME PLATED BRASS BALL, TEFLON SEAT, BRASS STEM. STEEL HANDLE. FULL PORT, LOW LEAD COMPLIANT. MANUFACTURERS: MILWAUKEE #UPBA-400 SERIES (THREADED), MILWAUKEE #UPBA-450 SERIES (SWEAT), APOLLO #APXV1212 (PEX CONNECTOR), OR APOLLO LEAD FREE #77CLF SERIES.
b. ANGLE STOP VALVE: HEAVY DUTY 1/4 TURN COMMERCIAL STOP, BRASS BODY, CHROME PLATED, 125 PSI WORKING PRESSURE, COMPLIANT WITH ASME A112.18.1, LOW LEAD COMPLIANT. PROVIDE WITH LOOSE KEY HANDLE IN PUBLIC ACCESS SPACES FOR VANDAL RESISTANCE. SELECT OUTLET DIAMETER SIZE TO MATCH FIXTURE CONNECTION SIZE. MANUFACTURERS: CHICAGO FAUCETS #ST SERIES, BRASSCRAFT #KT SERIES, OR MCGUIRE.
c. MEDICAL GAS BALL VALVE: QUARTER TURN LEVER OPERATED, 3-PIECE FULL PORT VALVE WITH CAST BRONZE BODY, STAINLESS STEEL BALL AND STEM, TEFLON SEALS, RATED FOR PRESSURES OF 400 PSI OR 29" HG VACUUM. MANUFACTURER: ALLIED-CHEMETRON #77 SERIES, OR BEACON-MEDAES.
2. THERMOSTATIC MIXING VALVE:
a. MIXING VALVE SHALL BE ASSE 1070 (PERFORMANCE REQUIREMENTS FOR WATER TEMPERATURE LIMITING DEVICES) COMPLIANT WITH ADJUSTABLE AND LOCKABLE MEANS TO LIMIT THE HOT WATER TEMPERATURE SETTING FOR INDIVIDUAL FIXTURES SUCH AS LAVATORIES AND BATHTUBS. WHERE FIXTURES HAVE INTEGRAL ASSE 1070 COMPLIANT VALVES THERE IS NO ADDITIONAL REQUIREMENT FOR UPSTREAM TEMPERATURE LIMITATION CONTROL. PROVIDE VALVE FOR INDIVIDUAL FIXTURES OR COMBINED FLOWS UP TO 6 GPM.
b. THERMOSTATIC VALVE CONSTRUCTED OF BRASS, BRONZE OR STAINLESS STEEL BODY, WITH SCREWDRIVER LOCKING TEMPERATURE REGULATORS, CHECK STOPS, REMOVABLE/REPLACEABLE CARTRIDGE, STAINLESS STEEL PISTON, BRASS PIPE FITTINGS, AND UNIONS. INTERIOR PARTS IN STANDARD ROUGH BRONZE, NICKEL OR CHROME FINISH. VALVE SHALL BE LEAD-FREE. INCLUDE COLD WATER BYPASS FITTING WHERE REQUIRED BY FAUCET.
c. PROVIDE CHROME OR NICKEL PLATED BODY WHERE INSTALLED EXPOSED UNDER A LAVATORY. PROVIDE STAINLESS STEEL CABINET WITH WALL MOUNTING BRACKET FOR VALVE WHEN INSTALLED INSIDE T HE CONCEALED CABINET.

2.6 TESTING
A. WATER DISTRIBUTION PIPING TEST: BEFORE FIXTURES ARE SET, SUBJECT THE HOT AND COLD WATER PIPING SYSTEMS TO A HYDROSTATIC PRESSURE TEST OF 150 POUNDS PER SQUARE INCH WITH WATER FOR NOT LESS THAN 8 HOURS IN ORDER TO PERMIT INSPECTION OF ALL JOINTS WITH NO EVIDENCE OF LEAKAGE. WHERE A PORTION OF THE WATER DISTRIBUTION PIPING IS TO BE CONCEALED BEFORE COMPLETION, TEST THIS PORTION SEPARATELY AS SPECIFIED FOR THE ENTIRE SYSTEM.
B. SANITARY WASTE AND VENT PIPING TEST: BEFORE THE INSTALLATION OF ANY FIXTURES OR DRAINS, CAP THE ENDS OF THE SYSTEM AND FILL ALL LINES WITH WATER AND ALLOW TO STAND FOR AT LEAST 30 MINUTES WITHOUT LEAKAGE. MAKE TESTS WITHIN BUILDING WITH PIPING EXPOSED. IF THE SYSTEM IS TESTED IN SECTIONS, TIGHTLY LUG EACH OPENING, EXCEPT THE HIGHEST OPENING OF THE SECTION UNDER TEST, AND FILL EACH SECTION WITH WATER AND TEST WITH AT LEAST A 10 FEET HEAD OF WATER FOR WASTE PIPING AND UP TO THE TOP OF VENT TERMINAL FOR VENT PIPING. PERFORM FINAL TEST FOR SANITARY DRAINAGE, VENT AND FIXTURE SYSTEM

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

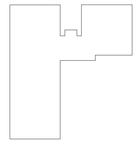
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

5/22/2024

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

PLUMBING SHEET SPECIFICATIONS

DATE: APRIL, 16, 2024

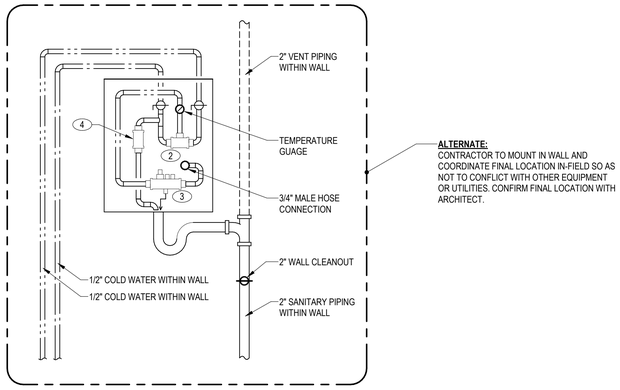
CONSTRUCTION DOCUMENTS

P001

CONSTRUCTION DOCUMENTS

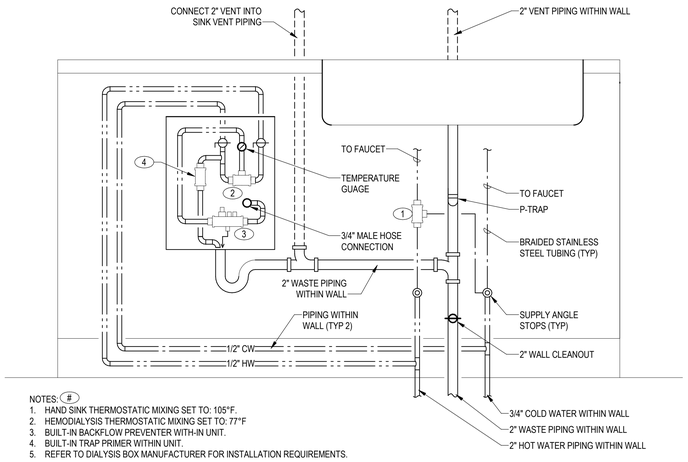
Author 4/17/2024 10:43:51 AM Autodesk Docs://Natividad Med Surn 3 Unit - 3707-016-00/MOD Med Surn MEP_V22.rvt

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.



ALTERNATE:
CONTRACTOR TO MOUNT IN WALL AND COORDINATE FINAL LOCATION IN-FIELD SO AS NOT TO CONFLICT WITH OTHER EQUIPMENT OR UTILITIES. CONFIRM FINAL LOCATION WITH ARCHITECT.

BC1



NOTES: (#)
1. HAND SINK THERMOSTATIC MIXING SET TO: 105°F.
2. HEMODIALYSIS THERMOSTATIC MIXING SET TO: 77°F
3. BUILT-IN BACKFLOW PREVENTER WITH-IN UNIT.
4. BUILT-IN TRAP PRIMER WITHIN UNIT.
5. REFER TO DIALYSIS BOX MANUFACTURER FOR INSTALLATION REQUIREMENTS.

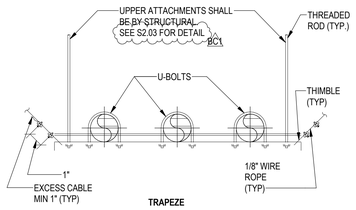
4 HEMODIALYSIS DIALYSIS CONNECTION
SCALE: NONE

PLUMBING FIXTURE SCHEDULE

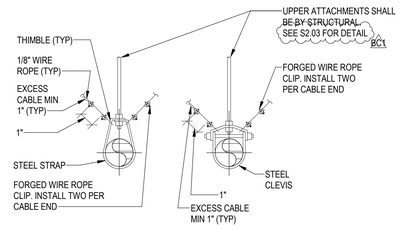
TAG	FIXTURE	MANUFACTURER	MODEL	ADA (Y/N)	FLOW (GPF/GPM)	CONNECTION SIZE W	V	HW	CW	ELECTRICAL V	PH	A	REMARKS
DF-1	DRINKING FOUNTAIN	ELKAY	EZWS-EDFPBM114K	YES	0.133	1 1/2"	2"		1/2"	115	1	1.1	ROUND BOWL, WALL MOUNTED STAINLESS STEEL DRINKING FOUNTAIN WITH BOTTLE FILLER. PROVIDE ELKAY SUPPORT CARRIER, MOUNTING PLATE, AND RECOMMENDED WATER FILTER.
HDB-1	HEMO-DIALYSIS OUTLETBOX	WHITEALL MANUFACTURING	8194			2"	2"	1/2"	1/2"				UNIT IS AN ALL-IN-ONE SELF-CONTAINED FIXTURE WITH TRAP PRIMER, BACKFLOW PREVENTER, AND MIXING VALVE. INSTALL PER MAUFACTURER'S REQUIREMENTS AND COORDINATE FINAL LOCATION IN-FIELD WITH OTHER FIXTURES AND ARCHITECT. DIMENSIONS (IN): 16-1/2x4x21-1/2.
LV-1	~~HANDWASH SINK~~	~~BY ARCHITECT~~	~~BY ARCHITECT~~	~~YES~~	~~0.35~~	~~2"~~	~~2"~~	~~1/2"~~	~~1/2"~~				~~FAUCET: CHICAGO FAUCET 786-E35ABCP 4" WRISTBLADE GOOSENECK FAUCET, WITH~~ 0.35 GPM NON-AERATEING SPRAY ADAPTER ACCESSORIES: PROVIDE OFFSET DRAIN WITH FIXED GRID STRAINER. PROVIDE PLUMBEREX "PRO-EXTREME" P-TRAP AND SUPPLY PROTECTION MIXING VALVE: SLOAN MIX-60-A SET TO 105°F
LV-2	LAVATORY	KOHLER	K-2007	YES	0.35	2"	2"	1/2"	1/2"				FIXTURE: VITREOUS CHINA, WALL MOUNTED, 21-1/4"X18-1/8" FAUCET: CHICAGO FAUCET 116.203.AB.4T GOOSENECK, BATTERY POWERED SENSOR WITH 0.35 GPM NON-AERATEING SPRAY ADAPTER ACCESSORIES: PROVIDE OFFSET DRAIN WITH FIXED GRID STRAINER. PROVIDE PLUMBEREX "PRO-EXTREME" P-TRAP AND SUPPLY PROTECTION MIXING VALVE: SLOAN MIX-60-A SET TO 105°F
SH-1	SHOWER	SYMMON	1-117/VT-FS-1.5-X BC1	YES	1.5	2"	2"	1/2"	1/2"				FIXTURE: INCLUDES VISU-TEMP PRESSURE BALANCING MIXING VALVE WITH INTEGRAL THERMOMETER AND ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN. LEVEL DIVERTER WITH VOLUME CONTROL FOR SHOWER HEAD AND WAND. WAND HOOK TO BE MOUNTED NO HIGHER THAN 48" AFF TO COMPLY WITH ADA AND 60" FLEXIBLE METAL HOSE, AND INTEGRAL STOPS FOR SERVICE AT VALVE. MAXIMUM ALLOWABLE TEMPERATURE: 110°F. DRAIN: DRAIN AND ENCLOSURE BY ARCHITECT. SEE ARCHITECTURAL DRAWING FOR FURTHER INFORMATION. CONTRACTOR TO PROVIDE 2"SS PIPING TO ALLOW FOR DRAIN TO CONNECT INTO
SK-1	BREAKROOM SINK	KOHLER	K-3363-1	YES	1.5	2"	2"	1/2"	1/2"				~~FIXTURE: 18-GUAGE STAINLESS STEEL, COUNTERMOUNTED, 22"X22"X8" DEEP~~ FAUCET: CHICAGO FAUCET 436-ABBN GOOSENECK, SINGLE LEVEL FAUCET WITH LAMINAR FLOW OUTLET ACCESSORIES: PROVIDE OFFSET DRAIN WITH FIXED GRID STRAINER. PROVIDE PLUMBEREX "PRO-EXTREME" P-TRAP AND SUPPLY PROTECTION MIXING VALVE: SLOAN MIX-60-A SET TO 110°F
WC-1	WATER CLOSET, WALL HUNG	KOHLER	K-4325-L	YES	1.28	4"	2"		1 1/4"				FIXTURE: CHINA, WALL MOUNT, ELONGATED BOWL FLUSH VALVE: SLOAN ROYAL 111-1.28 TRIP HANDLE SEAT: OLSONITE #955SCT OPEN FRONT SEAT MOUNT HEIGHT: MOUNT RIM AT 17" AFF. COORDINATE FLUSH VALVE MOUNTING HEIGHT WITH GRAB BAR MOUNTING BREAK AND ADJUST FLUSH VALVE AS REQUIRED, PROVIDE OFFSET OUTLET TUBE ON FLUSH VALVE. COORDINATE WITH ARCHITECTURAL DETAILS

BC1

NOTES:
A. COMPLY WITH ALL MANUFACTURER INSTALLATION REQUIRMENTS TO PROVIDE COMPLETE AND OPERATIONAL FIXTURES.
B. PROVIDE TRANSITION FITTING AS REQUIRED TO CONNECT TO BRANCH PIPING, WHICH MAY BE A DIFFERENT SIZE, AND AS SHOWN ON DRAWINGS.
C. PROVIDE STOP VALVES, BACKFLOW PREVENTERS AND SUPPORTS AS REQUIRED BY THE MANUFACTURER AND PLUMBING CODE.
D. COORDINATE WITH ELECTRICAL DESIGN FOR POWER SUPPLY AND LOCATIONS.
E. HOT WATER SHALL BE LIMITED TO ALL FIXTURES IN ACCORDANCE WITH ASSE STANDARDS.

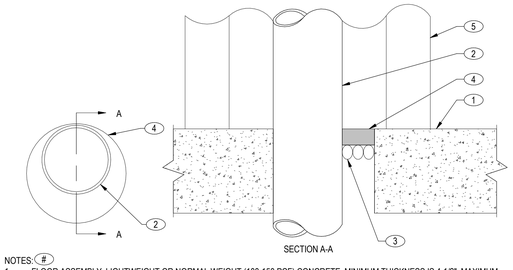


TRAPEZE



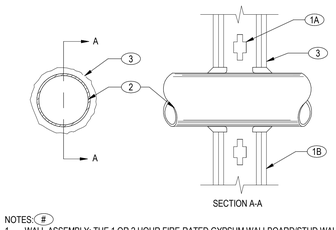
NOTES:
1. PIPING SUPPORTS SHALL MEET ALL STATE AND LOCAL SEISMIC RESTRAINT REQUIREMENTS.
2. COORDINATE ANCHORAGE REQUIREMENTS WITH STRUCTURAL DESIGN.
3. PROVIDE SEISMIC CABLE TRANSVERSE BRACING AT 40 FEET. AND EACH CHANGE OF DIRECTION.
4. SEISMIC CABLE LONGITUDINAL BRACING AT 80 FEET. AND EACH CHANGE OF DIRECTION.
5. MAXIMUM ROD SPAN BETWEEN SUPPORTS IS 10'. CLOSER SPAN AS REQUIRED BY SPECIFICATIONS AND SMACNA.
6. PROVIDE TRANSVERSE AND LONGITUDINAL BRACES AT 40 FEET MAXIMUM FOR PIPES SMALLER THAN 4 IN. AND AT 20 FEET MAXIMUM FOR PIPES 4 TO 8 INCHES.
7. SEISMIC CABLE RESTRAINTS ARE NOT REQUIRED AT EVERY HANGER LOCATION. VERTICAL HANGERS, DIAGONAL AND HORIZONTAL BRACES TO BE SIZED IN ACCORDANCE WITH SMACNA SEISMIC RESTRAINT MANUAL.
8. SEISMIC BRACING REQUIRED FOR PIPE SIZE 2-1/2" AND LARGER.

3 PIPE SUPPORTS
SCALE: NONE



NOTES: (#)
1. FLOOR ASSEMBLY: LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE, MINIMUM THICKNESS IS 4-1/2". MAXIMUM 12-3/4" DIAMETER OPENING IN SOLID LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE.
1A. STEEL SLEEVE (OPTIONAL, NOT SHOWN): MAXIMUM 12" ID (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR ASSEMBLY FLUSH WITH FLOOR SURFACES.
2. THROUGH PENETRANT: ONE METALLIC PIPE OR TUBE TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. MAXIMUM ANNULAR SPACE BETWEEN PIPE OR TUBING AND EDGE OF THROUGH OPENING OR SLEEVE IS DEPENDENT ON THE INSTALLATION INSTRUCTIONS. MINIMUM ANNULAR SPACE BETWEEN PIPE OR TUBING AND EDGE OF THROUGH OPENING IS 0" OR POINT CONTACT. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPE OR TUBING MAY BE USED:
   A. STEEL PIPE: NOMINAL 10" (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   B. IRON PIPE: NOMINAL 10" (OR SMALLER) CAST OR DUCTILE IRON PIPE.
   C. COPPER TUBING: NOMINAL 4" (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBE.
   D. COPPER PIPE: NOMINAL 4" (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
3. PACKING MATERIAL: MINIMUM 1" THICKNESS OF 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
4. FILL, VOID OR CAVITY MATERIAL-CAULK OR SEALANT: MINIMUM 1" THICKNESS OF CAULK APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR.
5. DUCT WRAP MATERIAL: NOMINAL 2" THICK DUCT WRAP TIGHTLY WRAPPED AROUND THE PENETRANT TO EXTEND 36" ABOVE FLOOR. AN ADDITIONAL LAYER OF NOMINAL 2" THICK DUCT WRAP TIGHTLY WRAPPED AROUND THE FIRST LAYER OF DUCT WRAP TO EXTEND 12" MINIMUM ABOVE FLOOR. ALL LONGITUDINAL SEAMS OF BOTH LAYERS OF DUCT WRAP ARE SEALED WITH FOIL TAPE.
6. 3M SYSTEM #F-A-1057. F=2 HOUR. T=2 HOUR, L AT AMBIENT=2-CFM/SQ-FT. L AT 400°F=LESS THAN 1-CFM/SQ-FT BC1

2 PIPE PENETRATION CONCRETE FLOOR 2 HR
SCALE: NONE



NOTES: (#)
1. WALL ASSEMBLY: THE 1 OR 2 HOUR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS-WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 HR FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS.
   B. GYPSUM BOARD-NOMINAL 5/8" THICK. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY.
2. THROUGH PENETRANT: ONE METALLIC PIPE OR TUBE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN OF 0" TO 2". PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBING MAY BE USED:
   A. STEEL PIPE: MAXIMUM 12" DIAMETER STEEL PIPE.
   B. IRON PIPE: MAXIMUM 12" CAST IRON OR DUCTILE IRON PIPE.
   C. COPPER TUBING: MAXIMUM 6" TYPE L OR HEAVIER COPPER TUBING OR COPPER PIPE.
   D. FLEXIBLE METAL PIPING: MAXIMUM 2" DIAMETER AS ALLOWED BY UL LISTING.
3. FILL, VOID OR CAVITY MATERIAL-CAULK OR SEALANT: MINIMUM 5/8" OR 5/8" THICKNESS OF CAULK FOR 1 AND 2 HOUR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. DIAMETER BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT MINIMUM 1/4 CONTACT LOCATION ON BOTH SIDES OF WALL. THE HOURLY F RATING AND T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED AS TESTED AND LISTED BY PRODUCT MANUFACTURER. T=0 HOUR FOR PIPE DIAMETER GREATER THAN 1".
4. 3M SYSTEM #W-L-1001.

1 PIPE PENETRATION FRAMED WALL 2 HR
SCALE: NONE

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

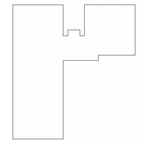
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER: S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

12/11/2024

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

SCHEDULES & DETAILS

DATE: APRIL, 16, 2024

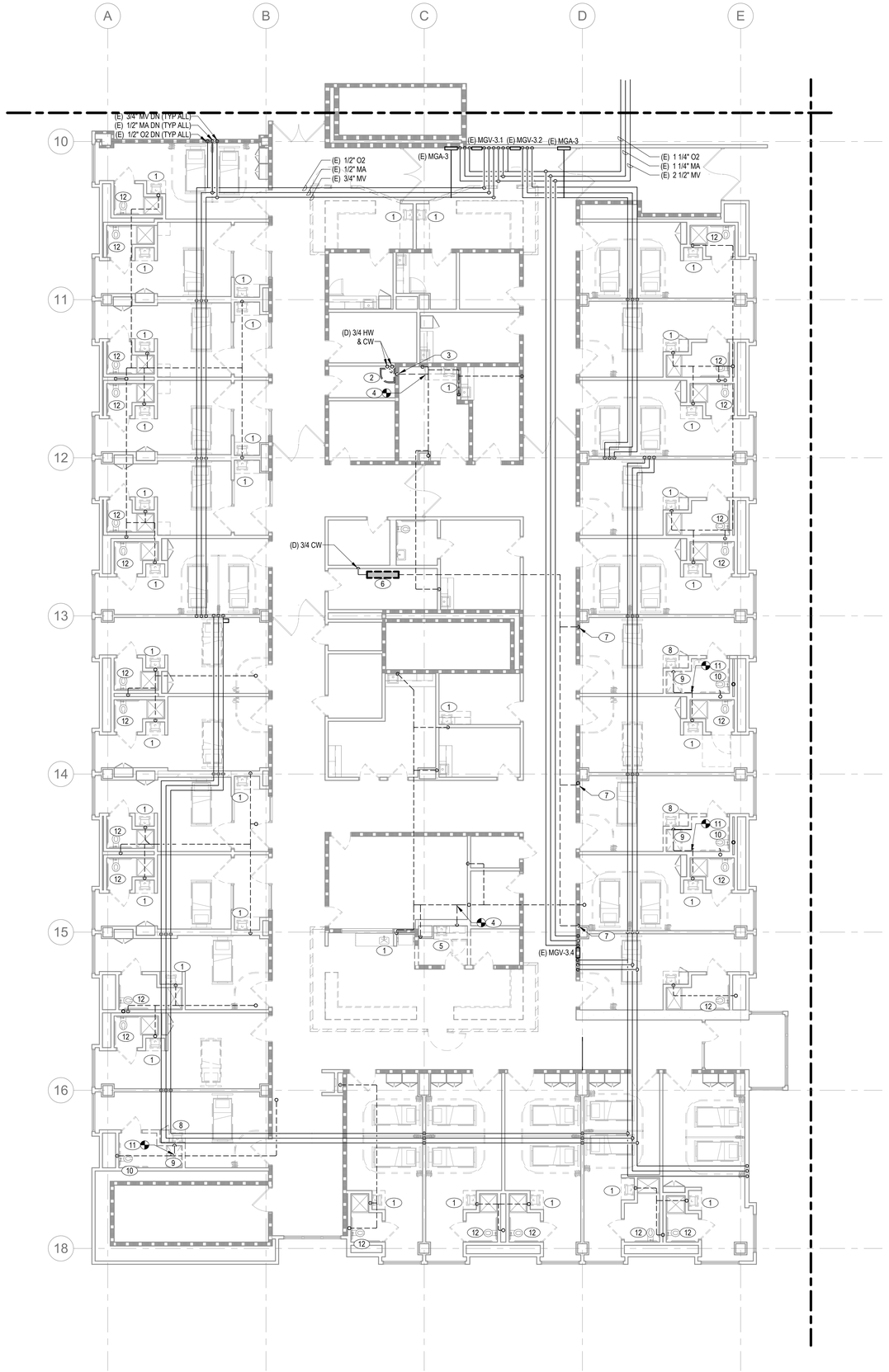
CONSTRUCTION DOCUMENTS

P002

CONSTRUCTION DOCUMENTS

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 12/11/2024 3:27:49 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/MOD Med Surg MEP_V22.rvt



1 LEVEL 03 - PLUMBING DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

0 8' - 0" 16' - 0" 24' - 0" 32' - 0"

SHEET NOTES

A. EXISTING ROUTING SHOWN IS BASED ON AS-BUILTS PROVIDED DURING DESIGN. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK; THIS INCLUDES VERIFYING THE EXISTING SIZES AND ROUTING OF DOMESTIC WATER AND SANITARY WASTE SYSTEMS. ADDITONAL FITTINGS, OFFSETS, AND MATERIALS MAY BE REQUIRED TO CONNECT TO EXISTING SYSTEMS. NOTIFY ARCHITECT AND ENGINEER IF CONNECTION CANNOT BE ACHIEVED.
B. DURING DEMOLITION, INSPECT EXISTING SYSTEM(S), AND REPORT ANY DEFECTS OR DEFICIENCIES TO THE OWNER.
C. COORDINATE ANY ROOM, UTILITY, OR SANITARY SHUTDOWNS WITH OWNER. CONTRUCTION NOT TO INTERRUPT OWNER NORMAL OPERATIONAL HOURS. PROVIDE MINIMUM 48-HOUR NOTICE.
D. EXISTING RISERS TO EACH FLOOR TO REMAIN, AND BE MODIFIED AS NECESSARY TO ALLOW FOR NEW CONSTRUCTION IN EACH AREA. REPORT ANY SIZING DISCREPANCIES TO ARCHITECH AND ENGINEER OF RECORD IMMEDIATELY.
E. EXISTING STORM PIPING TO REMAIN. INSPECT AND REPAIR ANY DEFICIENCIES OR DAMAGE DISCOVERED.
F. CONTACTOR TO REPAIR DAMAGE TO ALL WALL AND FLOOR SURFACES IN PREPARATION FOR NEW WORK WITHIN SPACE.

KEYED NOTES (#)

1. DEMOLISH AND REMOVE EXISTING SINK AND ALL ASSOCIATED APPURTENANCES. CONTRACTOR IS TO DEMOLISH AND REMOVE OBSOLETE UTILITY PIPING BACK TO WALL AND MAKE READ FOR REUSE BY NEW SINK.
2. DEMOLISH AND REMOVE EXISTING MOP SINK AND ALL ASSOCIATED APPURTENANCES. CONTRACTOR IS TO DEMOLISH AND REMOVE ALL EXISTING DOMESTIC HOT AND COLD WATER PIPING BACK TO MAIN. NO DEADLEGS SHALL BE PERMITED. DEMOLISH AND REMOVE SANITARY WASTE PIPING BACK TO RISER, AND PREPARE RISER FOR REUSE BY FUTURE FIXTURE.
3. CONFIRM IF MOP SINK RISER IS LOCATED HERE. IF NOT, REPORT BACK TO ENGINEER OF RECORD.
4. DEMOLISH AND REMOVE EXISTING VENT PIPING BACK TO MAIN. CONTRACTOR TO CAP AT MAIN.
5. DEMOLISH AND REMOVE EXISTING SINK AND ALL ASSOCIATED APPURTENANCES. CONTRACTOR IS TO DEMOLISH AND REMOVE ALL EXISTING DOMESTIC HOT AND COLD WATER PIPING BACK TO MAIN. NO DEADLEGS SHALL BE PERMITED. DEMOLISH AND REMOVE SANITARY WASTE PIPING BACK TO MAIN AND CAP.
6. DEMOLISH AND REMOVE EXISTING DIALYSIS MACHINE AND ALL ASSOCIATED APPURTENANCES. CONTRACTOR IS TO DEMOLISH AND REMOVE ALL EXISTING DOMESTIC COLD WATER PIPING BACK TO MAIN. NO DEADLEGS SHALL BE PERMITED. DEMOLISH AND REMOVE ANY ASSOCIATED INDIRECT WASTE RECEPTORS AND THEIR SANITARY WASTE AND VENT PIPING BACK TO MAIN. CAP AT MAIN.
7. EXISTING 1/2" DIALYSIS WATER DROP IN WALL TO REMAIN. CONTRACTOR TO ENSURE THAT PIPING IS PROPERLY DRAINED BEFORE CAPPING PIPING IN CEILING AND REMOVING EQUIPMENT POINT OF CONNECTION IN PATIENT ROOM.
8. DEMOLISH AND REMOVE EXISTING SINK AND ALL ASSOCIATED APPURTENANCES. CONTRACTOR IS TO DEMOLISH AND REMOVE OBSOLETE UTILITY PIPING SO AS NOT TO INTERFER WITH NEW SINK LOCATION. CONTRACTOR TO PREPARE DOMESTIC HOT AND COLD WATER TO SERVICE NEW SINK AND NEW SHOWER.
9. DEMOLISH AND REMOVE EXISTING SHOWER AND ALL ASSOCIATED APPURTENANCES. DEMOLISH AND REMOVE SANITARY WASTE PIPING BACK TO MAIN AND CAP.
10. DEMOLISH AND REMOVE EXISTING WATER CLOSET AND ALL ASSOCIATED APPURTENANCES. CONTRACTOR IS TO DEMOLISH AND REMOVE OBSOLETE UTILITY PIPING BACK TO WALL AND MAKE READ FOR REUSE BY NEW WATER.
11. DEMOLISH AND REMOVE EXISTING VENT PIPING BACK TO MAIN AND BE PREPARED FOR REUSE BY NEW FIXTURES.
12. CONTRACTOR TO TEMPORARILY REMOVE AND STORE SAFELY WATER CLOSET. FIXTURE TO BE REINSTALLED ONCE RENOVATION WORK IS COMPLETED IN PATIENT ROOM RESTROOM. ANY DAMAGE OR DESTRUCTION SUSTAINED BY WATER CLOSET WILL BE AT THE CONTRACTOR'S EXPENSE AND WILL NEED TO BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

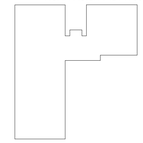
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

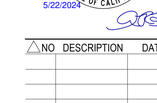
HCAI RECORD NUMBER: S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL



5/22/2024

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

LEVEL 3 - PLUMBING DEMOLITION PLAN

DATE: APRIL, 16, 2024

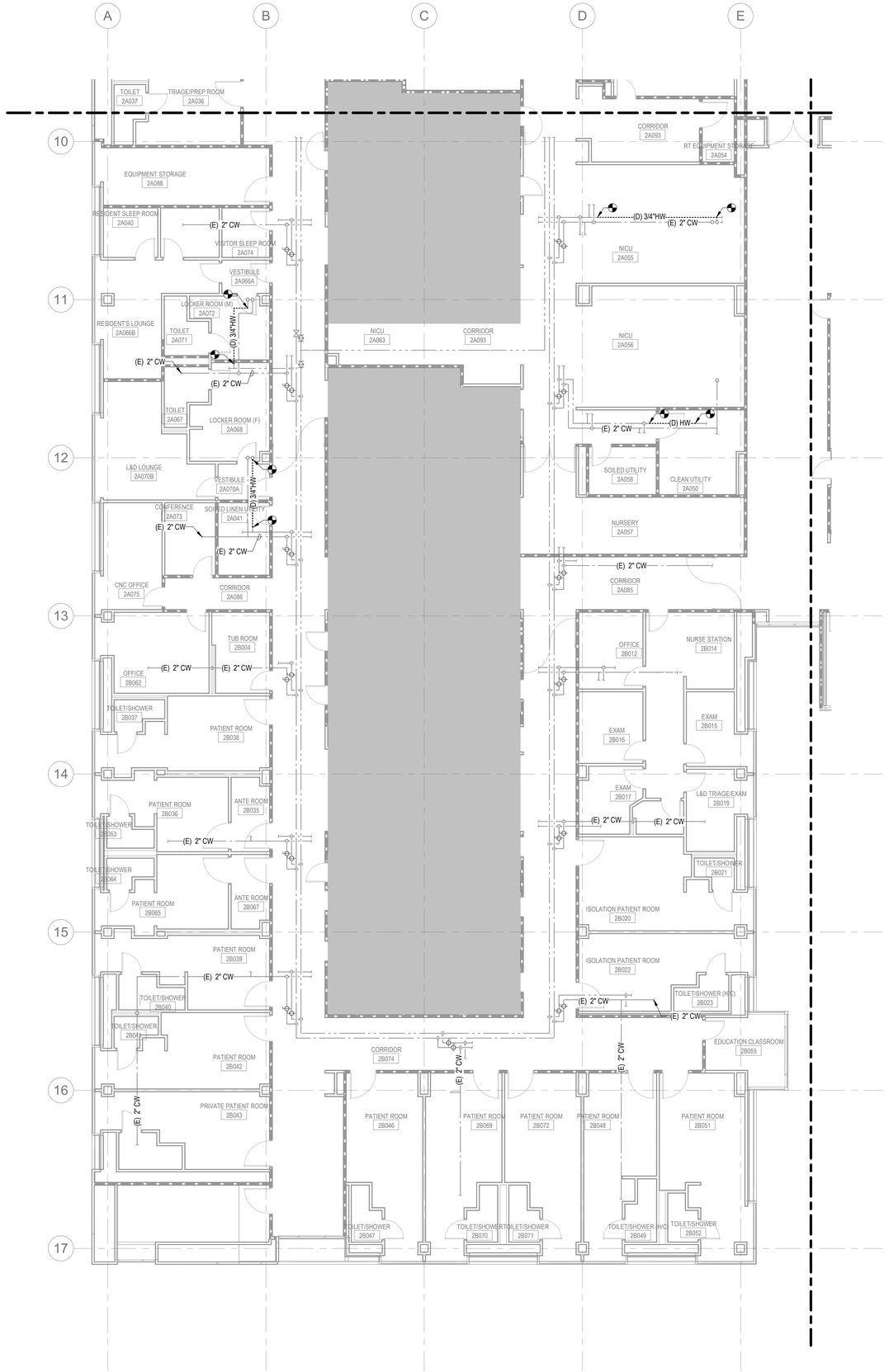
CONSTRUCTION DOCUMENTS

P101

CONSTRUCTION DOCUMENTS

Author 4/17/2024 10:43:54 AM Autodesk Docs://Natividad Med Bldng 3 Unit 3707-016-00NMC Med Surg 3 MEP_V22.rvt

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.



SHEET NOTES

A. EXISTING ROUTING SHOWN IS BASED ON AS-BUILTS PROVIDED DURING DESIGN. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK; THIS INCLUDES VERIFYING THE EXISTING SIZES AND ROUTING OF DOMESTIC WATER AND SANITARY WASTE SYSTEMS. ADDITONAL FITTINGS, OFFSETS, AND MATERIALS MAY BE REQUIRED TO CONNECT TO EXISTING SYSTEMS. NOTIFY ARCHITECT AND ENGINEER IF CONNECTION CANNOT BE ACHIEVED.
B. DURING DEMOLITION, INSPECT EXISTING SYSTEM(S), AND REPORT ANY DEFECTS OR DAMAGE TO THE OWNER.
C. COORDINATE ANY ROOM AND UTILITY SHUTDOWNS WITH OWNER. CONTRUCTION NOT TO INTERRUPT OWNER NORMAL OPERATIONAL HOURS. PROVIDE MINIMUM 48-HOUR NOTICE.
D. EXISTING RISERS TO EACH FLOOR TO REMAIN, AND BE MODIFIED AS NECESSARY TO ALLOW FOR NEW CONSTRUCTION IN EACH AREA. REPORT ANY SIZING DISCREPANCIES TO ARCHITECH AND ENGINEER OF RECORD IMMEDIATELY.
E. EXISTING STORM PIPING TO REMAIN. INSPECT AND REPAIR ANY DEFICIENCIES OR DAMAGE DISCOVERED.
F. CONTACTOR TO REPAIR DAMAGE TO ALL WALL AND FLOOR SURFACES IN PREPARATION FOR NEW WORK WITHIN SPACE.

1 LEVEL 02 - PLUMBING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

0 8' - 0" 16' - 0" 24' - 0" 32' - 0"

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING

EQUIPMENT

INTERIOR ARCHITECT
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

NATIVIDAD MEDICAL CENTER

1441 CONSTITUTION BOULEVARD SALINAS, CA 93906

PROJECT SPECIFIC INFORMATION

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S2405935-27-00
Russell Rocker

Natividad MEDICAL CENTER

AREA A

KEYPLAN

LICENSED PROFESSIONAL ENGINEER CHRISTOPHER LANTZ M 14684 EXP. 08/31/2026 MECHANICAL STATE OF CALIFORNIA

3/21/2025

NO	DESCRIPTION	DATE
BC2	BACKCHECK#2	03/14/2025

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

LEVEL 2 - PLUMBING DEMOLITION PLAN

DATE: APRIL, 16, 2024

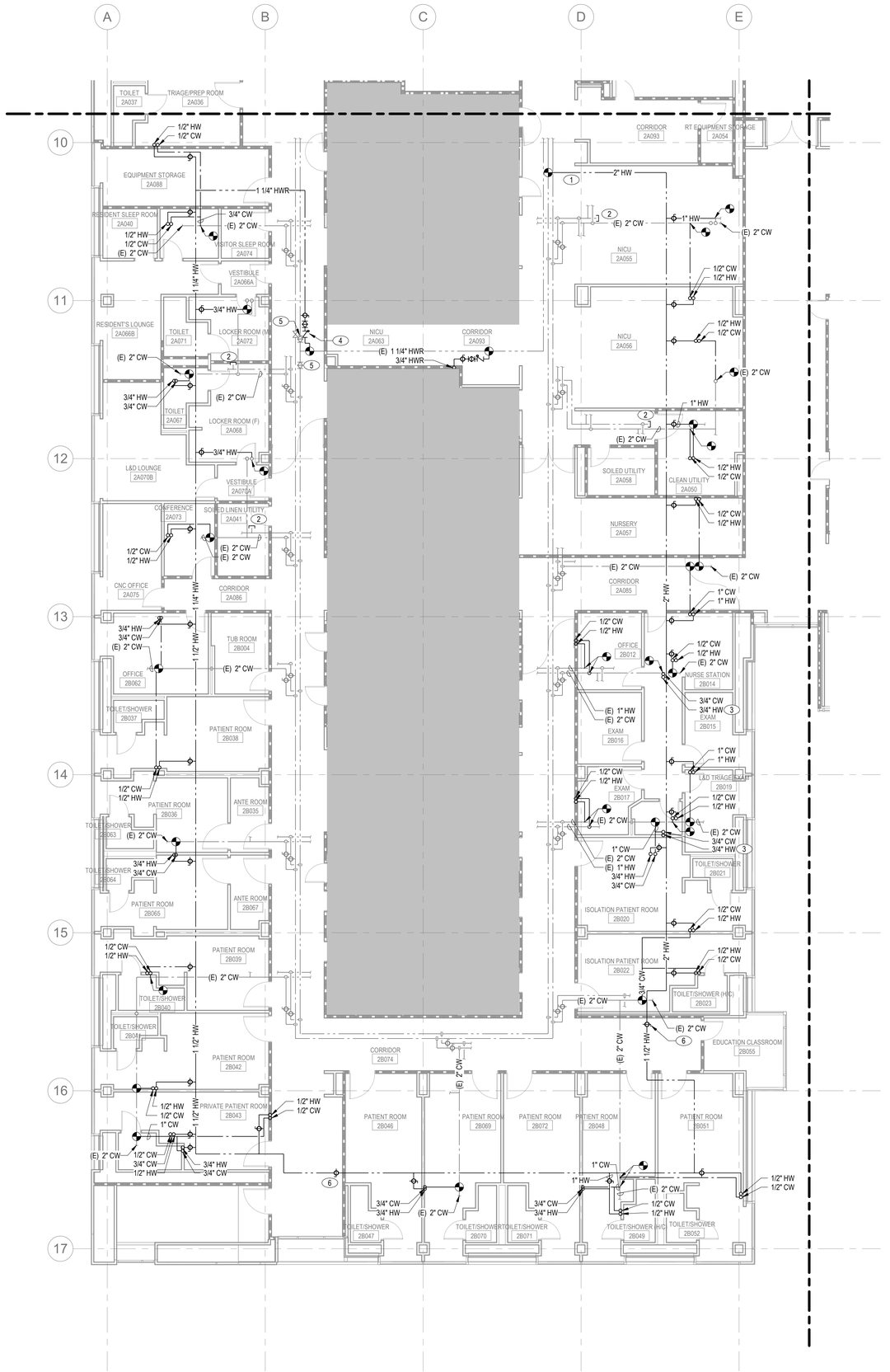
CONSTRUCTION DOCUMENTS

BC2 P100

CONSTRUCTION DOCUMENTS

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 3/20/2025 1:30:08 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-60/NMC Med Surg MEP_V24.rvt



1 LEVEL 02 - FLOOR PLAN - PLUMBING

SCALE: 1/8" = 1'-0"

0 8' - 0" 16' - 0" 24' - 0" 32' - 0"

SHEET NOTES

A. EXISTING ROUTING SHOWN IS BASED ON AS-BUILTS PROVIDED DURING DESIGN. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK; THIS INCLUDES VERIFYING THE EXISTING SIZES AND ROUTING OF DOMESTIC WATER. ADDITONAL FITTINGS, OFFSETS, AND MATERIALS MAY BE REQUIRED TO CONNECT TO EXISTING SYSTEMS. NOTIFY ARCHITECT AND ENGINEER IF CONNECTIONS CANNOT BE ACHIEVED.
B. BASED OFF AS-BUILTS THAT WERE PROVIDED, ALL THIRD FLOOR DOMESTIC WATER IS SUPPLIED FROM THE SECOND FLOOR. COORDINATE AND VERIFY ALL DOMESTIC WATER PIPING CONNECTIONS BEFORE BEGINNING WORK. NOTIFY ARCHITECT AND ENGINEER IF THERE ARE ANY DISCREPANCIES OR CONNECTIONS CANNOT BE ACHIEVED.
C. SEE 600 SERIES SHEETS FOR SANITARY WASTE AND VENT ROUTING IN SECOND FLOOR CEILING.
D. COORDINATE ALL ROOM AND UTILITY SHUT-OFFS. CONTRUCTION NOT TO INTERRUPT OWNER NORMAL OPERATIONAL HOURS. PROVIDE MINIMUM 48-HOUR NOTICE.
E. EXISTING RISERS TO EACH FLOOR TO REMAIN, AND BE MODIFIED AS NECESSARY TO ALLOW FOR NEW CONSTRUCTION IN EACH AREA. REPORT ANY SIZING DISCREPANCIES TO ARCHITECH AND ENGINEER OF RECORD IMMEDIATELY.
F. EXISTING STORM PIPING TO REMAIN.
G. CONTACTOR TO REPAIR DAMAGE TO ALL WALL AND FLOOR SURFACES IN PREPARATION FOR NEW WORK WITHIN SPACE.

KEYED NOTES (#)

1. TIE-IN NEW HOT WATER MAIN. COORDINATE SHUTDOWNS, PRESSURE TEST, AND SANITIZATION AS REQUIRED BY PLUMBING CODE.
2. PROVIDE CAP TO DOMESTIC WATER SUPPLY LINE AT TEE. IF DIRECT CAPPING AT TEE IS NOT POSSIBLE, CAPPED PIPING AT TEE TO BE 6" MAXIMUM. ALL DEAD-LEGS TO BE MINIMIZED.
3. PROVIDE SHUT-OFF VALVE TO ALLOW FOR ISOLATION.
4. NEW HOT WATER RECIRCULATION LINE TO BE INSTALLED IN AREA THAT IS ACCESSIBLE BY OWNER MAINTENANCE TEAM. PROVIDE ACCESS PANEL IF INSTALLED IN HARD-LID CEILING.
5. CONTRACTOR TO REBALANCE CIRCUIT SETTERS (BALANCING VALVES) LOCATED NEAR NEW THERMOSTATIC BALANCING VALVE.
6. PROVIDE ACCESS PANEL IF HARDLID CEILING.

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING

EQUIPMENT

INTERIOR ARCHITECT
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

NATIVIDAD MEDICAL CENTER

1441 CONSTITUTION BOULEVARD SALINAS, CA 93906

PROJECT SPECIFIC INFORMATION

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S2405I93-27-00
Russell Rocker

AREA A	AREA B
AREA C	AREA D

KEYPLAN

LICENSED PROFESSIONAL ENGINEER — CHRISTOPHER M. GLUMAC — No. M 24684 — EXP. 12/31/2026 — MECHANICAL — STATE OF CALIFORNIA

3/21/2025

NO	DESCRIPTION	DATE
BC2	BACKCHECK#2	03/14/2025

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

LEVEL 2 - PLUMBING PLAN

DATE: APRIL, 16, 2024

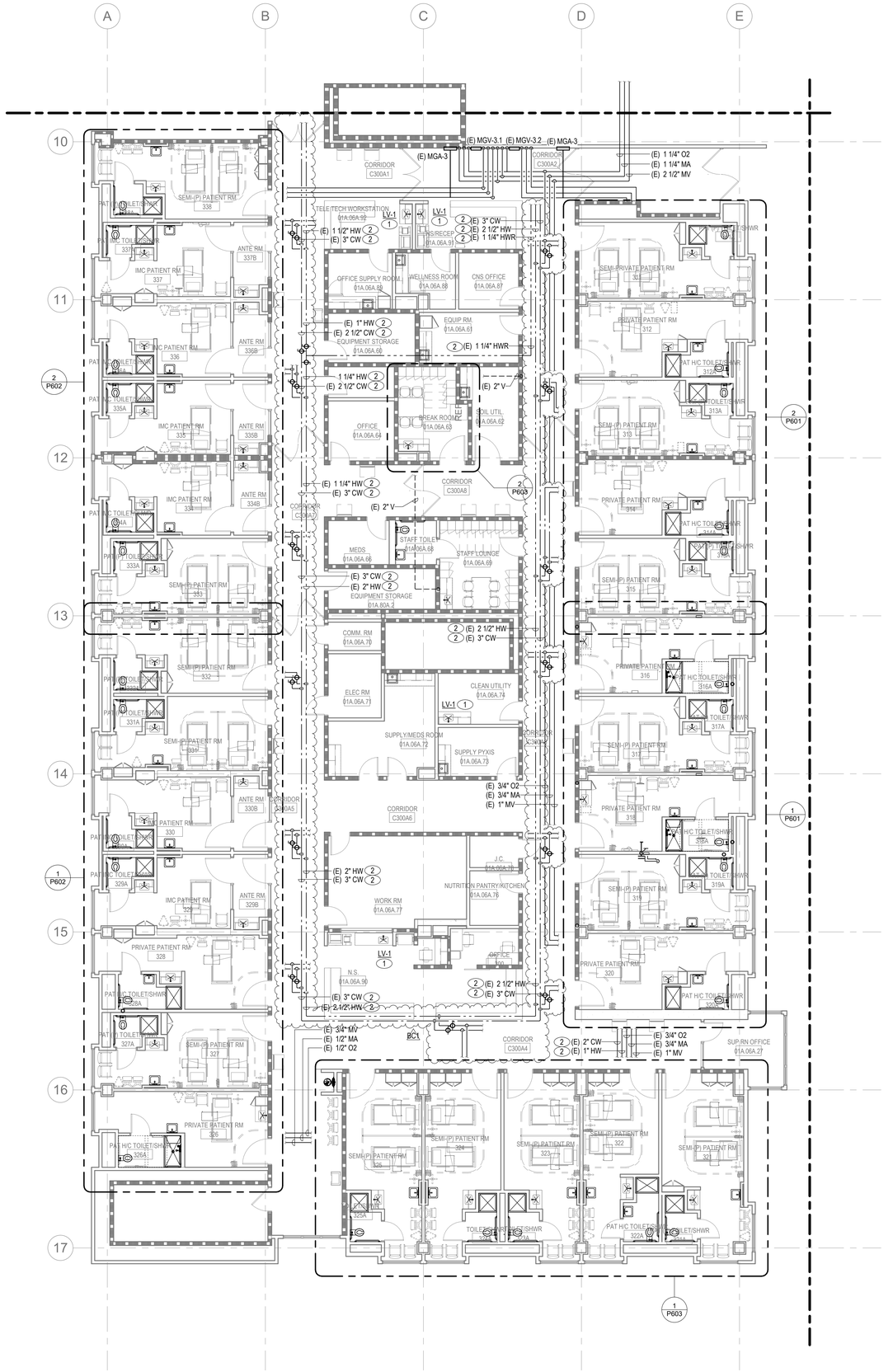
CONSTRUCTION DOCUMENTS

BC2 P200

CONSTRUCTION DOCUMENTS

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 3/20/2025 1:30:11 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/NMC Med Surg MEP - V24.rvt



1 LEVEL 03 - PLUMBING PLAN

SCALE: 1/8" = 1'-0"

0 8' - 0" 16' - 0" 24' - 0" 32' - 0"

SHEET NOTES

A. EXISTING ROUTING SHOWN IS BASED ON AS-BUILTS PROVIDED DURING DESIGN. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK; THIS INCLUDES VERIFYING THE EXISTING SIZES AND ROUTING OF DOMESTIC WATER AND SANITARY WASTE SYSTEMS. ADDITONAL FITTINGS, OFFSETS, AND MATERIALS MAY BE REQUIRED TO CONNECT TO EXISTING SYSTEMS. NOTIFY ARCHITECT AND ENGINEER IF CONNECTION CANNOT BE ACHIEVED.

B. BASED OFF AS-BUILTS THAT WERE PROVIDED, ALL THIRD FLOOR DOMESTIC UTILITY WATER IS SUPPLIED FROM THE SECOND FLOOR. COORDINATE AND VERIFY ALL DOMESTIC WATER PIPING CONNECTIONS BEFORE BEGINNING WORK. NOTIFY ARCHITECT AND ENGINEER IF THERE ARE ANY DISCREPANCIES OR CONNECTION CANNOT BE ACHIEVED.

C. ALL SANITARY WASTE PIPING IS TO BE ROUTED AT 1/4" PER LINEAR FOOT SLOPE, UNLESS OTHERWISE NOTED.

D. COORDINATE ANY ROOM, UTILITY, OR SANITARY SHUTDOWNS WITH OWNER. CONTRUCTION NOT TO INTERRUPT OWNER NORMAL OPERATIONAL HOURS. PROVIDE MINIMUM 48-HOUR NOTICE.

E. EXISTING RISERS TO EACH FLOOR TO REMAIN, AND BE MODIFIED AS NECESSARY TO ALLOW FOR NEW CONSTRUCTION IN EACH AREA. REPORT ANY SIZING DISCREPANCIES TO ARCHITECH AND ENGINEER OF RECORD IMMEDIATELY.

F. EXISTING STORM PIPING TO REMAIN.

G. CONTACTOR TO REPAIR DAMAGE TO ALL WALL AND FLOOR SURFACES IN PREPARATION FOR NEW WORK WITHIN SPACE.

H. MEDICAL GAS SCOPE IS LIMITED CONNECTION OF NEW HEADWALLS TO EXISTING OVERHEAD UTILITIEIS. ALL MEDICAL GAS EQUIPMENT, PIPING MAINS, AND BRANCHES ARE ASSUMED TO SUFFICIENTLY SIZED TO ACCOMMDATE NEW MEDICAL GAS OUTLETS WITHIN THE PATIENT ROOMS.

KEYED NOTES (#)

1. CONNECT NEW FIXTURE AND ALL APPURTENANCES INTO EXISTING UTILITIES. MODIFY AS REQUIRED TO ENSURE FIXTURE IS COMPLETE AND FULLY OPERATIONAL
2. PIPING IN SECOND FLOOR CEILING. BC1

HGA

222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500.
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050.
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353

KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

12/11/2024

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

LEVEL 3 - PLUMBING PLAN

DATE: APRIL, 16, 2024

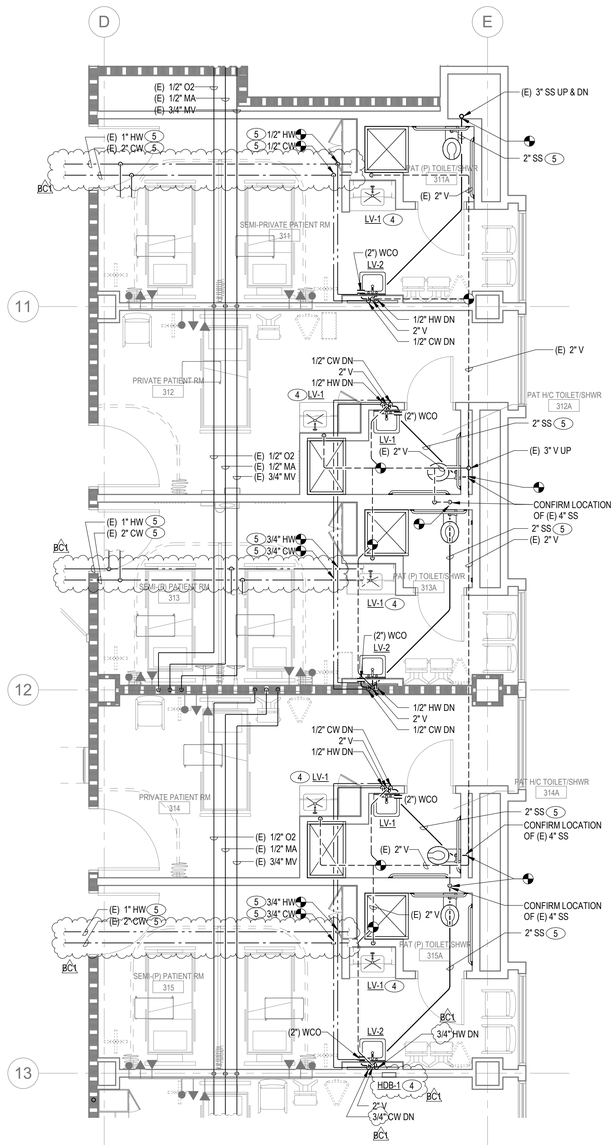
CONSTRUCTION DOCUMENTS

P201

CONSTRUCTION DOCUMENTS

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

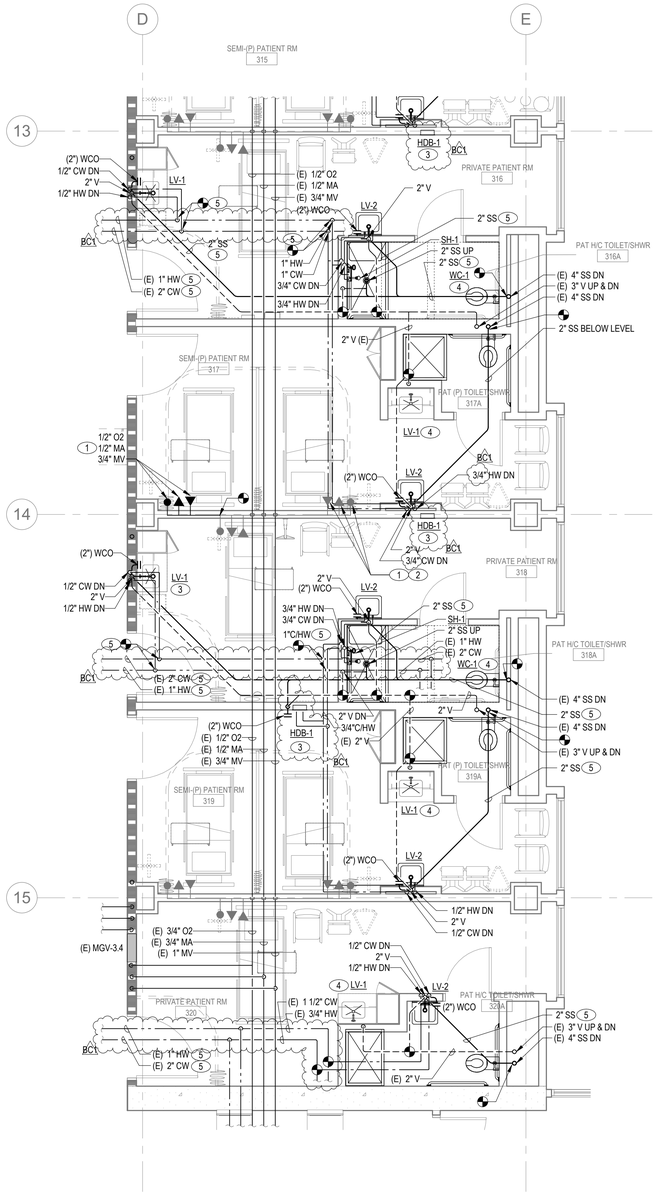
Author 12/11/2024 3:27:51 PM Autodesk Docs://Natividad Med Surg & Unit - 3707-016-00/NMC Med Surg MEP_V25r.rvt



2 LEVEL 03 - PLUMBING ENLARGED PLAN

SCALE: 1/4" = 1'-0"

0 4' - 0" 8' - 0" 12' - 0" 16' - 0"



1 LEVEL 03 - PLUMBING ENLARGED PLAN

SCALE: 1/4" = 1'-0"

0 4' - 0" 8' - 0" 12' - 0" 16' - 0"

SHEET NOTES

A. EXISTING ROUTING SHOWN IS BASED ON AS-BUILTS PROVIDED DURING DESIGN. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK; THIS INCLUDES VERIFYING THE EXISTING SIZES AND ROUTING OF DOMESTIC WATER AND SANITARY WASTE SYSTEMS. ADDITONAL FITTINGS, OFFSETS, AND MATERIALS MAY BE REQUIRED TO CONNECT TO EXISTING SYSTEMS. NOTIFY ARCHITECT AND ENGINEER IF CONNECTION CANNOT BE ACHIEVED.
B. BASED OFF AS-BUILTS THAT WERE PROVIDED, ALL THIRD FLOOR DOMESTIC UTILITY WATER IS SUPPLIED FROM THE SECOND FLOOR. COORDINATE AND VERIFY ALL DOMESTIC WATER PIPING CONNECTIONS BEFORE BEGINNING WORK. NOTIFY ARCHITECT AND ENGINEER IF THERE ARE ANY DISCREPANCIES OR CONNECTION CANNOT BE ACHIEVED.
C. ALL SANITARY WASTE PIPING IS TO BE ROUTED AT 1/4" PER LINEAR FOOT SLOPE, UNLESS OTHERWISE NOTED.
D. COORDINATE ANY ROOM, UTILITY, OR SANITARY SHUTDOWNS WITH OWNER. CONTRUCTION NOT TO INTERRUPT OWNER NORMAL OPERATIONAL HOURS. PROVIDE MINIMUM 48-HOUR NOTICE.
E. EXISTING RISERS TO EACH FLOOR TO REMAIN, AND BE MODIFIED AS NECESSARY TO ALLOW FOR NEW CONSTRUCTION IN EACH AREA. REPORT ANY SIZING DISCREPANCIES TO ARCHITECH AND ENGINEER OF RECORD IMMEDIATELY.
F. EXISTING STORM PIPING TO REMAIN.
G. CONTACTOR TO REPAIR DAMAGE TO ALL WALL AND FLOOR SURFACES IN PREPARATION FOR NEW WORK WITHIN SPACE.
H. MEDICAL GAS SCOPE IS LIMITED TO CONNECTION OF NEW HEADWALLS TO EXISTING OVERHEAD UTILITIEIS. ALL MEDICAL GAS EQUIPMENT, PIPING MAINS, AND BRANCHES ARE ASSUMED TO SUFFICIENTLY SIZED TO ACCOMMDATE NEW MEDICAL GAS OUTLETS WITHIN THE PATIENT ROOMS.
I. DOMESTIC WATER SCOPE IS LIMITED TO CONNECTION OF NEW PLUMBING FIXTURES INTO EXISTING MAINS, OR BRANCHES. ALL DOMESTIC WATER EQUIPMENT, PIPING MAINS, AND BRANCHES ARE ASSUMED TO SUFFICIENTLY SIZED TO ACCOMMDATE NEW PLUMBING FIXTURES WITHIN THE PATIENT ROOMS.
J. CONTRACTOR IS RESPONSIBLE FOR COORDINATING FINAL LOCATION OF HEMO-DIALYSIS (HDB-1) WITH ARCHITECT AND OWNER.

KEYED NOTES (#)

1. EXISTING MED GAS OUT/INLETS TO BE REUSED. MODIFY ROUTING TO ALLOW FOR CONNECTION INTO NEW HEAD WALL.
2. CONNECTION TO HEAD-WALLS BY VENDOR (IN CONTRACT). VENDOR (IN CONTRACT) TO PROVIDE SHOP DRAWINGS FOR REVIEW. OUTLETS IN ETS TO MATCH EXISTING.
3. HEMODIALYSIS UTILITY BOX WITH POINT-OF-CONNECTION. SEE DETAIL 4/P002 FOR FURTHER INFORMATION AND TIE-INS TO HANDWASH SINK.
4. CONNECT NEW FIXTURE AND ALL APPURTENANCES INTO EXISTING UTILITIES. MODIFY AS REQUIRED TO ENSURE FIXTURE IS COMPLETE AND FULLY OPERATIONAL.
5. PIPING IN SECOND FLOOR CEILING.

BC1

HGA

222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500.
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050.
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

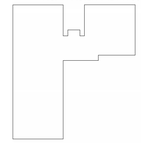
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

12/11/2024

△NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

ENLARGED PLANS

DATE: APRIL, 16, 2024

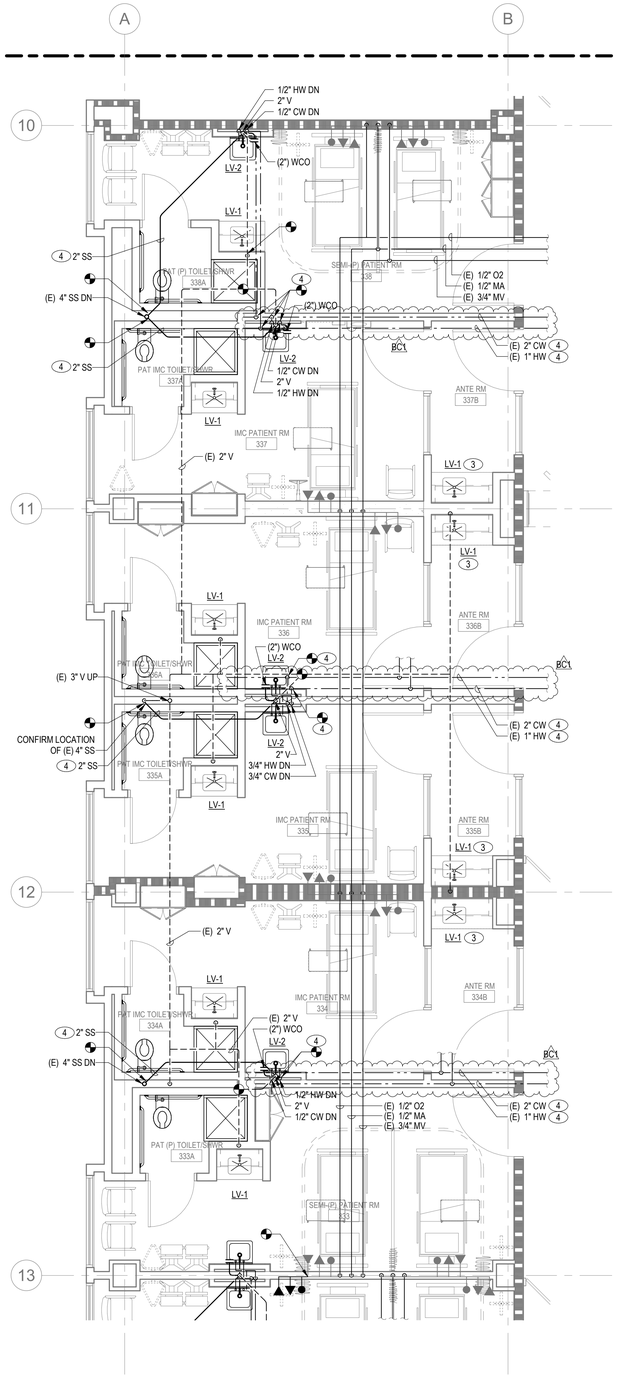
CONSTRUCTION DOCUMENTS

P601

CONSTRUCTION DOCUMENTS

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

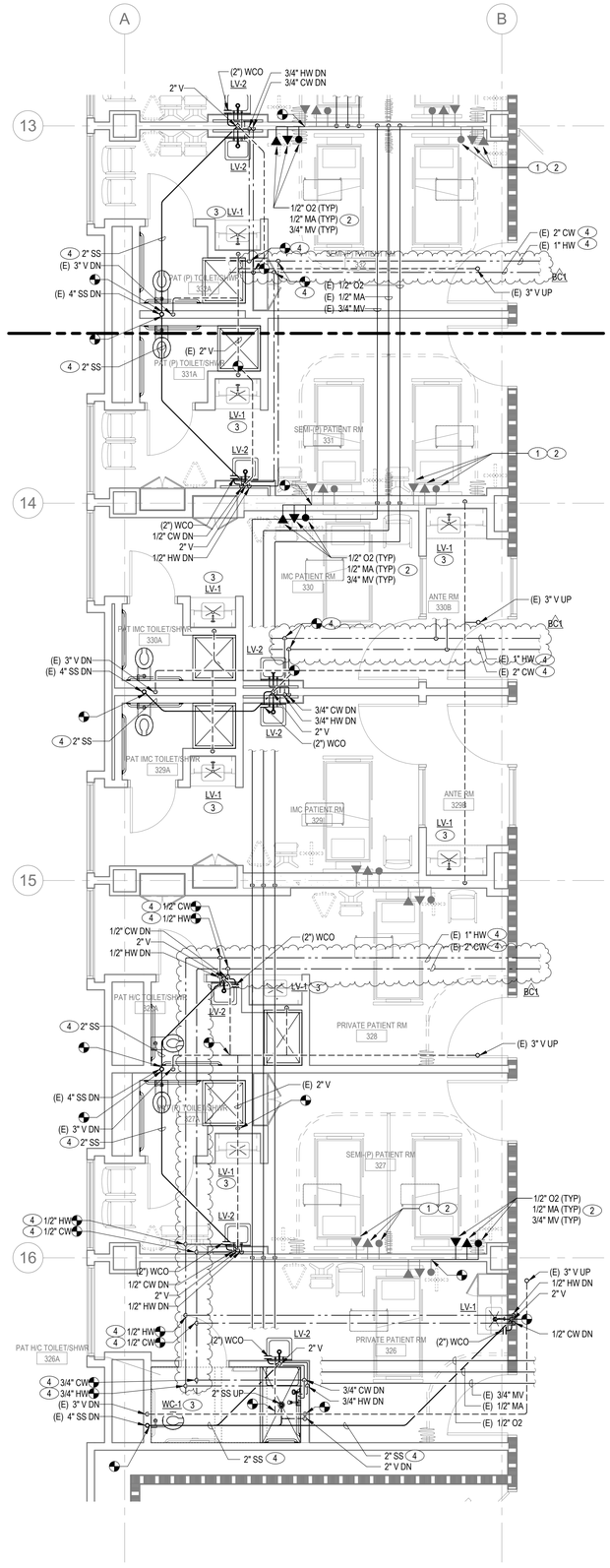
Author 12/11/2024 3:27:53 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/NMC Med Surg MEP - V22.rvt



2 LEVEL 03 - PLUMBING ENLARGED PLAN

SCALE: 1/4" = 1'-0"

0 4' - 0" 8' - 0" 12' - 0" 16' - 0"



1 LEVEL 03 - PLUMBING ENLARGED PLAN

SCALE: 1/4" = 1'-0"

0 4' - 0" 8' - 0" 12' - 0" 16' - 0"

SHEET NOTES

A. EXISTING ROUTING SHOWN IS BASED ON AS-BUILTS PROVIDED DURING DESIGN. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK; THIS INCLUDES VERIFYING THE EXISTING SIZES AND ROUTING OF DOMESTIC WATER AND SANITARY WASTE SYSTEMS. ADDITONAL FITTINGS, OFFSETS, AND MATERIALS MAY BE REQUIRED TO CONNECT TO EXISTING SYSTEMS. NOTIFY ARCHITECT AND ENGINEER IF CONNECTION CANNOT BE ACHIEVED.

B. BASED OFF AS-BUILTS THAT WERE PROVIDED, ALL THIRD FLOOR DOMESTIC UTILITY WATER IS SUPPLIED FROM THE SECOND FLOOR. COORDINATE AND VERIFY ALL DOMESTIC WATER PIPING CONNECTIONS BEFORE BEGINNING WORK. NOTIFY ARCHITECT AND ENGINEER IF THERE ARE ANY DISCREPANCIES OR CONNECTION CANNOT BE ACHIEVED.

C. ALL SANITARY WASTE PIPING IS TO BE ROUTED AT 1/4" PER LINEAR FOOT SLOPE, UNLESS OTHERWISE NOTED.

D. COORDINATE ANY ROOM, UTILITY, OR SANITARY SHUTDOWNS WITH OWNER. CONTRUCTION NOT TO INTERRUPT OWNER NORMAL OPERATIONAL HOURS. PROVIDE MINIMUM 48-HOUR NOTICE.

E. EXISTING RISERS TO EACH FLOOR TO REMAIN, AND BE MODIFIED AS NECESSARY TO ALLOW FOR NEW CONSTRUCTION IN EACH AREA. REPORT ANY SIZING DISCREPANCIES TO ARCHITECH AND ENGINEER OF RECORD IMMEDIATELY.

F. EXISTING STORM PIPING TO REMAIN.

G. CONTACTOR TO REPAIR DAMAGE TO ALL WALL AND FLOOR SURFACES IN PREPARATION FOR NEW WORK WITHIN SPACE.

H. MEDICAL GAS SCOPE IS LIMITED TO CONNECTION OF NEW HEADWALLS TO EXISTING OVERHEAD UTILITEIS. ALL MEDICAL GAS EQUIPMENT, PIPING MAINS, AND BRANCHES ARE ASSUMED TO SUFFICIENTLY SIZED TO ACCOMMDATE NEW MEDICAL GAS OUTLETS WITHIN THE PATIENT ROOMS.

I. DOMESTIC WATER SCOPE IS LIMITED TO CONNECTION OF NEW PLUMBING FIXTURES INTO EXISTING MAINS, OR BRANCHES. ALL DOMESTIC WATER EQUIPMENT, PIPING MAINS, AND BRANCHES ARE ASSUMED TO SUFFICIENTLY SIZED TO ACCOMMDATE NEW PLUMBING FIXTURES WITHIN THE PATIENT ROOMS.

KEYED NOTES (#)

1. EXISTING MED GAS OUT/INLETS TO BE REUSED. MODIFY ROUTING TO ALLOW FOR CONNECTION INTO NEW HEAD WALL.
2. CONNECTION TO HEAD-WALLS BY VENDOR (IN CONTRACT). VENDOR (IN CONTRACT) TO PROVIDE SHOP DRAWINGS FOR REVIEW. OUTLETS/INLETS TO MATCH EXISTING.
3. CONNECT NEW FIXTURE AND ALL APPURTENANCES INTO EXISTING UTILITIES. MODIFY AS REQUIRED TO ENSURE FIXTURE IS COMPLETE AND FULLY OPERATIONAL.
4. PIPING IN SECOND FLOOR CEILING. BC1

HGA

222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500.
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050.
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353

KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED PROFESSIONAL ENGINEER
CHRISTOPHER M. WILSON
M 41685
EXP. 9/30/2025
MECHANICAL
STATE OF CALIFORNIA

12/11/2024

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

ENLARGED PLANS

DATE: APRIL, 16, 2024

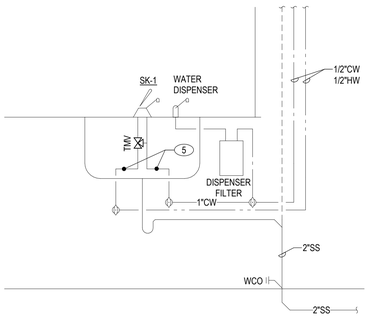
CONSTRUCTION DOCUMENTS

P602

CONSTRUCTION DOCUMENTS

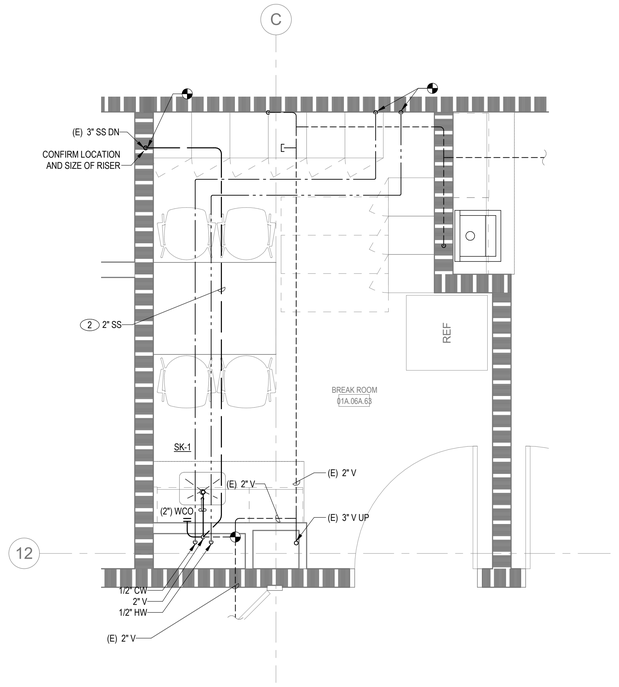
© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 12/11/2024 3:27:56 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/MKA Med Surg MEP_V22.rvt



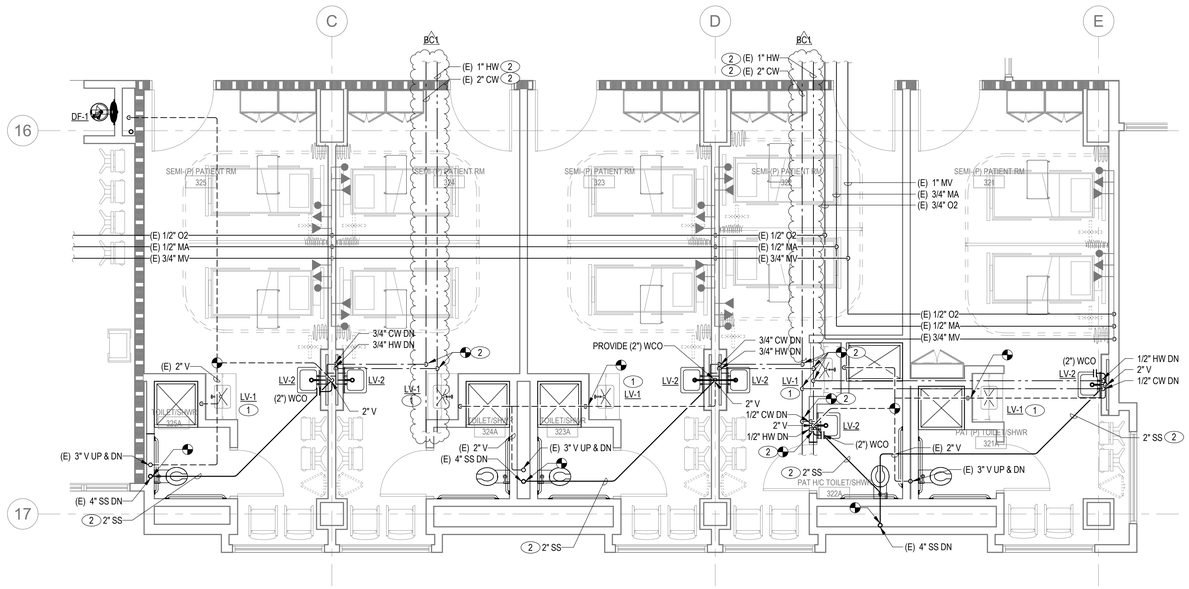
NOTES:
1. DETAIL IS DIAGARMATIC. CONTRACTOR TO COORDINATE FINAL EQUIPMENT LOCATION BASED OFF ARCHITECTURAL FLOOR PLANS. EQUIPMENT TO BE PROVIDED BY CONTRACTOR.
2. CONNECTION TO FIXTURE TO BE COPPER TUBING OR STAINLESS STEEL FLEX HOSE. PLASTIC TUBING NOT ALLOWED.

3 BREAKROOM DETAIL
SCALE: NONE



2 LEVEL 03 - PLUMBING ENLARGED PLAN
SCALE: 1/2" = 1'-0"

0 2' - 0" 4' - 0" 6' - 0" 8' - 0"



1 LEVEL 03 - PLUMBING ENLARGED PLAN
SCALE: 1/4" = 1'-0"

0 4' - 0" 8' - 0" 12' - 0" 16' - 0"

SHEET NOTES
A. EXISTING ROUTING SHOWN IS BASED ON AS-BUILTS PROVIDED DURING DESIGN. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK; THIS INCLUDES VERIFYING THE EXISTING SIZES AND ROUTING OF DOMESTIC WATER AND SANITARY WASTE SYSTEMS. ADDITONAL FITTINGS, OFFSETS, AND MATERIALS MAY BE REQUIRED TO CONNECT TO EXISTING SYSTEMS. NOTIFY ARCHITECT AND ENGINEER IF CONNECTION CANNOT BE ACHIEVED.
B. BASED OFF AS-BUILTS THAT WERE PROVIDED, ALL THIRD FLOOR DOMESTIC UTILITY WATER IS SUPPLIED FROM THE SECOND FLOOR. COORDINATE AND VERIFY ALL DOMESTIC WATER PIPING CONNECTIONS BEFORE BEGINNING WORK. NOTIFY ARCHITECT AND ENGINEER IF THERE ARE ANY DISCREPANCIES OR CONNECTION CANNOT BE ACHIEVED.
C. ALL SANITARY WASTE PIPING IS TO BE ROUTED AT 1/4" PER LINEAR FOOT SLOPE, UNLESS OTHERWISE NOTED.
D. COORDINATE ANY ROOM, UTILITY, OR SANITARY SHUTDOWNS WITH OWNER. CONTRUCTION NOT TO INTERRUPT OWNER NORMAL OPERATIONAL HOURS. PROVIDE MINIMUM 48-HOUR NOTICE.
E. EXISTING RISERS TO EACH FLOOR TO REMAIN, AND BE MODIFIED AS NECESSARY TO ALLOW FOR NEW CONSTRUCTION IN EACH AREA. REPORT ANY SIZING DISCREPANCIES TO ARCHITECH AND ENGINEER OF RECORD IMMEDIATELY.
F. EXISTING STORM PIPING TO REMAIN.
G. CONTACTOR TO REPAIR DAMAGE TO ALL WALL AND FLOOR SURFACES IN PREPARATION FOR NEW WORK WITHIN SPACE.
H. MEDICAL GAS SCOPE IS LIMITED TO CONNECTION OF NEW HEADWALLS TO EXISTING OVERHEAD UTILITEIS. ALL MEDICAL GAS EQUIPMENT, PIPING MAINS, AND BRANCHES ARE ASSUMED TO SUFFICIENTLY SIZED TO ACCOMMDATE NEW MEDICAL GAS OUTLETS WITHIN THE PATIENT ROOMS.
I. DOMESTIC WATER SCOPE IS LIMITED TO CONNECTION OF NEW PLUMBING FIXTURES INTO EXISTING MAINS, OR BRANCHES. ALL DOMESTIC WATER EQUIPMENT, PIPING MAINS, AND BRANCHES ARE ASSUMED TO SUFFICIENTLY SIZED TO ACCOMMDATE NEW PLUMBING FIXTURES WITHIN THE PATIENT ROOMS.

KEYED NOTES (#)
1. CONNECT NEW FIXTURE AND ALL APPURTENANCES INTO EXISTING UTILITIES. MODIFY AS REQUIRED TO ENSURE FIXTURE IS COMPLETE AND FULLY OPERATIONAL.
2. PIPING IN SECOND FLOOR CEILING.

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

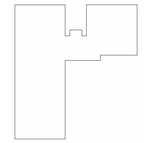
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

12/11/2024

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

ENLARGED PLANS

DATE: APRIL, 16, 2024

CONSTRUCTION DOCUMENTS

P603

CONSTRUCTION DOCUMENTS

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author 12/11/2024 3:27:58 PM Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/NMC Med Surg MEP - V22.rvt

SYMBOLS AND ABBREVIATIONS

SYMBOLS AND ABBREVIATIONS LISTED FOR GENERAL USE.
DISREGARD SYMBOLS THAT DO NOT APPEAR ON THE DRAWINGS.

LIGHT FIXTURES:

NUMERALS ADJACENT TO SYMBOL INDICATES CIRCUIT.
LOWER CASE LETTERS ADJACENT TO SYMBOL INDICATES CONTROL FROM CORRESPONDING SWITCH.

- CEILING SURFACE OR PENDANT LIGHT FIXTURE AND OUTLET BOX.
- WALL MOUNT LIGHT FIXTURE AND OUTLET BOX.
- CEILING RECESSED MOUNT LIGHT FIXTURE AND OUTLET BOX.
- LIGHT FIXTURE AND OUTLET BOX.
- LIGHT FIXTURE WIRED THROUGH FROM ADJACENT FIXTURE OR FLEX CONNECTION.
- SHADING INDICATES FIXTURE CONNECTED TO EMERGENCY POWER.
- EXIT FIXTURE. CEILING OR WALL MOUNTED. PROVIDE DIRECTIONAL ARROWS AS INDICATED.
- SAME AS ABOVE AND CONNECTED TO EMERGENCY POWER SOURCE.

RECEPTACLES AND OUTLETS:

⚠ ALL ALTERED OR NEWLY INSTALLED ELECTRICAL OUTLETS SHALL BE ACCESSIBLE.

SHALL BE NO MORE THAN 48 INCHES A.F.F. TO THE TOP OF DEVICE PLATE, AND NO LESS THAN 15 INCHES A.F.F. TO THE BOTTOM OF THE DEVICE PLATE.

WALL MOUNT AT +18" A.F.F. U.O.N.
NUMERALS ADJACENT TO SYMBOL INDICATES CIRCUIT.

- 20 AMP, 125 VAC HOSPITAL GRADE RECEPTACLE; ARROW-HART #AH8300 (COLOR TO BE SELECTED), HUBBELL OR APPROVED EQUAL. COLOR OF DEVICE AND DEVICE PLATE SHALL MATCH THE EXISTING IN THE FACILITY.
- 20 AMP, 125 VAC FOURPLEX HOSPITAL GRADE RECEPTACLE; (2) ARROW-HART #AH8300 (COLOR TO BE SELECTED) IN COMMON BOX, HUBBELL OR APPROVED EQUAL. COLOR OF DEVICE AND DEVICE PLATE SHALL MATCH THE EXISTING IN THE FACILITY.
- GF 20 AMP, 125 VAC HOSPITAL GRADE DUPLEX RECEPTACLE AND GROUND FAULT INTERRUPTER. ARROW-HART #VGFH20, HUBBELL OR APPROVED EQUAL. COLOR OF DEVICE AND DEVICE PLATE SHALL MATCH THE EXISTING IN THE FACILITY.
- GF SAME AS ABOVE, EXCEPT MOUNT HORIZONTALLY ABOVE COUNTER BACKSPLASH.
- 20 AMP, 125 VAC FLOOR MOUNTED DUPLEX RECEPTACLE AS DESCRIBED ON THE DRAWINGS.
- SPECIAL POWER RECEPTACLE AS DESCRIBED ON THE PLANS.
- ESSENTIAL SYSTEM 20 AMP, 125 VAC DUPLEX HOSPITAL GRADE RECEPTACLE; ARROW-HART #AH8300 (COLOR TO BE SELECTED), HUBBELL OR APPROVED EQUAL. COLOR OF DEVICE AND DEVICE PLATE SHALL MATCH THE EXISTING IN THE FACILITY. ENGRAVE THE DEVICE PLATE TO READ "EMERGENCY" AND FILL WITH RED PAINT.
- ESSENTIAL SYSTEM 20 AMP, 125 VAC FOURPLEX HOSPITAL GRADE RECEPTACLE; (2) ARROW-HART #AH8300 (COLOR TO BE SELECTED) IN COMMON BOX, HUBBELL OR APPROVED EQUAL. COLOR OF DEVICE AND DEVICE PLATE SHALL MATCH THE EXISTING IN THE FACILITY. ENGRAVE THE DEVICE PLATE TO READ "EMERGENCY" AND FILL WITH RED PAINT.
- GF ESSENTIAL SYSTEM 20 AMP, 125 VAC COMBINATION DUPLEX RECEPTACLE AND GROUND FAULT INTERRUPTER. ARROW-HART #VGFH20, HUBBELL OR APPROVED EQUAL. COLOR OF DEVICE AND DEVICE PLATE SHALL MATCH THE EXISTING IN THE FACILITY. ENGRAVE THE DEVICE PLATE TO READ "EMERGENCY" AND FILL WITH RED PAINT.
- WALL TELEPHONE OUTLET, 4" X 4" X 1-1/2" DEEP BOX WITH SINGLE GANG RING AND COVER PLATE.
- FLOOR TELEPHONE OUTLET AS DESCRIBED ON THE DRAWINGS.
- TELEPHONE OUTLET AS HEREINBEFORE DESCRIBED, WITH 3/4" C.O., CONCEALED UP IN WALL AND STUBBED ABOVE ACCESSIBLE CEILING.

MISCELLANEOUS:

- NUMBER IN TOP HEMISPHERE IDENTIFIES DETAIL / DIAGRAM NUMBER. REFER TO DETAIL / DIAGRAM NUMBER SHOWN ON THE SHEET REFERENCED IN THE BOTTOM HEMISPHERE FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- NUMBER IN BOTTOM HEMISPHERE IDENTIFIES DRAWING SHEET WHERE THE DETAIL DIAGRAM, ETC. IS SHOWN. REFER TO DETAIL / DIAGRAM NUMBER SHOWN ON THE SHEET REFERENCED IN THE BOTTOM HEMISPHERE FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- LIGHT FIXTURE IDENTIFICATION TAG, SEE "LIGHT FIXTURE SCHEDULE".
- SHEET NOTE IDENTIFICATION TAG, SEE "SHEET NOTES" ON THE RESPECTIVE DRAWINGS WHERE THE SYMBOL OCCURS, U.O.N.
- POWER EQUIPMENT IDENTIFICATION TAG, SEE "EQUIPMENT SCHEDULE".
- JUNCTION BOX (NOT ALL SHOWN), SIZE AS REQUIRED BY CODE, WITH B.M.C.; BLANK STAINLESS STEEL COVER WHERE FLUSH IN FINISHED AREAS.
- SAME AS ABOVE. INTENDED FOR CONNECTION OF INDIVIDUAL PATIENT ROOM BRANCH CIRCUITS IN HALLWAY ACCESSIBLE CEILING.
- DATA OUTLET; 4" X 4" X 1-1/2" DEEP BOX WITH SINGLE GANG RING AND COVER PLATE WITH 3/4" C.O. UP IN WALL.
- CIRCUIT BREAKER IDENTIFICATION TAG. INDENTIFIES OVERCURRENT PROTECTIVE. DEVICE INVOLVED IN SELECTIVE COORDINATION. REFER TO THE SINGLE LINE DIAGRAM AND THE SELECTIVE COORDINATION INFORMATION ON THESE DRAWINGS.

SWITCHES;

- SHALL BE 20 AMP, 120/277 VOLT, MOUNTED AT +48" A.F.F., U.O.N.
- LOWER CASE LETTERS INDICATE CONTROL CORRESPONDING WITH LETTERS AT LIGHT FIXTURES.
- "DECORATOR" STYLE, U.O.N.
- DEVICE & PLATE COLOR AS SELECTED BY THE ARCHITECT OR OWNER.

- S_a S.P.S.T.; ARROW-HART #AH1221, HUBBELL OR APPROVED EQUAL.
- S_2 S.P.S.T.; ARROW-HART #AH1222, HUBBELL OR APPROVED EQUAL.
- S_3 3-WAY; ARROW-HART #AH1223, HUBBELL OR APPROVED EQUAL.
- S_4 4-WAY; ARROW-HART #AH1224, HUBBELL OR APPROVED EQUAL.
- S_K AS INDICATED ABOVE, KEY OPERATED; ARROW-HART #2000 KEY, HUBBELL OR SLATER APPROVED EQUAL.
- S_P AS INDICATED ABOVE, WITH "PILOT" LIGHTED RED HANDLE; ARROW-HART #PL SERIES, HUBBELL OR APPROVED EQUAL.
- S_T MANUAL MOTOR STARTER, ENCLOSURE AND RATING TO SUIT LOCATION. MOUNT AT MAXIMUM 6'-6". IN FINISHED AREAS, SHALL BE FLUSH MOUNTED.
- S_P^T SAME AS ABOVE AND WITH PILOT LIGHT.
- D DIMMER SWITCH. RATINGS AS NOTES ON THE DRAWING.

DEVICES AND EQUIPMENT:

- M MOTOR CONNECTION.
- H HEATER CONNECTION.
- HEAVY DUTY FUSED SAFETY DISCONNECT SWITCH; ENCLOSURE, RATING TO SUIT LOCATION. FUSES TO SUIT EQUIPMENT NAMEPLATE DATA. "N.F." (WHEN SHOWN) DENOTES "NON-FUSED".
- CIRCUIT BREAKER IN SEPARATE ENCLOSURE TO SUIT LOCATION. RATING AS INDICATED ON THE DRAWINGS.
- MAGNETIC MOTOR STARTER PER SPECIFICATIONS OR AS NOTED ON THE PLANS.
- COMBINATION MAGNETIC MOTOR STARTER AND CIRCUIT BREAKER PER SPECIFICATIONS OR AS NOTED ON THE PLANS.
- COMBINATION MAGNETIC MOTOR STARTER AND FUSED DISCONNECT SWITCH PER SPECIFICATIONS OR AS NOTED ON THE PLANS.
- "PACKAGED" MECHANICAL EQUIPMENT WITH INTEGRAL STARTER(S) AND CONTROL PANEL.
- BRANCH CIRCUIT PANELBOARD, FLUSH OR SURFACE MOUNT. SEE "PANEL SCHEDULES" FOR ADDITIONAL INFORMATION. COPPER BUSS AND "BOLT-ON" CIRCUIT BREAKERS, U.O.N.
- TERMINAL CABINET, FLUSH OR SURFACE MOUNT.
- MAIN SWITCHBOARD, MOTOR CONTROL CENTER, DISTRIBUTION PANEL OR OTHER MAJOR ITEM OF ELECTRICAL EQUIPMENT. COPPER BUSSES U.O.N.
- T VENTILATED DRY TYPE TRANSFORMER. COPPER WINDINGS AND AS OTHERWISE SPECIFIED.
- PUSHBUTTON STATION AS DESCRIBED ON THE DRAWINGS.

CONDUIT AND WIRING:

CROSSLINES INDICATES QUANTITY OF CONDUCTORS WHEN MORE THAN 2.
NO CROSSLINES INDICATES 2 #12 CONDUCTORS, OTHER SIZES OF CONDUCTORS INDICATED BY NOTATION. UNLESS OTHERWISE SPECIFIED, ALL CONDUITS SHALL BE GRS AND ALL CONDUCTORS SHALL BE 90 DEGREE C THHN / THWN COPPER, U.O.N. MINIMUM 0.75" CONDUIT.

- #10 CONCEALED IN WALLS AND/OR CEILING.
- CONCEALED IN OR BELOW FLOORS AND IN WALLS.
- EXPOSED WHERE ALLOWED. IN FINISHED AREAS, PAINT TO MATCH ADJACENT SURFACES.
- HOMERUN TO PANEL OR EQUIPMENT AS NOTED.
- <E> EXISTING.
- STUB AND CAP.
- TURNING UP OR DOWN (BETWEEN FLOORS).
- X CONDUIT (WITH OR WITHOUT CONDUCTORS) – REMOVE.

ABBREVIATIONS:

A.F.F.	ABOVE FINISHED FLOOR	G, GND	GROUND
B.C.	BARE COPPER	GRS	GALVANIZED RIGID STEEL
B.M.C.	BLANK METAL COVER	M.S.	MECHANICAL SECTION
CKT.	CIRCUIT	<N>	NEW
C	CONDUIT	N.I.C.	NOT IN CONTRACT
C.O.	"CONDUIT ONLY", WITH 3/16" DIAMETER NYLON PULL LINE.	N.T.S.	NOT TO SCALE
		P	POLE
<E>	EXISTING	<R>	REMOVE
EM	EMERGENCY	W.P.	WEATHERPROOF
F.A.	FIRE ALARM	U.L.	UNDERWRITERS LABORATORY
C.W.	COLD WATER	U.O.N.	UNLESS OTHERWISE NOTED
C.T.	CURRENT TRANSFORMER	D.CKT.	"DEDICATED CIRCUIT" ONLY THE DEVICE WITH THIS TAG SHALL BE ON A CIRCUIT BY ITSELF.
CONC.	CONCRETE		
GF	GROUND FAULT		

⚠ HCAI ALERT "TAG". INTENDED TO ASSIST HCAI (AND THE CONTRACTOR) IN LOCATING CERTAIN SPECIFIC INFORMATION ON THE DRAWINGS.

NOTE:
GENERALLY, SYMBOLS SHOWN DASHED ON DRAWINGS INDICATES THE SYMBOL (DEVICE, OUTLET, ETC.) TO BE REMOVED AS PART OF THE PROJECT SCOPE.

GENERAL NOTES

GENERAL;

THESE GENERAL NOTES ARE NOT INTENDED TO REPLACE THE TYPED ELECTRICAL SPECIFICATIONS AND ARE COMPLIMENTARY. THE TYPED SPECIFICATIONS ARE SPECIFICALLY AN INTEGRAL PART OF THESE PROJECT REQUIREMENTS AND SHALL BE STRICTLY ADHERED TO.

THE WORK, INFORMATION, DESIGNS, CONCEPTS AND IDEAS SHOWN ON THESE DRAWINGS IS SITE AND PROJECT SPECIFIC, AND IS INTENDED TO BE USED FOR THIS ONE PROJECT ONLY. NO WARRANTY IS EXPRESSED OR IMPLIED FOR ANY USE OR PURPOSE BEYOND THAT FOR WHICH THESE DRAWINGS WERE CREATED AND INTENDED.

READ THE SPECIFICATIONS AND COMPLY WITH ALL REQUIREMENTS CONTAINED THEREIN. CONSULT WITH THE GENERAL CONTRACTOR AND ALL OTHER CONTRACTORS ON THE PROJECT TO OBTAIN INFORMATION PERTINENT TO THE ELECTRICAL SYSTEM AND ALL EQUIPMENT WHICH REQUIRES ELECTRICAL POWER TO OPERATE. PROVIDE IN BID ALL MATERIALS AND WORKMANSHIP REQUIRED TO MAKE A COMPLETE AND OPERATIONAL FACILITY.

REVIEW ALL OTHER DRAWINGS AND SPECIFICATIONS. INCLUDE ALL MATERIALS AND WORKMANSHIP FOR ALL EQUIPMENT REQUIRING ELECTRICAL POWER.

THESE ELECTRICAL DRAWINGS, ALTHOUGH VARIOUS "SCALES" MAY BE LISTED, ARE NOT INTENDED TO BE, NOR ARE THEY "TO SCALE", AND THESE DRAWINGS SHALL NOT BE SCALED. "SCALES" SHOWN ARE APPROXIMATE ONLY. OBTAIN ALL DISTANCES FROM ACTUAL FIELD MEASUREMENTS AND FROM ARCHITECTURAL, CIVIL, STRUCTURAL AND SIMILAR DRAWINGS THAT ARE DIMENSIONED AND ARE INTENDED TO BE SCALED.

PERMITS AND CHARGES;

OBTAIN AND PAY FOR ALL NECESSARY CONSTRUCTION PERMITS, INSPECTION FEES, AND OTHER CHARGES BY AGENCIES HAVING JURISDICTION.

REGULATIONS AND CODES;

PROVIDE AND INSTALL ALL MATERIALS IN CONFORMANCE WITH THE CALIFORNIA ELECTRICAL CODE, AND ALL OTHER CODES AND REGULATIONS HAVING JURISDICTION. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY AND THE MANUFACTURERS RECOMMENDATIONS.

VERIFYING EXISTING CONDITIONS;

BEFORE SUBMITTING BID, BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AT THE PROJECT SITE. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER. BY THE ACT OF SUBMITTING A BID PROPOSAL FOR THE WORK, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH STUDY AND EXAMINATION AND TO ACCEPT ALL CONDITIONS PRESENT AT THE SITE. NO REQUEST FOR ADDITIONAL PAYMENT WILL BE CONSIDERED AS VALID, DUE TO FAILURE TO ALLOW FOR CONDITIONS WHICH MAY EXIST.

COORDINATION;

COORDINATE ALL WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.

ELECTRICAL EQUIPMENT LOCATIONS ARE SHOWN IN A DIAGRAMMATIC MANNER, EXACT LOCATION SHALL BE VERIFIED.

AS BUILT DRAWINGS;

PROVIDE REPRODUCIBLE RECORD DRAWINGS TO THE OWNER WITH ALL CHANGES NOTED THEREON AT THE COMPLETION OF THE PROJECT. THE PROJECT ACAD FILES SHALL ALSO BE UPDATED BY THE CONTRACTOR TO REFLECT "AS-BUILT" CONDITIONS. RECORD DRAWINGS AND AS-BUILTS ACAD FILES SHALL BE SIGNED AND DATED BY CONTRACTOR AND FURNISHED TO THE OWNER PRIOR TO RELEASE OF FINAL RETENTION OF ALL MONEYS.

GUARANTEE;

CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL LABOR AND MATERIALS ON ALL WORK AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR.

SHOP DRAWINGS;

SUBMIT SHOP DRAWINGS AND MATERIAL LIST FOR REVIEW PRIOR TO COMMENCING ANY WORK. SHOP DRAWINGS MUST BE STAMPED BY THE CONTRACTOR CERTIFYING COMPLETE CONFORMANCE WITH ALL PROJECT REQUIREMENTS PRIOR TO SUBMITTAL.

U.L. LISTING;

ALL EQUIPMENT TO BEAR U.L. LABEL OR THAT OF ANOTHER ACCEPTABLE TESTING LABORATORY.

CONTRACTOR'S BID;

CONTRACTOR'S BID SHALL BE BASED ON ALL WORK SHOWN ON THE PLANS AND AS SPECIFIED. IF CONTRACTOR PROPOSES TO SUBSTITUE FOR EQUIPMENT SPECIFIED, HE SHALL SUBMIT HIS REQUEST IN WRITING FOR CONSIDERATION OF THE OWNER AND ENGINEER PRIOR TO BIDDING. SUBSTITUTIONS MUST BE REVIEWED BY THE ENGINEER.

MATERIAL AND INSTALLATION;

ALL WORK AND MATERIAL SHALL CONFORM TO THE LATEST RULES OF THE GOVERNING ELECTRICAL CODE AND INSTALLATION SHALL BE OF THE LATEST INDUSTRY STANDARDS OF WORKMANSHIP.

ALL MATERIALS SHALL BE NEW AND LISTED BY UNDERWRITERS LABORATORY (U.L.).

ALL ELECTRICAL EQUIPMENT OVER 48 VOLTS SHALL BE LABELED AND INSTALLED PER THE LISTING.

TELEPHONE / DATA / SIGNAL SYSTEMS;

PROVIDE OUTLET BOXES, RACEWAYS, AND ALL MATERIAL INCLUDING PULL LINE IN EACH RACEWAY.

POWER;

MC, BX OR AC90 SHALL NOT BE PERMITTED.

ALL EXPOSED BOXES, CONDUITS, FITTINGS, BOXES, HARDWARE, ETC. SHALL BE PAINTED OR OTHERWISE FINISHED AS DIRECTED BY THE ARCHITECT.

DEDICATED ELECTRICAL SPACE; ⚠

THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE EQUIPMENT AND EXTENDING FROM THE FLOOR TO A HEIGHT OF 1.8 M (6 FT) ABOVE THE EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER IS LOWER, SHALL BE DEDICATED TO THE ELECTRICAL INSTALLATION. NO PIPING, DUCTS, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE LOCATED IN THIS ZONE.

METHOD OF PROCEDURE (AKA "M.O.P.");

THE CONTRACTOR SHALL DEVELOP AND SUBMIT TO THE OWNER FOR APPROVAL, A DETAILED METHOD OF PROCEDURE (AKA M.O.P.) WORKSHEET LISTING EACH STEP INVOLVED WITH EACH AND EVERY POWER OUTAGE / SHUT-DOWN.

THE M.O.P. SHALL LIST AND DESCRIBE EACH CIRCUIT AND PANEL INVOLVED TO BE SHUT-DOWN.

THE M.O.P. SHALL LIST START AND END TIME FOR EACH STEP AND THE PARTY RESPONSIBLE FOR EACH STEP. THE VARIOUS RESPONSIBLE PARTIES SHALL BE THE OWNER'S FACILITY ELECTRICIANS, THE I.O.R., THE ELECTRICAL CONTRACTOR AND THE INDIVIDUALS THAT MAY BE INVOLVED.

THE M.O.P. SHALL BE SUBMITTED AT LEAST THREE (3) WEEKS PRIOR TO THE REQUESTED SHUT-DOWN DATE. NO WORK INVOLVED FOR A POWER OUTAGE / SHUT DOWN SHALL BE INITIATED WITHOUT THE OWNER'S SPECIFIC WRITTEN APPROVAL.

PRIOR TO SUBMITTING THE M.O.P. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE THE EXTENT OF CIRCUITS, SYSTEMS AND PANELS THAT WILL BE INVOLVED IN EACH AND EVERY POWER OUTAGE / SHUT-DOWN.

CONDUITS;

CONDUIT SHALL BE GALVANIZED RIGID STEEL OR EMT TYPE AS SPECIFIED IN THE TYPED SPECIFICATIONS. CONDUIT SHALL BE MANUFACTURED IN ACCORDANCE WITH UL-1. A CODE SIZED GROUND WIRE IS REQUIRED IN ALL CONDUITS. BUSHINGS SHALL BE INSTALLED ON ALL COMMUNICATION, TELEPHONE, SPEAKER AND SIMILAR CONDUITS. PROVIDE A NYLON PULL STRING IN ALL EMPTY CONDUITS. FORGED STEEL SET SCREW FITTINGS. MINIMUM 0.75" CONDUIT.

SWITCHES AND RECEPTACLES;

SWITCHES AND RECEPTACLES SHALL BE SPECIFICATION GRADE 20 AMP NEMA RATED. ALL SWITCHES SHALL BE RATED FOR 120 AND/OR 277 VOLT. RECEPTACLES SHALL BE NEMA 5-20R U.O.N. ALL RECEPTACLES ON EXTERIOR OF BUILDINGS DESIGNATED WEATHER PROOF (WP) SHALL HAVE "TYMAC" COVERS.

ALL WALL SWITCHES AND RECEPTACLES SHALL BE MOUNTED BETWEEN 18" AND 46" PER ADA REQUIREMENTS UNLESS SPECIFICALLY NOTED OTHERWISE.

DEVICE COLOR SHALL BE AS SELECTED BY THE ARCHITECT.

DEVICE PLATES SHALL BE AS SELECTED BY THE ARCHITECT.

BRANCH CIRCUITS IDENTIFICATION; ⚠

IDENTIFY BRANCH CIRCUITS WITH I.D. MAKERS, THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, AT ALL SPLICES, IN JUNCTION BOXES, AND IN OUTLETS. USE PLASTIC COATED SELF-STICKING MARKERS SUCH AS THOMAS AND BETTS E-Z CODE FOR INDENTIFICATION OF CONDUCTORS. IDENTIFY SIGNAL AND COMMUNICATION CABLES AT TERMINAL AND OUTLET.

CONDUCTORS;

PROVIDE INDIVIDUAL INSULATED COPPER CONDUCTORS #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. PROVIDE STRANDED COPPER CONDUCTORS FOR ALL WIRING. CONDUCTORS SHALL HAVE 90 DEGREE C THHN/THWN 600 VOLTS INSULATION, UNLESS OTHERWISE NOTED.

GROUNDING & BONDING; ⚠

FURNISH AND INSTALL COMPLETE BONDING AND GROUNDING SYSTEM AS REQUIRED BY CODES. CONTINUITY OF GROUNDING SHALL BE MAINTAINED MECHANICALLY AND ELECTRICALLY THROUGHOUT THE SYSTEM. A GREEN GROUNDING CODE SIZED CONDUCTOR SHALL BE CARRIED IN ALL CONDUITS.

EXECUTION;

CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHES SURFACES, LIMIT DAMAGE TO THE CONFINES AS MUCH AS POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED DUE TO THE INSTALLATION OF THIS WORK.

EQUIPMENT, MATERIALS AND SUPPLIES REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.

DO ALL DRILLING, CUTTING, CHANNELING AND PATCHING REQUIRED TO INSTALL ELECTRICAL WORK AS INDICATED OR HEREIN SPECIFIED. ALL HOLES, CURBS, ETC., IN FLOOR, CEILINGS AND WALLS SHALL BE PATCHED, UNLESS INDICATED OTHERWISE. PAINT ALL NEW ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES AND FITTINGS PENETRATING INTO FIRE RATED ENVELOPES, SPACES, ETC.

ALL CONDUIT RUNS SHALL BE CONCEALED, UNLESS SHOWN OTHERWISE. PROVIDE A PULL WIRE IN ALL EMPTY CONDUITS.

ALL WORK SHOWN IS NEW UNLESS SPECIALLY INDICATED AS EXISTING. ALL ELECTRICAL EQUIPMENT MOUNTING AND ANCHORAGE MUST CONFORM WITH LOCAL AND STATE SEISMIC CODES.

INSTALLATION;

IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT. TO THIS END, CONTRACTOR SHALL FURNISH ALL LABOR AND TOOLS NECESSARY AND FURNISH AND INSTALL ALL APPARATUS, MATERIALS AND EQUIPMENT IN A MANNER COMPLYING WITH ALL APPLICABLE CODES, INCLUDING ITEMS REQUIRED BUT NOT NORMALLY SHOWN, SUCH AS LAMPS, COUPLINGS, HANGERS, BRACKETS, CLAMPS, BOXES, CONNECTORS AND HARDWARE. REFER ALSO TO WRITTEN SPECIFICATIONS FOR GENERAL, MECHANICAL AND ELECTRICAL SECTIONS.

DETERMINE EXACT ROUTING OF FEEDERS AND BRANCH HOMERUNS IN COOPERATION WITH OTHER TRADES TO SIMPLIFY INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF ARCHITECT FOR VISUAL AND STRUCTURAL REASONS.

SIZE OUTLET BOXES IN CONFORMITY WITH CODE FOR NUMBER AND GAUGE OF CONDUCTORS THEREIN, EXCEPT WHERE NOTED TO BE LARGER. MINIMUM BOX SIZE SHALL BE 4" SQUARE BY 1-1/2" DEEP.

ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. EXPOSED CONDUIT SHALL BE IN STRAIGHT LINES PARALLEL WITH, OR AT RIGHT ANGLES TO, COLUMN LINES OR BEAMS AND SEPARATED BY AT LEAST THREE(3) INCHES FROM WATER LINES WHENEVER THEY RUN ALONGSIDE OR ACROSS SUCH LINES. HANGERS SHALL BE FASTENED TO STEEL, CONCRETE OR MASONRY, BUT NOT TO PIPING. ALL HANGERS MUST BE UNIFORMLY SPACED AND NEATLY INSTALLED WITH NO EXCESS MATERIAL BEYOND WHAT IS REQUIRED FOR THE SUPPORT FUNCTION. CONTRACTOR SHALL SELECT ACCESSORIES AND HARDWARE WITH A SMOOTH, NEAT FINISHED APPEARANCE AND PAINT ALL EXPOSED CONDUIT HANGERS TO MATCH THE ADJACENT FINISHES.

DEMOLITION;

THE CONTRACTOR SHALL VISIT THE SITE AND REVIEW THE EXISTING CONDITIONS, REVIEW THE EXISTING DRAWINGS AND ALLOW FOR ALL DEMOLITION, ALTERATION AND NEW CONSTRUCTION THAT IS NECESSARY FOR COMPLETE INSTALLATION OF NEW CONSTRUCTION, INCLUDING BUT NOT LIMITED TO THE ELECTRICAL WORK.

REMOVE ALL ABANDONED WIRING, ELECTRICAL EQUIPMENT AND FIXTURES. SUCH ITEMS SHALL BE REMOVED FROM THE PREMISES.

EXISTING CONDUIT, FITTINGS, WIRE, ETC. REMOVED FROM THE EXISTING FACILITY SHALL NOT BE RE-USED UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT. EXISTING CONDUIT, FITTINGS, WIRE, ETC., MAY BE RE-USED IN PLACE.

WHEREVER EXISTING WIRING, OUTLETS, OR EQUIPMENT IS ABANDONED AS RESULT OF THIS CONTRACT, IT SHALL BE REMOVED INSOFAR AS POSSIBLE. THIS INCLUDES BUT IS NOT LIMITED TO:

- REMOVE ALL WIRE AND CABLE. REMOVE ALL DEVICES AND EQUIPMENT. REMOVE ALL EXPOSED CONDUITS AS FAR AS POSSIBLE. CUT OFF AND CAP ALL ABANDONED CONDUITS. STUBS SHALL NOT BE EXTENDED ABOVE FLOOR. PROVIDE CLOSURE PLATES FOR ALL ABANDONED FLUSH OUTLETS.
- WHERE REMOVAL OF AN EXISTING OUTLET WILL RESULT IN LOSS OF CIRCUIT CONTINUITY, THE ISOLATED PORTIONS OF THE CIRCUIT SHALL BE RE-CONNECTED TO PROVIDE SERVICE TO ALL OUTLETS. IF SITE CONDITIONS MAKE RE-CONNECTION IMPOSSIBLE, CONNECTION SHALL BE MAKE FROM AN ADJACENT AVAILABLE OUTLET AS NOTED AND/OR AS DIRECTED.

REMOVE ELECTRICAL FIXTURES, OUTLETS, DEVICES, BOXES, EQUIPMENT, CONDUIT, CONDUCTORS, ETC. FROM EXISTING CONSTRUCTION BEING DEMOLISHED.

ALL MATERIAL AND LABOR SHALL BE INCLUDED WHETHER SUCH WORK IS SPECIFICALLY SHOWN ON THE PLANS OR NOT.

THE INFORMATION SHOWN ON THESE DRAWINGS AS "EXISTING" HAS BEEN OBTAINED FROM THE EXISTING AVAILABLE "AS-BUILT" AND OTHER DRAWINGS FROM OBSERVATIONS OF THE EXISTING SURFACE CONDITIONS. THE CONTRACTOR SHALL USE SUCH INFORMATION ACCORDINGLY AND WITH CAUTION.

SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES IN THE "EXISTING" CONDITIONS SHOWN ON THESE DRAWINGS AND THE ACTUAL FIELD CONDITIONS, HE SHALL:

- IN THE EVENT OF MINOR DISCREPANCIES WHICH DO NOT EFFECT THE INTENT OF THE DESIGN OR CIRCUIT/PANEL LOADING, SHOWN AND DOCUMENT ACTUAL CONDITIONS ON "AS-BUILT" DRAWING WHICH THE CONTRACTOR SHALL PREPARE.
- IN THE EVENT OF MAJOR DISCREPANCIES WHICH EFFECT THE INTENT OR CIRCUIT/PANEL LOADING. DOCUMENT THE ACTUAL CONDITIONS ENCOUNTERED AND IMMEDIATELY CALL SUCH DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT AND INT-ELECT ENGINEERING, INCORPORATED. THE ARCHITECT AND ENGINEER SHALL ISSUE FURTHER DIRECTION AND/OR CLARIFICATIONS.

⚠ HOSPITAL WORK NOTES

1. FIRE STOPPING REQUIREMENTS:
   THROUGH-PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER AND SHALL HAVE AN F RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATED. (CBC 2022 SECTION 714.4.1.2)
   - SEE W-L-1001 FIRESTOP SYSTEM DETAIL 341/E401.

   FOR FLOOR PENETRATIONS – THE SYSTEM SHALL HAVE AN F RATING/T RATING OF NOT LESS THAN THE REQUIRED RATING OF THE FLOOR PENETRATED. FLOOR PENETRATIONS CONTAINED AND LOCATED WITHIN THE CAVITY OF WALL ABOVE OF BELOW THE FLOOR DO NOT REQUIRE A T RATING. (CBC 2022 SECTION 714.4.1.2)

   PENETRATIONS IN A SMOKE BARRIER (WALL AND FLOORS) SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF UL 1479 FOR AIR LEAKAGE AND SHALL HAVE AN L RATING. (CBC 2022 SECTION 714.5)

   THE CONTRACTOR SHALL MAINTAIN COPIES OF THE APPROVED LISTINGS ON THE JOB SITE FOR USE BY THE HCAI FIELD PERSONNEL.

   SPECIAL INSPECTIONS ARE REQUIRED PER PIN 67.
2. ALL EQUIPMENT AND MATERIALS REQUIRED OR PERMITTED BY THE ELECTRICAL CODE SHALL BE LISTED, LABELED OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY. THIS REQUIREMENT SPECIFICALLY APPLIES TO ALL EQUIPMENT MODIFIED AS A PART OF THIS PROJECT AS WELL AS ALL NEW EQUIPMENT.
3. ALL ELECTRICAL EQUIPMENT IN PATIENT AREAS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH REQUIREMENTS OF THE CALIFORNIA ELECTRICAL CODE.
4. PROVIDE A GREEN INSULATED COPPER GROUNDING CONDUCTOR IN ALL WIREWAYS AND CONDUITS, INCLUDING BUT NOT LIMITED TO THOSE SERVING ALL RECEPTACLES, LIGHTS SWITCHES, AND FIXED ELECTRICAL EQUIPMENT INCLUDING THOSE IN PATIENT CARE AREAS.
5. ALTERNATE SOURCE IDENTIFICATION:
   IDENTIFY ALL BOXES AND ENCLOSURES FOR ESSENTIAL SYSTEMS (BRANCHES). RECEPTACLES, SWITCHES, AND BOXES ON THE ESSENTIAL ELECTRICAL SYSTEM SHALL BE IDENTIFIED. ALL RECEPTACLES CONNECTED TO THE EMERGENCY SYSTEM AND ALL LIGHT SWITCHES CONTROLLING EMERGENCY LIGHTING SHALL BE IDENTIFIED IN A CONSPICUOUS AND PERMANENT MANNER BY USING RED COLORED DEVICES TO MATCH THE EXISTING IN THE BUILDING. PAINT OUTLET AND DEVICE BOXES RED INSIDE AND OUT.
6. APPLICABLE CODES:
   - **2022 CALIFORNIA ADMINISTRATIVE CODE (CAC)** – PART 1, TITLE 24, CCR CODE OF REGULATIONS
   - **2022 CALIFORNIA BUILDING CODE (CBC)** – PART 2, TITLE 24, CCR BASED ON THE 2021 INTER

⚠ LEVEL 2 VERIFICATION

ENGINEER'S STATEMENT:
THE EXISTING 800 AMP DISTRIBUTION PANEL, ASSOCIATED 800 AMP FEEDER AND 700 AMP MAIN C.B. OVER-CURRENT PROTECTIVE DEVICE HAVE BEEN CHECKED AND HAVE ADEQUATE CAPACITY TO ACCOMMODATE THE EXISTING LOADS AND THE NEW LOADS BEING ADDED AS PART OF THIS PROJECT.

<E> PANEL "HB2-DL4"
(NON-ESSENTIAL)

<E> 800 AMP, 120/208V, 3 PHASE, 4W CU. BUS

<E> 225A 3P

ALL LOADS NOT SHOWN.

<E> 2.5"C-4 #4/0 & 1 #4 GRD.

<E> PANEL "HB3-L3" SCHEDULE (SECTION 1) "NON-ESSENTIAL"

MAIN BUS AMPS: ☐ 100 AMP ■ 225 AMP ☐ 400 AMP MAINS: ■ MAIN LUG ONLY ☐ _____A/3P C.B.
VOLTS: ■ 120/208, 3ø, 4W ☐ 277/480, 3ø, 4W TYPE: <E> PRL1 MOUNT: ■ SURFACE ☐ FLUSH

LOADS	<N> VOLTS-AMPS ø A	ø B	ø C	CIRCUIT BKR.	#	CIRCUIT #	BKR.	<N> VOLTS-AMPS ø A	ø B	ø C	LOADS
<E> OFFICE/CLEAN SOIL UTILITY	<E>			20/1	1	2	20/1	<E>			<E> PRIVATE PATIENT ROOM
<E> OFFICE/CLEAN SOIL UTILITY		<E>			3	4			<E>		<E> PRIVATE PATIENT ROOM
<E> EXAM TABLE LIGHT			<E>		5	6				<E>	<E> PRIVATE PATIENT ROOM
<E> WORK ROOM	<E>				7	8		<E>			<E> PRIVATE PATIENT ROOM
<E> WORK ROOM WORKSTATIONS		<E>			9	10			<E>		<E> PRIVATE PATIENT ROOM
<E> WORK ROOM WORKSTATIONS			<E>		11	12				<E>	<E> PRIVATE PATIENT ROOM
<E> PRIVATE PATIENT ROOM	<E>				13	14		<E>			<E> PRIVATE PATIENT ROOM
<E> PRIVATE PATIENT ROOM		<E>			15	16			<E>		<E> PRIVATE PATIENT ROOM
<E> PRIVATE PATIENT ROOM			<E>		17	18				<E>	<E> PRIVATE PATIENT ROOM
<E> PRIVATE PATIENT ROOM	<E>				19	20		<E>			<E> PRIVATE PATIENT ROOM
<E> PRIVATE PATIENT ROOM		<E>			21	22			<E>		<E> PRIVATE PATIENT ROOM
<E> PRIVATE PATIENT ROOM			<E>		23	24				<E>	<E> PRIVATE PATIENT ROOM
<E> PRIVATE PATIENT ROOM	<E>				25	26		<E>			<E> SEMI-PRIVATE PATIENT ROOM
<E> CORRIDOR CONFERENCE		<E>			27	28			<E>		<E> SEMI-PRIVATE PATIENT ROOM
<E> CORRIDOR CONFERENCE			<E>		29	30				<E>	<E> SEMI-PRIVATE PATIENT ROOM
<E> DRINKING FOUNTAIN	<E>				31	32		<E>			<E> PENTHOUSE
<E> NURSE STATION		<E>			33	34			<E>		<E> ROOM 321 & 322 OUTLETS
<E> COMMUNICATION CLOSET			<E>		35	36				<E>	<E> ROOM 319 & 313 OUTLETS
<E> DOOR VIDEO PHONE	<E>				37	38		<E>			<E> ROOM 311 & 313 OUTLETS
<E> ROOM 331 & 327 OUTLETS		<E>			39	40			—		<E> SPARE
<E> ROOM 331 & 327 OUTLETS			<E>		41	42				<E>	<E> PNEUMATIC TUBE
CONNECTED <N> LOAD/PHASE	SEE BELOW							SEE BELOW			CONNECTED <N> LOAD/PHASE

<E> PANEL "HB3-L3" SCHEDULE (SECTION 2) "NON-ESSENTIAL"

MAIN BUS AMPS: ☐ 100 AMP ■ 225 AMP ☐ 400 AMP MAINS: ■ MAIN LUG ONLY ☐ _____A/3P C.B.
VOLTS: ■ 120/208, 3ø, 4W ☐ 277/480, 3ø, 4W TYPE: <E> PRL1 MOUNT: ■ SURFACE ☐ FLUSH

LOADS	<N> VOLTS-AMPS ø A	ø B	ø C	CIRCUIT BKR.	#	CIRCUIT #	BKR.	<N> VOLTS-AMPS ø A	ø B	ø C	LOADS
<E> PRIVATE PATIENT ROOM	<E>			20/1	43	44	20/1	<E>			<E> PRIVATE PATIENT ROOM
<E> PRIVATE PATIENT ROOM		<E>			45	46			<E>		<E> PRIVATE PATIENT ROOM
<E> PRIVATE PATIENT ROOM			<E>		47	48				<E>	<E> SEMI-PRIVATE PATIENT ROOM
<E> SPARE	—				49	50	20	<E>			<E> 3B021 DOCTORS WORKROOM
		—			51	52			<E>		
			—		53	54	3			<E>	
	—				55	56	20/1	360			<N> RECEPTS (RM 333) (2)
		—			57	58			—		<E> SPARE
			—		59	60				—	<E> SPARE
	—				61	62		360			<N> RECEPTS (RM 315) (2)
		—			63	64			360		<N> RECEPTS (RM 327) (2)
			—		65	66	30/1			—	<E> SPARE
	—				67	68	20/1	—			<E> SPARE
		—			69	70			—		<E> SPARE
			—		71	72				1200	<N> PRINTER (1)
<E> SPACE	—			1P	73	74	1P	—			<E> SPACE
		—			75	76			—		
			—		77	78				—	
	—				79	80		—			
		—			81	82			—		
			—		83	84				—	
CONNECTED LOAD/PHASE	<E>	<E>	<E>					720	360	1200	CONNECTED LOAD/PHASE

TOTAL CONNECTED LOAD IN KVA: **2.28** HIGH PHASE LOAD IN AMPS: **10**

⚠ LEVEL 1 VERIFICATION (72 HR)

72 HOUR (+) RECORDING AMMETER READINGS STARTED ON: 01/23/24

	PHASE A:	PHASE B:	PHASE C:
<E> PEAK DEMAND =	28.40 AMPS	45.70 AMPS	23.80 AMPS
X 125% =	35.50 AMPS	57.13 AMPS	29.75 AMPS
<N> LOAD =	6.00 AMPS	3.00 AMPS	10.00 AMPS
TOTAL =	41.50 AMPS	60.13 AMPS	39.75 AMPS

HIGH PHASE IS <E> PHASE "B" AT 60.13 AMPS.

ENGINEER'S STATEMENT:
THE EXISTING 225 AMP PANEL, ASSOCIATED 225 AMP FEEDER AND 225 AMP UPSTREAM OVER-CURRENT PROTECTIVE DEVICE (C.B.) HAVE ADEQUATE CAPACITY TO ACCOMMODATE THE EXISTING LOADS AND THE NEW LOADS BEING ADDED BY THIS PROJECT.

A PARTIAL SINGLE LINE DIAGRAM (NON-ESSENTIAL)
SCALE: N.T.S.

⚠ LEVEL 2 VERIFICATION

ENGINEER'S STATEMENT:
THE EXISTING 800 AMP DISTRIBUTION PANEL, ASSOCIATED 800 AMP FEEDER AND 700 AMP MAIN C.B. OVER-CURRENT PROTECTIVE DEVICE HAVE BEEN CHECKED AND HAVE ADEQUATE CAPACITY TO ACCOMMODATE THE EXISTING LOADS AND THE NEW LOADS BEING ADDED AS PART OF THIS PROJECT.

<E> PANEL "HA1-ECDL1"
(CRITICAL BRANCH)

<E> 800 AMP, 120/208V, 3 PHASE, 4W CU. BUS

E1 <E> 225A 3P

ALL LOADS NOT SHOWN.

<E> 2.5"C-4 #4/0 & 1 #4 GRD.

<E> PANEL "HB3-ECL3" SCHEDULE (SECTION 1) "CRITICAL BRANCH"

MAIN BUS AMPS: ☐ 100 AMP ■ 225 AMP ☐ 400 AMP MAINS: ■ MAIN LUG ONLY ☐ _____A/3P C.B.
VOLTS: ■ 120/208, 3ø, 4W ☐ 277/480, 3ø, 4W TYPE: <E> PRL1 MOUNT: ■ SURFACE ☐ FLUSH

LOADS	<N> VOLTS-AMPS ø A	ø B	ø C	CIRCUIT BKR.	#	CIRCUIT #	BKR.	<N> VOLTS-AMPS ø A	ø B	ø C	LOADS
<E> ELECTRICAL CLOSET PENTHOUSE	<E>			20/1	1	2	20/1	<E>			<E> REFRIGERATOR
<E> COMMUNICATION CLOSET		<E>			3	4			<E>		<E> MICROWAVE RECEPTACLE
<E> CLEAN / SOIL / UTILITY			<E>		5	6				<E>	<E> ICE MAKER
<E> ROOM 333 OUTLETS	<E>				7	8		<E>			<E> NURSE STATION MEDICINE
<E> ROOM 332 OUTLETS		<E>			9	10			<E>		<E> REFRIGERATOR
<E> ROOM 331 OUTLETS			<E>		11	12				<E>	<E> NURSE STATION
<E> PRIVATE PATIENT ROOM	<E>				13	14		<E>			<E> PRIVATE PATIENT ROOM
<E> PRIVATE PATIENT ROOM		<E>			15	16			<E>		<E> PRIVATE PATIENT ROOM
<E> PRIVATE PATIENT ROOM			<E>		17	18				<E>	<E> PRIVATE PATIENT ROOM
<E> PRIVATE PATIENT ROOM	<E>				19	20		<E>			<E> PRIVATE PATIENT ROOM
<E> PRIVATE PATIENT ROOM		<E>			21	22			<E>		<E> PRIVATE PATIENT ROOM
<E> PRIVATE PATIENT ROOM			<E>		23	24				<E>	<E> PRIVATE PATIENT ROOM
<E> PRIVATE PATIENT ROOM	<E>				25	26		<E>			<E> PRIVATE PATIENT ROOM
<E> PRIVATE PATIENT ROOM		<E>			27	28			<E>		<E> PRIVATE PATIENT ROOM
<E> PRIVATE PATIENT ROOM			<E>		29	30				<E>	<E> PRIVATE PATIENT ROOM
<E> SEMI-PRIVATE PATIENT ROOM	<E>				31	32		<E>			<E> SEMI-PRIVATE PATIENT ROOM
<E> SEMI-PRIVATE PATIENT ROOM		<E>			33	34			<E>		<E> SEMI-PRIVATE PATIENT ROOM
<E> SEMI-PRIVATE PATIENT ROOM			<E>		35	36				<E>	<E> SEMI-PRIVATE PATIENT ROOM
<E> PRIVATE PATIENT ROOM	<E>				37	38		<E>			<E> PRIVATE PATIENT ROOM
<E> WATER TREATMENT		<E>			39	40			<E>		<E> ROOM 321 OUTLETS
<E> ROOM 327 OUTLETS			<E>		41	42				<E>	<E> ROOM 319 OUTLETS
CONNECTED <N> LOAD/PHASE	SEE BELOW							SEE BELOW			CONNECTED <N> LOAD/PHASE

<E> PANEL "HB3-ECL3" SCHEDULE (SECTION 2) "CRITICAL BRANCH"

MAIN BUS AMPS: ☐ 100 AMP ■ 225 AMP ☐ 400 AMP MAINS: ■ MAIN LUG ONLY ☐ _____A/3P C.B.
VOLTS: ■ 120/208, 3ø, 4W ☐ 277/480, 3ø, 4W TYPE: <E> PRL1 MOUNT: ■ SURFACE ☐ FLUSH

LOADS	<N> VOLTS-AMPS ø A	ø B	ø C	CIRCUIT BKR.	#	CIRCUIT #	BKR.	<N> VOLTS-AMPS ø A	ø B	ø C	LOADS
<E> COMMUNICATION CLOSET	<E>				43	44	20/1	<E>			<E> COMMUNICATION CLOSET
<E> W/ CKT #43		<E>			45	46			<E>		<E> COMMUNICATION CLOSET
<E> PRIVATE PATIENT ROOM			<E>	20/1	47	48				<E>	<E> PRIVATE PATIENT ROOM
<E> PRIVATE PATIENT ROOM	<E>				49	50		<E>			<E> PRIVATE PATIENT ROOM
<E> PRIVATE PATIENT ROOM		<E>			51	52			<E>		<E> PRIVATE PATIENT ROOM
<E> ROOM 315 OUTLETS			<E>		53	54				<E>	<E> SASCO
<E> ROOM 313 OUTLETS	<E>				55	56		1872			<N> RECEPTS (WOW) (6)
<E> ROOM 311 OUTLETS		<E>			57	58			<E>		<E> PRIVATE PATIENT ROOM
<E> RECEPT DIALYSIS ROOM			<E>		59	60				<E>	<E> TS1
<N> RECEPTS (WOW) (6)	1872				61	62		<E>			<E> JOHNSON CONTROL PANEL
<N> RECEPTS (CHART) (4)		1728			63	64			<E>		<E> MEDURNA DEVELOPE
<E> SPARE			—	1P	65	66				1872	<N> RECEPTS (WOW) (6)
<E> CARDIOPULMONARY EQUIP STORAGE	<E>			20/1	67	68		1872			<N> RECEPTS (WOW) (6)
<N> RECEPTS (WOW) (6)		1872			69	70	20/1		1872		<N> RECEPTS (WOW) (6)
<E> MONITOR-331-332			<E>		71	72				1872	<N> RECEPTS (WOW) (6)
<N> RECEPTS (CHART) (4)	1728			20/1	73	74		1728			<N> RECEPTS (CHART) (4)
<N> NURSE RECEPTS (4)		800		20/1	75	76			1560		<N> RECEPTS (WOW) (5)
<E> SPACE			—	1P	77	78	20/1			<E>	<E> NURSE CALL CIRCUITS
<N> RECEPTS (RM 333)	720			20/1	79	80		<E>			
<N> RECEPTS (RM 315)		720			81	82			<E>		<E> PROXIMITY CAB MED CLOSET
<N> RECEPTS (WOW) (6)			1872		83	84	20/1			1872	<N> RECEPTS (WOW) (6)
CONNECTED LOAD/PHASE	4320	5120	1872					5472	3432	5616	CONNECTED LOAD/PHASE

TOTAL CONNECTED LOAD IN KVA: **25.83** HIGH PHASE LOAD IN AMPS: **81.6**

⚠ LEVEL 1 VERIFICATION (72 HR)

72 HOUR (+) RECORDING AMMETER READINGS STARTED ON: 01/26/24

	PHASE A:	PHASE B:	PHASE C:
<E> PEAK DEMAND =	52.60 AMPS	40.40 AMPS	59.10 AMPS
X 125% =	65.75 AMPS	50.50 AMPS	73.88 AMPS
<N> LOAD =	81.60 AMPS	71.27 AMPS	62.40 AMPS
TOTAL =	147.35 AMPS	121.77 AMPS	136.28 AMPS

HIGH PHASE IS <E> PHASE "A" AT 147.35 AMPS.

ENGINEER'S STATEMENT:
THE EXISTING 225 AMP PANEL, ASSOCIATED 225 AMP FEEDER AND 225 AMP UPSTREAM OVER-CURRENT PROTECTIVE DEVICE (C.B.) HAVE ADEQUATE CAPACITY TO ACCOMMODATE THE EXISTING LOADS AND THE NEW LOADS BEING ADDED BY THIS PROJECT.

B PARTIAL SINGLE LINE DIAGRAM (CRITICAL BRANCH)
SCALE: N.T.S.

◇ SHEET NOTES

1. FURNISH, INSTALL AND CONNECT NEW CUTLER HAMMER "BAB" FRAME CIRCUIT BREAKER IN EXISTING SPACE. MAKE ALL CONNECTIONS TO PLACE INTO SERVICE. UPDATE THE PANEL DIRECTORY WITH OWNER APPROVED WORDING DESCRIBING THE LOAD BEING SERVED.
2. REMOVE EXISTING 20 AMP / 2 POLE BREAKER. FURNISH, INSTALL AND CONNECT TWO NEW CUTLER HAMMER "BAB" FRAME CIRCUIT BREAKERS. MAKE ALL CONNECTIONS TO PLACE INTO SERVICE. UPDATE THE PANEL DIRECTORY WITH OWNER APPROVED WORDING DESCRIBING THE LOAD BEING SERVED.
3. UTILIZE EXISTING CUTLER HAMMER "BAB" SPARE CIRCUIT BREAKER FOR NEW LOAD. MAKE ALL CONNECTIONS TO PLACE INTO SERVICE. UPDATE THE PANEL DIRECTORY WITH OWNER APPROVED WORDING DESCRIBING THE LOAD BEING SERVED.
4. CIRCUIT INVOLVED. LOAD DECREASED BY THE VALUE SHOWN. REFER TO THE RESPECTIVE LOAD MATRIX ON E104.

⚠ <E> PANEL "HB3-ECL3" OCPD FINAL COORDINATION CRITICAL BRANCH

THE REPURPOSED EXISTING CRITICAL BRANCH OCPDs, AND THE NEW CRITICAL BRANCH OCPDs SELECTIVELY COORDINATE WITH THE EXISTING UPSTREAM OCPD FOR THE PERIOD OF TIME THAT A FAULT'S DURATION EXTENDS BEYOND 0.1 SECONDS AS FOLLOWS:

E1 <E> 225 AMP / 3 POLE BREAKER IN 'HA1-ECDL1': C-H #ED3225.

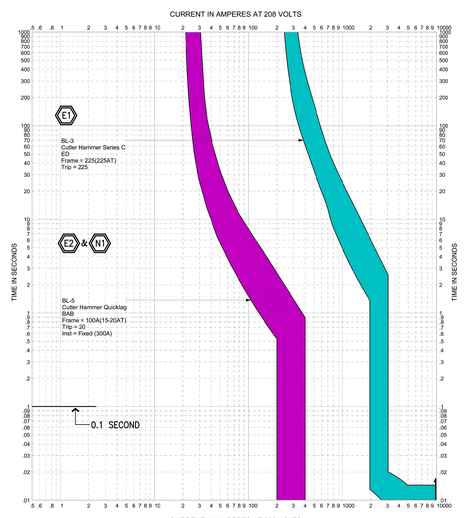
E2 <E> 20 AMP / 1 POLE BREAKER IN 'HB3-L3': C-H #BAB

N1 <N> 20 AMP / 1 POLE BREAKERS IN 'HB3-L3': C-H #BAB

REGISTERED PROFESSIONAL ENGINEER ROMAN PERALTA No. E 19560 Exp. 6-30-25 ELECTRICAL STATE OF CALIFORNIA

04/15/24

ENGINEERS STATEMENT:
THE RELEVANT PORTION OF THE ESSENTIAL ELECTRICAL SYSTEM AND THE NEW OCPDs DOCUMENTED HEREIN HAVE BEEN EVALUATED FOR COORDINATION AND MEET THE PROJECT REQUIREMENTS.



Int-Elect Engineering	*EasyPower*® TIME-CURRENT CURVES	TCC-1
ie #22110 "HB3-ECDL1' TO "HB3-ECL3"		FAULT: DATE: 1/27/2023 BY: REVISION: 1

422110 - ECDL1 FEEDS ECL3

Int • Elect Engineering Incorporated
1487 Finch Lane
Gilroy, California 95020
(408) 846-7171

Project No. 22110 © 2024

* READ THE SPECIFICATIONS !

READ THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. IN CASE OR CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE RESTRICTIVE REQUIREMENTS SHALL TAKE PRECEDENCE.

THIS DRAWING AND THE DESIGN HEREON ARE INTENDED FOR THIS ONE SPECIFIC PROJECT ONLY. ANY USE OR RE-USE BEYOND THIS ONE PROJECT IS THE SOLE RESPONSIBILITY OF THE USER.

ALTHOUGH A "SCALE" MAY BE INDICATED, THE INFORMATION ON THIS DRAWING IS APPROXIMATE AND DIAGRAMMATIC ONLY, AND SHALL NOT BE SCALED TO OBTAIN DISTANCES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THE INTENT AND USE OF THESE DRAWINGS.

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353

AREA A1
AREA A2
KEYPLAN

HCAI APPROVAL

REGISTERED PROFESSIONAL ENGINEER ROMAN PERALTA No. E 19560 Exp. 6-30-25 ELECTRICAL STATE OF CALIFORNIA

04/23/24

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

PARTIAL SINGLE LINE DIAGRAMS & PANEL SCHEDULES

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

E101

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

⚠ LEVEL 2 VERIFICATION

ENGINEER'S STATEMENT:
THE EXISTING 800 AMP DISTRIBUTION PANEL, ASSOCIATED 800 AMP FEEDER AND 700 AMP MAIN C.B. OVER-CURRENT PROTECTIVE DEVICE HAVE BEEN CHECKED AND HAVE ADEQUATE CAPACITY TO ACCOMMODATE THE EXISTING LOADS AND THE NEW LOADS BEING ADDED AS PART OF THIS PROJECT.

<E> PANEL "HA2-DL3"
(NON-ESSENTIAL)

<E> 800 AMP, 120/208V, 3 PHASE, 4W CU. BUS

<E> 225A 3P

ALL LOADS NOT SHOWN.

<E> 2"C-4 #4/0 & 1 #4 GRD.

<E> PANEL "HA3-L2" SCHEDULE (SECTION 1) "NON-ESSENTIAL"

MAIN BUS AMPS: ☐ 100 AMP ■ 225 AMP ☐ 400 AMP MAINS: ■ MAIN LUG ONLY ☐ _____A/3P C.B.
VOLTS: ■ 120/208, 3ø, 4W ☐ 277/480, 3ø, 4W TYPE: <E> PRL1 MOUNT: ■ SURFACE ☐ FLUSH

LOADS	<N> VOLTS-AMPS ø A	ø B	ø C	CIRCUIT BKR.	#	CIRCUIT #	BKR.	<N> VOLTS-AMPS ø A	ø B	ø C	LOADS
<E> LOAD	<E>			20/1	1	2	20/1	<E>			<E> LOAD
		<E>			3	4			<E>		
			<E>		5	6				<E>	
	<E>				7	8		<E>			
		<E>			9	10			<E>		
			<E>		11	12				<E>	
	<E>				13	14		<E>			
		<E>			15	16			<E>		
			<E>		17	18				<E>	
	<E>				19	20		<E>			
		<E>			21	22			<E>		
			<E>		23	24				<E>	
	<E>				25	26		<E>			
		<E>			27	28			<E>		
			<E>		29	30				<E>	
	<E>				31	32		<E>			
		<E>			33	34			<E>		
			<E>		35	36				<E>	
	<E>				37	38		<E>			
		<E>			39	40			<E>		
			<E>		41	42				<E>	
CONNECTED <N> LOAD/PHASE	SEE BELOW							SEE BELOW			CONNECTED <N> LOAD/PHASE

<E> PANEL "HA3-L2" SCHEDULE (SECTION 2) "NON-ESSENTIAL"

MAIN BUS AMPS: ☐ 100 AMP ■ 225 AMP ☐ 400 AMP MAINS: ■ MAIN LUG ONLY ☐ _____A/3P C.B.
VOLTS: ■ 120/208, 3ø, 4W ☐ 277/480, 3ø, 4W TYPE: <E> PRL1 MOUNT: ■ SURFACE ☐ FLUSH

LOADS	<N> VOLTS-AMPS ø A	ø B	ø C	CIRCUIT BKR.	#	CIRCUIT #	BKR.	<N> VOLTS-AMPS ø A	ø B	ø C	LOADS
<E> LOAD	<E>			20/1	43	44	20/1	<E>			<E> LOAD
		<E>			45	46			<E>		
			<E>		47	48				<E>	
<E> LOAD	<E>			30 / 2	49	50	30 / 2	<E>			<E> LOAD
		<E>			51	52		<E>			
<E> LOAD			<E>	30 / 2	53	54	30 / 2			<E>	<E> LOAD
	<E>				55	56		<E>			
<E> LOAD		<E>		30 / 2	57	58	30 / 2		<E>		<E> LOAD
			<E>		59	60				<E>	
<E> LOAD	<E>			30 / 2	61	62	30 / 2	<E>			<E> LOAD
		<E>			63	64			<E>		
<E> LOAD			<E>	30 / 2	65	66	30 / 2			<E>	<E> LOAD
	<E>				67	68		<E>			
<E> LOAD		<E>		20/1	69	70	20/1		<E>		<E> LOAD
			<E>		71	72				1440	<N> COPIER (3 E2)
	<E>				73	74		<E>			<E> LOAD
		<E>			75	76			<E>		<E> LOAD
<N> COPIER			1440		77	78				——	<E> SPARE
<E> LOAD	<E>				79	80		<E>			<E> LOAD
		<E>			81	82				1200	<N> REFRIG RECEPTS (1) (3 E2)
			<E>		83	84				——	<E> SPARE
CONNECTED LOAD/PHASE	<E>	<E>	1440					<E>	1200	1440	CONNECTED LOAD/PHASE

TOTAL CONNECTED LOAD IN KVA: **4.08** HIGH PHASE LOAD IN AMPS: **24**

⚠ LEVEL 1 VERIFICATION (72 HR)

72 HOUR (+) RECORDING AMMETER READINGS STARTED ON: 01/23/24

	PHASE A:	PHASE B:	PHASE C:
<E> PEAK DEMAND =	60.70 AMPS	71.50 AMPS	66.50 AMPS
X 125% =	75.88 AMPS	89.38 AMPS	83.13 AMPS
<N> LOAD =	Ø AMPS	10.00 AMPS	24.00 AMPS
TOTAL =	75.88 AMPS	99.38 AMPS	107.13 AMPS

HIGH PHASE IS <E> PHASE "C" AT 107.13 AMPS.

ENGINEER'S STATEMENT:
THE EXISTING 225 AMP PANEL, ASSOCIATED 225 AMP FEEDER AND 225 AMP UPSTREAM OVER-CURRENT PROTECTIVE DEVICE (C.B.) HAVE ADEQUATE CAPACITY TO ACCOMMODATE THE EXISTING LOADS AND THE NEW LOADS BEING ADDED BY THIS PROJECT.

A PARTIAL SINGLE LINE DIAGRAM (NON-ESSENTIAL)

SCALE: N.T.S.

⚠ LEVEL 2 VERIFICATION

ENGINEER'S STATEMENT:
THE EXISTING 800 AMP DISTRIBUTION PANEL, ASSOCIATED 800 AMP FEEDER AND 700 AMP MAIN C.B. OVER-CURRENT PROTECTIVE DEVICE HAVE BEEN CHECKED AND HAVE ADEQUATE CAPACITY TO ACCOMMODATE THE EXISTING LOADS AND THE NEW LOADS BEING ADDED AS PART OF THIS PROJECT.

<E> PANEL "HA1-ECDL1"
(CRITICAL BRANCH)

<E> 800 AMP, 120/208V, 3 PHASE, 4W CU. BUS

E3 <E> 150A 3P

ALL LOADS NOT SHOWN.

<E> 2"C-4 #1/0 & 1 #6 GRD.

<E> PANEL "HA3-ECL2" SCHEDULE (SECTION 1) "CRITICAL BRANCH"

MAIN BUS AMPS: ☐ 100 AMP ■ 225 AMP ☐ 400 AMP MAINS: ■ MAIN LUG ONLY ☐ _____A/3P C.B.
VOLTS: ■ 120/208, 3ø, 4W ☐ 277/480, 3ø, 4W TYPE: <E> PRL1 MOUNT: ■ SURFACE ☐ FLUSH

LOADS	<N> VOLTS-AMPS ø A	ø B	ø C	CIRCUIT BKR.	#	CIRCUIT #	BKR.	<N> VOLTS-AMPS ø A	ø B	ø C	LOADS
<E> LOAD	<E>			20/1	1	2	20/1	<E>			<E> LOAD
		<E>			3	4			<E>		
			<E>		5	6				<E>	
	<E>				7	8		<E>			
		<E>			9	10			<E>		
			<E>		11	12				<E>	
	<E>				13	14		<E>			
		<E>			15	16			<E>		
			<E>		17	18				<E>	
	<E>				19	20		<E>			
		<E>			21	22			<E>		
			<E>		23	24				<E>	
	<E>				25	26		<E>			
		<E>			27	28			<E>		
			<E>		29	30				<E>	
	<E>				31	32		<E>			
		<E>			33	34			<E>		
			<E>		35	36				<E>	
	<E>				37	38		<E>			
		<E>			39	40			<E>		
E2 3 <N> RECEPT (1)			400		41	42				<E>	
CONNECTED <N> LOAD/PHASE	SEE BELOW							SEE BELOW			CONNECTED <N> LOAD/PHASE

<E> PANEL "HA3-ECL2" SCHEDULE (SECTION 2) "CRITICAL BRANCH"

MAIN BUS AMPS: ☐ 100 AMP ■ 225 AMP ☐ 400 AMP MAINS: ■ MAIN LUG ONLY ☐ _____A/3P C.B.
VOLTS: ■ 120/208, 3ø, 4W ☐ 277/480, 3ø, 4W TYPE: <E> PRL1 MOUNT: ■ SURFACE ☐ FLUSH

LOADS	<N> VOLTS-AMPS ø A	ø B	ø C	CIRCUIT BKR.	#	CIRCUIT #	BKR.	<N> VOLTS-AMPS ø A	ø B	ø C	LOADS
<E> LOAD	<E>			20/1	43	44	20/1	<E>			<E> LOAD
		<E>			45	46			<E>		
			<E>		47	48				<E>	
	<E>				49	50		<E>			
		<E>			51	52			<E>		
			<E>		53	54				<E>	
	<E>				55	56		<E>			
<E> SPARE		——			57	58			<E>		
<E> LOAD			<E>		59	60				<E>	
<E> SPARE	——				61	62		<E>			<E> LOAD
<E> LOAD		<E>		20 / 2	63	64	20 / 2		<E>		<E> LOAD
			<E>		65	66				<E>	
<E> LOAD	<E>			20 / 2	67	68	20/1	<E>			<E> LOAD
		<E>			69	70			<E>		
<E> LOAD			<E>	20/1	71	72				<E>	
	<E>				73	74	30/1	<E>			
		<E>			75	76	20 / 2		<E>		<E> LOAD
			<E>		77	78	/ 2			<E>	
	<E>				79	80	20/1	1728			<N> RECEPTS (RM 327) (4) (3 E2)
E2 3 <N> AUTODOORS (3)		900			81	82			1728		<N> RECEPTS (RM 319) (4)
<N> RECEPTS (RM 319) (4)			1728		83	84				<E>	<E> LOAD
CONNECTED LOAD/PHASE	<E>	900	2128					1728	1728	<E>	CONNECTED LOAD/PHASE

TOTAL CONNECTED LOAD IN KVA: **6.48** HIGH PHASE LOAD IN AMPS: **21.90**

⚠ LEVEL 1 VERIFICATION (72 HR)

72 HOUR (+) RECORDING AMMETER READINGS STARTED ON: 01/23/24

	PHASE A:	PHASE B:	PHASE C:
<E> PEAK DEMAND =	45.20 AMPS	78.30 AMPS	39.30 AMPS
X 125% =	56.50 AMPS	97.88 AMPS	49.13 AMPS
<N> LOAD =	14.40 AMPS	21.90 AMPS	17.73 AMPS
TOTAL =	70.90 AMPS	119.78 AMPS	66.86 AMPS

HIGH PHASE IS <E> PHASE "B" AT 119.78 AMPS.

ENGINEER'S STATEMENT:
THE EXISTING 225 AMP PANEL, ASSOCIATED 150 AMP FEEDER AND 150 AMP UPSTREAM OVER-CURRENT PROTECTIVE DEVICE (C.B.) HAVE ADEQUATE CAPACITY TO ACCOMMODATE THE EXISTING LOADS AND THE NEW LOADS BEING ADDED BY THIS PROJECT.

B PARTIAL SINGLE LINE DIAGRAM (CRITICAL BRANCH)

SCALE: N.T.S.

◇ SHEET NOTES

1. CIRCUIT INVOLVED. LOAD DECREASED BY THE VALUE SHOWN. REFER TO THE RESPECTIVE LOAD MATRIX ON E104.
2. (NOT USED).
3. UTILIZE EXISTING CUTLER HAMMER "BAB" SPARE CIRCUIT BREAKER FOR NEW LOAD. MAKE ALL CONNECTIONS TO PLACE INTO SERVICE. UPDATE THE PANEL DIRECTORY WITH OWNER APPROVED WORDING DESCRIBING THE LOAD BEING SERVED.

⚠ <E> PANEL "HA3-ECL2" OCPD FINAL COORDINATION CRITICAL BRANCH

THE REPURPOSED EXISTING CRITICAL BRANCH OCPDs, AND THE NEW CRITICAL BRANCH OCPDs SELECTIVELY COORDINATE WITH THE EXISTING UPSTREAM OCPD FOR THE PERIOD OF TIME THAT A FAULT'S DURATION EXTENDS BEYOND 0.1 SECONDS AS FOLLOWS:

E3 <E> 150 AMP / 3 POLE BREAKER IN 'HA1-ECDL1': C-H #ED3150.

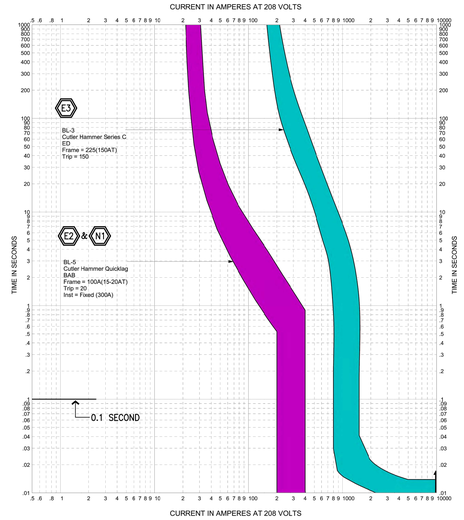
E2 <E> 20 AMP / 1 POLE BREAKER IN 'HA3-ECL2': C-H #BAB

N1 <N> 20 AMP / 1 POLE BREAKERS IN 'HA3-ECL2': C-H #BAB

REGISTERED PROFESSIONAL ENGINEER · ROMAN PERRY · No. E 19560 · Exp. 6-30-25 · ELECTRICAL · STATE OF CALIFORNIA

04/15/24

ENGINEERS STATEMENT:
THE RELEVANT PORTION OF THE ESSENTIAL ELECTRICAL SYSTEM AND THE NEW OCPDs DOCUMENTED HEREIN HAVE BEEN EVALUATED FOR COORDINATION AND MEET THE PROJECT REQUIREMENTS.



Int-Elect Engineering	*EasyPower®* TIME-CURRENT CURVES	TCC-1
#22110 DPNL HA1-ECDL1 FEEDS PANEL HA2-ECL2		FAULT: DATE: 1/30/2023 BY: REVISION: 1

#22110 - HA1-ECDL1 FEEDS HA3-ECL2

Int ● Elect Engineering Incorporated
1487 Finch Lane
Gilroy, California 95020
(408) 846-7171

Project No. 22110 © 2024

* READ THE SPECIFICATIONS !

READ THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. IN CASE OF CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE RESTRICTIVE REQUIREMENTS SHALL TAKE PRECEDENCE.

THIS DRAWING AND THE DESIGN HEREON ARE INTENDED FOR THIS ONE SPECIFIC PROJECT ONLY. ANY USE OR RE-USE BEYOND THIS ONE PROJECT IS THE SOLE RESPONSIBILITY OF THE USER.

ALTHOUGH A "SCALE" MAY BE INDICATED, THE INFORMATION ON THIS DRAWING IS APPROXIMATE AND DIAGRAMMATIC ONLY, AND SHALL NOT BE SCALED TO OBTAIN DISTANCES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THE INTENT AND USE OF THESE DRAWINGS.

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353

KEYPLAN

HCAI APPROVAL

REGISTERED PROFESSIONAL ENGINEER · ROMAN PERRY · No. E 19560 · Exp. 6-30-25 · ELECTRICAL · STATE OF CALIFORNIA

04/23/24

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

PARTIAL SINGLE LINE DIAGRAMS & PANEL SCHEDULES

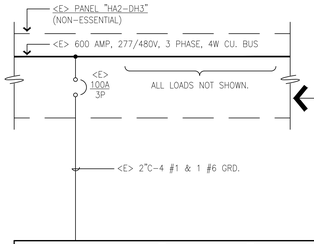
DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

E102

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.



⚠ LEVEL 2 VERIFICATION

ENGINEER'S STATEMENT:
THE EXISTING 600 AMP DISTRIBUTION PANEL, ASSOCIATED 600 AMP FEEDER AND 500 AMP MAIN C.B. OVER-CURRENT PROTECTIVE DEVICE HAVE BEEN CHECKED AND HAVE ADEQUATE CAPACITY TO ACCOMMODATE THE EXISTING LOADS AND THE NEW LOADS BEING ADDED AS PART OF THIS PROJECT.

<E> PANEL "HA3-H2" SCHEDULE — "NON-ESSENTIAL"

MAIN BUS AMPS: ■ 100 AMP ☐ 225 AMP ☐ 400 AMP MAINS: ■ MAIN LUG ONLY ☐ ____A/3P C.B.
VOLTS: ☐ 120/208, 3ø, 4W ■ 277/480, 3ø, 4W TYPE: <E> MOUNT: ■ SURFACE ☐ FLUSH

LOADS	<N> VOLTS-AMPS ø A	ø B	ø C	CIRCUIT BKR.	#	CIRCUIT #	BKR.	<N> VOLTS-AMPS ø A	ø B	ø C	LOADS
<E> LOUNGE/SOIL/CLEAN/UTILITY	-358			20/1	1	2	20/1	<E>			<E> ELEVATOR LOBBY
<E> OFFICES/EQUIPMT/STORG/TOIL		<E>			3	4			<E>		<E> ELEVATOR LOBBY
<E> NURSE STATIONS			<E>		5	6				-374	<E> CORRIDOR/ICU/CCU
<E> PATIENT ROOMS	-204				7	8		<E>			<E> CORRIDOR/ICU/CCU
<E> PATIENT ROOMS		-103			9	10			<E>		<E> WAITING ROOM
<E> PATIENT ROOMS			-107		11	12				<E>	<E> ROOF LIGHTING
<E> PATIENT ROOMS	+14				13	14		——			<E> SPARE
<E> SPARE		——			15	16			——		
	——		——		17	18		——		——	
	——				19	20		——			
	——		——		21	22			——		
			——		23	24		——		——	
<E> SPACE	——			1P	25	26	1P	——			<E> SPACE
		——			27	28			——		
			——		29	30				——	
CONNECTED <N> LOAD/PHASE	-548	-103	-107					<E>	<E>	-374	CONNECTED <N> LOAD/PHASE

TOTAL CONNECTED <N> LOAD IN KVA: -1.13 HIGH PHASE <N> LOAD IN AMPS: -1.98

⚠ CALCULATED CONNECTED LOAD VERIFICATION

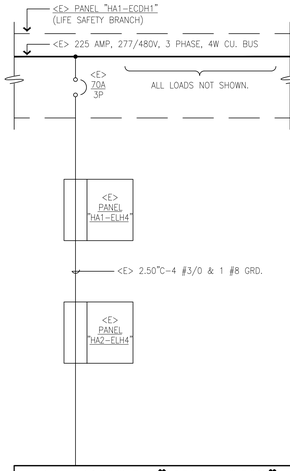
	WATTS PHASE A:	PHASE B:	PHASE C:
<E> CIRCUIT #13 =			
<E> LOAD =	970		
<R> LOAD =	-236		
<N> LOAD =	+250		
NEW TOTAL =	984 W = 3.6 AMPS		

OVERALL PANEL:
THE TOTAL LOAD ON EACH PHASE OF THE PANEL IS BEING REDUCED. NO FURTHER VERIFICATION REQUIRED.

ENGINEER'S STATEMENT:
INDIVIDUAL CIRCUIT #13: THE EXISTING 20 AMP CIRCUIT BREAKER HAS ADEQUATE CAPACITY TO ACCOMMODATE THE EXISTING LOAD AND THE NEW LOAD BEING ADDED.

ENGINEER'S STATEMENT:
THE TOTAL LOAD ON EACH PHASE OF THE PANEL IS BEING REDUCED. NO FURTHER VERIFICATION REQUIRED.

A PARTIAL SINGLE LINE DIAGRAMS (NON-ESSENTIAL)
SCALE: N.T.S.



⚠ LEVEL 2 VERIFICATION

ENGINEER'S STATEMENT:
THE EXISTING 225 AMP DISTRIBUTION PANEL, ASSOCIATED 225 AMP FEEDER AND 125 AMP MAIN C.B. OVER-CURRENT PROTECTIVE DEVICE HAVE BEEN CHECKED AND HAVE ADEQUATE CAPACITY TO ACCOMMODATE THE EXISTING LOADS AND THE NEW LOADS BEING ADDED AS PART OF THIS PROJECT.

<E> PANEL "HA3-ELH2" SCHEDULE — "LIFE SAFETY BRANCH"

MAIN BUS AMPS: ■ 100 AMP ☐ 225 AMP ☐ 400 AMP MAINS: ■ MAIN LUG ONLY ☐ ____A/3P C.B.
VOLTS: ☐ 120/208, 3ø, 4W ■ 277/480, 3ø, 4W TYPE: <E> MOUNT: ■ SURFACE ☐ FLUSH

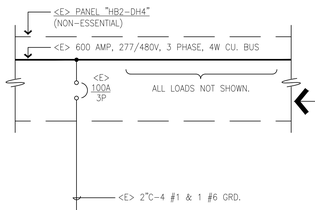
LOADS	<N> VOLTS-AMPS ø A	ø B	ø C	CIRCUIT BKR.	#	CIRCUIT #	BKR.	<N> VOLTS-AMPS ø A	ø B	ø C	LOADS
<E> EXIT SIGN & EGRESS	<E>			20/1	1	2	20/1	<E>			<E> NURSE STATION 3A11
<E> NURSE STATION/SOIL/CLEAN		<E>			3	4			<E>		<E> EXIT SIGN & EGRESS
<E> SPARE			——		5	6				<E>	<E> ELEVATOR LOBBY
	——				7	8					<E> SPARE
		——			9	10			——		
			——		11	12	1P			——	
<E> SPARE	——			1P	13	14		——			<E> SPACE
		——			15	16			——		
			——		17	18				——	
CONNECTED <N> LOAD/PHASE	<E>	<E>	<E>					<E>	<E>	<E>	CONNECTED <N> LOAD/PHASE

TOTAL CONNECTED <N> LOAD IN KVA: <E> HIGH PHASE <N> LOAD IN AMPS: <E>

C PARTIAL SINGLE LINE DIAGRAM (LIFE SAFETY BRANCH)
SCALE: N.T.S.

◇ SHEET NOTES

1. CIRCUIT INVOLVED. LOAD DECREASED BY THE VALUE SHOWN. REFER TO THE RESPECTIVE LOAD MATRIX ON E104.
2. CIRCUIT INVOLVED. LOAD INCREASED BY THE VALUE SHOWN (FROM THE RESPECTIVE LOAD MATRIX ON E104). INDIVIDUAL CIRCUIT LOAD CAPACITY VERIFICATION SHOWN BELOW THE PANEL SCHEDULE.



⚠ LEVEL 2 VERIFICATION

ENGINEER'S STATEMENT:
THE EXISTING 600 AMP DISTRIBUTION PANEL, ASSOCIATED 600 AMP FEEDER AND 500 AMP MAIN C.B. OVER-CURRENT PROTECTIVE DEVICE HAVE BEEN CHECKED AND HAVE ADEQUATE CAPACITY TO ACCOMMODATE THE EXISTING LOADS AND THE NEW LOADS BEING ADDED AS PART OF THIS PROJECT.

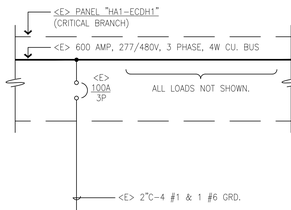
<E> PANEL "HB3-H3" SCHEDULE — "NON-ESSENTIAL"

MAIN BUS AMPS: ■ 100 AMP ☐ 225 AMP ☐ 400 AMP MAINS: ■ MAIN LUG ONLY ☐ ____A/3P C.B.
VOLTS: ☐ 120/208, 3ø, 4W ■ 277/480, 3ø, 4W TYPE: <E> MOUNT: ■ SURFACE ☐ FLUSH

LOADS	<N> VOLTS-AMPS ø A	ø B	ø C	CIRCUIT BKR.	#	CIRCUIT #	BKR.	<N> VOLTS-AMPS ø A	ø B	ø C	LOADS
<E> WORK RM./ CLEAN/SOIL	<E>			20/1	1	2	20/1	<E>			<E> PATIENTS ROOMS
<E> CORRIDOR/PATIENT ROOM		<E>			3	4			<E>		<E> PATIENTS ROOMS
<E> PATIENTS ROOMS			<E>		5	6				<E>	<E> PATIENTS ROOMS
<E> ROOF LIGHTING	<E>				7	8		——			<E> SPARE
<E> SPARE		——			9	10		——			
			——		11	12			——		
	——				13	14		——			
		——			15	16			——		
			——		17	18				——	
<E> SPACE	——			1P	19	20	1P	——			<E> SPACE
		——			21	22			——		
			——		23	24				——	
CONNECTED <N> LOAD/PHASE	<E>	<E>	<E>					<E>	<E>	<E>	CONNECTED <N> LOAD/PHASE

TOTAL CONNECTED <N> LOAD IN KVA: <E> HIGH PHASE <N> LOAD IN AMPS: <E>

B PARTIAL SINGLE LINE DIAGRAMS (NON-ESSENTIAL)
SCALE: N.T.S.



⚠ LEVEL 2 VERIFICATION

ENGINEER'S STATEMENT:
THE EXISTING 600 AMP DISTRIBUTION PANEL, ASSOCIATED 600 AMP FEEDER AND 600 AMP MAIN C.B. OVER-CURRENT PROTECTIVE DEVICE HAVE BEEN CHECKED AND HAVE ADEQUATE CAPACITY TO ACCOMMODATE THE EXISTING LOADS AND THE NEW LOADS BEING ADDED AS PART OF THIS PROJECT.

<E> PANEL "HA3-ECH2" SCHEDULE — "CRITICAL BRANCH"

MAIN BUS AMPS: ■ 100 AMP ☐ 225 AMP ☐ 400 AMP MAINS: ■ MAIN LUG ONLY ☐ ____A/3P C.B.
VOLTS: ☐ 120/208, 3ø, 4W ■ 277/480, 3ø, 4W TYPE: <E> MOUNT: ■ SURFACE ☐ FLUSH

LOADS	<N> VOLTS-AMPS ø A	ø B	ø C	CIRCUIT BKR.	#	CIRCUIT #	BKR.	<N> VOLTS-AMPS ø A	ø B	ø C	LOADS
<E> NURSE STATIONS/SOIL/CLEAN	<E>			20/1	1	2	20/1	<E>			<E> PATIENTS ROOMS
<E> PATIENTS ROOMS		<E>			3	4			<E>		<E> PATIENTS ROOMS
<E> PATIENTS ROOMS			<E>		5	6				<E>	<E> PATIENTS ROOMS
<E> PATIENTS ROOMS	<E>				7	8		<E>			<E> ROOF LIGHTING
<E> PATIENTS ROOMS		<E>			9	10			——		<E> SPARE
<E> PATIENTS ROOMS (& CLEAN UTIL LR)			<E>		11	12				——	
<E> SPARE	——				13	14		——			
		——			15	16			——		
			——		17	18				——	
<E> SPACE	——			1P	19	20	1P	——			<E> SPACE
		——			21	22			——		
			——		23	24				——	
CONNECTED <N> LOAD/PHASE	<E>	<E>	<E>					<E>	<E>	<E>	CONNECTED <N> LOAD/PHASE

TOTAL CONNECTED <N> LOAD IN KVA: <E> HIGH PHASE <N> LOAD IN AMPS: <E>

D PARTIAL SINGLE LINE DIAGRAM (CRITICAL BRANCH)
SCALE: N.T.S.

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

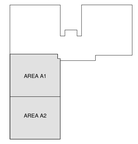
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER: S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

REVIEWED BY PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA — REMAN PERSAUD — Exp. 6-30-25 — ELECTRICAL
03/11/25

AGENCY APPROVAL

NO	DESCRIPTION	DATE
	BACKCHECK#1	12/13/2024
BC2	BACKCHECK#2	03/14/2025

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

PARTIAL SINGLE LINE DIAGRAMS & PANEL SCHEDULES

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

E103

CONSTRUCTION DOCUMENT

Int • Elect Engineering Incorporated
1487 Finch Lane
Gilroy, California 95020
(408) 846-7171
Project No. 22110
© 2024

*** READ THE SPECIFICATIONS !**

READ THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. IN CASE OR CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE RESTRICTIVE REQUIREMENTS SHALL TAKE PRECEDENCE.

THIS DRAWING AND THE DESIGN HEREON ARE INTENDED FOR THIS ONE SPECIFIC PROJECT ONLY. ANY USE OR RE-USE BEYOND THIS ONE PROJECT IS THE SOLE RESPONSIBILITY OF THE USER.

ALTHOUGH A "SCALE" MAY BE INDICATED, THE INFORMATION ON THIS DRAWING IS APPROXIMATE AND DIAGRAMMATIC ONLY, AND SHALL NOT BE SCALED TO OBTAIN DISTANCES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THE INTENT AND USE OF THESE DRAWINGS.

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

⚠ PHASE 1 • RELOCATE / REMOVE LIGHTING LOAD MATRIX

PANEL / CIRCUIT	REMOVE LOAD: REMOVE	WATTS PER FIXTURE REMOVED	TOTAL WATTS REMOVED	INSTALL / ADD LOAD: INSTALL	WATTS PER FIXTURE INSTALLED	TOTAL WATTS ADDED	NET RESULT WATTS	NOTES
HA3-H2 / 1	(2) EG3 (7) EAR (2) EB2R	26 64 64	52 448 128 628	(4) NJ (7) EAR (2) EB2R	34.1 30 30	136.4 210 60 406.4	-221.6	BC1
HA3-H2 / 6	(11) EB2R	64	704	(11) EB2R	30	330	-374	
HA3-H2 / 7	(6) EB2R	64	384	(6) EB2R	30	180	-204	
HA3-ECH2 / 3	(6) EF (1) EF8 (1) EF3	85 170 5	510 170 5 685	(8) NF (2) NF3	67 3.3	536 6.6 542.6	-142.4	
HA3-ECH2 / 5	(2) EF (3) EF3 (3) EF8	85 5 170	170 15 510 695	(8) NF (6) NF3	67 3.3	536 19.8 555.8	-139.2	
HA3-H2 / 9	(1) EB2 (2) EG1 (5) EB2R	64 54 64	64 108 320 492	(2) NB2 (4) NG1 (3) NF6 (5) EB2R (2) EAR	36 34.8 9.2 30 30	72 139.2 27.6 150 60 448.8	-43.2	BC1
HA3-H2 / 11	(2) EB2 (4) EG1 (1) EF8 (1) EB2R	64 54 170 64	128 216 170 64 578	(4) NB2 (8) NG1 (2) NF6 (1) EB2R	36 34.8 9.2 30	144 278.4 18.4 30 470.8	-107.2	
HA3-H2 / 13	(1) EB2 (2) EG1 (1) EB2R	64 54 64	64 108 64 236	(2) NB2 (1) NF6 (4) NG1 (1) EB2R	36 9.2 34.8 30	72 9.2 139.2 30 250.4	+14.4	#1
HB3-H3 / 5	(2) EF6 (2) EG3 (1) EC5 (1) EB2 (2) EG1 (3) EB2R	32 26 32 64 54 64	32 26 32 64 108 192 454	(4) NF6 (2) NG3 (2) NG4 (2) NB2 (4) NG1 (3) EB2R	9.2 16 24 36 34.8 30	36.8 32 48 72 139.2 90 418	-36	
HB3-H3 / 1	(2) EA (2) EB2R	64 64	128 128 256 BC1	(2) NJ (2) EB2R	34.1 30	68.2 60 128.2	-127.8	BC1
HB3-H3 / 2	(2) EB2 (4) EG1 (4) EB2R	64 54 64	128 216 256 600	(4) NB2 (8) NG1 (6) NF6 (4) EB2R	36 34.8 9.2 30	144 278.4 55.2 120 597.6	-2.4	
HA3-ECH2 / 9	(7) EF (1) EF3	85 5	595 15 610	(9) NF (4) NF3	67 3.3	603 13.2 616.2	-6.2	
HA3-ECH2 / 11	(4) EF (1) EF3 (1) EF8	85 5 170	340 5 170 515	(6) NF (4) NF3 (2) NJ	67 3.3 34.1	402 13.2 68.2 483.4	-31.6	BC2
HA3-ECH2 / 1	(1) EA (3) EG1	64 54	64 162 226	(1) NA (3) NG1 (1) ND	18 34.8 17.5	18 107.4 17.5 142.9	-83.1	
HA3-ECH2 / 7	(10) EF	85	850	(11) NF	67	737	-113	
HB3-H3-1	(3) EG1	54	162	(3) NG1	34.8	104.7	-57.3	
HB3-H3 / 3	(13) EB2R	64	832	(13) EB2R	30	390	-442	
HB3-H3 / 4	(1) EF6 (1) EG3 (1) EC5 (4) EB2R	32 26 32 64	32 26 32 256 346	(3) NF6 (1) NG3 (1) NG4 (4) EB2R	9.2 16 24 30	27.6 16 24 120 187.6	-158.4	
HB3-H3 / 6	(7) EB2R	64	448	(7) EB2R (4) NF6	30 9.2	210 36.8 246.8	-201.2	
HA3-ELH2 / 1	(1) EAR	64	64	(1) EAR	30	30	-34	
HA3-ELH2 / 3	(21) EB2R (4) EB3R	64 90	1344 360 1704	(21) EB2R (4) EB3R	30 30	630 120 750	-954	

NOTE #1: REFER TO THE RESPECTIVE PANEL SCHEDULE FOR CIRCUIT LOAD CAPACITY VERIFICATION.

⚠ PHASE 1 • RELOCATE / REMOVE POWER LOAD MATRIX

PANEL / CIRCUIT	REMOVE LOAD: REMOVE	INSTALL / ADD LOAD: INSTALL	NET RESULT	NOTES
HA3-ECL2-7	4 DUPLEX	4 DUPLEX	EVEN	
HA3-ECL2-9	4 DUPLEX	4 DUPLEX	EVEN	
HB3-ECL3-8	4 DUPLEX	4 DUPLEX	EVEN	
HB3-ECL3-10	1 DUPLEX	1 DUPLEX	EVEN	
HA3-ECL3-12	3 DUPLEX	3 DUPLEX	EVEN	
HB3-ECL3-20	4 DUPLEX	4 DUPLEX	EVEN	
HA3-L2-2	2 DUPLEX	2 DUPLEX	EVEN	
HA3-L2-7	2 DUPLEX	2 DUPLEX	EVEN	
HA3-L2-9	1 DUPLEX + 1 JBOX	1 DUPLEX	- 1 JBOX	
HA3-L2-11	2 DUPLEX	2 DUPLEX	EVEN	
HB3-L3-2	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-4	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-6	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-7	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-8	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-10	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-11	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-12	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-13	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-14	3 DUPLEX	3 DUPLEX	EVEN	
HB3-L3-15	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-16	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-17	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-19	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-18	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-21	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-20	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-22	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-23	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-24	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-25	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-26	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-28	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-30	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-33	4 DUPLEX	4 DUPLEX	EVEN	
HB3-L3-43	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-44	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-45	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-46	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-47	1 DUPLEX	1 DUPLEX	EVEN	
HB3-L3-48	1 DUPLEX	1 DUPLEX	EVEN	

⬭ <E> LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION
EA	EXISTING 2 X 4 RECESSED FLUORESCENT TWO LAMP FIXTURE WITH REGRESSED DOOR AND ACRYLIC LENS. 64 INPUT WATTS
EB2	EXISTING 2 X 2 RECESSED FLUORESCENT TWO LAMP FIXTURE WITH REGRESSED DOOR AND ACRYLIC LENS. 64 INPUT WATTS
EC5	EXISTING SURFACE MOUNTED FLUORESCENT FIXTURE WITH LUMINOUS BOWL. 32 INPUT WATTS
EF	EXISTING 4 FOOT LONG, 7 INCH DIAMETER ROTATABLE WALL MOUNTED DIRECT / INDIRECT FLUORESCENT FIXTURE AT PATIENT HEADWALL LOCATION. CAREFULLY REMOVE AND DELIVER TO THE OWNER FOR THEIR USE. EXISTING = 85 INPUT WATTS
EF3	EXISTING FLUSH IN-WALL COMPACT FLUORESCENT NIGHTLIGHT. EXISTING = 5 INPUT WATTS
EF6	EXISTING WALL MOUNT FLUORESCENT SCONCE. EXISTING = 32 INPUT WATTS
EF8	EXISTING 8 FOOT LONG,7 INCH DIAMETER ROTATABLE WALL MOUNTED DIRECT / INDIRECT FLUORESCENT FIXTURE AT PATIENT HEADWALL LOCATION. CAREFULLY REMOVE AND DELIVER TO THE OWNER FOR THEIR USE. EXISTING = 170 INPUT WATTS
EG1	EXISTING RECESSED COMPACT FLUORESCENT DOWNLIGHT EXISTING = 54 INPUT WATTS
EG3	EXISTING COMPACT FLUORESCENT FLUSH IN SHOWER CEILING DOWNLIGHT. EXISTING = 26 INPUT WATTS

⬭ RETROFIT <E> LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION
EAR	EXISTING 2 X 4 RECESSED FLUORESCENT TWO LAMP FIXTURE WITH REGRESSED DOOR AND ACRYLIC LENS. CLEAN FIXTURE INTERIOR AND ALL SURFACES OF THE DOOR AND BOTH SIDES OF THE LENS. REMOVE EXISTING BALLAST(S) WIRING, SOCKETS, ETC. RETROFIT THE EXISTING FIXTURE BODY. 4000K, 120-277VAC, 82 CRI, SET AT 4700 LUMENS. NO CHANGE IN <E> ON-OFF FUNCTION CONTROLLED BY <E> SWITCH. FIXTURES ON LIFE SAFETY BRANCH REMAIN UNSWITCHED. LITETRONICS ##RFM2T440A EXISTING = 64 INPUT WATTS RETROFITTED = 30 INPUT WATTS
EBR	EXISTING 2 X 2 RECESSED FLUORESCENT TWO LAMP FIXTURE WITH DEEP CELL PARABOLIC LOUVERS. CLEAN FIXTURE INTERIOR AND ALL PARABOLIC LOUVER SURFACES. REMOVE EXISTING BALLAST(S) WIRING, SOCKETS, ETC. RETROFIT THE EXISTING FIXTURE BODY. 4000K, 120-277VAC, 82 CRI, SET AT 4700 LUMENS. NO CHANGE IN <E> ON-OFF FUNCTION CONTROLLED BY <E> SWITCH. FIXTURES ON LIFE SAFETY BRANCH REMAIN UNSWITCHED. LITETRONICS ##RFMT3240A EXISTING = 64 INPUT WATTS RETROFITTED = 30 INPUT WATTS
EB2R	EXISTING 2 X 2 RECESSED FLUORESCENT TWO LAMP FIXTURE WITH REGRESSED DOOR AND ACRYLIC LENS. CLEAN FIXTURE INTERIOR AND ALL SURFACES OF THE DOOR AND BOTH SIDES OF THE LENS. REMOVE EXISTING BALLAST(S) WIRING, SOCKETS, ETC. RETROFIT THE EXISTING FIXTURE BODY. 4000K, 120-277VAC, 82 CRI, SET AT 4700 LUMENS. NO CHANGE IN <E> ON-OFF FUNCTION CONTROLLED BY <E> SWITCH. FIXTURES ON LIFE SAFETY BRANCH REMAIN UNSWITCHED. LITETRONICS ##RFMT3240A EXISTING = 64 INPUT WATTS RETROFITTED = 30 INPUT WATTS
EB3R	EXISTING 2 X 2 RECESSED FLUORESCENT THREE LAMP FIXTURE WITH DEEP CELL PARABOLIC LOUVERS. CLEAN FIXTURE INTERIOR AND ALL PARABOLIC LOUVER SURFACES. REMOVE EXISTING BALLAST(S) WIRING, SOCKETS, ETC. RETROFIT THE EXISTING FIXTURE BODY WITH LITETRONICS RETROFIT KIT. 4000K, 120-277VAC, 82 CRI, SET AT 4700 LUMENS. NO CHANGE IN <E> ON-OFF FUNCTION CONTROLLED BY <E> SWITCH. FIXTURES ON LIFE SAFETY BRANCH REMAIN UNSWITCHED. LITETRONICS ##RFMT3240A EXISTING = 90 INPUT WATTS RETROFITTED = 30 INPUT WATTS

⬭ <N> LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION
NA	NEW NOMINAL 3 FOOT LONG INDIVIDUAL MOUNT UNDERCABINET LED FIXTURE, 4,000K COLOR TEMP. MATTE WHITE ANTIMICROBIAL FINISH. KENALL #MAUCLED-I-MW-16L40K-36-VOLTAGE TO SUIT- 18.0 INPUT WATTS WEIGHT = LESS THAN 15 LBS
NB2	NEW 2X2 CEILING RECESSED LED FIXTURE WITH SMOOTH ACRYLIC CURVED CONCAVE LENS. 4000K COLOR TEMP, NOMINAL 4,000 LUMENS. NO PHOTOCELL, NO SENSOR. WIRED N-LITE CONTROL. GENERIC 0-10V DIMMING DRIVER. LITHONIA # ENVX-2X2-HRG-4000LM-80CRI-40K-ZT-VOLTS TO SUIT-NO EM-NIO. SEE CL2.80 A671.2 36 INPUT WATTS WEIGHT = LESS THAN 30 LBS
ND	NEW 6 INCH DIA. LED DOWNLIGHT WITH CLEAR ALZAK CONE. 4000K COLOR TEMP. 0-10V DIMMING DRIVER TO 10%. LITHONIA #LDN6-40/-15-L06-AR-LSS-TRW-VOLTS TO SUIT-GZ10-(NO EM)- 17.5 INPUT WATTS WEIGHT = LESS THAN 20 LBS
NF	NEW 49 INCH LONG DIRECT INDIRECT LED PATIENT BED HEADWALL LIGHT FIXTURE. UPLIGHT (AMBIENT) AND DOWNLIGHT (READING) COMPONENTS SEPARATELY SWITCHED. TOP AND BOTTOM LENSES. ANTIMICROBIAL FOR ALL PAINTED SURFACES. EASY-CLEAN "OLIN LUMICOR" OYSTER COLOR ACRYLIC DIFFUSER FACE AND BLADE SILVER END CAPS. WITH LOW VOLTAGE PATIENT INTERFACE CONTROLLABLE BY PILLOW SPEAKER / NURSE CALL REMOTE. 4000K, 120 VAC. MOUNT AT 6 FEET AFF. VISA LIGHTING #CB1904-L40K-MVOLT-(STANDARD 80CRI)-BSIL-AMC-LVPC-DIM 67 INPUT WATTS
NF3	NEW SURFACE LOW PROFILE VERTICAL ORIENTED RECTANGULAR LED NIGHTLIGHT. NOMINAL 5.6" TALL X 3.7" WIDE X 1.25" DEEP ON FLUSH MOUNT BOX. ANTIMICROBIAL MATTE WHITE FINISH. MOUNT IN LINE WITH RECEPTACLES. 4000K, 277 VAC. KENALL #MCSL-VR-MW-2L40K-MULTI-VOLT- 3.3 INPUT WATTS. WEIGHT = LESS THAN 1 LBS
NF6	NEW WALL MOUNT, NOMINAL 2 FOOT LONG WALL MOUNT LED SCONCE ON WALL ABOVE NEW SINK. SINGLE CIRCUIT. SOLID FACE. 4000K, 120 VAC. NOMINAL 1,035 LUMENS. FINELITE #17-LED-VCF-SF-2 FOOT-BOOSTED-840-VOLTS TO SUIT-SC 9.2 INPUT WATTS. WEIGHT = LESS THAN 20 LBS
NG1	NEW 6 INCH DIA. LED DOWNLIGHT WITH CLEAR ALZAK CONE. 4000K COLOR TEMP. 0-10V DIMMING DRIVER TO 10%. NOMINAL 3000 LUMEN. LITHONIA #LDN6-40/-30-L06-AR-LSS-TRW-VOLTS TO SUIT-GZ10-(NO EM)- 34.8 INPUT WATTS WEIGHT = LESS THAN 20 LBS
NG3	NEW CEILING SURFACE MOUNT DAMP LOCATION FIXTURE WITH NOMINAL 11 INCH DIA X 3 INCH TALL MILK WHITE ACRYLIC DIFFUSER. 1100 LUMENS. 4000K, 120 VAC. LITHONIA #FMLRL-11-148-40 16 INPUT WATTS WEIGHT = LESS THAN 20 LBS
NG4	NEW CEILING SURFACE MOUNT DAMP LOCATION FIXTURE WITH NOMINAL 14 INCH DIA X 3.25 INCH TALL MILK WHITE ACRYLIC DIFFUSER. 1600 LUMENS. 4000K, 120 VAC. LITHONIA #FMLRL-14-208-40 24 INPUT WATTS WEIGHT = LESS THAN 20 LBS
NH	NEW 2X4 LED LAY-IN FIXTURE. 4000K COLOR TEMP. ACRYLIC PRISMATIC LENS. NOMINAL 4500 LUMENS. LITHONIA #2GTL4-4400LM-LP840-VOLTAGE TO SUIT (CI-237C2A) SEE CL2.80 A671.2 34.1 INPUT WATTS. WEIGHT = LESS THAN 30 LBS
NJ	NEW 2X4 LED SURFACE MOUNT FIXTURE. 4000K COLOR TEMP. ACRYLIC PRISMATIC LENS. NOMINAL 4500 LUMENS. LITHONIA #2GTL4-4400LM-LP840-VOLTAGE TO SUIT (CI-237C2A) WITH SURFACE MOUNT KIT. 34.1 INPUT WATTS. BC1

Int • Elect Engineering Incorporated
1487 Finch Lane
Gilroy, California 95020
(408) 846-7171
Project No. 22110 © 2024

*** READ THE SPECIFICATIONS !**

READ THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. IN CASE OR CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE RESTRICTIVE REQUIREMENTS SHALL TAKE PRECEDENCE.

THIS DRAWING AND THE DESIGN HEREON ARE INTENDED FOR THIS ONE SPECIFIC PROJECT ONLY. ANY USE OR RE-USE BEYOND THIS ONE PROJECT IS THE SOLE RESPONSIBILITY OF THE USER.

ALTHOUGH A "SCALE" MAY BE INDICATED, THE INFORMATION ON THIS DRAWING IS APPROXIMATE AND DIAGRAMMATIC ONLY, AND SHALL NOT BE SCALED TO OBTAIN DISTANCES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THE INTENT AND USE OF THESE DRAWINGS.

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER: S240593-27-00
HCAI FACILITY ID: 17353

KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S2400593-27-00
Russell Rocker

HCAI APPROVAL

REGISTERED PROFESSIONAL ENGINEER JOHAN PERSSON No. E 19560 Exp. 6-30-25 ELECTRICAL STATE OF CALIFORNIA
03/11/25

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024
BC2	BACKCHECK#2	03/14/2025

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

REMOVE LOAD MATRIX & LTG FIXTURE SCHEDULES

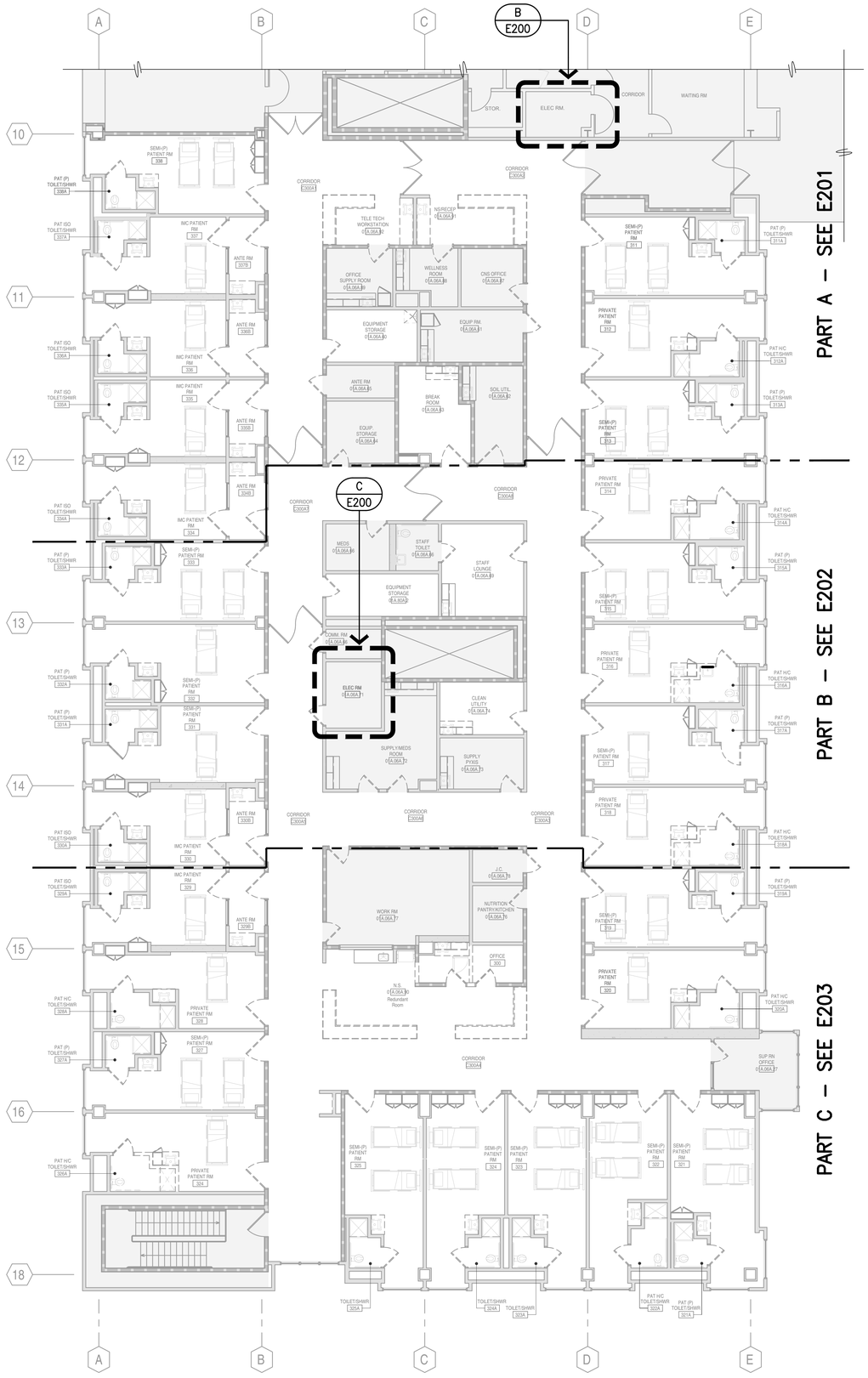
DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

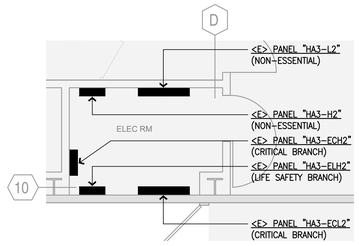
E104

CONSTRUCTION DOCUMENT

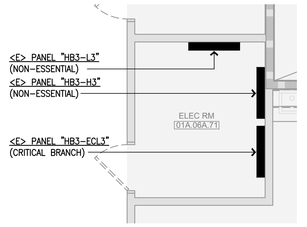
© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.



A THIRD FLOOR OVERALL LIGHTING PLAN (<E> CONDITION SHOWN)
SCALE: 1/8" = 1'-0"



B ELECTRICAL ROOM
SCALE: 1/4" = 1'-0"



C ELECTRICAL ROOM
SCALE: 1/4" = 1'-0"

SHEET NOTES

(NONE).

CONSTRUCTION PLAN LEGEND

SEE A010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

	(E) CONSTRUCTION TO REMAIN	
	(N) CONSTRUCTION	
	TEMPORARY CONSTRUCTION	

ASSEMBLY RATING

0	ZERO HOUR
1	ONE HOUR RATED
2	TWO HOUR RATED
3	THREE HOUR RATED
4	FOUR HOUR RATED

TYPE OF ASSEMBLY

W	FIRE WALL	S	SMOKE BARRIER
B	FIRE BARRIER	SP	SMOKE PARTITIONS
P	FIRE PARTITION	ST	RESIST PASSAGE OF SMOKE
E	EXISTING AND RATED		

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

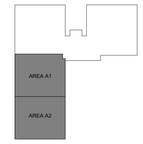
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

04/23/24

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

Int e Elect Engineering Incorporated
1487 Finch Lane
Gilroy, California 95020
(408) 846-7171
Project No. 22110

© 2024

*** READ THE SPECIFICATIONS !**

READ THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. IN CASE OF CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE RESTRICTIVE REQUIREMENTS SHALL TAKE PRECEDENCE.

THIS DRAWING AND THE DESIGN HEREON ARE INTENDED FOR THIS ONE SPECIFIC PROJECT ONLY. ANY USE OR RE-USE BEYOND THIS ONE PROJECT IS THE SOLE RESPONSIBILITY OF THE USER.

ALTHOUGH A "SCALE" MAY BE INDICATED, THE INFORMATION ON THIS DRAWING IS APPROXIMATE AND DIAGRAMMATIC ONLY, AND SHALL NOT BE SCALED TO OBTAIN DISTANCES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THE INTENT AND USE OF THESE DRAWINGS.

OVERALL LIGHTING PLAN

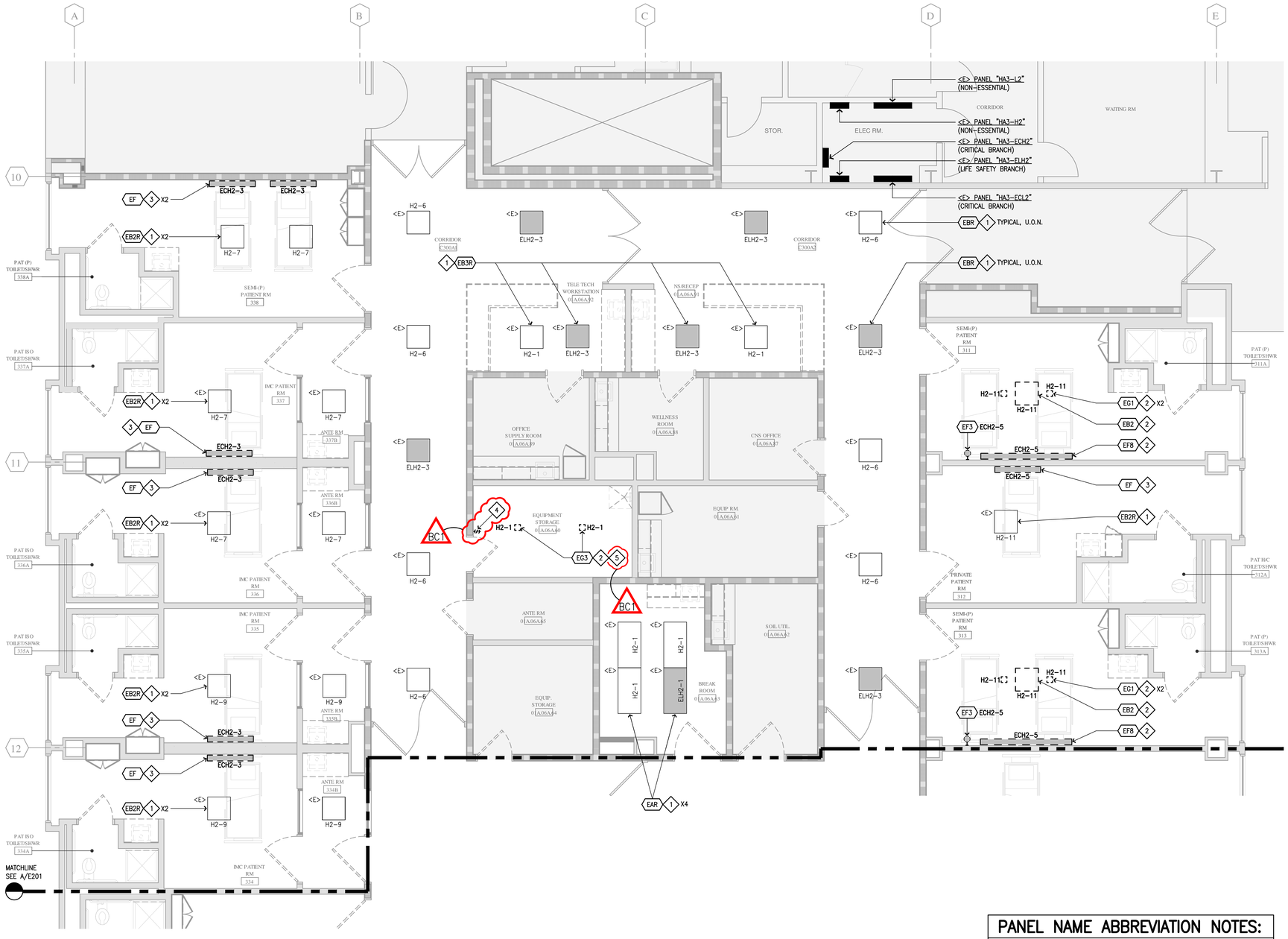
DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

E200

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.



A LIGHTING DEMOLITION PLAN – PART A

SCALE: 1/4" = 1'-0"

SHEET NOTES

1. RETROFIT EXISTING FLUORESCENT FIXTURE WITH NEW LED LAMPS. EXISTING LIGHTING CONTROLS SHALL REMAIN AS-IS. REFER TO THE 'RETROFIT <E> LIGHT FIXTURE SCHEDULE' FOR ADDITIONAL INFORMATION.
2. REMOVE EXISTING LIGHT FIXTURE AND ASSOCIATED OUTLET BOX. REMOVE EXISTING ASSOCIATED CONDUIT AND CONDUCTORS BACK TO LAST REMAINING ACTIVE OUTLET DEVICE AND OR SOURCE PANEL. REFER TO THE NEW WORK LIGHTING PLAN FOR NEW WORK (ADDING FIXTURES).
3. REMOVE EXISTING LIGHT FIXTURE AND ASSOCIATED OUTLET BOX. REMOVE EXISTING ASSOCIATED CONDUIT AND CONDUCTORS BACK AS REQUIRED TO ALLOW FOR NEW LIGHT FIXTURE OUTLET BOX. REFER TO THE NEW WORK LIGHTING PLAN FOR NEW WORK (REPLACEMENT LIGHT FIXTURE).
4. FURNISH AND INSTALL EXTENSION RING TO FACILITATE ADDED LAYER OF GYP. BOARD.
5. CEILING IS BEING CONVERTED TO GYP-BOARD. RECONFIGURE ABOVE CEILING CONDUIT AND BOXES AS MAY BE REQUIRED TO FACILITATE THE CEILING WORK.

BC1

NOTES:

1. COORDINATE AND PROVIDE ALL ELECTRICAL DEMOLITION REQUIRED TO ALLOW FOR THE REMOVAL OF WALLS, ETC. WITH ALL OTHER TRADES.
2. REFER TO DEMOLITION NOTES PORTION OF THE GENERAL NOTES. REFER TO NEW WORK PLANS FOR ADDITIONAL INFORMATION.

CONSTRUCTION PLAN LEGEND

SEE A010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

	(E) CONSTRUCTION TO REMAIN
	(N) CONSTRUCTION
	TEMPORARY CONSTRUCTION

ASSEMBLY RATING

0	ZERO HOUR
1	ONE HOUR RATED
2	TWO HOUR RATED
3	THREE HOUR RATED
4	FOUR HOUR RATED

TYPE OF ASSEMBLY

W	FIRE WALL	S	SMOKE BARRIER
B	FIRE BARRIER	SP	SMOKE PARTITIONS
P	FIRE PARTITION	ST	RESIST PASSAGE OF SMOKE
E	EXISTING AND RATED		

PANEL NAME ABBREVIATION NOTES:

ABBREVIATION:	UNLESS OTHERWISE NOTED, THE FULL NAME IS:
"H2"	"HA3-H2"
"L2"	"HA3-L2"
"ECH2"	"HA3-ECH2"
"ECL2"	"HA3-ECL2"
"ELH2"	"HA3-ELH2"
"H3"	"HB3-H3"
"L3"	"HB3-L3"
"ECL3"	"HB3-ECL3"

Int • Elect Engineering Incorporated
1487 Finch Lane
Gilroy, California 95020
(408) 846-7171

Project No. 22110

© 2024

* READ THE SPECIFICATIONS !

READ THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. IN CASE OF CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE RESTRICTIVE REQUIREMENTS SHALL TAKE PRECEDENCE.

THIS DRAWING AND THE DESIGN HEREON ARE INTENDED FOR THIS ONE SPECIFIC PROJECT ONLY. ANY USE OR RE-USE BEYOND THIS ONE PROJECT IS THE SOLE RESPONSIBILITY OF THE USER.

ALTHOUGH A "SCALE" MAY BE INDICATED, THE INFORMATION ON THIS DRAWING IS APPROXIMATE AND DIAGRAMMATIC ONLY, AND SHALL NOT BE SCALED TO OBTAIN DISTANCES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THE INTENT AND USE OF THESE DRAWINGS.

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

Natividad MEDICAL CENTER

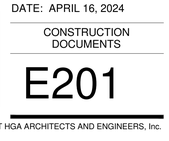
NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER: S240593-27-00
HCAI FACILITY ID: 17353

KEYPLAN



REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

12/04/24

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

LIGHTING DEMOLITION PLAN - PART A

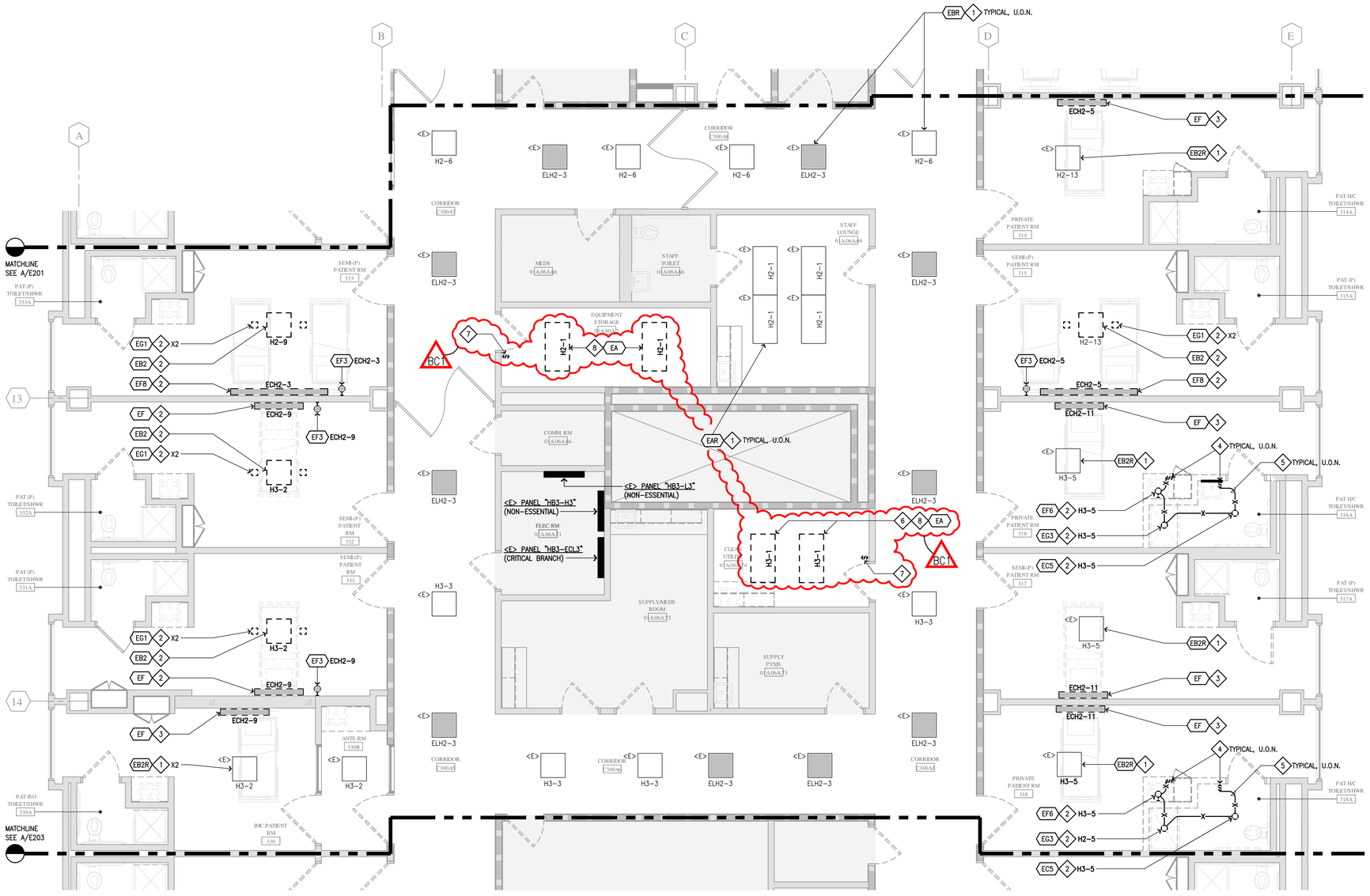
DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

E201

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.



SHEET NOTES

1. RETROFIT EXISTING FLUORESCENT FIXTURE WITH NEW LED LAMPS. EXISTING LIGHTING CONTROLS SHALL REMAIN AS-IS. REFER TO THE "RETROFIT <E> LIGHT FIXTURE SCHEDULE" FOR ADDITIONAL INFORMATION.
2. REMOVE EXISTING LIGHT FIXTURE AND ASSOCIATED OUTLET BOX. REMOVE EXISTING ASSOCIATED CONDUIT AND CONDUCTORS BACK TO LAST REMAINING ACTIVE OUTLET DEVICE AND OR SOURCE PANEL. REFER TO THE NEW WORK LIGHTING PLAN FOR NEW WORK (ADDING FIXTURES).
3. REMOVE EXISTING LIGHT FIXTURE AND ASSOCIATED OUTLET BOX. REMOVE EXISTING ASSOCIATED CONDUIT AND CONDUCTORS BACK AS REQUIRED TO ALLOW FOR NEW LIGHT FIXTURE OUTLET BOX. REFER TO THE NEW WORK LIGHTING PLAN FOR NEW WORK (REPLACEMENT LIGHT FIXTURE).
4. REMOVE EXISTING DEVICE AND ASSOCIATED OUTLET BOX. REMOVE EXISTING ASSOCIATED CONDUIT AND CONDUCTORS BACK TO LAST REMAINING ACTIVE OUTLET DEVICE AND OR SOURCE PANEL.
5. REMOVE EXISTING CONDUIT AND CONDUCTORS. NOT ALL SHOWN AND NOT ALL SHOWN WITH THIS SHEET NOTE TAG.
6. DISCONNECT FROM EXISTING CIRCUIT. REFER TO E205 FOR NEW CIRCUIT AND ADDITIONAL INFORMATION.
7. FURNISH AND INSTALL EXTENSION RING TO FACILITATE ADDED LAYER OF GYP. BOARD.
8. CEILING IS BEING CONVERTED TO GYP-BOARD. RECONFIGURE ABOVE CEILING CONDUIT AND BOXES AS MAY BE REQUIRED TO FACILITATE THE CEILING WORK.

BC1

NOTES:

1. COORDINATE AND PROVIDE ALL ELECTRICAL DEMOLITION REQUIRED TO ALLOW FOR THE REMOVAL OF WALLS, ETC. WITH ALL OTHER TRADES.
2. REFER TO DEMOLITION NOTES PORTION OF THE GENERAL NOTES. REFER TO NEW WORK PLANS FOR ADDITIONAL INFORMATION.

CONSTRUCTION PLAN LEGEND

SEE A010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

	(E) CONSTRUCTION TO REMAIN	
	(N) CONSTRUCTION	
	TEMPORARY CONSTRUCTION	

ASSEMBLY RATING

0	ZERO HOUR
1	ONE HOUR RATED
2	TWO HOUR RATED
3	THREE HOUR RATED
4	FOUR HOUR RATED

TYPE OF ASSEMBLY

W	FIRE WALL	S	SMOKE BARRIER
B	FIRE BARRIER	SP	SMOKE PARTITIONS
P	FIRE PARTITION	ST	RESIST PASSAGE OF SMOKE
E	EXISTING AND RATED		

PANEL NAME ABBREVIATION NOTES:

ABBREVIATION:	UNLESS OTHERWISE NOTED, THE FULL NAME IS:
"H2"	"HA3-H2"
"L2"	"HA3-L2"
"ECH2"	"HA3-ECH2"
"ECL2"	"HA3-ECL2"
"ELH2"	"HA3-ELH2"
"H3"	"HB3-H3"
"L3"	"HB3-L3"
"ECL3"	"HB3-ECL3"

Int • Elect Engineering Incorporated
1487 Finch Lane
Gilroy, California 95020
(408) 846-7171

Project No. 22110

© 2024

* READ THE SPECIFICATIONS !

READ THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. IN CASE OF CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE RESTRICTIVE REQUIREMENTS SHALL TAKE PRECEDENCE.

THIS DRAWING AND THE DESIGN HEREON ARE INTENDED FOR THIS ONE SPECIFIC PROJECT ONLY. ANY USE OR RE-USE BEYOND THIS ONE PROJECT IS THE SOLE RESPONSIBILITY OF THE USER.

ALTHOUGH A "SCALE" MAY BE INDICATED, THE INFORMATION ON THIS DRAWING IS APPROXIMATE AND DIAGRAMMATIC ONLY, AND SHALL NOT BE SCALED TO OBTAIN DISTANCES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THE INTENT AND USE OF THESE DRAWINGS.

A LIGHTING DEMOLITION PLAN – PART B
SCALE: 1/4" = 1'-0"

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

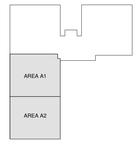
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER: S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 P.M.
S240593-27-00
Russell Rocker

HCAI APPROVAL

12/04/24

AGENCY APPROVAL

△NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

LIGHTING DEMOLITION PLAN - PART B

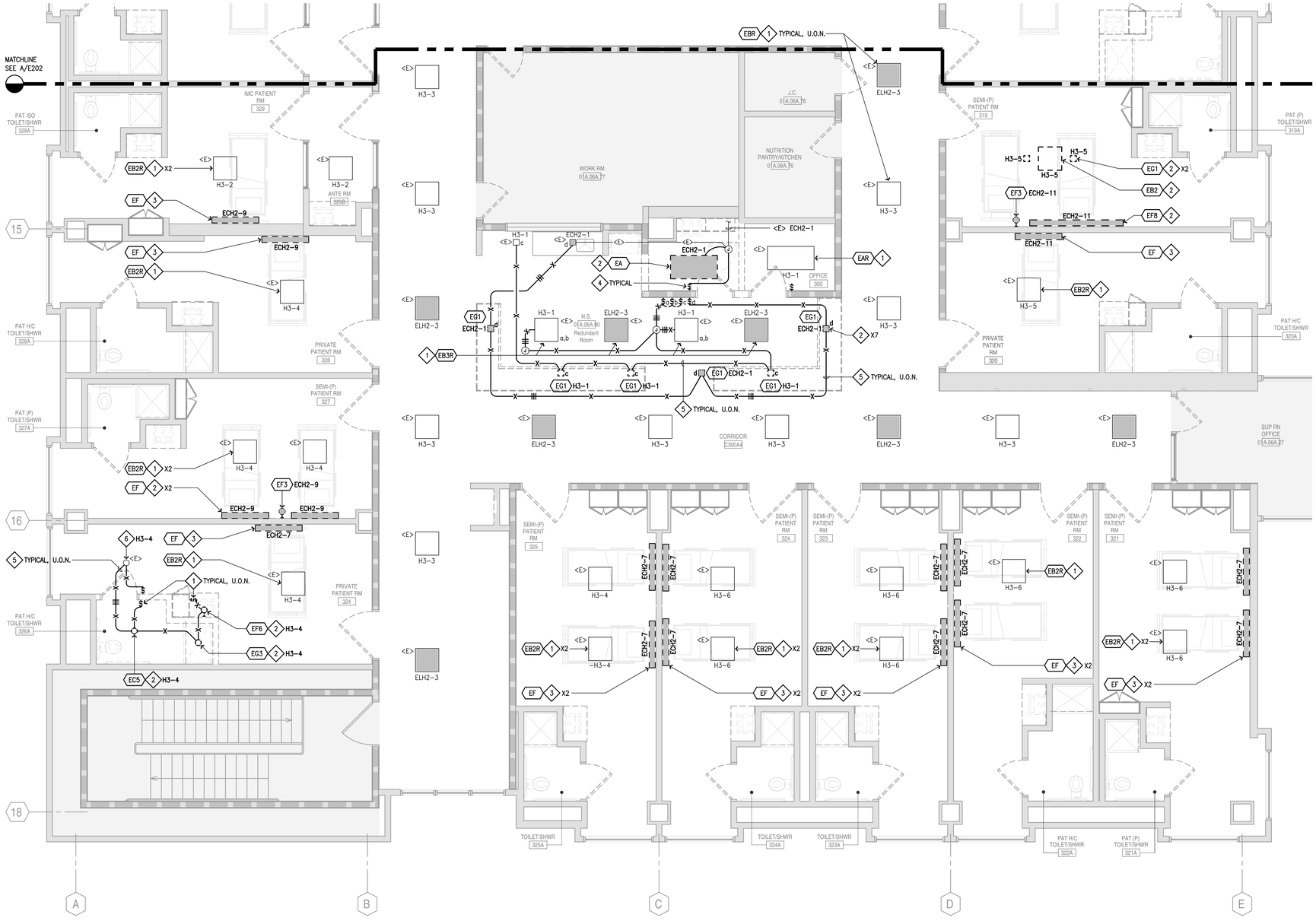
DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

E202

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.



SHEET NOTES

1. RETROFIT EXISTING FLUORESCENT FIXTURE WITH NEW LED LAMPS. EXISTING LIGHTING CONTROLS SHALL REMAIN AS-IS. REFER TO THE "RETROFIT <E> LIGHT FIXTURE SCHEDULE" FOR ADDITIONAL INFORMATION.
2. REMOVE EXISTING LIGHT FIXTURE AND ASSOCIATED OUTLET BOX. REMOVE EXISTING ASSOCIATED CONDUIT AND CONDUCTORS BACK TO LAST REMAINING ACTIVE OUTLET DEVICE AND OR SOURCE PANEL. REFER TO THE NEW WORK LIGHTING PLAN FOR NEW WORK (ADDING FIXTURES).
3. REMOVE EXISTING LIGHT FIXTURE AND ASSOCIATED OUTLET BOX. REMOVE EXISTING ASSOCIATED CONDUIT AND CONDUCTORS BACK AS REQUIRED TO ALLOW FOR NEW LIGHT FIXTURE OUTLET BOX. REFER TO THE NEW WORK LIGHTING PLAN FOR NEW WORK (REPLACEMENT LIGHT FIXTURE).
4. REMOVE EXISTING DEVICE AND ASSOCIATED OUTLET BOX. REMOVE EXISTING ASSOCIATED CONDUIT AND CONDUCTORS BACK TO LAST REMAINING ACTIVE OUTLET DEVICE AND OR SOURCE PANEL.
5. REMOVE EXISTING CONDUIT AND CONDUCTORS. NOT ALL SHOWN AND NOT ALL SHOWN WITH THIS SHEET NOTE TAG.
6. DISCONNECT WIRING SYSTEM FROM EXISTING FIXTURE. SEE THE RESPECTIVE "LIGHTING PLAN" FOR NEW WORK AT THIS LOCATION.
7. EXISTING WIRING SYSTEM REMAINING. NOT ALL SHOWN AND NOT LIMITED TO THOSE SHOWN WITH THIS SHEET NOTE.

NOTES:

1. COORDINATE AND PROVIDE ALL ELECTRICAL DEMOLITION REQUIRED TO ALLOW FOR THE REMOVAL OF WALLS, ETC. WITH ALL OTHER TRADES.
2. REFER TO DEMOLITION NOTES PORTION OF THE GENERAL NOTES. REFER TO NEW WORK PLANS FOR ADDITIONAL INFORMATION.

CONSTRUCTION PLAN LEGEND

SEE A010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

(E) CONSTRUCTION TO REMAIN	
(N) CONSTRUCTION	
TEMPORARY CONSTRUCTION	

ASSEMBLY RATING

0	ZERO HOUR
1	ONE HOUR RATED
2	TWO HOUR RATED
3	THREE HOUR RATED
4	FOUR HOUR RATED

TYPE OF ASSEMBLY

W	FIRE WALL	S	SMOKE BARRIER
B	FIRE BARRIER	SP	SMOKE PARTITIONS
P	FIRE PARTITION	ST	RESIST PASSAGE OF SMOKE
E	EXISTING AND RATED		

PANEL NAME ABBREVIATION NOTES:

ABBREVIATION:	UNLESS OTHERWISE NOTED, THE FULL NAME IS:
"H2"	"HA3-H2"
"L2"	"HA3-L2"
"ECH2"	"HA3-ECH2"
"ECL2"	"HA3-ECL2"
"ELH2"	"HA3-ELH2"
"H3"	"HB3-H3"
"L3"	"HB3-L3"
"ECL3"	"HB3-ECL3"

Int • Elect Engineering Incorporated
1487 Finch Lane
Gilroy, California 95020
(408) 846-7171
Project No. 22110

© 2024

*** READ THE SPECIFICATIONS !**

READ THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. IN CASE OR CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE RESTRICTIVE REQUIREMENTS SHALL TAKE PRECEDENCE.

THIS DRAWING AND THE DESIGN HEREON ARE INTENDED FOR THIS ONE SPECIFIC PROJECT ONLY. ANY USE OR RE-USE BEYOND THIS ONE PROJECT IS THE SOLE RESPONSIBILITY OF THE USER.

ALTHOUGH A "SCALE" MAY BE INDICATED, THE INFORMATION ON THIS DRAWING IS APPROXIMATE AND DIAGRAMMATIC ONLY, AND SHALL NOT BE SCALED TO OBTAIN DISTANCES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THE INTENT AND USE OF THESE DRAWINGS.

A LIGHTING DEMOLITION PLAN – PART C

SCALE: 1/4" = 1'-0"

N

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

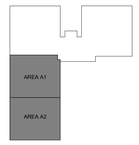
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER: S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

REGISTERED PROFESSIONAL ENGINEER — BRIAN PERRY — No. E 19566 — Exp. 6-30-25 — ELECTRICAL — STATE OF CALIFORNIA
04/23/24

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

LIGHTING DEMOLITION PLAN - PART C

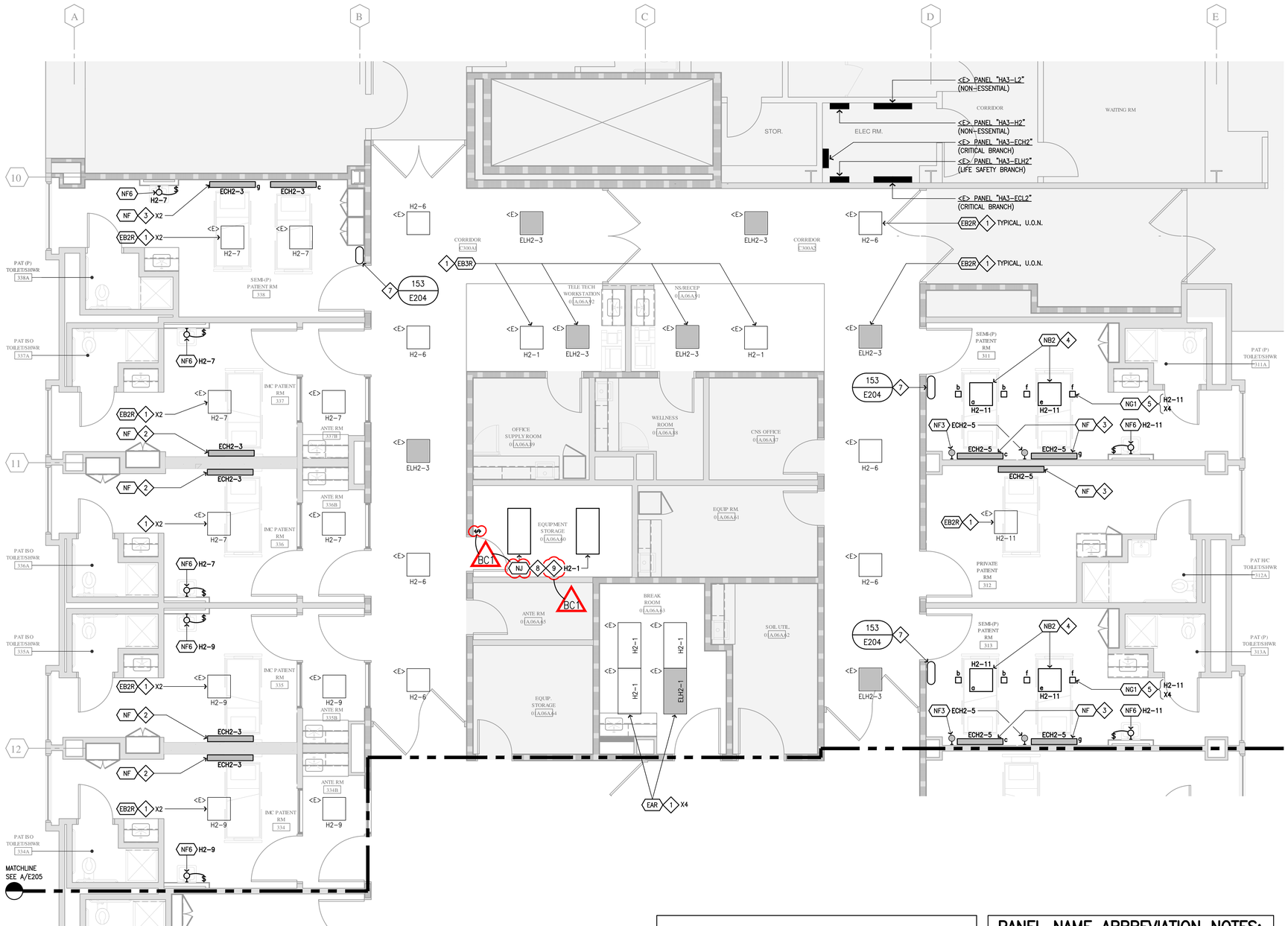
DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

E203

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.



$_c$ $_b$ $_c$ $_d$

$_e$ $_f$ $_g$ $_h$

<E> SWITCHES:
a = <E> 2X2
b = <E> DOWNLIGHTS
c = <E> HEADWALL LIGHT (CRITICAL BRANCH)
d = <E> NIGHTLIGHT

<N> SWITCHES:
e = <N> 2X2
f = <N> DOWNLIGHTS
g = <N> HEADWALL LIGHT (CRITICAL BRANCH)
h = <N> NIGHTLIGHT

153 PATIENT ROOM / BED SWITCHES
SCALE: N.T.S.

PANEL NAME ABBREVIATION NOTES:

ABBREVIATION:	UNLESS OTHERWISE NOTED, THE FULL NAME IS:
"H2"	"HA3-H2"
"L2"	"HA3-L2"
"ECH2"	"HA3-ECH2"
"ECL2"	"HA3-ECL2"
"ELH2"	"HA3-ELH2"
"H3"	"HB3-H3"
"L3"	"HB3-L3"
"ECL3"	"HB3-ECL3"

A LIGHTING PLAN – PART A
SCALE: 1/4" = 1'-0"

SHEET NOTES

1. EXISTING FIXTURE RETROFITTED WITH LED LAMPS REMAINING AS-IS ON THE EXISTING SWITCH(ES). EXISTING LIGHTING CONTROLS SHALL REMAIN AS-IS. REFER TO THE "RELOCATED / REMOVED LIGHTING LOAD MATRIX" ON E104.
2. NEW LED HEADWALL FIXTURE REPLACES EXISTING HEADWALL FIXTURE ON THE SAME CIRCUIT. REFER TO THE RESPECTIVE "RELOCATED / REMOVED LIGHTING LOAD MATRIX" ON E104.
3. NEW LED HEADWALL FIXTURE FOR PRIVATE ROOM TO SEMI-PRIVATE ROOM CONVERSION ON THE SAME CIRCUIT AS THE EXISTING (REMOVED) HEADWALL FIXTURE. REFER TO THE RESPECTIVE "RELOCATED / REMOVED LIGHTING LOAD MATRIX" ON E104.
4. NEW 2X2 LED CEILING FIXTURE FOR PRIVATE ROOM TO SEMI-PRIVATE ROOM CONVERSION ON THE SAME CIRCUIT AS THE EXISTING (REMOVED) CEILING 2X2 HEADWALL FIXTURE. REFER TO THE RESPECTIVE "RELOCATED / REMOVED LIGHTING LOAD MATRIX" ON E104.
5. NEW CEILING LED DOWNLIGHT FIXTURE FOR PRIVATE ROOM TO SEMI-PRIVATE ROOM CONVERSION ON THE SAME CIRCUIT AS THE EXISTING (REMOVED) CEILING 2X2 HEADWALL FIXTURE. REFER TO THE RESPECTIVE "RELOCATED / REMOVED LIGHTING LOAD MATRIX" ON E104.
6. (NOT USED).
7. GROUP OF NEW FLUSH IN WALL SWITCHES.
8. CONNECT TO BE CONTROLLED BY THE EXISTING WALL SWITCH ON THE EXISTING CIRCUIT.
9. CEILING IS BEING CONVERTED TO GYP-BOARD. RECONFIGURE ABOVE CEILING CONDUIT AND BOXES AS MAY BE REQUIRED TO FACILITATE THE CEILING WORK. BC1

LIGHTING CIRCUITING NOTES:

1. ALL NEW LIGHT FIXTURES ON THIS PLAN SHALL BE CONNECTED TO EXISTING BRANCH CIRCUITS IN THE SAME ROOM. LIGHTS ARE NOTED / IDENTIFIED WITH PANEL AND CIRCUIT NUMBER.

   NOTE: INDIVIDUAL CIRCUIT LOAD VERIFICATION IS ON THE "RELOCATED / REMOVED LIGHTING LOAD MATRIX" ON SHEET #E103. PANEL LOAD VERIFICATION IS SHOWN UNDER THE RESPECTIVE PANEL SCHEDULE.
2. EVERY SECTION OF THE CONDUIT / WIRING SYSTEM HAS NOT BEEN SHOWN. THE CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT CONDUITS WITH CONDUCTORS (+ GROUND WIRES) IN ACCORDANCE WITH CODE AND THESE NOTES TO "CONNECT THE DOTS" AND COMPLETE THE ROUTING OF BRANCH CIRCUITS TO PLACE ALL LOADS INTO AND/OR BACK INTO SERVICE.
3. LINE VOLTAGE (120 VAC) WIRING SHALL BE MINIMUM #12 AWG INDIVIDUAL INSULATED CU CONDUCTORS, PLUS A MINIMUM #12 AWG GROUND WIRE, WITH THHN / THWN, 600 VAC INSULATION INSTALLED IN MINIMUM 0.75 INCH CONDUIT U.O.N.
4. UNLESS SPECIFICALLY DIRECTED BY THESE DRAWINGS – DO NOT RUN MORE THAN 3 PHASE CONDUCTORS (A, B, C) + 1 NEUTRAL AND 1 GROUND IN A CONDUIT.
5. MARK THE CIRCUITING / CONDUITS / CONDUCTORS "CONNECTING THE DOTS" ON THE RECORD DRAWINGS.

NOTES:

1. ALL CONDUITS SHALL BE 0.75 INCH, U.O.N.
2. ALL MATERIALS AND WORK SHOWN ON THIS SHEET SHALL BE NEW UNLESS OTHERWISE NOTED OR INDICATED.
3. VERIFY EXACT DEVICE, OUTLET, FIXTURE, SURFACE AND EXPOSED RACEWAY LOCATIONS WITH THE ARCHITECT PRIOR TO COMMENCEMENT OF THE WORK.

CONSTRUCTION PLAN LEGEND

SEE A010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

	(E) CONSTRUCTION TO REMAIN
	(N) CONSTRUCTION
	TEMPORARY CONSTRUCTION

ASSEMBLY RATING

0	ZERO HOUR
1	ONE HOUR RATED
2	TWO HOUR RATED
3	THREE HOUR RATED
4	FOUR HOUR RATED

TYPE OF ASSEMBLY

W	FIRE WALL	S	SMOKE BARRIER
B	FIRE BARRIER	SP	SMOKE PARTITIONS
P	FIRE PARTITION	ST	RESIST PASSAGE OF SMOKE
E	EXISTING AND RATED		

Int • Elect Engineering Incorporated
1487 Finch Lane
Gilroy, California 95020
(408) 846-7171
Project No. 22110

© 2024

* READ THE SPECIFICATIONS !

READ THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. IN CASE OF CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE RESTRICTIVE REQUIREMENTS SHALL TAKE PRECEDENCE.

THIS DRAWING AND THE DESIGN HEREON ARE INTENDED FOR THIS ONE SPECIFIC PROJECT ONLY. ANY USE OR RE-USE BEYOND THIS ONE PROJECT IS THE SOLE RESPONSIBILITY OF THE USER.

ALTHOUGH A "SCALE" MAY BE INDICATED, THE INFORMATION ON THIS DRAWING IS APPROXIMATE AND DIAGRAMMATIC ONLY, AND SHALL NOT BE SCALED TO OBTAIN DISTANCES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THE INTENT AND USE OF THESE DRAWINGS.

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

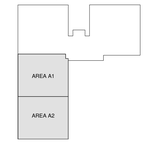
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER: S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

REGISTERED PROFESSIONAL ENGINEER
REMAN PEARL
No. E 19566
Exp. 6-30-25
ELECTRICAL
STATE OF CALIFORNIA
12/04/24

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

LIGHTING PLAN - PART A

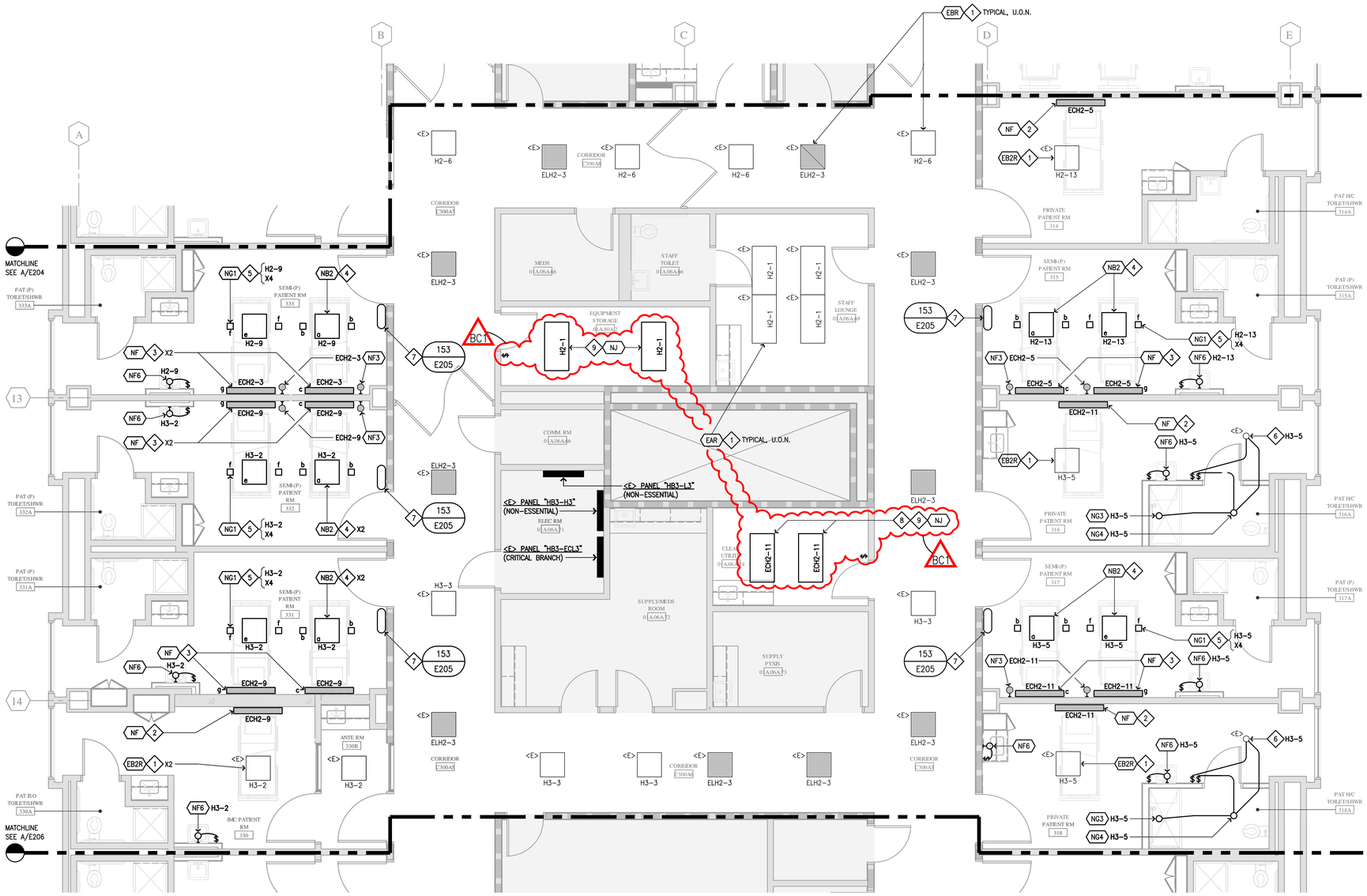
DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

E204

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.



SHEET NOTES

1. EXISTING FIXTURE RETROFITTED WITH LED LAMPS REMAINING AS-IS ON THE EXISTING SWITCH(ES). EXISTING LIGHTING CONTROLS SHALL REMAIN AS-IS. REFER TO THE "RELOCATED / REMOVED LIGHTING LOAD MATRIX" ON E104.
2. NEW LED HEADWALL FIXTURE REPLACES EXISTING HEADWALL FIXTURE ON THE SAME CIRCUIT. REFER TO THE RESPECTIVE "RELOCATED / REMOVED LIGHTING LOAD MATRIX" ON E104.
3. NEW LED HEADWALL FIXTURE FOR PRIVATE ROOM TO SEMI-PRIVATE ROOM CONVERSION ON THE SAME CIRCUIT AS THE EXISTING (REMOVED) HEADWALL FIXTURE. REFER TO THE RESPECTIVE "RELOCATED / REMOVED LIGHTING LOAD MATRIX" ON E104.
4. NEW 2X2 LED CEILING FIXTURE FOR PRIVATE ROOM TO SEMI-PRIVATE ROOM CONVERSION ON THE SAME CIRCUIT AS THE EXISTING (REMOVED) CEILING 2X2 HEADWALL FIXTURE. REFER TO THE RESPECTIVE "RELOCATED / REMOVED LIGHTING LOAD MATRIX" ON E104.
5. NEW CEILING LED DOWNLIGHT FIXTURE FOR PRIVATE ROOM TO SEMI-PRIVATE ROOM CONVERSION ON THE SAME CIRCUIT AS THE EXISTING (REMOVED) CEILING 2X2 HEADWALL FIXTURE. REFER TO THE RESPECTIVE "RELOCATED / REMOVED LIGHTING LOAD MATRIX" ON E104.
6. CONNECT NEW CONDUIT AND CONDUCTORS.
7. GROUP OF NEW FLUSH IN WALL SWITCHES.
8. CONNECT FIXTURE TO PANEL HA3-H2 (CRITICAL BRANCH) CIRCUIT #1 VIA NEW WIRING SYSTEM (FROM NEARBY STAFF LOUNGE TO THE NORTH). NEW CIRCUIT SHALL NOT SHARE BOX OR CONDUIT WITH OTHER CIRCUITS. THE EXISTING WALL CONTROL SHALL CONTROL THE LIGHTS ON THE NEW CIRCUIT NOTED.
9. CEILING IS BEING CONVERTED TO GYP-BOARD. RECONFIGURE ABOVE CEILING CONDUIT AND BOXES AS MAY BE REQUIRED TO FACILITATE THE CEILING WORK.

BC1

LIGHTING CIRCUITING NOTES:

1. ALL NEW LIGHT FIXTURES ON THIS PLAN SHALL BE CONNECTED TO EXISTING BRANCH CIRCUITS IN THE SAME ROOM. LIGHTS ARE NOTED / IDENTIFIED WITH PANEL AND CIRCUIT NUMBER.

   NOTE: INDIVIDUAL CIRCUIT LOAD VERIFICATION IS ON THE "RELOCATED / REMOVED LIGHTING LOAD MATRIX" ON SHEET #E103. PANEL LOAD VERIFICATION IS SHOWN UNDER THE RESPECTIVE PANEL SCHEDULE.
2. EVERY SECTION OF THE CONDUIT / WIRING SYSTEM HAS NOT BEEN SHOWN. THE CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT CONDUITS WITH CONDUCTORS (+ GROUND WIRES) IN ACCORDANCE WITH CODE AND THESE NOTES TO "CONNECT THE DOTS' AND COMPLETE THE ROUTING OF BRANCH CIRCUITS TO PLACE ALL LOADS INTO AND/OR BACK INTO SERVICE.
3. LINE VOLTAGE (120 VAC) WIRING SHALL BE MINIMUM #12 AWG INDIVIDUAL INSULATED CU CONDUCTORS, PLUS A MINIMUM #12 AWG GROUND WIRE, WITH THHN / THWN, 600 VAC INSULATION INSTALLED IN MINIMUM 0.75 INCH CONDUIT U.O.N.
4. UNLESS SPECIFICALLY DIRECTED BY THESE DRAWINGS – DO NOT RUN MORE THAN 3 PHASE CONDUCTORS (A, B, C) + 1 NEUTRAL AND 1 GROUND IN A CONDUIT.
5. MARK THE CIRCUITING / CONDUITS / CONDUCTORS "CONNECTING THE DOTS" ON THE RECORD DRAWINGS.

NOTES:

1. ALL CONDUITS SHALL BE 0.75 INCH, U.O.N.
2. ALL MATERIALS AND WORK SHOWN ON THIS SHEET SHALL BE NEW UNLESS OTHERWISE NOTED OR INDICATED.
3. VERIFY EXACT DEVICE, OUTLET, FIXTURE, SURFACE AND EXPOSED RACEWAY LOCATIONS WITH THE ARCHITECT PRIOR TO COMMENCEMENT OF THE WORK.

CONSTRUCTION PLAN LEGEND

SEE A010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

(E) CONSTRUCTION TO REMAIN	
(N) CONSTRUCTION	
TEMPORARY CONSTRUCTION	

ASSEMBLY RATING

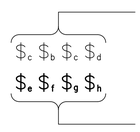
0	ZERO HOUR
1	ONE HOUR RATED
2	TWO HOUR RATED
3	THREE HOUR RATED
4	FOUR HOUR RATED

TYPE OF ASSEMBLY

W	FIRE WALL	S	SMOKE BARRIER
B	FIRE BARRIER	SP	SMOKE PARTITIONS
P	FIRE PARTITION	ST	RESIST PASSAGE OF SMOKE
E	EXISTING AND RATED		

PANEL NAME ABBREVIATION NOTES:

ABBREVIATION:	UNLESS OTHERWISE NOTED, THE FULL NAME IS:
"H2"	"HA3-H2"
"L2"	"HA3-L2"
"ECH2"	"HA3-ECH2"
"ECL2"	"HA3-ECL2"
"ELH2"	"HA3-ELH2"
"H3"	"HB3-H3"
"L3"	"HB3-L3"
"ECL3"	"HB3-ECL3"



<E> SWITCHES:
a = <E> 2X2
b = <E> DOWNLIGHTS
c = <E> HEADWALL LIGHT (CRITICAL BRANCH)
d = <E> NIGHTLIGHT

<N> SWITCHES:
e = <N> 2X2
f = <N> DOWNLIGHTS
g = <N> HEADWALL LIGHT (CRITICAL BRANCH)
h = <N> NIGHTLIGHT

153 PATIENT ROOM / BED SWITCHES
SCALE: N.T.S.

A LIGHTING PLAN – PART B
SCALE: 1/4" = 1'-0"

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

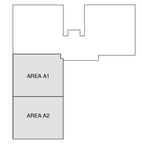
INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

REGISTERED PROFESSIONAL ENGINEER – ROMAN PERCY HUBER – No. E 19560 – Exp. 6-30-25 – ELECTRICAL – STATE OF CALIFORNIA
12/04/24

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

Int • Elect Engineering Incorporated
1487 Finch Lane
Gilroy, California 95020
(408) 846-7171
Project No. 22110
© 2024

*** READ THE SPECIFICATIONS !**

READ THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. IN CASE OR CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE RESTRICTIVE REQUIREMENTS SHALL TAKE PRECEDENCE.

THIS DRAWING AND THE DESIGN HEREON ARE INTENDED FOR THIS ONE SPECIFIC PROJECT ONLY. ANY USE OR RE-USE BEYOND THIS ONE PROJECT IS THE SOLE RESPONSIBILITY OF THE USER.

ALTHOUGH A "SCALE" MAY BE INDICATED, THE INFORMATION ON THIS DRAWING IS APPROXIMATE AND DIAGRAMMATIC ONLY, AND SHALL NOT BE SCALED TO OBTAIN DISTANCES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THE INTENT AND USE OF THESE DRAWINGS.

LIGHTING PLAN - PART B

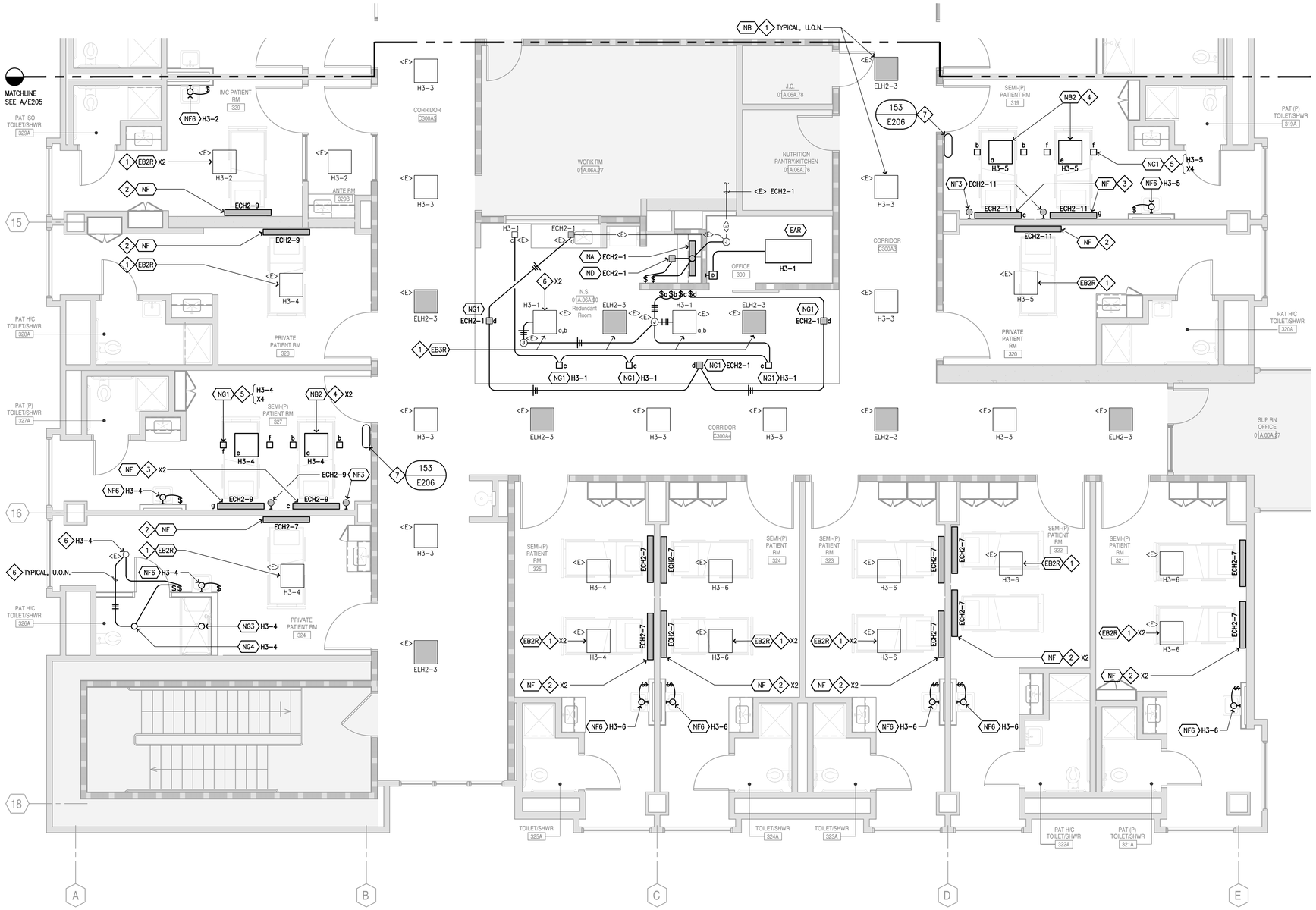
DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

E205

CONSTRUCTION DOCUMENT

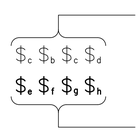
© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.



A LIGHTING PLAN – PART C
SCALE: 1/4" = 1'-0"

PANEL NAME ABBREVIATION NOTES:

ABBREVIATION:	UNLESS OTHERWISE NOTED, THE FULL NAME IS:
"H2"	"HA3-H2"
"L2"	"HA3-L2"
"ECH2"	"HA3-ECH2"
"ECL2"	"HA3-ECL2"
"ELH2"	"HA3-ELH2"
"H3"	"HB3-H3"
"L3"	"HB3-L3"
"ECL3"	"HB3-ECL3"



<E> SWITCHES:
a = <E> 2X2
b = <E> DOWNLIGHTS
c = <E> HEADWALL LIGHT (CRITICAL BRANCH)
d = <E> NIGHTLIGHT

<N> SWITCHES:
e = <N> 2X2
f = <N> DOWNLIGHTS
g = <N> HEADWALL LIGHT (CRITICAL BRANCH)
h = <N> NIGHTLIGHT

153 PATIENT ROOM / BED SWITCHES
SCALE: N.T.S.

SHEET NOTES

1. EXISTING FIXTURE RETROFITTED WITH LED LAMPS REMAINING AS–IS ON THE EXISTING SWITCH(ES). EXISTING LIGHTING CONTROLS SHALL REMAIN AS–IS. REFER TO THE "RELOCATED / REMOVED LIGHTING LOAD MATRIX" ON E104.
2. NEW LED HEADWALL FIXTURE REPLACES EXISTING HEADWALL FIXTURE ON THE SAME CIRCUIT. REFER TO THE RESPECTIVE "RELOCATED / REMOVED LIGHTING LOAD MATRIX ON E104.
3. NEW LED HEADWALL FIXTURE FOR PRIVATE ROOM TO SEMI–PRIVATE ROOM CONVERSION ON THE SAME CIRCUIT AS THE EXISTING (REMOVED) HEADWALL FIXTURE. REFER TO THE RESPECTIVE "RELOCATED / REMOVED LIGHTING LOAD MATRIX" ON E104.
4. NEW 2X2 LED CEILING FIXTURE FOR PRIVATE ROOM TO SEMI–PRIVATE ROOM CONVERSION ON THE SAME CIRCUIT AS THE EXISTING (REMOVED) CEILING 2X2 HEADWALL FIXTURE. REFER TO THE RESPECTIVE "RELOCATED / REMOVED LIGHTING LOAD MATRIX" ON E104.
5. NEW CEILING LED DOWNLIGHT FIXTURE FOR PRIVATE ROOM TO SEMI–PRIVATE ROOM CONVERSION ON THE SAME CIRCUIT AS THE EXISTING (REMOVED) CEILING 2X2 HEADWALL FIXTURE. REFER TO THE RESPECTIVE "RELOCATED / REMOVED LIGHTING LOAD MATRIX" ON E104.
6. CONNECT NEW CONDUIT AND CONDUCTORS.
7. GROUP OF NEW FLUSH IN WALL SWITCHES.

LIGHTING CIRCUITING NOTES:

1. ALL NEW LIGHT FIXTURES ON THIS PLAN SHALL BE CONNECTED TO EXISTING BRANCH CIRCUITS IN THE SAME ROOM. LIGHTS ARE NOTED / IDENTIFIED WITH PANEL AND CIRCUIT NUMBER.

   NOTE: INDIVIDUAL CIRCUIT LOAD VERIFICATION IS ON THE "RELOCATED / REMOVED LIGHTING LOAD MATRIX" ON SHEET #E103. PANEL LOAD VERIFICATION IS SHOWN UNDER THE RESPECTIVE PANEL SCHEDULE.
2. EVERY SECTION OF THE CONDUIT / WIRING SYSTEM HAS NOT BEEN SHOWN. THE CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT CONDUITS WITH CONDUCTORS (+ GROUND WIRES) IN ACCORDANCE WITH CODE AND THESE NOTES TO 'CONNECT THE DOTS' AND COMPLETE THE ROUTING OF BRANCH CIRCUITS TO PLACE ALL LOADS INTO AND/OR BACK INTO SERVICE.
3. LINE VOLTAGE (120 VAC) WIRING SHALL BE MINIMUM #12 AWG INDIVIDUAL INSULATED CU CONDUCTORS, PLUS A MINIMUM #12 AWG GROUND WIRE, WITH THHN / THWN, 600 VAC INSULATION INSTALLED IN MINIMUM 0.75 INCH CONDUIT U.O.N.
4. UNLESS SPECIFICALLY DIRECTED BY THESE DRAWINGS – DO NOT RUN MORE THAN 3 PHASE CONDUCTORS (A, B, C) + 1 NEUTRAL AND 1 GROUND IN A CONDUIT.
5. MARK THE CIRCUITING / CONDUITS / CONDUCTORS "CONNECTING THE DOTS" ON THE RECORD DRAWINGS.

NOTES:
1. ALL CONDUITS SHALL BE 0.75 INCH, U.O.N.
2. ALL MATERIALS AND WORK SHOWN ON THIS SHEET SHALL BE NEW UNLESS OTHERWISE NOTED OR INDICATED.
3. VERIFY EXACT DEVICE, OUTLET, FIXTURE, SURFACE AND EXPOSED RACEWAY LOCATIONS WITH THE ARCHITECT PRIOR TO COMMENCEMENT OF THE WORK.

CONSTRUCTION PLAN LEGEND

SEE A010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

	(E) CONSTRUCTION TO REMAIN	
	(N) CONSTRUCTION	
	TEMPORARY CONSTRUCTION	

ASSEMBLY RATING

0	ZERO HOUR	
1	ONE HOUR RATED	
2	TWO HOUR RATED	
3	THREE HOUR RATED	
4	FOUR HOUR RATED	

TYPE OF ASSEMBLY

W	FIRE WALL	S	SMOKE BARRIER
B	FIRE BARRIER	SP	SMOKE PARTITIONS
P	FIRE PARTITION	ST	RESIST PASSAGE OF SMOKE
E	EXISTING AND RATED		

Int • Elect Engineering Incorporated
1487 Finch Lane
Gilroy, California 95020
(408) 846–7171
Project No. 22110

© 2024

* READ THE SPECIFICATIONS !

READ THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. IN CASE OR CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE RESTRICTIVE REQUIREMENTS SHALL TAKE PRECEDENCE.

THIS DRAWING AND THE DESIGN HEREON ARE INTENDED FOR THIS ONE SPECIFIC PROJECT ONLY. ANY USE OR RE–USE BEYOND THIS ONE PROJECT IS THE SOLE RESPONSIBILITY OF THE USER.

ALTHOUGH A "SCALE" MAY BE INDICATED, THE INFORMATION ON THIS DRAWING IS APPROXIMATE AND DIAGRAMMATIC ONLY, AND SHALL NOT BE SCALED TO OBTAIN DISTANCES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THE INTENT AND USE OF THESE DRAWINGS.

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

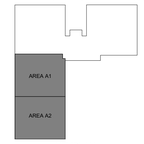
INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

04/23/24

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

LIGHTING PLAN - PART C

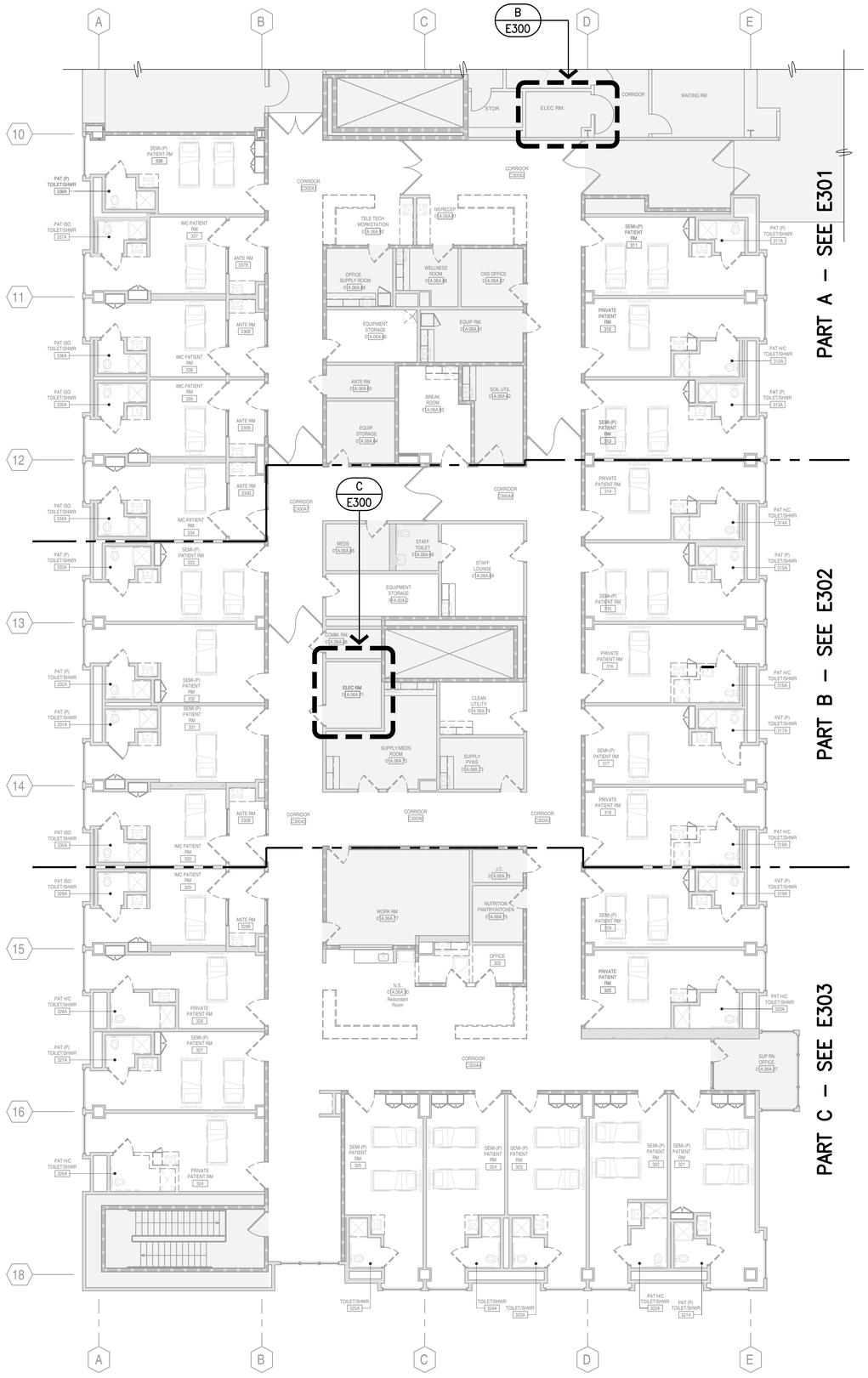
DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

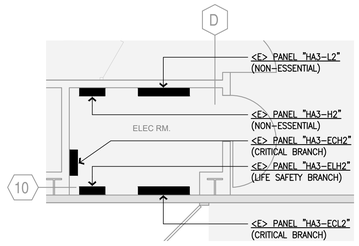
E206

CONSTRUCTION DOCUMENT

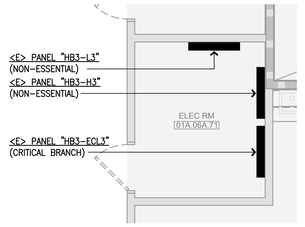
© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.



A THIRD FLOOR OVERALL POWER PLAN (<E> CONDITION SHOWN)
SCALE: 1/8" = 1'-0"



B ELECTRICAL ROOM
SCALE: 1/4" = 1'-0"



C ELECTRICAL ROOM
SCALE: 1/4" = 1'-0"

SHEET NOTES

(NONE).

CONSTRUCTION PLAN LEGEND

SEE A010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

	(E) CONSTRUCTION TO REMAIN
	(N) CONSTRUCTION
	TEMPORARY CONSTRUCTION

ASSEMBLY RATING

0	ZERO HOUR
1	ONE HOUR RATED
2	TWO HOUR RATED
3	THREE HOUR RATED
4	FOUR HOUR RATED

TYPE OF ASSEMBLY

W	FIRE WALL	S	SMOKE BARRIER
B	FIRE BARRIER	SP	SMOKE PARTITIONS
P	FIRE PARTITION	ST	RESIST PASSAGE OF SMOKE
E	EXISTING AND RATED		

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

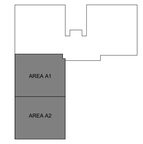
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

04/23/24

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

OVERALL POWER PLAN

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

E300

CONSTRUCTION DOCUMENT

Int e Elect Engineering Incorporated
1487 Finch Lane
Gilroy, California 95020
(408) 846-7171

Project No. 22110 © 2024

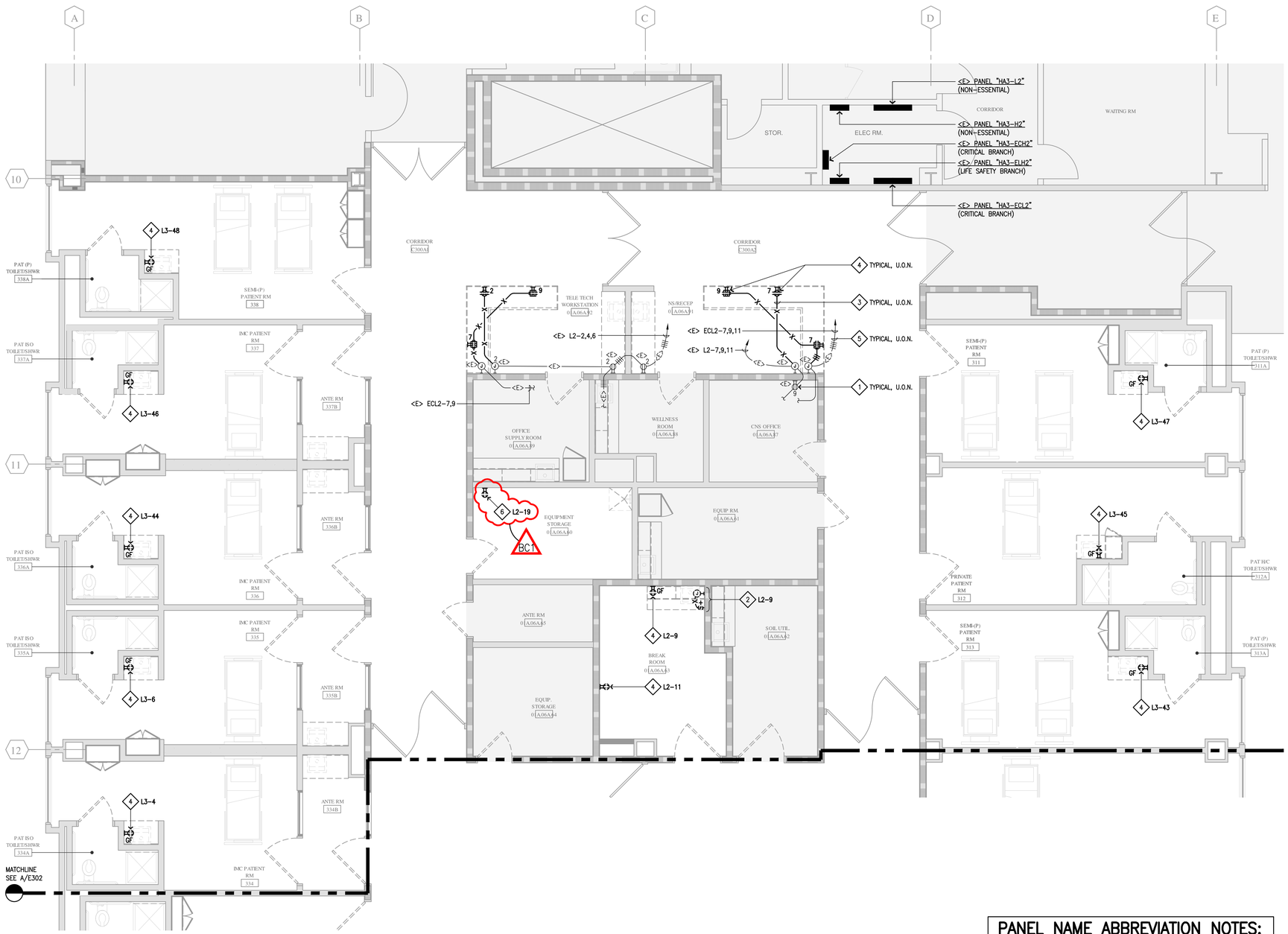
*** READ THE SPECIFICATIONS !**

READ THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. IN CASE OF CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE RESTRICTIVE REQUIREMENTS SHALL TAKE PRECEDENCE.

THIS DRAWING AND THE DESIGN HEREON ARE INTENDED FOR THIS ONE SPECIFIC PROJECT ONLY. ANY USE OR RE-USE BEYOND THIS ONE PROJECT IS THE SOLE RESPONSIBILITY OF THE USER.

ALTHOUGH A "SCALE" MAY BE INDICATED, THE INFORMATION ON THIS DRAWING IS APPROXIMATE AND DIAGRAMMATIC ONLY, AND SHALL NOT BE SCALED TO OBTAIN DISTANCES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THE INTENT AND USE OF THESE DRAWINGS.

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.



SHEET NOTES

1. EXISTING OUTLET, DEVICE, ETC. SHALL REMAIN ACTIVE AND IN SERVICE. SHOWN PRIMARILY FOR REFERENCE. NOT ALL SHOWN AND NOT LIMITED TO THOSE SHOWN WITH THIS SHEET NOTE TAG.
2. REMOVE THE EXISTING DEVICE AND ASSOCIATED OUTLET BOX. REMOVE EXISTING ASSOCIATED CONDUIT AND CONDUCTORS TO LAST REMAINING ACTIVE OUTLET AND / OR DEVICE.
3. REMOVE THE EXISTING CONDUIT AND CONDUCTORS.
4. RELOCATED "LOAD". REFER TO THE RESPECTIVE "RELOCATED / REMOVED RECEPTACLE LOAD MATRIX" ON E104. REMOVE THE EXISTING DEVICE AND ASSOCIATED OUTLET BOX. REMOVE EXISTING ASSOCIATED CONDUIT AND CONDUCTORS TO LAST REMAINING ACTIVE OUTLET AND / OR DEVICE.
5. EXISTING CONDUIT W/ CONDUCTORS / WIRING SYSTEM SHALL REMAIN ACTIVE AND IN SERVICE. SHOWN PRIMARILY FOR REFERENCE. NOT ALL SHOWN AND NOT LIMITED TO THOSE SHOWN WITH THIS SHEET NOTE TAG.
6. FURNISH AND INSTALL EXTENSION RING TO FACILITATE ADDED LAYER OF GYP. BOARD. BC1

POWER CIRCUITING NOTES:

1. ALL NEW RECEPTACLES ON THIS PLAN SHALL BE CONNECTED TO THE BRANCH CIRCUIT PANELBOARD AND CIRCUIT NOTED.
2. EVERY SECTION OF THE CONDUIT / WIRING SYSTEM HAS NOT BEEN SHOWN. THE CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT CONDUITS WITH CONDUCTORS (+ GROUND WIRES) IN ACCORDANCE WITH CODE AND THESE NOTES TO 'CONNECT THE DOTS' AND COMPLETE THE ROUTING OF BRANCH CIRCUITS TO PLACE ALL LOADS INTO AND/OR BACK INTO SERVICE.
3. LINE VOLTAGE (120 VAC) WIRING SHALL BE MINIMUM #12 AWG INDIVIDUAL INSULATED CU CONDUCTORS, PLUS A MINIMUM #12 AWG GROUND WIRE, WITH THHN / THWN, 600 VAC INSULATION INSTALLED IN MINIMUM 0.75 INCH CONDUIT U.O.N.
4. MULTIWIRE CONFIGURATION (PHASES SHARING A COMMON NEUTRAL) ARE NOT ALLOWED IN PATIENT ROOMS. EACH CIRCUIT SHALL BE COMPRISED OF A PHASE LEG AND NEUTRAL DEDICATED TO THE RESPECTIVE CIRCUIT. DO NOT RUN MORE THAN 3 PHASE CONDUCTORS (A, B, C) + 3 NEUTRALS AND 1 GROUND IN A CONDUIT UNLESS SPECIFICALLY NOTED AS SUCH ON THE DRAWINGS.
5. MARK THE CIRCUITING / CONDUITS / CONDUCTORS "CONNECTING THE DOTS" ON THE RECORD DRAWINGS.

NOTES:

1. COORDINATE AND PROVIDE ALL ELECTRICAL DEMOLITION REQUIRED TO ALLOW FOR THE REMOVAL OF WALLS, ETC. WITH ALL OTHER TRADES.
2. REFER TO DEMOLITION NOTES PORTION OF THE GENERAL NOTES. REFER TO NEW WORK PLANS FOR ADDITIONAL INFORMATION.

CONSTRUCTION PLAN LEGEND

SEE A010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

	(E) CONSTRUCTION TO REMAIN
	(N) CONSTRUCTION
	TEMPORARY CONSTRUCTION

ASSEMBLY RATING

0	ZERO HOUR
1	ONE HOUR RATED
2	TWO HOUR RATED
3	THREE HOUR RATED
4	FOUR HOUR RATED

TYPE OF ASSEMBLY

W	FIRE WALL	S	SMOKE BARRIER
B	FIRE BARRIER	SP	SMOKE PARTITIONS
P	FIRE PARTITION	ST	RESIST PASSAGE OF SMOKE
E	EXISTING AND RATED		

PANEL NAME ABBREVIATION NOTES:

ABBREVIATION:	UNLESS OTHERWISE NOTED, THE FULL NAME IS:
"H2"	"HA3-H2"
"L2"	"HA3-L2"
"ECH2"	"HA3-ECH2"
"ECL2"	"HA3-ECL2"
"ELH2"	"HA3-ELH2"
"H3"	"HB3-H3"
"L3"	"HB3-L3"
"ECL3"	"HB3-ECL3"

Int • Elect Engineering Incorporated
1487 Finch Lane
Gilroy, California 95020
(408) 846-7171
Project No. 22110

© 2024

✱ READ THE SPECIFICATIONS !

READ THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. IN CASE OF CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE RESTRICTIVE REQUIREMENTS SHALL TAKE PRECEDENCE.

THIS DRAWING AND THE DESIGN HEREON ARE INTENDED FOR THIS ONE SPECIFIC PROJECT ONLY. ANY USE OR RE-USE BEYOND THIS ONE PROJECT IS THE SOLE RESPONSIBILITY OF THE USER.

ALTHOUGH A "SCALE" MAY BE INDICATED, THE INFORMATION ON THIS DRAWING IS APPROXIMATE AND DIAGRAMMATIC ONLY, AND SHALL NOT BE SCALED TO OBTAIN DISTANCES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THE INTENT AND USE OF THESE DRAWINGS.

A POWER DEMOLITION PLAN – PART A
SCALE: 1/4" = 1'-0"

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

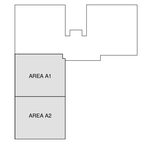
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

PROFESSIONAL ENGINEER ROMAN PERALTA No. E 19560 Exp. 6-30-25 ELECTRICAL STATE OF CALIFORNIA
12/04/24

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

POWER DEMOLITION PLAN - PART A

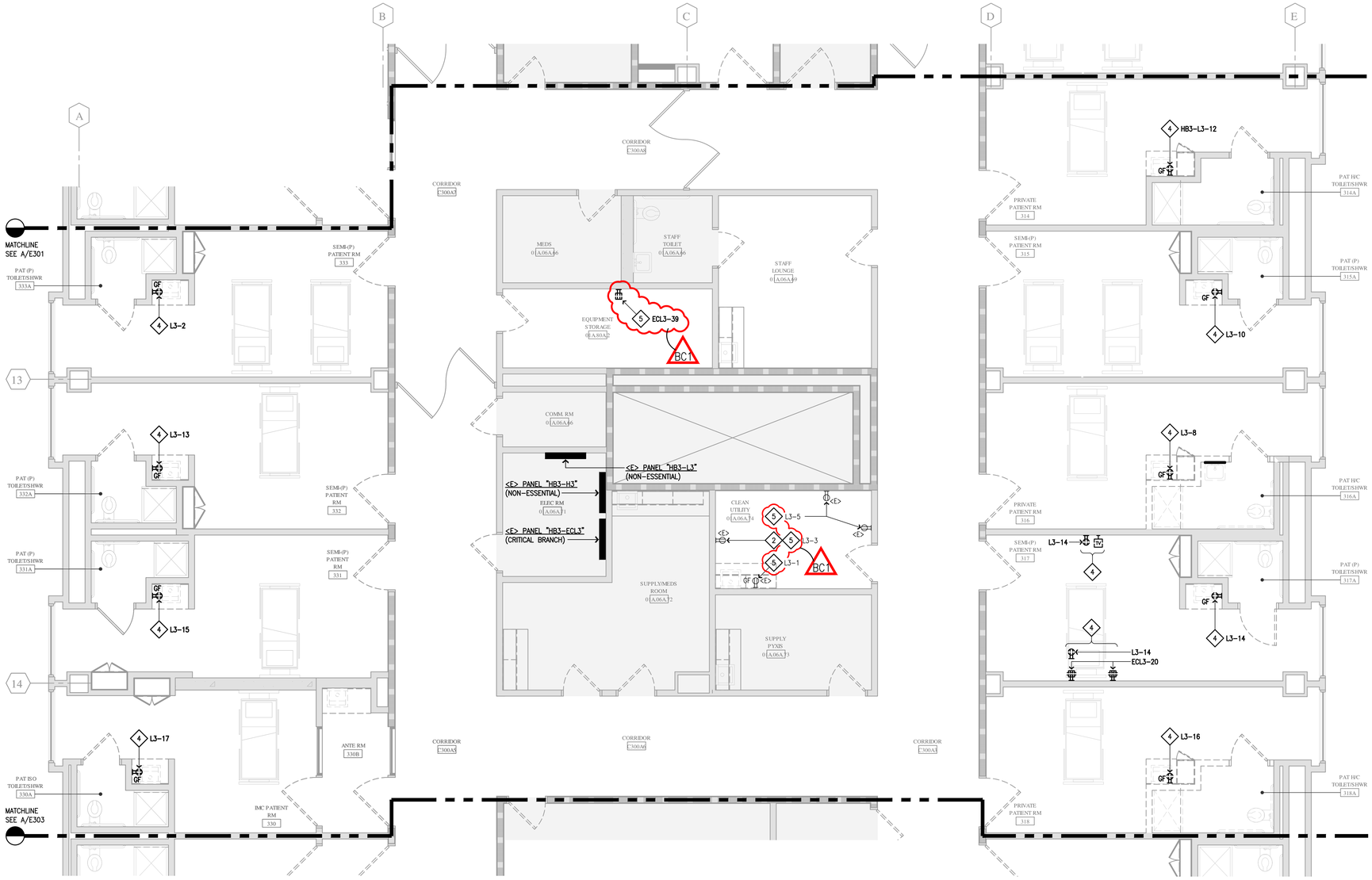
DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

E301

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.



A POWER DEMOLITION PLAN – PART B
SCALE: 1/4" = 1'-0"

SHEET NOTES

1. EXISTING OUTLET, DEVICE, ETC. SHALL REMAIN ACTIVE AND IN SERVICE. SHOWN PRIMARILY FOR REFERENCE. NOT ALL SHOWN AND NOT LIMITED TO THOSE SHOWN WITH THIS SHEET NOTE TAG.
2. REPLACE NON GFCI DEVICE WITH GFCI DEVICE. NO LOAD CHANGE.
3. (NOT USED).
4. RELOCATED "LOAD". REFER TO THE RESPECTIVE "RELOCATED / REMOVED RECEPTACLE LOAD MATRIX" ON E104. REMOVE THE EXISTING DEVICE AND ASSOCIATED OUTLET BOX. REMOVE EXISTING ASSOCIATED CONDUIT AND CONDUCTORS TO LAST REMAINING ACTIVE OUTLET AND / OR DEVICE.
5. FURNISH AND INSTALL EXTENSION RING TO FACILITATE ADDED LAYER OF GYP. BOARD. BC1

POWER CIRCUITING NOTES:

1. ALL NEW RECEPTACLES ON THIS PLAN SHALL BE CONNECTED TO THE BRANCH CIRCUIT PANELBOARD AND CIRCUIT NOTED.
2. EVERY SECTION OF THE CONDUIT / WIRING SYSTEM HAS NOT BEEN SHOWN. THE CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT CONDUITS WITH CONDUCTORS (+ GROUND WIRES) IN ACCORDANCE WITH CODE AND THESE NOTES TO 'CONNECT THE DOTS' AND COMPLETE THE ROUTING OF BRANCH CIRCUITS TO PLACE ALL LOADS INTO AND/OR BACK INTO SERVICE.
3. LINE VOLTAGE (120 VAC) WIRING SHALL BE MINIMUM #12 AWG INDIVIDUAL INSULATED CU CONDUCTORS, PLUS A MINIMUM #12 AWG GROUND WIRE, WITH THHN / THWN, 600 VAC INSULATION INSTALLED IN MINIMUM 0.75 INCH CONDUIT U.O.N.
4. MULTIWIRE CONFIGURATION (PHASES SHARING A COMMON NEUTRAL) ARE NOT ALLOWED IN PATIENT ROOMS. EACH CIRCUIT SHALL BE COMPRISED OF A PHASE LEG AND NEUTRAL DEDICATED TO THE RESPECTIVE CIRCUIT. DO NOT RUN MORE THAN 3 PHASE CONDUCTORS (A, B, C) + 3 NEUTRALS AND 1 GROUND IN A CONDUIT UNLESS SPECIFICALLY NOTED AS SUCH ON THE DRAWINGS.
5. MARK THE CIRCUITING / CONDUITS / CONDUCTORS "CONNECTING THE DOTS" ON THE RECORD DRAWINGS.

NOTES:

1. COORDINATE AND PROVIDE ALL ELECTRICAL DEMOLITION REQUIRED TO ALLOW FOR THE REMOVAL OF WALLS, ETC. WITH ALL OTHER TRADES.
2. REFER TO DEMOLITION NOTES PORTION OF THE GENERAL NOTES. REFER TO NEW WORK PLANS FOR ADDITIONAL INFORMATION.

CONSTRUCTION PLAN LEGEND

SEE A010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

	(E) CONSTRUCTION TO REMAIN
	(N) CONSTRUCTION
	TEMPORARY CONSTRUCTION

ASSEMBLY RATING

0	ZERO HOUR
1	ONE HOUR RATED
2	TWO HOUR RATED
3	THREE HOUR RATED
4	FOUR HOUR RATED

TYPE OF ASSEMBLY

W	FIRE WALL	S	SMOKE BARRIER
B	FIRE BARRIER	SP	SMOKE PARTITIONS
P	FIRE PARTITION	ST	RESIST PASSAGE OF SMOKE
E	EXISTING AND RATED		

PANEL NAME ABBREVIATION NOTES:

ABBREVIATION:	UNLESS OTHERWISE NOTED, THE FULL NAME IS:
"H2"	"HA3-H2"
"L2"	"HA3-L2"
"ECH2"	"HA3-ECH2"
"ECL2"	"HA3-ECL2"
"ELH2"	"HA3-ELH2"
"H3"	"HB3-H3"
"L3"	"HB3-L3"
"ECL3"	"HB3-ECL3"

Int • Elect Engineering Incorporated
1487 Finch Lane
Gilroy, California 95020
(408) 846-7171
Project No. 22110
© 2024

*** READ THE SPECIFICATIONS !**

READ THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. IN CASE OR CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE RESTRICTIVE REQUIREMENTS SHALL TAKE PRECEDENCE.

THIS DRAWING AND THE DESIGN HEREON ARE INTENDED FOR THIS ONE SPECIFIC PROJECT ONLY. ANY USE OR RE-USE BEYOND THIS ONE PROJECT IS THE SOLE RESPONSIBILITY OF THE USER.

ALTHOUGH A "SCALE" MAY BE INDICATED, THE INFORMATION ON THIS DRAWING IS APPROXIMATE AND DIAGRAMMATIC ONLY, AND SHALL NOT BE SCALED TO OBTAIN DISTANCES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THE INTENT AND USE OF THESE DRAWINGS.

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET,
SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET,
SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353

AREA A1
AREA A2
KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S2405193-27-00
Russell Rocker
HCAI APPROVAL

JOHN PEW No. E 19560 Exp. 6-30-25 ELECTRICAL STATE OF CALIFORNIA
12/04/24

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

POWER DEMOLITION PLAN - PART B

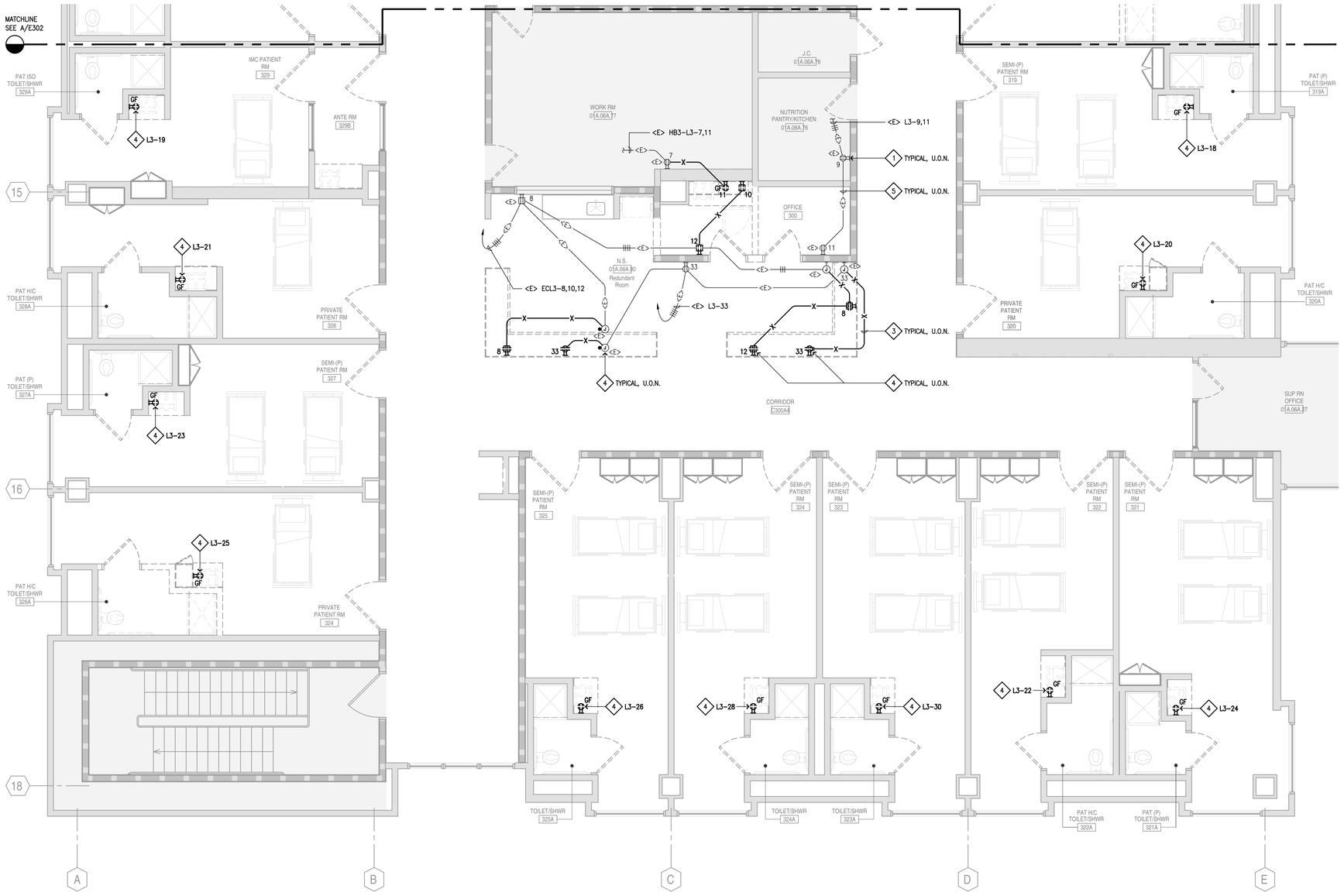
DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

E302

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.



SHEET NOTES

1. EXISTING OUTLET, DEVICE, ETC. SHALL REMAIN ACTIVE AND IN SERVICE. SHOWN PRIMARILY FOR REFERENCE. NOT ALL SHOWN AND NOT LIMITED TO THOSE SHOWN WITH THIS SHEET NOTE TAG.
2. (NOT USED).
3. REMOVE THE EXISTING CONDUIT AND CONDUCTORS.
4. RELOCATED "LOAD". REFER TO THE RESPECTIVE "RELOCATED / REMOVED RECEPTACLE LOAD MATRIX" ON E104. REMOVE THE EXISTING DEVICE AND ASSOCIATED OUTLET BOX. REMOVE EXISTING ASSOCIATED CONDUIT AND CONDUCTORS TO LAST REMAINING ACTIVE OUTLET AND / OR DEVICE.
5. EXISTING CONDUIT W/ CONDUCTORS / WIRING SYSTEM SHALL REMAIN ACTIVE AND IN SERVICE. SHOWN PRIMARILY FOR REFERENCE. NOT ALL SHOWN AND NOT LIMITED TO THOSE SHOWN WITH THIS SHEET NOTE TAG.

POWER CIRCUITING NOTES:

1. ALL NEW RECEPTACLES ON THIS PLAN SHALL BE CONNECTED TO THE BRANCH CIRCUIT PANELBOARD AND CIRCUIT NOTED.
2. EVERY SECTION OF THE CONDUIT / WIRING SYSTEM HAS NOT BEEN SHOWN. THE CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT CONDUITS WITH CONDUCTORS (+ GROUND WIRES) IN ACCORDANCE WITH CODE AND THESE NOTES TO "CONNECT THE DOTS" AND COMPLETE THE ROUTING OF BRANCH CIRCUITS TO PLACE ALL LOADS INTO AND/OR BACK INTO SERVICE.
3. LINE VOLTAGE (120 VAC) WIRING SHALL BE MINIMUM #12 AWG INDIVIDUAL INSULATED CU CONDUCTORS, PLUS A MINIMUM #12 AWG GROUND WIRE, WITH THHN / THWN, 600 VAC INSULATION INSTALLED IN MINIMUM 0.75 INCH CONDUIT U.O.N.
4. MULTIWIRE CONFIGURATION (PHASES SHARING A COMMON NEUTRAL) ARE NOT ALLOWED IN PATIENT ROOMS. EACH CIRCUIT SHALL BE COMPRISED OF A PHASE LEG AND NEUTRAL DEDICATED TO THE RESPECTIVE CIRCUIT. DO NOT RUN MORE THAN 3 PHASE CONDUCTORS (A, B, C) + 3 NEUTRALS AND 1 GROUND IN A CONDUIT UNLESS SPECIFICALLY NOTED AS SUCH ON THE DRAWINGS.
5. MARK THE CIRCUITING / CONDUITS / CONDUCTORS "CONNECTING THE DOTS" ON THE RECORD DRAWINGS.

NOTES:

1. COORDINATE AND PROVIDE ALL ELECTRICAL DEMOLITION REQUIRED TO ALLOW FOR THE REMOVAL OF WALLS, ETC. WITH ALL OTHER TRADES.
2. REFER TO DEMOLITION NOTES PORTION OF THE GENERAL NOTES. REFER TO NEW WORK PLANS FOR ADDITIONAL INFORMATION.

CONSTRUCTION PLAN LEGEND

SEE A010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

	(E) CONSTRUCTION TO REMAIN
	(N) CONSTRUCTION
	TEMPORARY CONSTRUCTION

ASSEMBLY RATING

0	ZERO HOUR
1	ONE HOUR RATED
2	TWO HOUR RATED
3	THREE HOUR RATED
4	FOUR HOUR RATED

TYPE OF ASSEMBLY

W	FIRE WALL	S	SMOKE BARRIER
B	FIRE BARRIER	SP	SMOKE PARTITIONS
P	FIRE PARTITION	ST	RESIST PASSAGE OF SMOKE
E	EXISTING AND RATED		

PANEL NAME ABBREVIATION NOTES:

ABBREVIATION:	UNLESS OTHERWISE NOTED, THE FULL NAME IS:
"H2"	"HA3-H2"
"L2"	"HA3-L2"
"ECH2"	"HA3-ECH2"
"ECL2"	"HA3-ECL2"
"ELH2"	"HA3-ELH2"
"H3"	"HB3-H3"
"L3"	"HB3-L3"
"ECL3"	"HB3-ECL3"

A POWER DEMOLITION PLAN – PART C
SCALE: 1/4" = 1'-0"

Int • Elect Engineering Incorporated
1487 Finch Lane
Gilroy, California 95020
(408) 846-7171
Project No. 22110

© 2024

✱ READ THE SPECIFICATIONS !

READ THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. IN CASE OR CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE RESTRICTIVE REQUIREMENTS SHALL TAKE PRECEDENCE.

THIS DRAWING AND THE DESIGN HEREON ARE INTENDED FOR THIS ONE SPECIFIC PROJECT ONLY. ANY USE OR RE-USE BEYOND THIS ONE PROJECT IS THE SOLE RESPONSIBILITY OF THE USER.

ALTHOUGH A "SCALE" MAY BE INDICATED, THE INFORMATION ON THIS DRAWING IS APPROXIMATE AND DIAGRAMMATIC ONLY, AND SHALL NOT BE SCALED TO OBTAIN DISTANCES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THE INTENT AND USE OF THESE DRAWINGS.

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

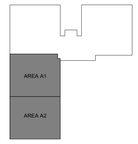
INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

REMAN PERSONNEL BUEHLER No. E 19566 Exp. 6-30-25 ELECTRICAL STATE OF CALIFORNIA
04/23/24

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

POWER DEMOLITION PLAN - PART C

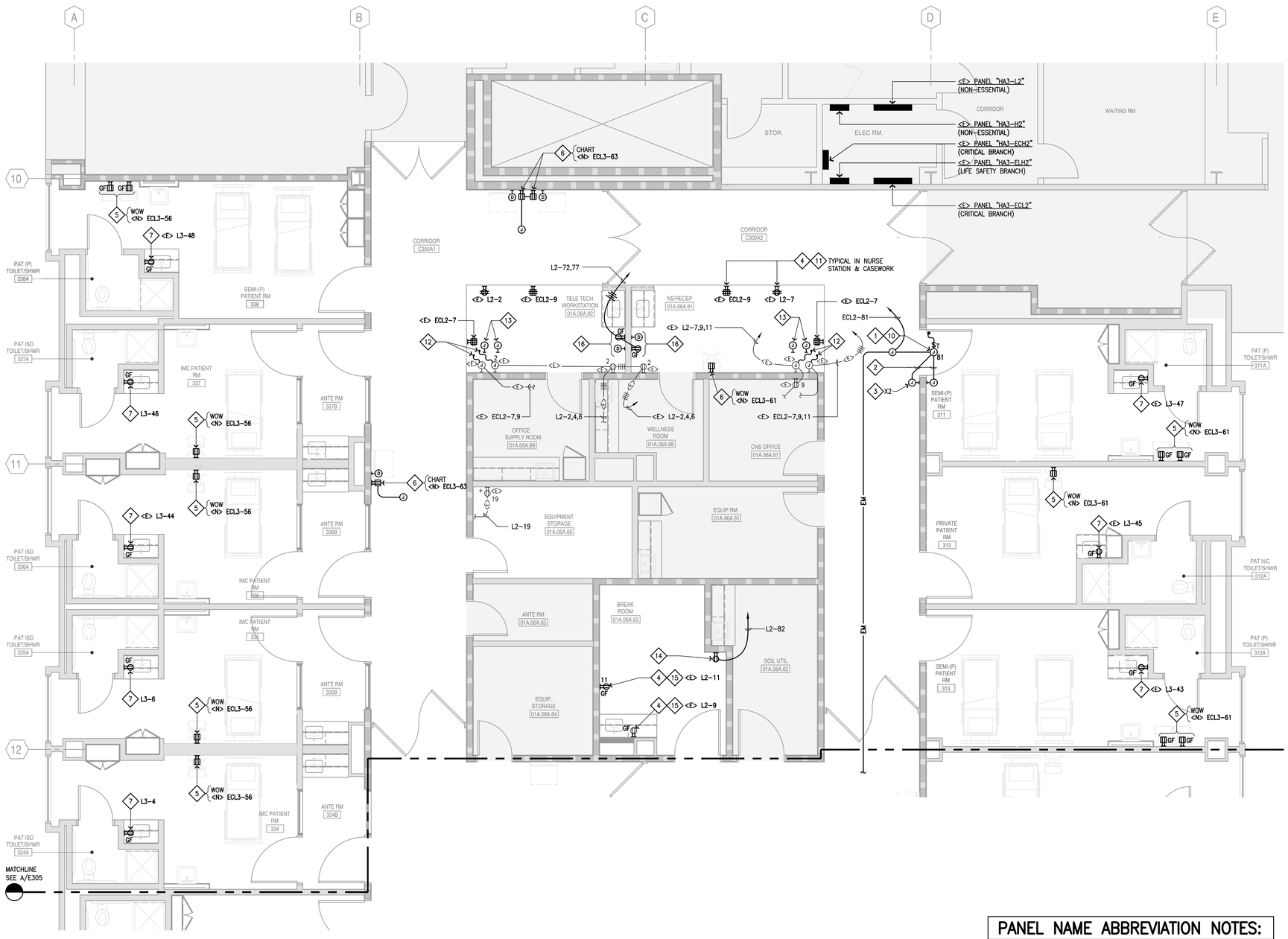
DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

E303

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.



SHEET NOTES

1. CONNECT AUTOMATIC DOOR OPENER POWER SUPPLY. 2.5 AMPS AT 120 VAC.
   ⚠ HCAI NOTE: DOOR IS NOT IN THE BUILDING EGRESS PATH AND OPERATES AS A NORMAL MANUALLY OPERATED DOOR WITHOUT POWER.
2. 0.5 INCH C.O. FOR AUTO-DOOR LOW VOLTAGE CONTROL CABLE. CABLE BY DOOR VENDOR.
3. LOCATE FOR THE AUTOMATIC DOOR OPENER LOW VOLTAGE HAND WAVE (OR OTHER ACTIVATION DEVICE). VERIFY EXACT LOCATION WITH THE ARCHITECT PRIOR TO ROUGH-IN AND VERIFY THE EXACT OUTLET BOX REQUIREMENTS WITH THE DOOR OPERATOR SYSTEM PRIOR TO COMMENCEMENT OF THE WORK.
4. RELOCATED "LOAD". REFER TO THE RESPECTIVE "RELOCATED / REMOVED RECEPTACLE LOAD MATRIX" ON E104.
5. LOCATE FOR WOW(S). 2.6 AMPS, 120 VAC RECHARGE LOAD.
6. LOCATE FOR CHARTING STATION. 3.6 AMPS, 120 VAC.
7. NEW ADJUSTED OUTLET BOX AND DEVICE LOCATION TO COORDINATE WITH THE NEW BACKSPLASH. RELOCATED LOAD. RELOCATED "LOAD". REFER TO THE RESPECTIVE "RELOCATED / REMOVED RECEPTACLE LOAD MATRIX" ON E104.
8. (NOTE USED).
9. (NOTE USED).
10. AUTO DOOR OPERATOR TO BE INTERFACED WITH THE FA SYSTEM AS PART OF THE DEFERRED APPROVAL FA SYSTEM DRAWINGS.
11. RECEPTACLE IN MODULAR WORKSTATION. CRITICAL BRANCH AND NON-ESSENTIAL DEVICES WIRING SYSTEMS SHALL BE IN SEPARATE UL RACEWAY SYSTEMS.
12. FLEX CONNECTION TO MODULAR WORKSTATION.
13. FLUSH IN WALL FOR MODULAR WORKSTATION. ONE FOR TEL/DATA WITH 1.5 INCH C.O. UP IN WALL AND STUBBED INTO ACCESSIBLE CEILING. ONE FOR NURSE CALL / CODE BLUE WITH 1.5 INCH C.O. UP IN WALL AND STUBBED INTO ACCESSIBLE CEILING.
14. LOCATE FOR STAFF REFRIGERATOR. 10 AMPS, 120 VAC, 1 PHASE.
15. NEW GFCI DEVICE IN EXISTING BOX (ON EXISTING CIRCUIT) AND NEW DEVICE PLATE.
16. LOCATE FOR COPIER. 12 AMPS, 120 VAC.

POWER CIRCUITING NOTES

1. ALL NEW RECEPTACLES ON THIS PLAN SHALL BE CONNECTED TO THE BRANCH CIRCUIT PANELBOARD AND CIRCUIT NOTED.
2. EVERY SECTION OF THE CONDUIT / WIRING SYSTEM HAS NOT BEEN SHOWN. THE CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT CONDUITS WITH CONDUCTORS (+ GROUND WIRES) IN ACCORDANCE WITH CODE AND THESE NOTES TO 'CONNECT THE DOTS' AND COMPLETE THE ROUTING OF BRANCH CIRCUITS TO PLACE ALL LOADS INTO AND/OR BACK INTO SERVICE.
3. LINE VOLTAGE (120 VAC) WIRING SHALL BE MINIMUM #12 AWG INDIVIDUAL INSULATED CU CONDUCTORS, PLUS A MINIMUM #12 AWG GROUND WIRE, WITH THHN / THWN, 600 VAC INSULATION INSTALLED IN MINIMUM 0.75 INCH CONDUIT U.O.N.
4. MULTIWIRE CONFIGURATION (PHASES SHARING A COMMON NEUTRAL) ARE NOT ALLOWED IN PATIENT ROOMS. EACH CIRCUIT SHALL BE COMPRISED OF A PHASE LEG AND NEUTRAL DEDICATED TO THE RESPECTIVE CIRCUIT. DO NOT RUN MORE THAN 3 PHASE CONDUCTORS (A, B, C) + 3 NEUTRALS AND 1 GROUND IN A CONDUIT UNLESS SPECIFICALLY NOTED AS SUCH ON THE DRAWINGS.
5. MARK THE CIRCUITING / CONDUITS / CONDUCTORS "CONNECTING THE DOTS" ON THE RECORD DRAWINGS.

NOTES:

1. ALL CONDUITS SHALL BE 0.75 INCH, U.O.N.
2. ALL MATERIALS AND WORK SHOWN ON THIS SHEET SHALL BE NEW UNLESS OTHERWISE NOTED OR INDICATED.
3. VERIFY EXACT DEVICE, OUTLET, FIXTURE, SURFACE AND EXPOSED RACEWAY LOCATIONS WITH THE ARCHITECT PRIOR TO COMMENCEMENT OF THE WORK.

CONSTRUCTION PLAN LEGEND

SEE A010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

	(E) CONSTRUCTION TO REMAIN
	(N) CONSTRUCTION
	TEMPORARY CONSTRUCTION

ASSEMBLY RATING

0	ZERO HOUR
1	ONE HOUR RATED
2	TWO HOUR RATED
3	THREE HOUR RATED
4	FOUR HOUR RATED

TYPE OF ASSEMBLY

W	FIRE WALL	S	SMOKE BARRIER
B	FIRE BARRIER	SP	SMOKE PARTITIONS
P	FIRE PARTITION	ST	RESIST PASSAGE OF SMOKE
E	EXISTING AND RATED		

PANEL NAME ABBREVIATION NOTES:

ABBREVIATION:	UNLESS OTHERWISE NOTED, THE FULL NAME IS:
"H2"	"HA3-H2"
"L2"	"HA3-L2"
"ECH2"	"HA3-ECH2"
"ECL2"	"HA3-ECL2"
"ELH2"	"HA3-ELH2"
"H3"	"HB3-H3"
"L3"	"HB3-L3"
"ECL3"	"HB3-ECL3"

A POWER PLAN – PART A
SCALE: 1/4" = 1'-0"

N

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

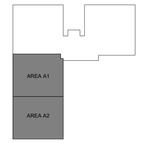
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:05:56 P.M.
S240593-27-00
Russell Rocker

HCAI APPROVAL

04/23/24

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

POWER PLAN - PART A

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

E304

CONSTRUCTION DOCUMENT

Int • Elect Engineering Incorporated
1487 Finch Lane
Gilroy, California 95020
(408) 846-7171

Project No. 22110 © 2024

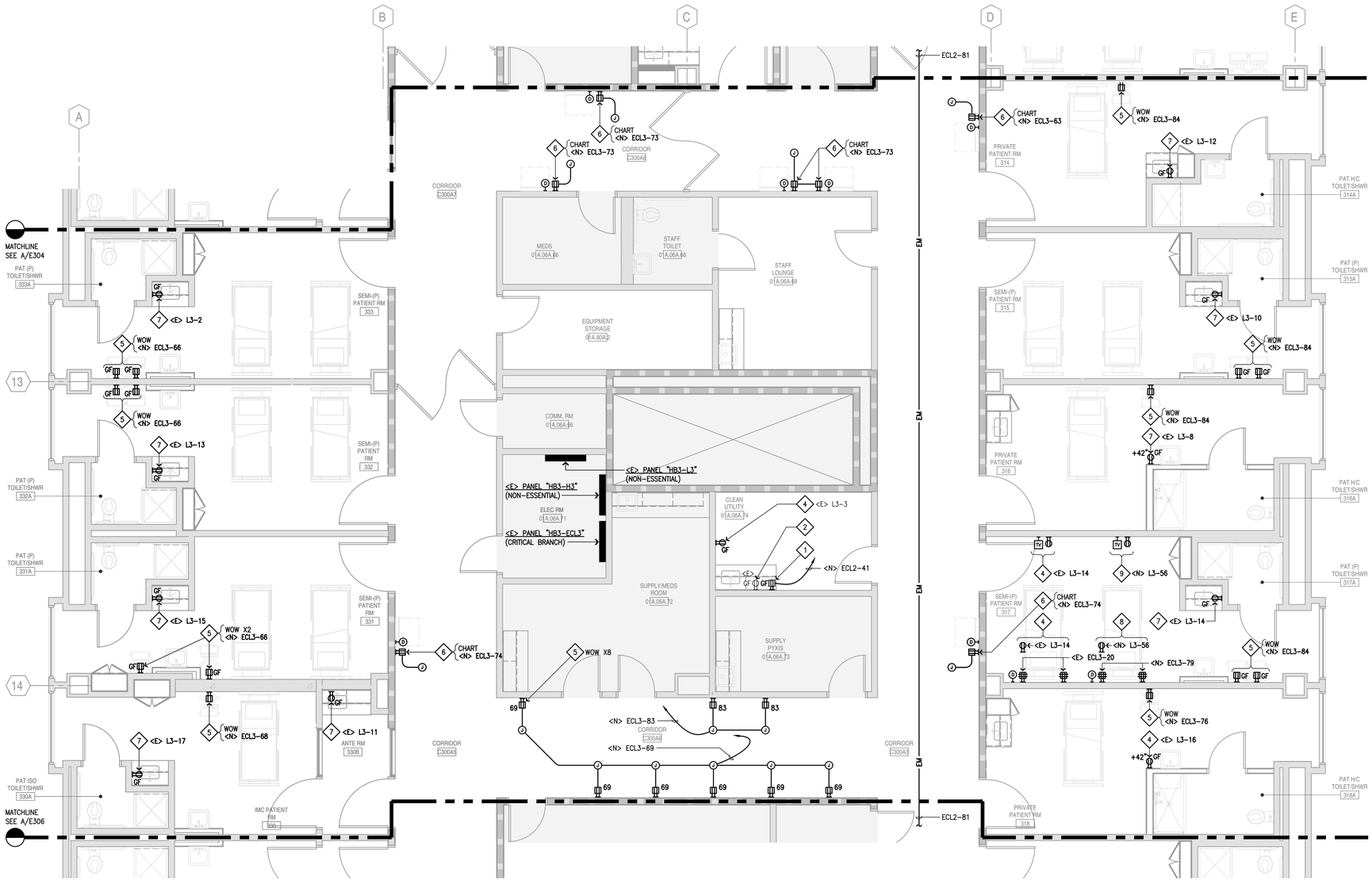
*** READ THE SPECIFICATIONS !**

READ THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. IN CASE OR CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE RESTRICTIVE REQUIREMENTS SHALL TAKE PRECEDENCE.

THIS DRAWING AND THE DESIGN HEREON ARE INTENDED FOR THIS ONE SPECIFIC PROJECT ONLY. ANY USE OR RE-USE BEYOND THIS ONE PROJECT IS THE SOLE RESPONSIBILITY OF THE USER.

ALTHOUGH A "SCALE" MAY BE INDICATED, THE INFORMATION ON THIS DRAWING IS APPROXIMATE AND DIAGRAMMATIC ONLY, AND SHALL NOT BE SCALED TO OBTAIN DISTANCES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THE INTENT AND USE OF THESE DRAWINGS.

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.



A POWER PLAN – PART B
SCALE: 1/4" = 1'-0"

SHEET NOTES

1. NEW GFCI DEVICE REPLACING EXISTING DUPLEX. NO CHANGE IN CIRCUIT. NO LOAD CHANGE.
2. EXISTING DEVICE REMAINING ACTIVE AND IN SERVICE. NO LOAD CHANGE. SHOWN FOR INFORMATION.
3. NOT USED.
4. RELOCATED "LOAD". REFER TO THE RESPECTIVE "RELOCATED / REMOVED RECEPTACLE LOAD MATRIX" ON E104.
5. LOCATE FOR WOW(S). 2.6 AMPS, 120 VAC RECHARGE LOAD.
6. LOCATE FOR CHARTING STATION. 3.6 AMPS, 120 VAC.
7. NEW ADJUSTED OUTLET BOX AND DEVICE LOCATION TO COORDINATE WITH THE NEW BACKSPLASH. RELOCATED LOAD. REFER TO THE RESPECTIVE "RELOCATED / REMOVED RECEPTACLE LOAD MATRIX" ON E104.
8. LOCATE FOR NEW PATIENT BED.
9. LOCATE FOR NEW TELEVISION.

POWER CIRCUITING NOTES

1. ALL NEW RECEPTACLES ON THIS PLAN SHALL BE CONNECTED TO THE BRANCH CIRCUIT PANELBOARD AND CIRCUIT NOTED.
2. EVERY SECTION OF THE CONDUIT / WIRING SYSTEM HAS NOT BEEN SHOWN. THE CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT CONDUITS WITH CONDUCTORS (+ GROUND WIRES) IN ACCORDANCE WITH CODE AND THESE NOTES TO 'CONNECT THE DOTS' AND COMPLETE THE ROUTING OF BRANCH CIRCUITS TO PLACE ALL LOADS INTO AND/OR BACK INTO SERVICE.
3. LINE VOLTAGE (120 VAC) WIRING SHALL BE MINIMUM #12 AWG INDIVIDUAL INSULATED CU CONDUCTORS, PLUS A MINIMUM #12 AWG GROUND WIRE, WITH THHN / THWN, 600 VAC INSULATION INSTALLED IN MINIMUM 0.75 INCH CONDUIT U.O.N.
4. MULTIWIRE CONFIGURATION (PHASES SHARING A COMMON NEUTRAL) ARE NOT ALLOWED IN PATIENT ROOMS. EACH CIRCUIT SHALL BE COMPRISED OF A PHASE LEG AND NEUTRAL DEDICATED TO THE RESPECTIVE CIRCUIT. DO NOT RUN MORE THAN 3 PHASE CONDUCTORS (A, B, C) + 3 NEUTRALS AND 1 GROUND IN A CONDUIT UNLESS SPECIFICALLY NOTED AS SUCH ON THE DRAWINGS.
5. MARK THE CIRCUITING / CONDUITS / CONDUCTORS "CONNECTING THE DOTS" ON THE RECORD DRAWINGS.

NOTES:

1. ALL CONDUITS SHALL BE 0.75 INCH, U.O.N.
2. ALL MATERIALS AND WORK SHOWN ON THIS SHEET SHALL BE NEW UNLESS OTHERWISE NOTED OR INDICATED.
3. VERIFY EXACT DEVICE, OUTLET, FIXTURE, SURFACE AND EXPOSED RACEWAY LOCATIONS WITH THE ARCHITECT PRIOR TO COMMENCEMENT OF THE WORK.

CONSTRUCTION PLAN LEGEND

SEE A010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

	(E) CONSTRUCTION TO REMAIN
	(N) CONSTRUCTION
	TEMPORARY CONSTRUCTION

ASSEMBLY RATING

0	ZERO HOUR
1	ONE HOUR RATED
2	TWO HOUR RATED
3	THREE HOUR RATED
4	FOUR HOUR RATED

TYPE OF ASSEMBLY

W	FIRE WALL	S	SMOKE BARRIER
B	FIRE BARRIER	SP	SMOKE PARTITIONS
P	FIRE PARTITION	ST	RESIST PASSAGE OF SMOKE
E	EXISTING AND RATED		

PANEL NAME ABBREVIATION NOTES:

ABBREVIATION:	UNLESS OTHERWISE NOTED, THE FULL NAME IS:
"H2"	"HA3-H2"
"L2"	"HA3-L2"
"ECH2"	"HA3-ECH2"
"ECL2"	"HA3-ECL2"
"ELH2"	"HA3-ELH2"
"H3"	"HB3-H3"
"L3"	"HB3-L3"
"ECL3"	"HB3-ECL3"

Int • Elect Engineering Incorporated
1487 Finch Lane
Gilroy, California 95020
(408) 846-7171

Project No. 22110

© 2024

*** READ THE SPECIFICATIONS !**

READ THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. IN CASE OR CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE RESTRICTIVE REQUIREMENTS SHALL TAKE PRECEDENCE.

THIS DRAWING AND THE DESIGN HEREON ARE INTENDED FOR THIS ONE SPECIFIC PROJECT ONLY. ANY USE OR RE-USE BEYOND THIS ONE PROJECT IS THE SOLE RESPONSIBILITY OF THE USER.

ALTHOUGH A "SCALE" MAY BE INDICATED, THE INFORMATION ON THIS DRAWING IS APPROXIMATE AND DIAGRAMMATIC ONLY, AND SHALL NOT BE SCALED TO OBTAIN DISTANCES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THE INTENT AND USE OF THESE DRAWINGS.

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

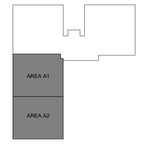
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

04/23/24

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

POWER PLAN - PART B

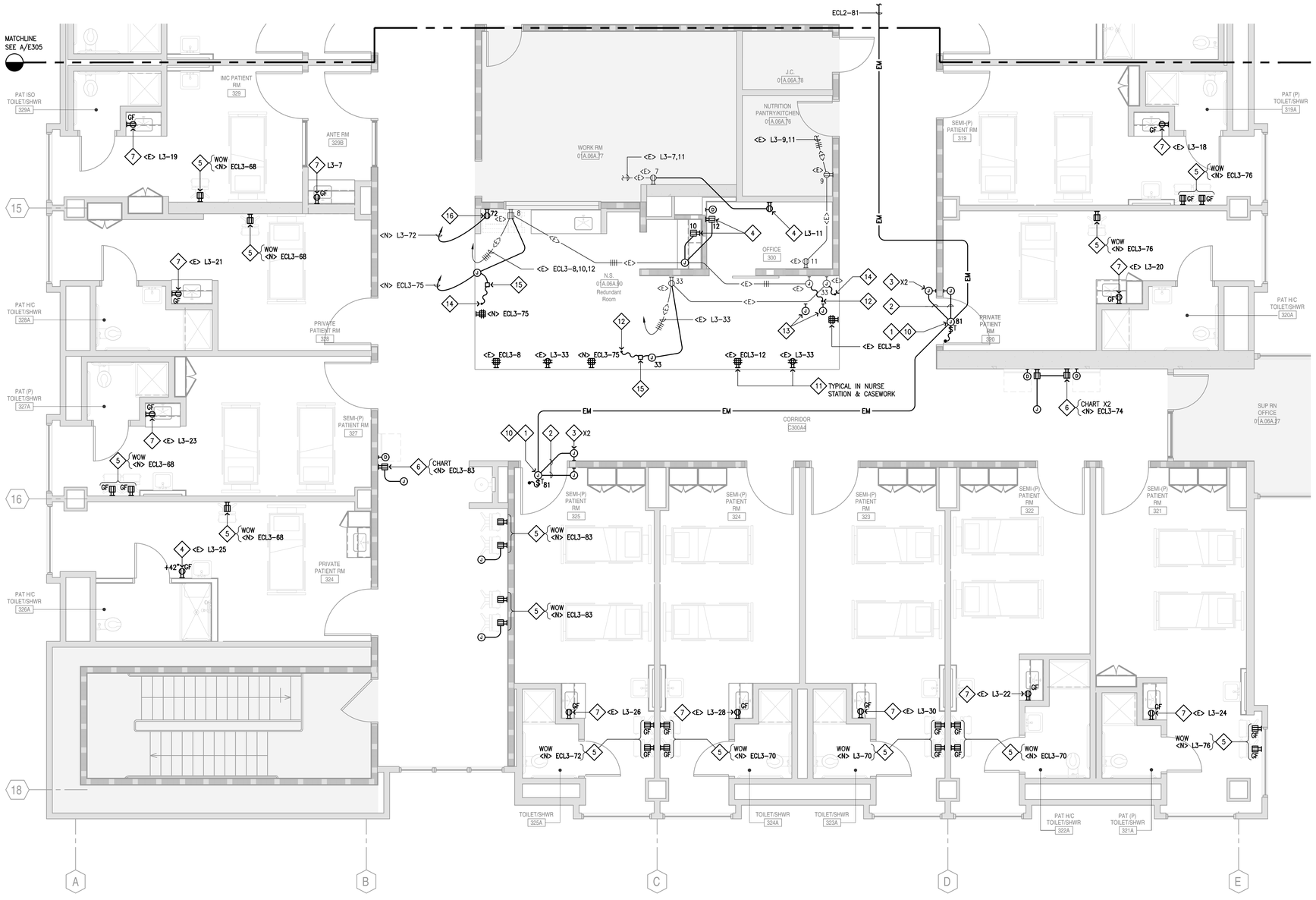
DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

E305

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.



A POWER PLAN – PART C

SCALE: 1/4" = 1'-0"

SHEET NOTES

1. CONNECT AUTOMATIC DOOR OPENER POWER SUPPLY. 2.5 AMPS AT 120 VAC.

   ⚠ HCAI NOTE: DOOR IS NOT IN THE BUILDING EGRESS PATH AND OPERATES AS A MANUALLY OPERATED DOOR IF POWER WAS TO FAIL.
2. 0.5 INCH C.O. FOR AUTO-DOOR LOW VOLTAGE CONTROL CABLE. CABLE BY DOOR VENDOR.
3. LOCATE FOR THE AUTOMATIC DOOR OPENER LOW VOLTAGE HAND WAVE (OR OTHER ACTIVATION DEVICE). VERIFY EXACT LOCATION WITH THE ARCHITECT PRIOR TO ROUGH-IN AND VERIFY THE EXACT OUTLET BOX REQUIREMENTS WITH THE DOOR OPERATOR SYSTEM PRIOR TO COMMENCEMENT OF THE WORK.
4. RELOCATED "LOAD". REFER TO THE RESPECTIVE "RELOCATED / REMOVED RECEPTACLE LOAD MATRIX" ON E104.
5. LOCATE FOR WOW(S). 2.6 AMPS, 120 VAC RECHARGE LOAD.
6. LOCATE FOR CHARTING STATION. 3.6 AMPS, 120 VAC.
7. NEW ADJUSTED OUTLET BOX AND DEVICE LOCATION TO COORDINATE WITH THE NEW BACKSPLASH. RELOCATED LOAD. RELOCATED "LOAD". REFER TO THE RESPECTIVE "RELOCATED / REMOVED RECEPTACLE LOAD MATRIX" ON E104.
8. (NOT USED).
9. (NOT USED).
10. AUTO DOOR OPERATOR TO BE INTERFACED WITH THE FA SYSTEM AS PART OF THE DEFERRED APPROVAL FA SYSTEM DRAWINGS.
11. RECEPTACLE IN MODULAR WORKSTATION. CRITICAL BRANCH AND NON-ESSENTIAL DEVICES WIRING SYSTEMS SHALL BE IN SEPARATE UL RACEWAY SYSTEMS.
12. FLEX CONNECTION TO MODULAR WORKSTATION NON-ESSENTIAL RECEPTACLE CIRCUITS.
13. FLUSH IN WALL FOR MODULAR WORKSTATION. ONE FOR TEL/DATA WITH 1.5 INCH C.O. UP IN WALL AND STUBBED INTO ACCESSIBLE CEILING. ONE FOR NURSE CALL / CODE BLUE WITH 1.5 INCH C.O. UP IN WALL AND STUBBED INTO ACCESSIBLE CEILING.
14. FLEX CONNECTION TO MODULAR WORKSTATION CRITICAL BRANCH RECEPTACLE CIRCUITS.
15. "VISTA ARCHITECTURAL COLUMN" FOR FURNITURE FEEDS. NOMINAL 8.75 INCH X 3.75 INCH FLOOR THRU CEILING WITH INTERNAL BARRIER FOR LV / COMMUNICATIONS AND ELECTRICAL LINE VOLTAGE COMPARTMENTS. WIREMOLD #VF-S-66-COLOR AS SELECTED BY THE ARCHITECT-FF-WH-P FRAME AND #VP-S-A3-COLOR AS SELECTED BY THE ARCHITECT-PANEL LENGTH TO SUIT CEILING HEIGHT, AND COMPONENTS FOR FLEX WHIP FOR POWER AND TEL/DATA CABLE OUTLET AT BOTTOM.
16. LOCATE FOR PRINTER 10 AMPS, 120V, 1 PHASE.

POWER CIRCUITING NOTES

1. ALL NEW RECEPTACLES ON THIS PLAN SHALL BE CONNECTED TO THE BRANCH CIRCUIT PANELBOARD AND CIRCUIT NOTED.
2. EVERY SECTION OF THE CONDUIT / WIRING SYSTEM HAS NOT BEEN SHOWN. THE CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT CONDUITS WITH CONDUCTORS (+ GROUND WIRES) IN ACCORDANCE WITH CODE AND THESE NOTES TO 'CONNECT THE DOTS' AND COMPLETE THE ROUTING OF BRANCH CIRCUITS TO PLACE ALL LOADS INTO AND/OR BACK INTO SERVICE.
3. LINE VOLTAGE (120 VAC) WIRING SHALL BE MINIMUM #12 AWG INDIVIDUAL INSULATED CU CONDUCTORS, PLUS A MINIMUM #12 AWG GROUND WIRE, WITH THHN / THWN, 600 VAC INSULATION INSTALLED IN MINIMUM 0.75 INCH CONDUIT U.O.N.
4. MULTIWIRE CONFIGURATION (PHASES SHARING A COMMON NEUTRAL) ARE NOT ALLOWED IN PATIENT ROOMS. EACH CIRCUIT SHALL BE COMPRISED OF A PHASE LEG AND NEUTRAL DEDICATED TO THE RESPECTIVE CIRCUIT. DO NOT RUN MORE THAN 3 PHASE CONDUCTORS (A, B, C) + 3 NEUTRALS AND 1 GROUND IN A CONDUIT UNLESS SPECIFICALLY NOTED AS SUCH ON THE DRAWINGS.
5. MARK THE CIRCUITING / CONDUITS / CONDUCTORS "CONNECTING THE DOTS" ON THE RECORD DRAWINGS.

NOTES:

1. ALL CONDUITS SHALL BE 0.75 INCH, U.O.N.
2. ALL MATERIALS AND WORK SHOWN ON THIS SHEET SHALL BE NEW UNLESS OTHERWISE NOTED OR INDICATED.
3. VERIFY EXACT DEVICE, OUTLET, FIXTURE, SURFACE AND EXPOSED RACEWAY LOCATIONS WITH THE ARCHITECT PRIOR TO COMMENCEMENT OF THE WORK.

CONSTRUCTION PLAN LEGEND

SEE A010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

	(E) CONSTRUCTION TO REMAIN	
	(N) CONSTRUCTION	
	TEMPORARY CONSTRUCTION	

ASSEMBLY RATING

0	ZERO HOUR
1	ONE HOUR RATED
2	TWO HOUR RATED
3	THREE HOUR RATED
4	FOUR HOUR RATED

TYPE OF ASSEMBLY

W	FIRE WALL	S	SMOKE BARRIER
B	FIRE BARRIER	SP	SMOKE PARTITIONS
P	FIRE PARTITION	ST	RESIST PASSAGE OF SMOKE
E	EXISTING AND RATED		

PANEL NAME ABBREVIATION NOTES:

ABBREVIATION:	UNLESS OTHERWISE NOTED, THE FULL NAME IS:
"H2"	"HA3-H2"
"L2"	"HA3-L2"
"ECH2"	"HA3-ECH2"
"ECL2"	"HA3-ECL2"
"ELH2"	"HA3-ELH2"
"H3"	"HB3-H3"
"L3"	"HB3-L3"
"ECL3"	"HB3-ECL3"

Int • Elect Engineering Incorporated
1487 Finch Lane
Gilroy, California 95020
(408) 846-7171
Project No. 22110

© 2004

* READ THE SPECIFICATIONS !

READ THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. IN CASE OR CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE RESTRICTIVE REQUIREMENTS SHALL TAKE PRECEDENCE.

THIS DRAWING AND THE DESIGN HEREON ARE INTENDED FOR THIS ONE SPECIFIC PROJECT ONLY. ANY USE OR RE-USE BEYOND THIS ONE PROJECT IS THE SOLE RESPONSIBILITY OF THE USER.

ALTHOUGH A "SCALE" MAY BE INDICATED, THE INFORMATION ON THIS DRAWING IS APPROXIMATE AND DIAGRAMMATIC ONLY, AND SHALL NOT BE SCALED TO OBTAIN DISTANCES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THE INTENT AND USE OF THESE DRAWINGS.

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

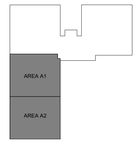
INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

04/23/24

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

POWER PLAN - PART C

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

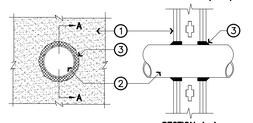
E306

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

U.L. SYSTEM NO. W-L-1001
(Formerly System No. 147)

F RATINGS – 1,2,3, & 4 HOUR (SEE ITEMS 2 & 3)
T RATINGS – 0,1,2,3, & 4 HOUR (SEE ITEMS 3)
L RATING AT AMBIENT – <1 CFM/sq ft
L RATING AT 400° F – <1 CFM/sq ft



SECTION A-A

NOTES:

1. WALL ASSEMBLY – THE 1,2,3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD / STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY.

2. PIPE OR CONDUIT – NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 12 IN. DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. DIAM (OR SMALLER) CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE, NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT, NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING, NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING OR NOM 1 IN. DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT. WHEN COPPER PIPE IS USED, MAX F RATING OF FIRESTOP SYSTEM (ITEM 3) IS 2 HR. STEEL PIPES OR CONDUITS LARGER THAN NOM 4 IN. DIAM MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDES. A MAX OF ONE PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.

3. FILL, VOID OR CAVITY MATERIAL* – CAULK – CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MIN 1/4 IN. DIAM BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

MAX. PIPE OR CONDUIT DIA, INCHES	ANNULAR SPACE INCHES	F RATING HOUR	T RATING HOUR
1	0 TO 3/16	1 OR 2	0+, 1 OR 2
1	1/4 TO 1/2	3 OR 4	3 OR 4
4	0 TO 1-1/2	1 OR 2	0
6	1/4 TO 1/2	3 OR 4	0
12	3/16 TO 3/8	1 OR 2	0

+WHEN COPPER PIPE IS USED, T RATING IS 0 HR.
MINNESOTA MINING & MFG CO – CP25WB+.
*BEARING THE UL CLASSIFICATION MARKING

341 FIRESTOP SYSTEM DETAIL – WALL
SCALE: N.T.S.

WALL OPENING PROTECTIVE MATERIALS (CLIV)

THIS CATEGORY COVERS PROPRIETARY COMPOSITIONS WHICH ARE USED TO MAINTAIN THE HOURLY RATINGS OF FIRE RESISTIVE WALLS AND PARTITIONS CONTAINING FLUSH MOUNTED DEVICES SUCH AS OUTLET BOXES, ELECTRICAL CABINETS AND MECHANICAL CABINETS. THE INDIVIDUAL CLASSIFICATINS INDICATE THE SPECIFIC APPLICATIONS AND THE METHOD OF INSTALLATION FOR WHICH THE MATERIALS HAVE BEEN EVALUATED.

THE BASIC STANDARD USED TO INVISTIGATE PRODUCTS IN THIS CATEGORY IS ANSI/UL 263, "FIRE TESTS OF BUILDING CONSTRUCTION AND MATERIALS".

LOOK FOR CLASSIFICATION MARKING ON PRODUCT

THE CLASSIFICATION MARKING OF UNDERWRITERS LABORATORIES INC. (SHOWN BELOW) ON THE PRODUCT OR CONTAINER IS THE ONLY METHOD PROVIDED BY UNDERWRITERS LABORATORIES INC. TO IDENTIFY WALL OPENING PROTECTIVE MATERIALS PRODUCED UNDER ITS CLASSIFICATION AND FOLLOW-UP SERVICE.

UNDERWRITERS LABORATORIES INC.®
CLASSIFIED
WALL OPENING PROTECTIVE MATERIAL
FIRE RESISTANCE CLASSIFICATION
SEE PRODUCT CATEGORY IN UL FIRE RESISTANCE DIRECTORY

3M COMPANY 3M FIRE PROTECTION PRODUCTS R9700
3M CENTER, ST PAUL MN 55144 USA

TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 4-11/16 BY 4-11/16 BY 2-1/8 IN. DEEP FLUSH DEVICE UL LISTED METALLIC OUTLET BOXES INSTALLED WITH STEEL COVER PLATES FOR USE IN 1 OR 2 HR FIRE RATED GYPSUM BOARD WALL ASSEMBLIES FRAMED WITH MIN 3-1/2 IN. WIDE WOOD OR STEEL STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY.

TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 4-11/16 BY 4-11/16 BY 2-1/8 IN. DEEP FLUSH DEVICE UL LISTED METALLIC OUTLET BOXES INSTALLED WITH STEEL OR PLASTIC COVER PLATES FOR USE IN 1 HR OR 2 HR FIRE RATED GYPSUM BOARD WALL ASSEMBLIES FRAMED WITH MIN 5-1/2 IN. WIDE WOOD OR STEEL STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U300, U400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY. METALLIC OUTLET BOXES TO BE PROVIDED WITH STEEL ATTACHMENT BRACKETS WHICH OFFSET BOX MIN 1/4 IN. FROM STUD. PUTTY PAD TO BE AFFIXED TO THE BACK AND ALL FOUR SIDES OF THE BOX. BOXES MAY BE INSTALLED BACK-TO-BACK WITHIN THE STUD CAVITY. WHEN BACK-TO-BACK BOXES ARE INTERCONNECTED, A BALL OF PUTTY IS TO BE INSTALLED TO PLUG THE OPEN END OF EACH ELECTRICAL METALLIC TUBE OR CONDUIT WITHIN THE OUTLET BOXES.

TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 4 BY 4 BY 2-1/8 IN. DEEP FLUSH DEVICE UL LISTED METALLIC OUTLET BOXES INSTALLED WITH PLASTIC COVER PLATES FOR USE IN 1 OR 2 HR FIRE RATED GYPSUM BOARD WALL ASSEMBLIES FRAMED WITH MIN 3-1/2 IN. WIDE WOOD OR STEEL STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY.

TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 14 BY 4 BY 2-1/2 IN. DEEP FLUSH DEVICE UL LISTED METALLIC OUTLET BOXES INSTALLED WITH STEEL COVER PLATES FOR USE IN 1 OR 2 HR FIRE RATED GYPSUM BOARD WALL ASSEMBLIES FRAMED WITH MIN 3-1/2 IN. WIDE STEEL STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY.

TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 14 BY 4-1/2 BY 2-1/2 IN. DEEP UL LISTED NONMETALLIC OUTLET BOXES MANUFACTURED BY THOMAS & BETTS CORP., MADE OF POLYCARBONETE, TYPE 234 OR MADE OF PHENOLIC, TYPE 1052 AND BEARING A 2 HR RATING UNDER THE "OUTLET BOXES AND FITTINGS CLASSIFIED FOR FIRE RESISTANCE" CATEGORY IN THE FIRE RESISTANCE DIRECTORY. BOXES INSTALLED WITH STEEL COVER PLATES. FOR USE IN 1 HR FIRE RATED GYPSUM BOARD WALL ASSEMBLIES FRAMED WITH MIN 3-1/2 IN. WIDE WOOD STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U300 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY.

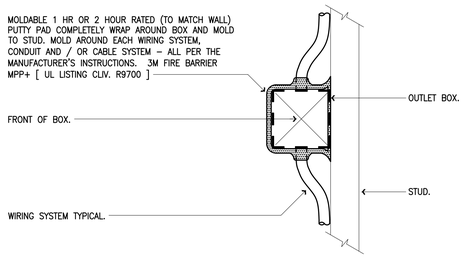
TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 4 BY 3-3/4 BY 3 IN. DEEP UL LISTED NONMETALLIC OUTLET BOXES MANUFACTURED BY CARLON ELECTRICAL PRODECTS, MADE OF PVC AND BEARING A 2 HOUR RATING UNDER THE "OUTLET BOXES AND FITTINGS CLASSIFIED FOR FIRE RESISTANCE CATEGORY IN THE FIRE RESISTANCE DIRECTORY. BOXES INSTALLED WITH PLASTIC COVER PLATES, FOR USE IN 1 HR RATED GYPSUM BOARD WALL ASSEMBLIES FRAMED WITH MIN 3-1/2 IN. WIDE WOOD STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U300 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY.

TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 4 YY 3-1/4 BY 3-3/4 IN. DEEP UL LISTED NONMETALLIC OUTLET BOXES MANUFACTURED BY THOMAS & BETTS CORP., MADE OF PHENOLIC, TYPE 2002-738-C AND BEARING A 2 HR RATING UNDER THE "OUTLET BOXES AND FITTINGS CLASSIFIED FOR FIRE RESISTANCE" CATEGORY IN THE FIRE RESISTANCE DIRECTORY. BOXES INSTALLED WITH STEEL COVER PLATES. FOR USE IN 2 HR FIRE RATED GYPSUM BOARD WALL ASSEMBLIES FRAMED WITH MIN 3-1/2 IN. WIDE STEEL STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY.

TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 4 BY 4 BY 1-1/2 IN. DEEP FLUSH DEVICE UL LISTED METALLIC OUTLET BOXES INSTALLED WITH PLASTIC COVER PLATES FOR USE IN 1 HR FIRE RATED GYPSUM BOARD WALL ASSEMBLIES FRAMED WITH MIN 3-5/8 IN. WIDE STEEL STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY. BOXES MY BE INSTALLED BACK-TO-BACK WITHIN THE STUD CAVITY.

TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 5 BY 5 BY 2 7/8 IN. DEEP FLUSH DEVICE UL LISTED METALLIC OUTLET BOXES OR UL LISTED COMMUNICATIONS-CIRCUIT ACCESSORIES MANUFACTURED BY RANDL INDUSTRIES INC FOR USE IN 1 HR OR 2 HR FIRE RATED GYPSUM BOARD WALL ASSEMBLIES FRAMED WITH MIN 3-5/8 IN. WIDE WOOD OR STEEL STUDS AND CONSTRCTED AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY. METALLIC OUTLET BOXES TO BE PROVIDED WITH UL LISTED SIGNAL APPLIANCE WITH STEEL COVER PLATE MANUFACTURED BY COOPER WHEELOCK INC.

MOLDABLE PUTTY PADS ARE TO BE INSTALLED TO COMPLETELY COVER THE EXTERIOR SURFACES OF THE OUTLET BOX (EXCEPT FOR THE SIDE OF THE OUTLET BOX AGAINST THE STUD UNLESS OTHERWISE NOTED) INCLUDING NAILING TABS AND TO COMPLETELY SEAL AGAINST THE STUD WITHIN THE STUD CAVITY. MULTIPLE MOLDABLE PUTTY PADS MAY BE INSTALLED ON AN OUTLET BOX TO ATTAIN THE REQUIRED MINIMUM THICKNESS OF PUTTY MATERIAL. ADDITIONAL PUTTY MATERIAL USED TO SEAL AROUND EACH CONDUIT AND/OR CABLE FITTING ON THE EXTERIOR OF EACH BOX. A MIN 1/10 IN. THICKNESS OF PUTTY MATERIAL IS REQUIRED ON THE EXTERIOR SURFACES OF FLUSH DEVICE BOXES IN 1 AND 2 HR FIRE RATED WALL AND PARTITION DESIGNS. WHEN THE MOLDABLE PUTTY PAD OUTLET BOX PROTECTIVE MATERIAL IS USED ON BOXES ON BOTH SIDES OF WALL AS DIRECTED, THE HORIZONTAL SEPARATION BETWEEN OUTLET BOXES ON OPPOSITE SIDES OF THE WALL MY BE LESS THAN 24 IN. PROVIDED THAT THE OUTLET BOXES ARE NOT INSTALLED BACK TO BACK, EXCEPT AS NOTED.



344 OUTLET BOX IN RATED WALL
SCALE: N.T.S.

Int • Elect Engineering Incorporated
1487 Finch Lane
Gilroy, California 95020
(408) 846-7171
Project No. 22110

© 2024

*** READ THE SPECIFICATIONS !**

READ THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. IN CASE OR CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE RESTRICTIVE REQUIREMENTS SHALL TAKE PRECEDENCE.

THIS DRAWING AND THE DESIGN HEREON ARE INTENDED FOR THIS ONE SPECIFIC PROJECT ONLY. ANY USE OR RE-USE BEYOND THIS ONE PROJECT IS THE SOLE RESPONSIBILITY OF THE USER.

ALTHOUGH A "SCALE" MAY BE INDICATED, THE INFORMATION ON THIS DRAWING IS APPROXIMATE AND DIAGRAMMATIC ONLY, AND SHALL NOT BE SCALED TO OBTAIN DISTANCES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THE INTENT AND USE OF THESE DRAWINGS.

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

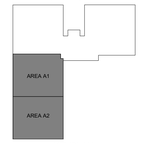
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/3/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

04/23/24

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

ELECTRICAL DETAILS

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

E401

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

SECTION 260519 – LOW–VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

PART 1 – GENERAL

1.1 SUMMARY
A. SECTION INCLUDES:
1. BUILDING WIRES AND CABLES RATED 600 V AND LESS.
2. CONNECTORS, SPLICES, AND TERMINATIONS RATED 600 V AND LESS.

1.2 ACTION SUBMITTALS
A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT.

1.3 INFORMATIONAL SUBMITTALS
A. FIELD QUALITY–CONTROL REPORTS.

PART 2 – PRODUCTS

2.1 CONDUCTORS AND CABLES
A. COPPER CONDUCTORS: COMPLY WITH NEMA WC 70/ICEA S–95–658.
B. CONDUCTOR INSULATION: COMPLY WITH NEMA WC 70/ICEA S–95–658 FOR TYPE THHN–2–THWN–2.

2.2 CONNECTORS AND SPLICES
A. DESCRIPTION: FACTORY–FABRICATED CONNECTORS AND SPLICES OF SIZE, AMPACITY RATING, MATERIAL, TYPE, AND CLASS FOR APPLICATION AND SERVICE INDICATED.

2.3 SYSTEM DESCRIPTION
A. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
B. COMPLY WITH NFPA 70.

PART 3 – EXECUTION

3.1 CONDUCTOR MATERIAL APPLICATIONS
A. FEEDERS: COPPER. SOLID FOR NO. 10 AWG AND SMALLER; STRANDED FOR NO. 8 AWG AND LARGER.
B. BRANCH CIRCUITS: COPPER. SOLID FOR NO. 12 AWG AND SMALLER; STRANDED FOR NO. 10 AWG AND LARGER.

3.2 CONDUCTOR INSULATION AND AND WIRING METHODS
A. FEEDERS: TYPE THHN–2–THWN–2, SINGLE CONDUCTORS IN RACEWAY.
B. BRANCH CIRCUITS: TYPE THHN–2–THWN–2, SINGLE CONDUCTORS IN RACEWAY, REDUNDANT GROUND METAL–CLAD CABLE, TYPE MC.

3.3 INSTALLATION OF CONDUCTORS AND CABLES
A. CONCEAL CABLES IN FINISHED WALLS, CEILINGS, AND FLOORS UNLESS OTHERWISE INDICATED.
B. COMPLETE RACEWAY INSTALLATION BETWEEN CONDUCTOR AND CABLE TERMINATION POINTS ACCORDING TO SECTION 260533 "RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS" PRIOR TO PULLING CONDUCTORS AND CABLES.
C. USE MANUFACTURER–APPROVED PULLING COMPOUND OR LUBRICANT WHERE NECESSARY; COMPOUND USED MUST NOT DETERIORATE CONDUCTOR OR INSULATION. DO NOT EXCEED MANUFACTURER'S RECOMMENDED MAXIMUM PULLING TENSIONS AND SIDEWALL PRESSURE VALUES.
D. USE PULLING MEANS, INCLUDING FISH TAPE, CABLE, ROPE, AND BASKET–WEAVE WIRE/CABLE GRIPS, THAT WILL NOT DAMAGE CABLES OR RACEWAY.
E. INSTALL EXPOSED CABLES PARALLEL AND PERPENDICULAR TO SURFACES OF EXPOSED STRUCTURAL MEMBERS, AND FOLLOW SURFACE CONTOURS WHERE POSSIBLE.

3.4 CONNECTIONS
A. TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS ACCORDING TO MANUFACTURER'S PUBLISHED TORQUE–TIGHTENING VALUES. IF MANUFACTURER'S TORQUE VALUES ARE NOT INDICATED, USE THOSE SPECIFIED IN UL 486A–486B.
B. MAKE SPLICES, TERMINATIONS, AND TAPS THAT ARE COMPATIBLE WITH CONDUCTOR MATERIAL AND THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN UNSPLICED CONDUCTORS.
C. WIRING AT OUTLETS: INSTALL CONDUCTOR AT EACH OUTLET, WITH AT LEAST 12 INCHES OF SLACK.

3.5 IDENTIFICATION
A. IDENTIFY AND COLOR–CODE CONDUCTORS AND CABLES ACCORDING TO SECTION 260553 "IDENTIFICATION FOR ELECTRICAL SYSTEMS."
B. IDENTIFY EACH SPARE CONDUCTOR AT EACH END WITH IDENTITY NUMBER AND LOCATION OF OTHER END OF CONDUCTOR, AND IDENTIFY AS SPARE CONDUCTOR.

3.6 FIRESTOPPING
A. APPLY FIRESTOPPING TO ELECTRICAL PENETRATIONS OF FIRE–RATED FLOOR AND WALL ASSEMBLIES TO RESTORE ORIGINAL FIRE–RESISTANCE RATING OF ASSEMBLY.

3.7 FIELD QUALITY CONTROL
A. PERFORM THE FOLLOWING TESTS AND INSPECTIONS:
1. PERFORM EACH VISUAL AND MECHANICAL INSPECTION AND ELECTRICAL TEST STATED IN NETA ACCEPTANCE TESTING SPECIFICATION. CERTIFY COMPLIANCE WITH TEST PARAMETERS.
B. TEST AND INSPECTION REPORTS: PREPARE A WRITTEN REPORT TO RECORD THE FOLLOWING:
1. PROCEDURES USED.
2. RESULTS THAT COMPLY WITH REQUIREMENTS.
3. RESULTS THAT DO NOT COMPLY WITH REQUIREMENTS AND CORRECTIVE ACTION TAKEN TO ACHIEVE COMPLIANCE WITH REQUIREMENTS.
C. CABLES WILL BE CONSIDERED DEFECTIVE IF THEY DO NOT PASS TESTS AND INSPECTIONS.

SECTION 260526 – GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

PART 1 – GENERAL

1.1 SUMMARY
A. SECTION INCLUDES: GROUNDING SYSTEMS AND EQUIPMENT.

1.2 ACTION SUBMITTALS
A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.

1.3 INFORMATIONAL SUBMITTALS
A. FIELD QUALITY–CONTROL REPORTS.

1.4 QUALITY ASSURANCE
A. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
B. COMPLY WITH UL 467 FOR GROUNDING AND BONDING MATERIALS AND EQUIPMENT.

PART 2 – PRODUCTS

2.1 CONDUCTORS
A. INSULATED CONDUCTORS: COPPER WIRE OR CABLE INSULATED FOR 600 V UNLESS OTHERWISE REQUIRED BY APPLICABLE CODE OR AUTHORITIES HAVING JURISDICTION.
B. BARE COPPER CONDUCTORS:
1. SOLID CONDUCTORS: ASTM B 3.
2. STRANDED CONDUCTORS: ASTM B 8.
3. TINNED CONDUCTORS: ASTM B 33.
4. BONDING CABLE: 28 KCMIL, 14 STRANDS OF NO. 17 AWG CONDUCTOR, 1/4 INCH IN DIAMETER.
5. BONDING CONDUCTOR: NO. 4 OR NO. 6 AWG, STRANDED CONDUCTOR.

2.2 CONNECTORS
A. LISTED AND LABELED BY AN NRTL ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION FOR APPLICATIONS IN WHICH USED AND FOR SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND OTHER ITEMS CONNECTED.

PART 3 – EXECUTION

3.1 APPLICATIONS
A. CONDUCTORS: INSTALL SOLID CONDUCTOR FOR NO. 8 AWG AND SMALLER, AND STRANDED CONDUCTORS FOR NO. 6 AWG AND LARGER UNLESS OTHERWISE INDICATED.
B. CONDUCTOR TERMINATIONS AND CONNECTIONS:
1. CONNECTIONS TO GROUND BUSS: BOLTED CONNECTORS.
2. CONNECTIONS TO STRUCTURAL STEEL: WELDED CONNECTORS.

3.2 EQUIPMENT GROUNDING
A. INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS IN ALL RACEWAYS CONTAINING CURRENT CARRYING CONDUCTORS.

3.3 INSTALLATION
A. GROUNDING CONDUCTORS: ROUTE ALONG SHORTEST AND STRAIGHTEST PATHS POSSIBLE UNLESS OTHERWISE INDICATED OR REQUIRED BY CODE. AVOID OBSTRUCTING ACCESS OR PLACING CONDUCTORS WHERE THEY MAY BE SUBJECTED TO STRAIN, IMPACT, OR DAMAGE.

3.4 LABELING
A. COMPLY WITH REQUIREMENTS IN SECTION 260553 "IDENTIFICATION FOR ELECTRICAL SYSTEMS" FOR INSTRUCTION SIGNS. THE LABEL OR ITS TEXT SHALL BE GREEN.

3.5 FIELD QUALITY CONTROL
A. PERFORM THE FOLLOWING TESTS AND INSPECTIONS AND PREPARE TEST REPORTS:
1. AFTER INSTALLING GROUNDING SYSTEM BUT BEFORE PERMANENT ELECTRICAL CIRCUITS HAVE BEEN ENERGIZED, TEST FOR COMPLIANCE WITH REQUIREMENTS.
2. INSPECT PHYSICAL AND MECHANICAL CONDITION. VERIFY TIGHTNESS OF ACCESSIBLE, BOLTED, ELECTRICAL CONNECTIONS WITH A CALIBRATED TORQUE WRENCH ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
3. TEST COMPLETED GROUNDING SYSTEM AT EACH LOCATION WHERE A MAXIMUM GROUND–RESISTANCE LEVEL IS SPECIFIED.
B. REPORT MEASURED GROUND RESISTANCES THAT EXCEED THE FOLLOWING VALUES:
1. POWER AND LIGHTING EQUIPMENT OR SYSTEM WITH CAPACITY OF 500 KVA AND LESS: 10 OHMS.
2. POWER AND LIGHTING EQUIPMENT OR SYSTEM WITH CAPACITY OF 500 TO 1000 KVA: 5 OHMS.
C. EXCESSIVE GROUND RESISTANCE: IF RESISTANCE TO GROUND EXCEEDS SPECIFIED VALUES, NOTIFY ARCHITECT PROMPTLY AND INCLUDE RECOMMENDATIONS TO REDUCE GROUND RESISTANCE.

SECTION 260533 – RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS

PART 1 – GENERAL

1.1 SUMMARY
A. SECTION INCLUDES:
1. METAL CONDUITS, TUBING, AND FITTINGS.
2. METAL WIREWAYS AND AUXILIARY GUTTERS.
3. SURFACE RACEWAYS.
4. BOXES, ENCLOSURES, AND CABINETS.

1.2 ACTION SUBMITTALS
A. PRODUCT DATA: FOR SURFACE RACEWAYS, WIREWAYS AND FITTINGS.

PART 2 – PRODUCTS

2.1 METAL CONDUITS, TUBING, AND FITTINGS
A. LISTING AND LABELING: METAL CONDUITS, TUBING, AND FITTINGS SHALL BE LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
B. EMT: COMPLY WITH ANSI C80.3 AND UL 797.
C. FITTINGS FOR METAL CONDUIT: COMPLY WITH NEMA FB 1 AND UL 514B.
1. FITTINGS FOR EMT:
a. MATERIAL: STEEL DIE CAST.
b. TYPE: SETSCREW.

2.2 METAL WIREWAYS AND AUXILIARY GUTTERS
A. DESCRIPTION: SHEET METAL, COMPLYING WITH UL 870 AND NEMA 250, TYPE 1 UNLESS OTHERWISE INDICATED, AND SIZED ACCORDING TO NFPA 70.
B. FITTINGS AND ACCESSORIES: INCLUDE COVERS, COUPLINGS, OFFSETS, ELBOWS, EXPANSION JOINTS, ADAPTERS, HOLD–DOWN STRAPS, END CAPS, AND OTHER FITTINGS TO MATCH AND MATE WITH WIREWAYS AS REQUIRED FOR COMPLETE SYSTEM.

2.3 BOXES, ENCLOSURES, AND CABINETS
A. GENERAL REQUIREMENTS FOR BOXES, ENCLOSURES, AND CABINETS: BOXES, ENCLOSURES, AND CABINETS INSTALLED IN WET LOCATIONS SHALL BE LISTED FOR USE IN WET LOCATIONS.
B. SHEET METAL OUTLET AND DEVICE BOXES: COMPLY WITH NEMA OS 1 AND UL 514A.
C. SMALL SHEET METAL PULL AND JUNCTION BOXES: NEMA OS 1.
D. BOX EXTENSIONS USED TO ACCOMMODATE NEW BUILDING FINISHES SHALL BE OF SAME MATERIAL AS RECESSED BOX.
E. DEVICE BOX DIMENSIONS: MINIMUM 4 INCHES SQUARE BY 2–1/8 INCHES DEEP.

PART 3 – EXECUTION

3.1 RACEWAY APPLICATION
A. INDOORS: APPLY RACEWAY PRODUCTS AS SPECIFIED BELOW UNLESS OTHERWISE INDICATED.
1. EXPOSED, NOT SUBJECT TO PHYSICAL DAMAGE: EMT.
2. CONCEALED IN CEILINGS AND INTERIOR WALLS AND PARTITIONS: EMT.
3. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR–DRIVEN EQUIPMENT): FMC, EXCEPT USE LFMC IN DAMP OR WET LOCATIONS.
4. BOXES AND ENCLOSURES: NEMA 250, TYPE 1.
B. MINIMUM RACEWAY SIZE: 3/4–INCH TRADE SIZE.
C. RACEWAY FITTINGS: COMPATIBLE WITH RACEWAYS AND SUITABLE FOR USE AND LOCATION.
1. EMT: USE SETSCREW, STEEL FITTINGS. COMPLY WITH NEMA FB 2.10.
2. FLEXIBLE CONDUIT: USE ONLY FITTINGS LISTED FOR USE WITH FLEXIBLE CONDUIT. COMPLY WITH NEMA FB 2.20.
D. INSTALL SURFACE RACEWAYS ONLY WHERE INDICATED ON DRAWINGS.

3.2 INSTALLATION
A. COMPLY WITH NECA 1 AND NECA 101 FOR INSTALLATION REQUIREMENTS EXCEPT WHERE REQUIREMENTS ON DRAWINGS OR IN THIS ARTICLE ARE STRICTER. COMPLY WITH NFPA 70 LIMITATIONS FOR TYPES OF RACEWAYS ALLOWED IN SPECIFIC OCCUPANCIES AND NUMBER OF FLOORS.
B. KEEP RACEWAYS AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF FLUES AND STEAM OR HOT–WATER PIPES. INSTALL HORIZONTAL RACEWAY RUNS ABOVE WATER AND STEAM PIPING.
C. INSTALL NO MORE THAN THE EQUIVALENT OF THREE 90–DEGREE BENDS IN ANY CONDUIT RUN EXCEPT FOR CONTROL WIRING CONDUITS, FOR WHICH FEWER BENDS ARE ALLOWED. SUPPORT WITHIN 12 INCHES OF CHANGES IN DIRECTION.
D. CONCEAL CONDUIT AND EMT WITHIN FINISHED WALLS, CEILINGS, AND FLOORS UNLESS OTHERWISE INDICATED. INSTALL CONDUITS PARALLEL OR PERPENDICULAR TO BUILDING LINES.
E. SUPPORT CONDUIT WITHIN 12 INCHES OF ENCLOSURES TO WHICH ATTACHED.
F. STUB–UPS TO ABOVE RECESSED CEILINGS:
1. USE EMT FOR RACEWAYS.
2. USE A CONDUIT BUSHING OR INSULATED FITTING TO TERMINATE STUB–UPS NOT TERMINATED IN HUBS OR IN AN ENCLOSURE.
G. INSTALL PULL WIRES IN EMPTY RACEWAYS. USE POLYPROPYLENE OR MONOFILAMENT PLASTIC LINE WITH NOT LESS THAN 200–LB TENSILE STRENGTH. LEAVE AT LEAST 12 INCHES OF SLACK AT EACH END OF PULL WIRE.
H. MOUNT BOXES AT HEIGHTS INDICATED ON DRAWINGS. IF MOUNTING HEIGHTS OF BOXES ARE NOT INDIVIDUALLY INDICATED, GIVE PRIORITY TO ADA REQUIREMENTS.
I. HORIZONTALLY SEPARATE BOXES MOUNTED ON OPPOSITE SIDES OF WALLS SO THEY ARE NOT IN THE SAME VERTICAL CHANNEL.
J. SUPPORT BOXES OF THREE GANGS OR MORE FROM MORE THAN ONE SIDE BY SPANNING TWO FRAMING MEMBERS OR MOUNTING ON BRACKETS SPECIFICALLY DESIGNED FOR THE PURPOSE.
K. FASTEN JUNCTION AND PULL BOXES TO OR SUPPORT FROM BUILDING STRUCTURE. DO NOT SUPPORT BOXES BY CONDUIT.

3.3 FIRESTOPPING
A. INSTALL FIRESTOPPING AT PENETRATIONS OF FIRE–RATED FLOOR AND WALL ASSEMBLIES. COMPLY WITH REQUIREMENTS IN 'HOSPITAL WORK NOTES' ON THE DRAWINGS.

3.4 PROTECTION
A. PROTECT COATINGS, FINISHES, AND CABINETS FROM DAMAGE AND DETERIORATION.
1. REPAIR DAMAGE TO GALVANIZED FINISHES WITH ZINC–RICH PAINT RECOMMENDED BY MANUFACTURER.
2. REPAIR DAMAGE TO PVC COATINGS OR PAINT FINISHES WITH MATCHING TOUCHUP COATING RECOMMENDED BY MANUFACTURER.

SECTION 260553 – IDENTIFICATION FOR ELECTRICAL SYSTEMS

PART 1 – GENERAL

1.1 SUMMARY
A. SECTION INCLUDES:
1. IDENTIFICATION FOR RACEWAYS.
2. IDENTIFICATION OF POWER AND CONTROL CABLES.
3. IDENTIFICATION FOR CONDUCTORS.
4. WARNING LABELS AND SIGNS.
5. MISCELLANEOUS IDENTIFICATION PRODUCTS.

1.2 ACTION SUBMITTALS
A. PRODUCT DATA: FOR EACH ELECTRICAL IDENTIFICATION PRODUCT INDICATED.
1.3 QUALITY ASSURANCE
A. COMPLY WITH ANSI A13.1.
B. COMPLY WITH NFPA 70.
C. COMPLY WITH 29 CFR 1910.144 AND 29 CFR 1910.145.
D. COMPLY WITH ANSI Z535.4 FOR SAFETY SIGNS AND LABELS.
E. ADHESIVE–ATTACHED LABELING MATERIALS, INCLUDING LABEL STOCKS, LAMINATING ADHESIVES, AND INKS USED BY LABEL PRINTERS, SHALL COMPLY WITH UL 969.

PART 2 – PRODUCTS

2.1 CONDUCTOR IDENTIFICATION MATERIALS
A. COLOR–CODING CONDUCTOR TAPE: COLORED, SELF–ADHESIVE VINYL TAPE NOT LESS THAN 3 MILS THICK BY 1 TO 2 INCHES WIDE.
B. SELF–ADHESIVE VINYL LABELS: PREPRINTED, FLEXIBLE LABEL LAMINATED WITH A CLEAR, WEATHER– AND CHEMICAL–RESISTANT COATING AND MATCHING WRAPAROUND ADHESIVE TAPE FOR SECURING ENDS OF LEGEND LABEL.
C. MARKER TAPES: VINYL OR VINYL–CLOTH, SELF–ADHESIVE WRAPAROUND TYPE, WITH CIRCUIT IDENTIFICATION LEGEND MACHINE PRINTED BY THERMAL TRANSFER OR EQUIVALENT PROCESS.

2.2 WARNING LABELS AND SIGNS
A. COMPLY WITH NFPA 70 AND 29 CFR 1910.145.
B. SELF–ADHESIVE WARNING LABELS: FACTORY–PRINTED, MULTICOLOR, PRESSURE–SENSITIVE ADHESIVE LABELS, CONFIGURED FOR DISPLAY ON FRONT COVER, DOOR, OR OTHER ACCESS TO EQUIPMENT UNLESS OTHERWISE INDICATED.
C. BAKED–ENAMEL WARNING SIGNS:
1. PREPRINTED ALUMINUM SIGNS, PUNCHED OR DRILLED FOR FASTENERS, WITH COLORS, LEGEND, AND SIZE REQUIRED FOR APPLICATION.
2. 1/4–INCH GROMMETS IN CORNERS FOR MOUNTING.
3. NOMINAL SIZE, 7 BY 10 INCHES.
D. WARNING LABEL AND SIGN SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING LEGENDS:
1. MULTIPLE POWER SOURCE WARNING: "DANGER – ELECTRICAL SHOCK HAZARD – EQUIPMENT HAS MULTIPLE POWER SOURCES."
FIRST SUBPARAGRAPH BELOW APPLIES TO OSHA REQUIREMENTS FOR BUILDING OPERATIONS AND DOES NOT REFLECT THE CLEAR WORKING SPACE REQUIRED BY NFPA 70.
2. WORKSPACE CLEARANCE WARNING: "WARNING – OSHA REGULATION – AREA IN FRONT OF ELECTRICAL EQUIPMENT MUST BE KEPT CLEAR FOR 36 INCHES."

2.3 EQUIPMENT IDENTIFICATION LABELS
A. ADHESIVE FILM LABEL WITH CLEAR PROTECTIVE OVERLAY: MACHINE PRINTED, IN BLACK, BY THERMAL TRANSFER OR EQUIVALENT PROCESS. MINIMUM LETTER HEIGHT SHALL BE 3/8 INCH. OVERLAY SHALL PROVIDE A WEATHERPROOF AND UV–RESISTANT SEAL FOR LABEL.
B. SELF–ADHESIVE, ENGRAVED, LAMINATED ACRYLIC OR MELAMINE LABEL: ADHESIVE BACKED, WITH WHITE LETTERS ON A DARK–GRAY BACKGROUND. MINIMUM LETTER HEIGHT SHALL BE 3/8 INCH (10 MM).
RETAIN PARAGRAPH BELOW TO SPECIFY TYPE OF LABEL FOR IDENTIFYING OUTDOOR EQUIPMENT IF SPECIFIED IN "IDENTIFICATION SCHEDULE" ARTICLE.

PART 3 – EXECUTION

3.1 INSTALLATION
A. LOCATION: INSTALL IDENTIFICATION MATERIALS AND DEVICES AT LOCATIONS FOR MOST CONVENIENT VIEWING WITHOUT INTERFERENCE WITH OPERATION AND MAINTENANCE OF EQUIPMENT.
B. APPLY IDENTIFICATION DEVICES TO SURFACES THAT REQUIRE FINISH AFTER COMPLETING FINISH WORK.
C. SELF–ADHESIVE IDENTIFICATION PRODUCTS: CLEAN SURFACES BEFORE APPLICATION, USING MATERIALS AND METHODS RECOMMENDED BY MANUFACTURER OF IDENTIFICATION DEVICE.
D. ATTACH SIGNS AND PLASTIC LABELS THAT ARE NOT SELF–ADHESIVE TYPE WITH MECHANICAL FASTENERS APPROPRIATE TO THE LOCATION AND SUBSTRATE.

3.2 IDENTIFICATION SCHEDULE
SPECIFY THAT COLORS FOR FACTORY–ASSEMBLED CABLE, SUCH AS MC AND AC, MUST MATCH COLORS LISTED IN FIRST PARAGRAPH BELOW.
A. POWER–CIRCUIT CONDUCTOR IDENTIFICATION, 600 V OR LESS: FOR CONDUCTORS IN VAULTS, PULL AND JUNCTION BOXES, MANHOLES, AND HANDHOLES, USE COLOR–CODING CONDUCTOR TAPE TO IDENTIFY THE PHASE.
1. COLOR–CODING FOR PHASE AND VOLTAGE LEVEL IDENTIFICATION, 600 V OR LESS: USE COLORS LISTED BELOW FOR UNGROUNDED FEEDER AND BRANCH–CIRCUIT CONDUCTORS.
a. COLOR SHALL BE FACTORY APPLIED OR FIELD APPLIED FOR SIZES LARGER THAN NO. 8 AWG, IF AUTHORITIES HAVING JURISDICTION PERMIT.
b. COLORS FOR 208/120–V CIRCUITS:
1) PHASE A: BLACK.
2) PHASE B: RED.
3) PHASE C: BLUE.
c. COLORS FOR 480/277–V CIRCUITS:
1) PHASE A: BROWN.
2) PHASE B: ORANGE.
3) PHASE C: YELLOW.
d. FIELD–APPLIED, COLOR–CODING CONDUCTOR TAPE: APPLY IN HALF–LAPPED TURNS FOR A MINIMUM DISTANCE OF 6 INCHES FROM TERMINAL POINTS AND IN BOXES WHERE SPLICES OR TAPS ARE MADE. APPLY LAST TWO TURNS OF TAPE WITH NO TENSION TO PREVENT POSSIBLE COORDINATE PARAGRAPH BELOW WITH ELECTRICAL SECTIONS. DELETE ITEMS NOT IN PROJECT.
B. EQUIPMENT IDENTIFICATION LABELS: ON EACH UNIT OF EQUIPMENT, INSTALL UNIQUE DESIGNATION LABEL THAT IS CONSISTENT WITH WIRING DIAGRAMS, SCHEDULES, AND THE OPERATION AND MAINTENANCE MANUAL. APPLY LABELS TO DISCONNECT SWITCHES AND PROTECTION EQUIPMENT, CENTRAL OR MASTER UNITS, CONTROL PANELS, CONTROL STATIONS, TERMINAL CABINETS, AND RACKS OF EACH SYSTEM. SYSTEMS INCLUDE POWER, LIGHTING, CONTROL, COMMUNICATION, SIGNAL, MONITORING, AND ALARM SYSTEMS UNLESS EQUIPMENT IS PROVIDED WITH ITS OWN IDENTIFICATION.
1. LABELING INSTRUCTIONS:
a. INDOOR EQUIPMENT: SELF–ADHESIVE, ENGRAVED, LAMINATED ACRYLIC OR MELAMINE LABEL. UNLESS OTHERWISE INDICATED, PROVIDE A SINGLE LINE OF TEXT WITH 1/2–INCH– HIGH LETTERS ON 1–1/2–INCH– HIGH LABEL; WHERE TWO LINES OF TEXT ARE REQUIRED, USE LABELS 2 INCHES HIGH.
b. UNLESS PROVIDED WITH SELF–ADHESIVE MEANS OF ATTACHMENT, FASTEN LABELS WITH APPROPRIATE MECHANICAL FASTENERS THAT DO NOT CHANGE THE NEMA OR NRTL RATING OF THE ENCLOSURE.

SECTION 260923 – LIGHTING CONTROL DEVICES

PART 1 – GENERAL

1.1 SUMMARY
A. SECTION INCLUDES:
1. INDOOR OCCUPANCY AND VACANCY SENSORS.
2. DIGITAL WALL CONTROL STATIONS.
3. CONDUCTORS AND CABLES.

1.2 ACTION SUBMITTALS
A. PRODUCT DATA:
1. INDOOR OCCUPANCY AND VACANCY SENSORS.
2. SWITCHBOX–MOUNTED OCCUPANCY SENSORS.
3. DIGITAL WALL CONTROL STATIONS.
4. CONDUCTORS AND CABLES.

1.3 SHOP DRAWINGS:
A. PROVIDE INSTALLATION DETAILS FOR THE FOLLOWING:
1. OCCUPANCY SENSORS.
2. INTERCONNECTION DIAGRAMS INDICATING FIELD–INSTALLED WIRING.
3. INCLUDE DIAGRAMS FOR POWER, SIGNAL, AND CONTROL WIRING.
4. FIELD QUALITY–CONTROL REPORTS.

1.4 INFORMATIONAL SUBMITTALS
A. SAMPLE WARRANTY: FOR MANUFACTURER'S WARRANTIES.
B. WARRANTY
1. SPECIAL EXTENDED WARRANTY: MANUFACTURER AND INSTALLER WARRANT THAT INSTALLED LIGHTING CONTROL DEVICES PERFORM IN ACCORDANCE WITH SPECIFIED REQUIREMENTS AND AGREE TO REPAIR OR REPLACE, INCLUDING LABOR, MATERIALS, AND EQUIPMENT, DEVICES THAT FAIL TO PERFORM AS SPECIFIED WITHIN EXTENDED WARRANTY PERIOD.
A. FAILURES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
1. FAULTY OPERATION OF LIGHTING CONTROL SOFTWARE.
2. FAULTY OPERATION OF LIGHTING CONTROL DEVICES.
3. EXTENDED WARRANTY PERIOD: FIVE YEAR(S) FROM DATE OF SHIPMENT.

PART 2 – PRODUCTS

2.1 INDOOR OCCUPANCY AND VACANCY SENSORS
A. GENERAL REQUIREMENTS FOR SENSORS:
1. BUILT INTO THE LIGHT FIXTURES (N–LIGHT TECHNOLOGY) AS SPECIFIED IN THE 'NEW LIGHT FIXTURE SCHEDULE'.
2. HARDWIRED CONNECTIONS TO CONTROL DEVICES.
3. LISTED AND LABELED IN ACCORDANCE WITH NFPA 70, BY A QUALIFIED ELECTRICAL TESTING LABORATORY RECOGNIZED BY AUTHORITIES HAVING JURISDICTION AND MARKED FOR INTENDED LOCATION AND APPLICATION.
B. OPERATION:
1. OCCUPANCY SENSOR: UNLESS OTHERWISE INDICATED, TURN LIGHTS ON WHEN COVERAGE AREA IS OCCUPIED, AND TURN THEM OFF WHEN UNOCCUPIED; WITH A TIME DELAY FOR TURNING LIGHTS OFF, ADJUSTABLE OVER A MINIMUM RANGE OF 1 TO 15 MINUTES.

2.2 DIGITAL WALL CONTROL STATIONS
A. DESCRIPTION: MANUAL CONTROLS FOR ON/OFF, DIMMING AND LIGHTING SCENE SELECTION COMPATIBLE WITH OCCUPANCY AND PHOTOSENSOR CONTROL POWER PACKS ALLOWING USER OVERRIDE OF INDOOR ELECTRICAL LIGHTING LEVELS.
B. WIRED, DIGITAL WALL CONTROLS:
1. BASIS–OF–DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE NLIGHT; ACUITY BRANDS LIGHTING, INC.; MODEL NPODMA OR COMPARABLE PRODUCT BY ONE OF THE FOLLOWING:
COOPER INDUSTRIES, INC.
LEVITON MANUFACTURING CO., INC.
MAXIMUM HUMIDITY: 90 PERCENT, NON–CONDENSING.
SWITCH OUTPUT: DIGITAL SIGNAL COMPATIBLE WITH POWER PACK.
WIRING: TWO RJ–45 PORTS FOR CATEGORY 5E, UTP WIRING TO POWER PACK.
COLOR: WHITE AND RED.

2.3 CONDUCTORS AND CABLES
A. POWER WIRING TO SUPPLY SIDE OF REMOTE–CONTROL POWER SOURCES: NOT SMALLER THAN NO. 12 AWG. COMPLY WITH REQUIREMENTS IN SECTION 260519 "LOW–VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES."
B. CLASSES 2 AND 3 CONTROL CABLE: MULTICONDUCTOR CABLE WITH STRANDED–COPPER CONDUCTORS NOT SMALLER THAN [NO. 18] [NO. 22] [NO. 24] AWG. COMPLY WITH REQUIREMENTS IN SECTION 260519 "LOW–VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES."
C. CLASS 1 CONTROL CABLE: MULTICONDUCTOR CABLE WITH STRANDED–COPPER CONDUCTORS.

PART 3 – EXECUTION

3.1 EXAMINATION
A. EXAMINE LIGHTING CONTROL DEVICES BEFORE INSTALLATION. REJECT LIGHTING CONTROL DEVICES THAT ARE WET, MOISTURE DAMAGED, OR MOLD DAMAGED.
B. EXAMINE WALLS AND CEILINGS FOR SUITABLE CONDITIONS WHERE LIGHTING CONTROL DEVICES WILL BE INSTALLED.
C. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.2 INSTALLATION OF WIRING
A. WIRING METHOD: COMPLY WITH SECTION 260519 "LOW–VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES." MINIMUM CONDUIT SIZE IS 0.75 INCH.
B. WIRING WITHIN ENCLOSURES: SEPARATE POWER–LIMITED AND NONPOWER–LIMITED CONDUCTORS IN ACCORDANCE WITH CONDUCTOR MANUFACTURER'S INSTRUCTIONS.
C. SIZE CONDUCTORS IN ACCORDANCE WITH LIGHTING CONTROL DEVICE MANUFACTURER'S INSTRUCTIONS UNLESS OTHERWISE INDICATED.

3.3 SPLICES, TAPS, AND TERMINATIONS: MAKE CONNECTIONS ONLY ON NUMBERED TERMINAL STRIPS IN JUNCTION, PULL, DEVICE, AND OUTLET BOXES; TERMINAL CABINETS; AND EQUIPMENT ENCLOSURES.

3.4 IDENTIFICATION
A. IDENTIFY COMPONENTS AND POWER AND CONTROL WIRING IN ACCORDANCE WITH SECTION 260553 "IDENTIFICATION FOR ELECTRICAL SYSTEMS."
LABEL TIME SWITCHES AND CONTACTORS WITH A UNIQUE DESIGNATION.

3.5 FIELD QUALITY CONTROL
A. FIELD TESTS MUST BE WITNESSED BY THE IOR.
B. TESTS AND INSPECTIONS:
1. OPERATIONAL TEST: AFTER INSTALLING TIME SWITCHES AND SENSORS, AND AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, START UNITS TO CONFIRM PROPER UNIT OPERATION.
TEST AND ADJUST CONTROLS AND SAFETIES. REPLACE DAMAGED AND MALFUNCTIONING CONTROLS AND EQUIPMENT.

3.6 NONCONFORMING WORK:
A. LIGHTING CONTROL DEVICES WILL BE CONSIDERED DEFECTIVE IF THEY DO NOT PASS TESTS AND INSPECTIONS.
B. REMOVE AND REPLACE DEFECTIVE UNITS AND RETEST.
C. PREPARE TEST AND INSPECTION REPORTS.

3.7 ADJUSTING
A. OCCUPANCY ADJUSTMENTS: WHEN REQUESTED WITHIN 6 MONTHS FROM DATE OF SUBSTANTIAL COMPLETION, PROVIDE ON–SITE ASSISTANCE IN ADJUSTING LIGHTING CONTROL DEVICES TO SUIT ACTUAL OCCUPIED CONDITIONS. PROVIDE UP TO TWO VISITS TO PROJECT DURING OTHER–THAN–NORMAL OCCUPANCY HOURS FOR THIS PURPOSE.
B. FOR OCCUPANCY AND MOTION SENSORS, VERIFY OPERATION AT OUTER LIMITS OF DETECTOR RANGE. SET TIME DELAY TO SUIT OWNER'S OPERATIONS.

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET,
SUITE 1500,
SAN FRANCISCO, CA 94104
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET,
SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

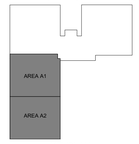
ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA
95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

NATIVIDAD MEDICAL CENTER

NATIVIDAD MEDICAL CENTER
MEDICAL SURGERY DEPARTMENT
LEVEL 3
1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVI

ELECTRICAL SPECIFICATIONS

SECTION 262726 – WIRING DEVICES

PART 1 – GENERAL

1.1 SUMMARY
A. SECTION INCLUDES:
1. GENERAL–USE SWITCHES, DIMMER SWITCHES, AND FAN–SPEED CONTROLLER SWITCHES.
2. GENERAL–GRADE SINGLE STRAIGHT–BLADE RECEPTACLES.
3. GENERAL–GRADE DUPLEX STRAIGHT–BLADE RECEPTACLES.
4. HOSPITAL–GRADE STRAIGHT–BLADE RECEPTACLES.
5. SPECIAL–PURPOSE POWER OUTLET ASSEMBLIES.
B. PRODUCT DATA:
1. SWITCHES.
2. DIMMER SWITCHES.
3. SINGLE STRAIGHT–BLADE RECEPTACLES
4. DUPLEX STRAIGHT–BLADE RECEPTACLES.
5. HOSPITAL–GRADE STRAIGHT–BLADE RECEPTACLES.
6. RECEPTACLES WITH GFCI DEVICE.
7. LOCKING RECEPTACLES.

1.2 INFORMATIONAL SUBMITTALS
A. MANUFACTURERS' INSTRUCTIONS: RECORD COPY OF OFFICIAL INSTALLATION AND TESTING INSTRUCTIONS ISSUED TO INSTALLER BY MANUFACTURER FOR THE FOLLOWING:
1. DIMMERS.
2. SINGLE STRAIGHT–BLADE RECEPTACLES.
3. DUPLEX STRAIGHT–BLADE RECEPTACLES.
4. HOSPITAL–GRADE STRAIGHT–BLADE RECEPTACLES.
5. RECEPTACLES WITH GFCI DEVICE.
6. LOCKING RECEPTACLES.

1.3 WARRANTY FOR DEVICES
A. SPECIAL MANUFACTURER EXTENDED WARRANTY: MANUFACTURER WARRANTS THAT DEVICES PERFORM IN ACCORDANCE WITH SPECIFIED REQUIREMENTS AND AGREES TO PROVIDE REPAIR OR REPLACEMENT OF DEVICES THAT FAIL TO PERFORM AS SPECIFIED WITHIN EXTENDED WARRANTY PERIOD.
1. WARRANTY PERIOD: MINIMUM OF TWO YEARS FROM DATE OF SUBSTANTIAL COMPLETION; PRORATED COVERAGE FOR LABOR, MATERIALS, AND EQUIPMENT.

PART 2 – PRODUCTS

2.1 GENERAL–USE SWITCHES, AND DIMMER SWITCHES
A. TOGGLE SWITCH:
1. REFER TO THE SYMBOL LIST ON THE DRAWINGS.
2. REGULATORY REQUIREMENTS:
A. LISTED AND LABELED IN ACCORDANCE WITH NFPA 70, BY QUALIFIED ELECTRICAL TESTING LABORATORY RECOGNIZED BY AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
3. GENERAL CHARACTERISTICS:
A. REFERENCE STANDARDS: UL CCN WMUZ AND UL 20.
4. OPTIONS:
A. DEVICE COLOR: MATCH THE EXISTING IN THE FACILITY.
5. ACCESSORIES:
A. COVER PLATE: 0.060 INCH (1.5 MM) THICK, HIGH–IMPACT THERMOPLASTIC (NYLON) WITH SMOOTH FINISH AND COLOR MATCHING WIRING DEVICE; FROM SAME MANUFACTURER AS WIRING DEVICE.
B. TYPE I DIMMER SWITCH:
1. REFER TO THE SYMBOL LIST ON THE DRAWINGS.
2. REGULATORY REQUIREMENTS:
A. LISTED AND LABELED IN ACCORDANCE WITH NFPA 70, BY QUALIFIED ELECTRICAL TESTING LABORATORY RECOGNIZED BY AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
3. GENERAL CHARACTERISTICS:
A. REFERENCE STANDARDS: UL CCN EOYX AND UL 1472 TYPE I DIMMER.
4. OPTIONS:
A. DEVICE COLOR: MATCH FACILITY EXISTING COLORS..
5. ACCESSORIES:
A. COVER PLATE: 0.060 INCH (1.5 MM) THICK, HIGH–IMPACT THERMOPLASTIC (NYLON) WITH SMOOTH FINISH AND COLOR MATCHING WIRING DEVICE; FROM SAME MANUFACTURER AS WIRING DEVICE.
B. SECURING SCREWS FOR COVER PLATE: METAL WITH HEAD COLOR MATCHING WALLPLATE FINISH.

2.2 GENERAL–GRADE SINGLE STRAIGHT–BLADE RECEPTACLES
A. SINGLE STRAIGHT–BLADE RECEPTACLE:
1. REFER TO THE SYMBOL LIST ON THE DRAWINGS
2. REGULATORY REQUIREMENTS:
A. LISTED AND LABELED IN ACCORDANCE WITH NFPA 70, BY QUALIFIED ELECTRICAL TESTING LABORATORY RECOGNIZED BY AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
3. GENERAL CHARACTERISTICS:
A. REFERENCE STANDARDS: UL CCN RTRT AND UL 498.
4. OPTIONS:
A. DEVICE COLOR: MATCH THE FACILITY EXISTING.
5. ACCESSORIES:
A. COVER PLATE: 0.060 INCH (1.5 MM) THICK, HIGH–IMPACT THERMOPLASTIC (NYLON) WITH SMOOTH FINISH AND COLOR MATCHING WIRING DEVICE; FROM SAME MANUFACTURER AS WIRING DEVICE.
B. SECURING SCREWS FOR COVER PLATE: METAL WITH HEAD COLOR MATCHING WALLPLATE FINISH.
B. TAMPER–RESISTANT, CLOCK HANGER STRAIGHT–BLADE RECEPTACLE:
1. REFER TO THE SYMBOL LIST ON THE DRAWINGS
2. REGULATORY REQUIREMENTS:
A. LISTED AND LABELED IN ACCORDANCE WITH NFPA 70, BY QUALIFIED ELECTRICAL TESTING LABORATORY RECOGNIZED BY AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
3. GENERAL CHARACTERISTICS:
A. REFERENCE STANDARDS: UL CCN RTRT AND UL 498.
4. OPTIONS:
A. FINISH: MATCH EXISTING IN THE FACILITY.

2.3 GENERAL–GRADE DUPLEX STRAIGHT–BLADE RECEPTACLES
A. DUPLEX STRAIGHT–BLADE RECEPTACLE:
1. REFER TO THE SYMBOL LIST ON THE DRAWINGS
2. REGULATORY REQUIREMENTS:
A. LISTED AND LABELED IN ACCORDANCE WITH NFPA 70, BY QUALIFIED ELECTRICAL TESTING LABORATORY RECOGNIZED BY AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
3. GENERAL CHARACTERISTICS:
A. REFERENCE STANDARDS: UL CCN RTRT AND UL 498.
4. OPTIONS:
A. DEVICE COLOR: MATCH THE FACILITY EXISTING..
5. ACCESSORIES:
A. COVER PLATE: 0.060 INCH (1.5 MM) THICK, HIGH–IMPACT THERMOPLASTIC (NYLON) WITH SMOOTH FINISH AND COLOR MATCHING WIRING DEVICE; FROM SAME MANUFACTURER AS WIRING DEVICE.
B. SECURING SCREWS FOR COVER PLATE: METAL WITH HEAD COLOR MATCHING WALLPLATE FINISH.
B. TAMPER–RESISTANT DUPLEX STRAIGHT–BLADE RECEPTACLE:
1. REFER TO THE SYMBOL LIST ON THE DRAWINGS
2. REGULATORY REQUIREMENTS:
A. LISTED AND LABELED IN ACCORDANCE WITH NFPA 70, BY QUALIFIED ELECTRICAL TESTING LABORATORY RECOGNIZED BY AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
3. GENERAL CHARACTERISTICS:
A. REFERENCE STANDARDS: UL CCN RTRT AND UL 498.
4. OPTIONS:
A. DEVICE COLOR: MATCH FACILITY EXISTING.
B. CONFIGURATION:
C. COVER PLATE: 0.060 INCH (1.5 MM) THICK, HIGH–IMPACT THERMOPLASTIC (NYLON) WITH SMOOTH FINISH AND COLOR MATCHING WIRING DEVICE; FROM SAME MANUFACTURER AS WIRING DEVICE.
D. SECURING SCREWS FOR COVER PLATE: METAL WITH HEAD COLOR MATCHING WALLPLATE FINISH.
C. TAMPER–RESISTANT DUPLEX STRAIGHT–BLADE RECEPTACLE WITH USB OUTLET TO POWER CLASS 2 EQUIPMENT:
1. REFER TO THE SYMBOL LIST ON THE DRAWINGS
2. REGULATORY REQUIREMENTS:
A. LISTED AND LABELED IN ACCORDANCE WITH NFPA 70, BY QUALIFIED ELECTRICAL TESTING LABORATORY RECOGNIZED BY AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
3. GENERAL CHARACTERISTICS:
A. REFERENCE STANDARDS: UL CCN RTRT AND UL 498.
4. OPTIONS:
A. DEVICE COLOR: MATCH THE FACILITY EXISTING.
B. CONFIGURATION:
5. ACCESSORIES:
A. COVER PLATE: 0.060 INCH (1.5 MM) THICK, HIGH–IMPACT THERMOPLASTIC (NYLON) WITH SMOOTH FINISH AND COLOR MATCHING WIRING DEVICE; FROM SAME MANUFACTURER AS WIRING DEVICE.
B. SECURING SCREWS FOR COVER PLATE: METAL WITH HEAD COLOR MATCHING WALLPLATE FINISH.

2.4 HOSPITAL–GRADE STRAIGHT–BLADE RECEPTACLES
A. HOSPITAL–GRADE, NON–FERROUS DUPLEX STRAIGHT–BLADE RECEPTACLE:
1. REFER TO THE SYMBOL LIST ON THE DRAWINGS
2. REGULATORY REQUIREMENTS:
A. LISTED AND LABELED IN ACCORDANCE WITH NFPA 70, BY QUALIFIED ELECTRICAL TESTING LABORATORY RECOGNIZED BY AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
3. GENERAL CHARACTERISTICS:
A. REFERENCE STANDARDS: UL CCN RTRT AND UL 498.
4. OPTIONS:
A. DEVICE COLOR: MATCH THE FACILITY EXISTING.
B. CONFIGURATION: EXTRA–HEAVY–DUTY, NEMA 5–20R.
5. ACCESSORIES:
A. COVER PLATE: 0.060 INCH (1.5 MM) THICK, HIGH–IMPACT THERMOPLASTIC (NYLON) WITH SMOOTH FINISH AND COLOR MATCHING WIRING DEVICE; FROM SAME MANUFACTURER AS WIRING DEVICE.
B. SECURING SCREWS FOR COVER PLATE: METAL WITH HEAD COLOR MATCHING WALLPLATE FINISH.
B. HOSPITAL–GRADE, TAMPER–RESISTANT DUPLEX STRAIGHT–BLADE RECEPTACLE:
1. REFER TO THE SYMBOL LIST ON THE DRAWINGS.
2. REGULATORY REQUIREMENTS:
A. LISTED AND LABELED IN ACCORDANCE WITH NFPA 70, BY QUALIFIED ELECTRICAL TESTING LABORATORY RECOGNIZED BY AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
3. GENERAL CHARACTERISTICS:
A. REFERENCE STANDARDS: UL CCN RTRT AND UL 498.
4. OPTIONS:
A. DEVICE COLOR: MATCH EXISTING AT FACILITY.
B. CONFIGURATION:
1) HEAVY–DUTY, NEMA 5–20R.
5. ACCESSORIES:
A. COVER PLATE: 0.060 INCH (1.5 MM) THICK, HIGH–IMPACT THERMOPLASTIC (NYLON) WITH SMOOTH FINISH AND COLOR MATCHING WIRING DEVICE; FROM SAME MANUFACTURER AS WIRING DEVICE.
B. SECURING SCREWS FOR COVER PLATE: METAL WITH HEAD COLOR MATCHING WALLPLATE FINISH.
C. HOSPITAL–GRADE, TAMPER–RESISTANT DUPLEX STRAIGHT–BLADE RECEPTACLE WITH USB OUTLET TO POWER CLASS 2 EQUIPMENT:
1. REFER TO THE SYMBOL LIST ON THE DRAWINGS
2. REGULATORY REQUIREMENTS:
A. LISTED AND LABELED IN ACCORDANCE WITH NFPA 70, BY QUALIFIED ELECTRICAL TESTING LABORATORY RECOGNIZED BY AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
3. GENERAL CHARACTERISTICS:
A. REFERENCE STANDARDS: UL CCN RTRT AND UL 498.
4. OPTIONS:
A. DEVICE COLOR: MATCH FACILITY EXISTING.
B. CONFIGURATION:
1) HEAVY–DUTY, NEMA 5–20R; TWO USB PORTS.
5. ACCESSORIES:
A. COVER PLATE: 0.060 INCH (1.5 MM) THICK, HIGH–IMPACT THERMOPLASTIC (NYLON) WITH SMOOTH FINISH AND COLOR MATCHING WIRING DEVICE; FROM SAME MANUFACTURER AS WIRING DEVICE.
B. SECURING SCREWS FOR COVER PLATE: METAL WITH HEAD COLOR MATCHING WALLPLATE FINISH.

2.5 LOCKING RECEPTACLES
A. NEMA, 125 V, LOCKING RECEPTACLE:
1. REFER TO THE SYMBOL LIST ON THE DRAWINGS
2. REGULATORY REQUIREMENTS:
A. LISTED AND LABELED IN ACCORDANCE WITH NFPA 70, BY QUALIFIED ELECTRICAL TESTING LABORATORY RECOGNIZED BY AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
3. GENERAL CHARACTERISTICS:
A. REFERENCE STANDARDS: UL CCN RTRT AND UL 498.

PART 3 – EXECUTION

3.1 EXAMINATION
A. RECEPTACLES:
1. VERIFY THAT RECEPTACLES TO BE PROCURED AND INSTALLED FOR OWNER–FURNISHED EQUIPMENT ARE COMPATIBLE WITH MATING ATTACHMENT PLUGS ON EQUIPMENT.

3.2 SELECTION OF GFCI RECEPTACLES
A. HEALTHCARE FACILITIES: PROVIDE NON–FEED–THROUGH GFCI RECEPTACLES.

3.3 INSTALLATION OF SWITCHES
A. COMPLY WITH MANUFACTURER'S INSTRUCTIONS.
B. REFERENCE STANDARDS:
1. UNLESS MORE STRINGENT REQUIREMENTS ARE SPECIFIED IN CONTRACT DOCUMENTS OR MANUFACTURERS' INSTRUCTIONS, COMPLY WITH INSTALLATION INSTRUCTIONS IN NECA NEIS 130.
2. MOUNTING HEIGHTS: UNLESS OTHERWISE INDICATED IN CONTRACT DOCUMENTS, COMPLY WITH MOUNTING HEIGHTS RECOMMENDED IN NECA NEIS 1.
3. CONSULT ARCHITECT FOR RESOLUTION OF CONFLICTING REQUIREMENTS.
C. IDENTIFICATION:
1. IDENTIFY COVER OR COVER PLATE FOR DEVICE WITH PANELBOARD IDENTIFICATION AND CIRCUIT NUMBER IN ACCORDANCE WITH SECTION 260553 "IDENTIFICATION FOR ELECTRICAL SYSTEMS."
A. HEALTHCARE FACILITIES: DISTINCTIVELY IDENTIFY COVERS OR COVER PLATES OF DEVICE BOXES AND OUTLET BOXES THAT ARE SUPPLIED FROM LIFE SAFETY AND CRITICAL BRANCH POWER SUPPLIES FOLLOWING FACILITY'S STANDARD PRACTICE.
D. INTERFACES WITH OTHER WORK:
1. COORDINATE INSTALLATION OF NEW PRODUCTS WITH EXISTING CONDITIONS.

SECTION 262816 – ENCLOSED SWITCHES AND CIRCUIT BREAKERS

PART 1 – GENERAL

1.1 SUMMARY
A. SECTION INCLUDES:
1. MOLDED–CASE CIRCUIT BREAKERS (MCCBS).
2. ENCLOSURES.

1.2 DEFINITIONS
A. NC: NORMALLY CLOSED.
B. NO: NORMALLY OPEN.
C. SPDT: SINGLE POLE, DOUBLE THROW.

1.3 PERFORMANCE REQUIREMENTS
A. SEISMIC PERFORMANCE: ENCLOSED SWITCHES AND CIRCUIT BREAKERS SHALL WITHSTAND THE EFFECTS OF EARTHQUAKE MOTIONS DETERMINED ACCORDING TO OSHP&D.

1.4 ACTION SUBMITTALS
A. PRODUCT DATA: FOR EACH TYPE OF ENCLOSED CIRCUIT BREAKER, ACCESSORY, AND COMPONENT INDICATED.

1.5 INFORMATIONAL SUBMITTALS
A. SEISMIC QUALIFICATION CERTIFICATES: FOR ENCLOSED SWITCHES AND CIRCUIT BREAKERS, ACCESSORIES, AND COMPONENTS, FROM MANUFACTURER.

1.6 CLOSEOUT SUBMITTALS
A. OPERATION AND MAINTENANCE DATA.

1.7 QUALITY ASSURANCE
A. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
B. COMPLY WITH NFPA 70.

PART 2 – PRODUCTS

2.1 MOLDED–CASE CIRCUIT BREAKERS
A. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS SPECIFIED ON THE DRAWINGS.
B. GENERAL REQUIREMENTS: COMPLY WITH UL 489, NEMA AB 1, AND NEMA AB 3, WITH INTERRUPTING CAPACITY TO COMPLY WITH AVAILABLE FAULT CURRENTS.
C. THERMAL–MAGNETIC CIRCUIT BREAKERS: INVERSE TIME–CURRENT ELEMENT FOR LOW–LEVEL OVERLOADS AND INSTANTANEOUS MAGNETIC TRIP ELEMENT FOR SHORT CIRCUITS.
D. FEATURES AND ACCESSORIES:
1. STANDARD FRAME SIZES, TRIP RATINGS, AND NUMBER OF POLES.
2. LUGS: SUITABLE FOR NUMBER, SIZE, TRIP RATINGS, AND CONDUCTOR MATERIAL.
3. SHUNT TRIP: TRIP COIL ENERGIZED FROM SEPARATE CIRCUIT, WITH COIL–CLEARING CONTACT.
2.2 ENCLOSURES
A. ENCLOSED SWITCHES AND CIRCUIT BREAKERS: NEMA AB 1, NEMA KS 1, NEMA 250, AND UL 50, TO COMPLY WITH ENVIRONMENTAL CONDITIONS AT INSTALLED LOCATION.
1. INDOOR, DRY AND CLEAN LOCATIONS: NEMA 250, TYPE 1.

PART 3 – EXECUTION

3.1 INSTALLATION
A. INSTALL INDIVIDUAL WALL–MOUNTED CIRCUIT BREAKERS WITH TOPS AT UNIFORM HEIGHT UNLESS OTHERWISE INDICATED.

3.2 IDENTIFICATION
A. COMPLY WITH REQUIREMENTS IN SECTION 260553 "IDENTIFICATION FOR ELECTRICAL SYSTEMS."
1. IDENTIFY FIELD–INSTALLED CONDUCTORS, INTERCONNECTING WIRING, AND COMPONENTS; PROVIDE WARNING SIGNS.
2. LABEL EACH ENCLOSURE WITH ENGRAVED METAL OR LAMINATED–PLASTIC NAMEPLATE.

3.3 FIELD QUALITY CONTROL
A. PERFORM TESTS AND INSPECTIONS.
B. ACCEPTANCE TESTING PREPARATION:
1. TEST INSULATION RESISTANCE FOR EACH ENCLOSED CIRCUIT BREAKER, COMPONENT, CONNECTING SUPPLY, FEEDER, AND CONTROL CIRCUIT.
2. TEST CONTINUITY OF EACH CIRCUIT.
C. TESTS AND INSPECTIONS:
1. PERFORM EACH VISUAL AND MECHANICAL INSPECTION AND ELECTRICAL TEST STATED IN NETA ACCEPTANCE TESTING SPECIFICATION. CERTIFY COMPLIANCE WITH TEST PARAMETERS.
2. CORRECT MALFUNCTIONING UNITS ON–SITE, WHERE POSSIBLE, AND RETEST TO DEMONSTRATE COMPLIANCE; OTHERWISE, REPLACE WITH NEW UNITS AND RETEST.
D. ENCLOSED SWITCHES AND CIRCUIT BREAKERS WILL BE CONSIDERED DEFECTIVE IF THEY DO NOT PASS TESTS AND INSPECTIONS.
E. PREPARE TEST AND INSPECTION REPORTS, INCLUDING A CERTIFIED REPORT THAT IDENTIFIES ENCLOSED SWITCHES AND CIRCUIT BREAKERS AND THAT DESCRIBES SCANNING RESULTS. INCLUDE NOTATION OF DEFICIENCIES DETECTED, REMEDIAL ACTION TAKEN, AND OBSERVATIONS AFTER REMEDIAL ACTION.

SECTION 265100 – INTERIOR LIGHTING

PART 1 – GENERAL

1.1 SUMMARY
A. SECTION INCLUDES:
1. INTERIOR LIGHTING FIXTURES, LAMPS, AND BALLASTS.
2. EMERGENCY LIGHTING UNITS.
3. LIGHTING FIXTURE SUPPORTS.

1.2 ACTION SUBMITTALS
A. PRODUCT DATA: FOR EACH TYPE OF LIGHTING FIXTURE, ARRANGED IN ORDER OF FIXTURE DESIGNATION. INCLUDE DATA ON FEATURES, ACCESSORIES, AND FINISHES.
1.3 INFORMATIONAL SUBMITTALS
A. FIELD QUALITY–CONTROL REPORTS.

1.4 QUALITY ASSURANCE
A. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
B. COMPLY WITH NFPA 70.

PART 2 – PRODUCTS

2.1 MANUFACTURERS
A. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCT INDICATED ON DRAWINGS OR APPROVED EQUAL.
2.2 GENERAL REQUIREMENTS FOR LIGHTING FIXTURES AND COMPONENTS
A. RECESSED FIXTURES: COMPLY WITH NEMA LE 4 FOR CEILING COMPATIBILITY FOR RECESSED FIXTURES.
B. METAL PARTS: FREE OF BURRS AND SHARP CORNERS AND EDGES.
C. SHEET METAL COMPONENTS: STEEL UNLESS OTHERWISE INDICATED. FORM AND SUPPORT TO PREVENT WARPING AND SAGGING.
D. DOORS, FRAMES, AND OTHER INTERNAL ACCESS: SMOOTH OPERATING, FREE OF LIGHT LEAKAGE UNDER OPERATING CONDITIONS, AND DESIGNED TO PERMIT RELAMPING WITHOUT USE OF TOOLS. DESIGNED TO PREVENT DOORS, FRAMES, LENSES, DIFFUSERS, AND OTHER COMPONENTS FROM FALLING ACCIDENTALLY DURING RELAMPING AND WHEN SECURED IN OPERATING POSITION.
E. DIFFUSERS AND GLOBES:
1. ACRYLIC LIGHTING DIFFUSERS: 100 PERCENT VIRGIN ACRYLIC PLASTIC. HIGH RESISTANCE TO YELLOWING AND OTHER CHANGES DUE TO AGING, EXPOSURE TO HEAT, AND UV RADIATION.
a. UV STABILIZED.

PART 3 – EXECUTION

3.1 INSTALLATION
A. LIGHTING FIXTURES: SET LEVEL, PLUMB, AND SQUARE WITH CEILINGS AND WALLS. INSTALL LAMPS IN EACH FIXTURE.
B. COMPLY WITH NFPA 70 FOR MINIMUM FIXTURE SUPPORTS.
C. ADJUST AIMABLE LIGHTING FIXTURES TO PROVIDE REQUIRED LIGHT INTENSITIES.
D. CONNECT WIRING ACCORDING TO SECTION 260519 "LOW–VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES."
3.2 FIELD QUALITY CONTROL
A. TEST FOR EMERGENCY LIGHTING: INTERRUPT POWER SUPPLY TO DEMONSTRATE PROPER OPERATION. VERIFY TRANSFER FROM NORMAL POWER TO BATTERY AND RETRANSFER TO NORMAL.
B. PREPARE A WRITTEN REPORT OF TESTS, INSPECTIONS, OBSERVATIONS, AND VERIFICATIONS INDICATING AND INTERPRETING RESULTS. IF ADJUSTMENTS ARE MADE TO LIGHTING SYSTEM, RETEST TO DEMONSTRATE COMPLIANCE WITH STANDARDS.

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET,
SUITE 1500,
SAN FRANCISCO, CA 94104
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET,
SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA
95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

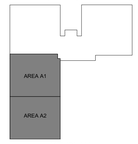
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S240593-27-00
Russell Rocker

HCAI APPROVAL

REMAN PERRY, No. E 19566, Exp. 6-30-25, REGISTERED PROFESSIONAL ENGINEER, ELECTRICAL, STATE OF CALIFORNIA
04/23/24

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

Int • Elect Engineering Incorporated
1487 Finch Lane
Gilroy, California 95020
(408) 846-7171

Project No. 22110

© 2024

*** READ THE SPECIFICATIONS !**

READ THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. IN CASE OR CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE RESTRICTIVE REQUIREMENTS SHALL TAKE PRECEDENCE.

THIS DRAWING AND THE DESIGN HEREON ARE INTENDED FOR THIS ONE SPECIFIC PROJECT ONLY. ANY USE OR RE–USE BEYOND THIS ONE PROJECT IS THE SOLE RESPONSIBILITY OF THE USER.

ALTHOUGH A "SCALE" MAY BE INDICATED, THE INFORMATION ON THIS DRAWING IS APPROXIMATE AND DIAGRAMMATIC ONLY, AND SHALL NOT BE SCALED TO OBTAIN DISTANCES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THE INTENT AND USE OF THESE DRAWINGS.

ELECTRICAL SPECIFICATIONS - PART 2

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

E502

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

BC1 - BACKCHECK 1 - 12.13.2024
- SECTION 082000 - REVISIONS MADE
- APPENDIX B&C - ADDED

Natividad MEDICAL CENTER

Natividad Medical Center
Medical Surgery Department

Project Manual
Volume 1 of 1
Divisions 00 thru 11

HCAI Record Number: S240593-27-00

Construction Documents
April 16, 2024

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
S240593-27-00
Russell Rocker, Sr. Architect
Apr 09, 2025
Department of Health Care Access and Information
Office of Statewide Hospital Planning & Development

HGA

Hammel, Green and Abrahamson, Inc.
222 Sutter Street, Suite 500
San Francisco, California 94108-4456
415.814.6910 | HGA.COM

HGA Commission No. 3707-016-00
© 2024 HGA, Inc.

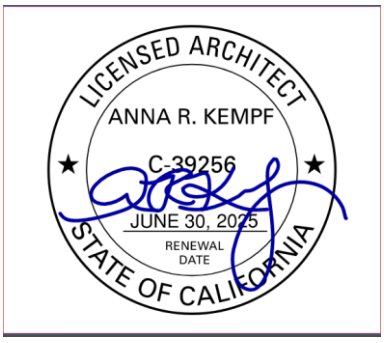
This page intentionally left blank.

SECTION 000105
CERTIFICATIONS PAGE

1.1 ARCHITECTURAL

I hereby certify that the plans and specifications for Architectural Work were prepared by me or under my direct supervision and that I am a duly licensed Architect under the laws of the State of California.

Anna R. Kempf No. C-39256



END OF DOCUMENT

This page intentionally left blank.

SECTION 000110
TABLE OF CONTENTS

COVER & TABLE OF CONTENTS
000101 - Project Title Page (SAN)
000110 - Table of Contents

DIVISION 00 — PROCUREMENT AND CONTRACTING REQUIREMENTS
000105 - Certifications Page

DIVISION 01 — GENERAL REQUIREMENTS
011100 - Summary of Work
012600 - Contract Modification Procedures
012613 - Requests for Interpretation
012900 - Payment Procedures
013100 - Project Management & Coordination
013150 - Project Data Base Administration
013200 - Construction Progress Schedules
013230 - Photographic Documentation
013300 - Submittal Procedures
013310 - Submittal Transmittal Form
013513 - Special Project Procedures for Healthcare Facilities
014111 - HCAI Administrative Requirements
014500 - Quality Requirements
015000 - Temporary Facilities & Controls
015717 - Construction Noise Control
016000 - Product Requirements & Substitution Procedures
016211 - Substitution Request Form
017132 - Vibration Monitoring
017300 - Execution
017324 - Anchorage and Sleeving
017329 - Cutting & Patching
017420 - Construction Waste Management
017700 - Closeout Procedures
017800 - Closeout Submittals
017900 - Demonstration and Training
018150 - CALGreen Environmental Requirements

DIVISION 02 — EXISTING CONDITIONS
024130 - Interior Selective Demolition

DIVISION 05 — METALS
057200 - Decorative Railings

DIVISION 06 — WOOD, PLASTICS, AND COMPOSITES
061000 - Rough Carpentry
064000 - Architectural Woodwork

DIVISION 07 — THERMAL AND MOISTURE PROTECTION
078100 - Applied Fireproofing
078443 - Fire-Resistant Joint Systems
079100 - Preformed Joint Seals
079200 - Joint Sealants

DIVISION 08 — OPENINGS
081113 - Hollow Metal Doors & Frames
082000 - Sliding Door Assemblies
087100 - Door Hardware
087113 - Automatic Door Operators
088100 - Interior Glazing
088700 - Glass Surface Film

DIVISION 09 — FINISHES
091330 - Concrete Surface Treatments
092200 - Non-Structural Metal Framing
092900 - Gypsum Board
093000 - Tiling
095100 - Acoustical Ceilings
096001 - Flooring Transition Strips
096500 - Resilient Flooring
099000 - Painting

DIVISION 10 — SPECIALTIES
102123 - Hospital Tracks & Cubicle Curtains
102600 - Wall & Door Protection
102813 - Toilet & Building Accessories
105113 - Metal Lockers

DIVISION 11 — EQUIPMENT
115200 - Audio-Visual Equipment

BC1

APPENDIX A - NOT USED

APPENDIX B - UL LISTINGS

APPENDIX C - OMPs & OSPs

SECTION 011100
SUMMARY OF WORK

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Description of construction delivered under a single contract.
   2. Restrictions that affect construction operations.
   3. Use of buildings, premises and site.

1.2 GENERAL SUMMARY OF WORK AND ADDITIONAL DEFINITIONS

A. Owner: Natividad Medical Center

B. Project Location: 1441 Constitution Boulevard, Salinas, CA 93906.

C. General Scope: Project consists of upgrading existing Medical-Surgical Inpatient Unit.
   1. Level 3 of Natividad Medical Center Hospital, bringing unit up to other recently upgraded units, as follows:
      a. Adding charting stations to each patient room and hallway stations, (2).
      b. Converting select group of private rooms to semi-privates.
      c. Upgrading lighting at patient headwalls (to support #2).
      d. Upgrading finishes at toilet rooms (including making three toilet-shower rooms accessible).
      e. Upgrading finishes to patient rooms and select portions of public corridors as described within scope of Contract Documents.
   2. Work Included: Provide labor, materials, articles, equipment, incidentals, items, tools, services, supplies, methods, operations, skills in such quantities as may be necessary to complete Project within intent of Contract Documents.
   3. Singular notations shall be considered plural where plural application is reasonably inferable. Mention or indication of extent of work under work division or specification section is done only for convenience of Contractor and shall not be construed as describing all work required under that Division or Section.

D. Construction Contract: Construction will be accomplished under a single Prime Contract including General Construction, Mechanical and Electrical work.

E. Construction Limits: Except as specifically indicated or as may be necessary to complete the Work under the Contract, activities of the Contract shall be limited to within the limits designated on Drawings.

1.3 PROJECT DELIVERY

A. Negotiated Contract:
   1. Pre-Construction: Owner has entered into a negotiated agreement with General Contractor to complete pre-construction services consisting of cost estimating, scheduling, evaluation and recommendations for construction systems.
   2. Construction: Construction will be accomplished under a single Prime Contract. It is anticipated that following completion of Construction Documents, the Owner will contract with General Contractor for the completion of construction. Subcontracts will be competitively bid.

B. Bidding Method: Project will be competitively bid to invited prime contract bidders for a single stipulated sum contract.

C. Bidding Method: Owner and preselected prime contractor will competitively bid contracts and subcontracts for the complete work.
   1. Multiple subcontractors will be invited to submit competitive bids.

D. Bidding Method: Project will be negotiated with prime General Contractor and award will be based on a guaranteed maximum price (GMP).
   1. Multiple subcontractors will be invited to submit competitive bids.

E. Bidding Method: Multiple Prime contracts administered by Construction Manager.

F. Construction Manager (Advisor): Construction Manager has been engaged for this Project to serve as an advisor to Owner and to provide assistance in administering the Contract for construction between Owner and[**each**] Contractor, according to a separate contract between Owner and Construction Manager.
   1. Construction Manager also serves as Project coordinator, as defined in Section 011200 "Multiple Contract Summary."

G. Construction Manager (at Risk): Construction Manager for this Project is Project's constructor. In these Construction Documents, the terms "Construction Manager" and "Contractor" are synonymous.

H. Construction Contract: Construction will be accomplished under a **single Prime Contract**.

I. Negotiated Contract for Construction: Construction will be accomplished under a **single Prime Contract.** Subcontracts will be competitively bid.

1.4 SUBCONTRACTORS

A. Do not award work to Subcontractor without prior approval of Owner and Architect. Approval will not be given until Contractor submits List of Subcontractors containing such information as Owner and Architect may require concerning the proposed Subcontractor and scope of subcontract. Refer to Section 013300 - Submittals.

1.5 USE BY OWNER

A. Owner reserves the right to let other contracts in connection with this Project or in connection with existing buildings. This Contractor must afford other contractors reasonable opportunity for the introduction and storage of their materials and execution of their work, and shall properly connect and coordinate the contractor’s work with theirs.

B. Owner reserves the right to jointly occupy the premises with Contractor in performance of Owner’s duties and functions. Owner also reserves the right to: enter into the Project and premises; make installations of materials and equipment at appropriate times as the Work progresses; install equipment, furniture and furnishings when spaces are at appropriate stages of completion. Coordinate work with Owner and cooperate with Owner to minimize undue interferences.

C. If any part, unit, phase, or the entire Project is substantially complete or ready for occupancy, Owner may, upon notice to Contractor, and without prejudice to rights of Owner or Contractors, enter into and make use of work that is substantially complete.

1.6 MAINTAINING SERVICES AND FUNCTIONS

A. General: It is essential that full Owner's services and functions are maintained throughout construction period, with minimum disturbance and disruption to Owner's operations. Contractor and Subcontractors shall be aware of these requirements and objectives. Contractor must conduct work and develop a detailed schedule to meet these requirements and objectives.

B. Work at Occupied Facilities: After Owner's occupancy (full or partial) of Project or unit, stage, phase or area, work remaining to be accomplished in the occupied spaces shall be done in cooperation with, and approval by, Owner and scheduled in advance with Owner. In general, work in occupied spaces shall be done when the space is not in use, such as after hours in administrative areas or public spaces when public use hours are over for the day, unless specifically approved by Owner. Where necessary, overtime shall be used if work cannot reasonably be accomplished during normal work periods, at no extra cost to Owner. Perform work in occupied areas in a manner and at such time as will not significantly interfere with, hamper or inconvenience Owner's program or functions.

1.7 PERFORMANCE/PAYMENT BOND

A. Owner reserves the right to require a bond in accordance with General Conditions and Supplementary Conditions. Provide on form specified.

1. AIA A311.
2. (Miller/Davis Bond Form) (public work only)
3. Provide and pay for bond.

1.8 OTHER BONDS, PERMITS, FEES

A. Performance/Payment Bond: Owner reserves the right to require a bond in accordance with General Conditions and Supplementary Conditions. Pay for bond and provide on form AIA A311 or other form as required by Owner.

B. Other Bonds, Permits, Fees: Provide and pay for bonds, fees and permits that may be required, including bonds, permits and fees required by local authorities to directly accomplish work under this project.

C. Submit copies of required permits to [**Owner**] [**Owner's Representative**] prior to the start of that work.

D. Request proper authorities to apply for permits and fees for sewer availability charge (SAC) and water availability charge (WAC). Owner will pay sewer and water availability charges.

1.9 WARRANTIES

A. In the event of conflict, inconsistency, or difference between a warranty issued by a supplier or contractor and terms of specifications, Owner, if it becomes necessary to enforce terms and provisions of warranty or specifications, may elect to enforce either submitted warranty or specifications.

1.10 ELECTRONIC FILES

A. Upon request, one copy of electronic files in Architect's current file format, including applicable layers, for each issue (bid packages, construction packages, addenda, etc.) will be provided via e-mail, CD, or website posting at Architect's option to General Contractor at no charge for:

1. Architectural floor plans
2. Reflected ceiling plans
3. Structural framing plans
4. HVAC plans
5. Plumbing plans
6. Lighting plans
7. Signal/System plans
8. Power plans.

B. Additional documents not listed or additional copies of electronic files are available upon request with advance payment of applicable fee(s) and subject to conditions of use. Contact Architect for schedules of fees and additional details about conditions. Subcontractors and others can obtain copies of electronic files from General Contractor.

C. Electronic files and information therein are instruments of service and works in progress created for this Project and not to be used for other projects, additions to this project or completion of this Project by others.

D. Signed and sealed original hard copy Drawings, Specifications and other documents as defined by General Conditions are Contract Documents. Electronic files are not Contract Documents and may be subject to manipulation beyond Architect's control. Therefore, Architect cannot verify that electronic files accurately or completely reflect Contract Documents, actual construction or field conditions. Each user of electronic files must determine accuracy, completeness and suitability for its intended use.

E. Electronic files are subject to discrepancies as a result of numerous factors including but not limited to transmission and translation errors resulting from differences in software, hardware and other equipment related problems, disc or server malfunctions, data corruption during transmission through website or email and user error. Neither Architect nor Owner shall be responsible for such discrepancies.

F. Architect makes no representation regarding accuracy, completeness or permanence of electronic files. Changes to Contract Documents may not be incorporated into electronic files including without limitation, Addenda information or revisions made after date indicated on electronic files.

G. By accepting electronic files, user covenants not to sue, and agrees to indemnify and hold harmless Architect and Owner from costs (including attorneys' fees), claims or causes of action be it tort, breach of contract or otherwise that result from the use of electronic files, and waives claims for consequential and/or liquidated damages against Architect and Owner.

H. Architect and Owner provide no warranties, express or implied with respect to electronic files, including but not limited to, Spearin type warranties, warranties of merchantability and/or fitness for a particular purpose.

I. Use of electronic files provided by Architect does not obviate Contractor, subcontractor/installer or supplier from responsibility for proper checking and coordination of dimensions, details, member sizes, quantities and other requirements to facilitate complete and accurate fabrication, installation and completion of Work.

J. Providing electronic files by Architect is not to be construed to be in derogation of reserved or intellectual property rights.

1.11 CONSTRUCTION DOCUMENTS

A. Specifications: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:

1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
2. Singular notations shall be considered plural where plural application is reasonably inferable.
3. Specification requirements are to be performed by Contractor unless specifically stated otherwise.
4. Indication of extent of work by division or specification section is done only for convenience of Contractor and shall not be construed as describing all work required under that Division or Section.
5. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.
6. Basis of Design Product Specification: Where Specifications name a product, or refer to a product indicated on Drawings, provide the specified or indicated product or equivalent product by one of the other named manufacturers. Drawings and Specifications indicate sizes, profiles, dimensions, and other characteristics that are based on the product named.

B. Drawings: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and products:

1. Material Identification Codes and Abbreviations: Materials and products are identified by abbreviation codes referencing Specification Section numbers found in this Project Manual.
2. Other Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections

1.12 COPIES OF DRAWINGS AND SPECIFICATIONS

A. Drawings and Specifications will be made available to Contractor via an electronic distribution service. Subcontractors obtain documents from Contractor. Subcontractors are responsible for costs associated with hard copy printing drawings from this service. Provide one set for the on-site set to record changes as Record Set.

1.13 USE OF PREMISES - SPECIAL CONSIDERATIONS, REQUIREMENTS AND CONSTRAINTS

A. Work Over Finished Floors: Where work is performed over finished floors (i.e. ceramic tile, concrete, VCT) or where area is used as a passage, provide hardboard or plywood cover to protect against damage or stains. Covering to be provided by General Contractor.

B. Work Over Carpeting: Certain finishing operations may occur over installed carpet areas. Maintain carpet covering free from holes or gaps. At hard use areas, such as passages, also provide hardboard or plywood surfacing to prevent damage. Use extreme care in working over carpeting and its covering.

C. Safety Program: Develop a safety program and provide first aid kits in several accessible locations on site for temporary on-site first aid. Contractor is responsible for safety of persons and property and compliance with applicable statutes, rules, regulations, and orders for work under this Contract.

D. Temporary Plywood Enclosures, General: Supported, sound plywood of appearance acceptable to Architect. Insulate enclosures at building openings where temporary enclosure serves as building exterior wall.

E. Accomplish work in streets in conformance with Municipality requirements and to a schedule as Municipality may require. Contractor must make arrangements with Municipality.

F. Snow Removal: Remove snow from the building work areas, storage areas, and access routes after each period of snowfall to prevent the accumulation of snow and ice from impeding job progress or creating unsafe conditions.

   1. Provide covered walkways at public sidewalks, fire exit as required to maintain public safety, and as may be required by the Municipality. Refer to Section 015000 for further requirements.

1.14 USE OF PREMISES - BROKEN GLASS

A. Contractor is responsible for glass of the new building and glass in existing adjacent buildings in the vicinity of this Project. Provide protection for glass, except Subcontractors shall protect their own glass.

B. Near completion of Project, Contractor must replace broken, cracked, scratched or otherwise damaged or faulty glass, without additional reimbursement. Replace glass damaged by welding splatter. Cost of replacing glass broken or damaged by Subcontractors shall be paid for by party causing damage.

1.15 USE OF PREMISES - CLEAN CONDITIONS

A. References: Refer to General Conditions for general cleaning requirements, Section 017700 for Project Closeout Clean-up and Section 015000 for additional temporary closure requirements.

B. General: Contractor and subcontractors shall maintain clean conditions in areas of existing buildings and where new construction interfaces with existing buildings. Maintain areas free of accumulations of combustible materials. Provide good housekeeping and regular cleaning to maintain areas clean and free of debris. Provide proper closures between areas under construction including closures and measures to prevent spread of dust or other contamination.

1.16 HAZARDOUS SUBSTANCES AND HARMFUL PHYSICAL AGENTS

A. Where work of this project involves possible hazardous substances or harmful physical agents, exercise extreme care to avoid damage and preserve safety of personnel.

B. Regulations concerning availability of information and employee training in use and handling of "hazardous substances" and "harmful physical agents" are governed by Employee Right-to-Know Act of (1983 unless otherwise revised or updated; or amended by local jurisdictions).

C. Regulations governing handling of asbestos-containing materials and disposal of asbestos-containing debris are:

1. Code of Federal Regulations, Title 29, U.S. Department of Labor - Occupational Safety and Health Administration (OSHA), Section 1910.1001 - Asbestos.
2. Local pollution control agency Rules for Emission Standards for Asbestos.

1.17 GENERAL PROTECTION AND SAFETY

A. References: Refer to General Conditions of the Contract for general requirements.

B. General: In accordance with best construction practices, Contractor is solely and completely responsible for conditions of job site, including safety of persons and property affected directly or indirectly by contractor’s operations during performance of Work. This requirement shall apply continuously 24 hours per day until acceptance of Work by Owner and shall not be limited to normal working hours.

1.18 SAFETY DIRECTOR - FIRE AND ACCIDENT

A. Safety Director: Appoint a responsible employee to act as Safety Director (fire and accident or separate individuals for each) whose duty it shall be to prevent accidents and minimize fire hazards and to enforce safety precautions. Safety Director shall develop procedures and regulations to guide Contractor, subcontractors and workers. With particular respect to existing buildings, facilities, and Owner's staff, Safety Director shall consult with and be guided by directions of Owner.

B. Compliance: Contractor and Subcontractors shall conform to and abide by requirements of Safety Director.

C. Inspection: Safety Director shall periodically inspect spaces of work under this Contract and operations of Contractor and list hazards to be removed or corrected. These shall be reported to Owner, Contractor and responsible subcontractors, who shall promptly remove or correct hazards.

D. Site Meetings: Safety Director shall hold accident and fire prevention meetings at least once a month with representatives of various trades employed to insure employees understand and comply with programs.

1.19 FIRE SAFETY PRECAUTIONS

A. Reference: Refer to General Conditions for general requirements.

B. General: Contractor and Safety Director shall recognize the utmost importance of extraordinary precautions to prevent a fire in or adjacent to functioning and occupied building. Contractor, subcontractors and workers shall exercise extreme care to maintain and exercise fire safety precautions through work. This shall include providing sufficient fire fighting devices, watchmen, standby helpers or other precautions during construction, in use of temporary heat, welding, bracing, sweating, testing or other phases of work. Refer to Section 015000 for temporary fire fighting devices to be provided under Contract.

PART 2 - PRODUCTS

Not Used.

PART 3 - EXECUTION

Not Used.

END OF SECTION

This page intentionally left blank.

SECTION 012600
CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Administrative and procedural requirements for handling and processing Contract modifications.
   1. Supplemental Instructions.
   2. Proposal Requests.
   3. Change Orders.
   4. Construction Change Directive.

B. Related Requirements:
   1. Section 016000 - Product Requirements & Substitution Procedures: For administrative procedures for handling requests for substitutions made after the Contract award.

1.2 SUPPLEMENTAL INSTRUCTIONS

A. Supplemental Instructions (SI): Architect will issue[**through Construction Manager**] supplemental instructions authorizing minor changes in the Work, not involving adjustment to the Contract Sum or the Contract Time.

1.3 PROPOSAL REQUESTS

A. Owner-Initiated Proposal Requests: [**Architect**] [**Construction Manager**] will issue a detailed description of proposed changes in the Work that may require adjustment to the Contract Sum or the Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.
   1. Work Change Proposal Requests issued by [**Architect**] [**Construction Manager**] are not instructions either to stop work in progress or to execute the proposed change.
   2. Within time specified in Proposal Request after receipt of Proposal Request, submit a quotation estimating cost adjustments to the Contract Sum and the Contract Time necessary to execute the change.
      a. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
      b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
      c. Include costs of labor and supervision directly attributable to the change.
      d. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.

B. Contractor-Initiated Proposals: If latent or changed conditions require modifications to the Contract, Contractor may initiate a claim by submitting a request for a change to [**Architect**] [**Construction Manager**].
   1. Include a statement outlining reasons for the change and the effect of the change on the Work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the Contract Sum and the Contract Time.
   2. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
   3. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
   4. Include costs of labor and supervision directly attributable to the change.
   5. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.

6. Comply with requirements in Section 012500 "Substitution Procedures" if the proposed change requires substitution of one product or system for product or system specified.

1.4 CHANGE ORDER PROCEDURES

A. Change Order: On Owner's approval of a Work Changes Proposal Request, [**Architect**] [**Construction Manager**] will issue a Change Order for signatures of Owner and Contractor.

B. Allowance Adjustment: See Section 012100 - Allowances for administrative procedures for preparation of Change Order Proposal for adjusting the Contract Sum to reflect actual costs of allowances.

C. Unit-Price Adjustment: See Section 012200 - Unit Prices for administrative procedures for preparation of Change Order Proposal for adjusting the Contract Sum to reflect measured scope of unit-price work.

1.5 CONSTRUCTION CHANGE DIRECTIVE

A. Construction Change Directive (CCD): [**Architect**] [**Construction Manager**] may issue a Construction Change Directive instructing Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.

1. Construction Change Directive contains a complete description of change in the Work, and designates method to be followed to determine change in the Contract Sum or the Contract Time.
2. Documentation: Maintain detailed records on a time and material basis of work required by the Construction Change Directive.
3. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

PART 2 - PRODUCTS

Not Used.

PART 3 - EXECUTION

Not Used.

END OF SECTION

SECTION 012613
REQUESTS FOR INTERPRETATION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Requests for Interpretation (RFIs).

1.2 REQUESTS FOR INFORMATION (RFI'S)

A. General: Immediately on discovery of the need for additional information or interpretation of the Contract Documents, Contractor shall prepare and submit an RFI in the form specified.
   1. Architect will return RFIs submitted to Architect by other entities controlled by Contractor with no response.
   2. Coordinate and submit RFIs in a prompt manner so as to avoid delays in Contractor's work or work of subcontractors.

B. Content of the RFI: Include a detailed, legible description of item needing information or interpretation and the following:
   1. Project name.
   2. Project number.
   3. Date.
   4. Name of Contractor.
   5. Name of Architect.
   6. RFI number, numbered sequentially.
   7. RFI subject.
   8. Specification Section number and title and related paragraphs, as appropriate.
   9. Drawing number and detail references, as appropriate.
   10. Field dimensions and conditions, as appropriate.
   11. Contractor's suggested resolution. If Contractor's suggested resolution impacts the Contract Time or the Contract Sum, Contractor shall state impact in the RFI.
   12. Contractor's signature.
   13. Attachments: Include sketches, descriptions, measurements, photos, Product Data, Shop Drawings, coordination drawings, and other information necessary to fully describe items needing interpretation.
      a. Include dimensions, thicknesses, structural grid references, and details of affected materials, assemblies, and attachments on attached sketches.

C. RFI Forms: [**AIA Document G716] [Form bound in Project Manual] [Software-generated form with substantially the same content as indicated above, acceptable to Architect].**
   1. Attachments shall be electronic files in Adobe Acrobat PDF format.

D. Architect's Action: Architect will review each RFI, determine action required, and respond. Allow seven working days for Architect's response for each RFI. RFIs received by Architect after 1:00 p.m. will be considered as received the following working day.
   1. The following Contractor-generated RFIs will be returned without action:
      a. Requests for approval of submittals.
      b. Requests for approval of substitutions.
      c. Requests for approval of Contractor's means and methods.
      d. Requests for coordination information already indicated in the Contract Documents.
      e. Requests for adjustments in the Contract Time or the Contract Sum.
      f. Requests for interpretation of Architect's actions on submittals.
      g. Incomplete RFIs or inaccurately prepared RFIs.
   2. Architect's action may include a request for additional information, in which case Architect's time for response will date from time of receipt of additional information.

3. Architect's action on RFIs that may result in a change to the Contract Time or the Contract Sum may be eligible for Contractor to submit Change Proposal according to Section 012600 "Contract Modification Procedures."
    a. If Contractor believes the RFI response warrants change in the Contract Time or the Contract Sum, notify Architect in writing within [**10**] days of receipt of the RFI response.

E. RFI Log: Prepare, maintain, and submit a tabular log of RFIs organized by the RFI number. Submit log weekly. [**Use CSI Log Form 13.2B.] [Use software log that is part of Project Web site.] [Include the following:] [Software log with not less than the following**:]
    1. Project name.
    2. Name and address of Contractor.
    3. Name and address of Architect.
    4. RFI number including RFIs that were returned without action or withdrawn.
    5. RFI description.
    6. Date the RFI was submitted.
    7. Date Architect's response was received.

F. On receipt of Architect's action, update the RFI log and immediately distribute the RFI response to affected parties. Review response and notify Architect within [**seven**] days if Contractor disagrees with response.
    1. Identification of related Minor Change in the Work, Construction Change Directive, and Proposal Request, as appropriate.
    2. Identification of related Field Order, Work Change Directive, and Proposal Request, as appropriate.

PART 2 - PRODUCTS

Not used.

PART 3 - EXECUTION

Not used.

END OF SECTION

SECTION 012900
PAYMENT PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Procedures for preparation and submitting Schedule of Values and applications for payment.

B. Related Sections:
   1. General and Supplementary Conditions of the Contract for Construction.
   2. Section 013200 - Construction Progress Documentation: Administrative requirements governing the preparation and submittal of the Contractor's construction schedule.
   3. Section 013300 - Submittal Procedures: Other submittals.
   4. Section 017700 - Closeout Procedures: Related closeout procedures.

1.2 SCHEDULE OF VALUES

A. Schedule of Values: Prepare and submit Schedule of Values to Architect at earliest possible date but no later than 7 days before scheduled submittal of initial Application for Payment. Coordinate with Contractor's Construction Schedule.

B. Format and Content: Use Project Manual table of contents as a guide to establish line items for the Schedule of Values. Provide at least one line item for each Specification Section.
   1. Project Identification:
      a. Project name and location.
      b. Name of Architect.
      c. Architect's project number.
      d. Contractor's name and address.
      e. Date of submittal.
   2. Arrange in tabular form with separate columns to indicate the following for each item listed:
      a. Related Specification Section or Division.
      b. Description of the Work.
      c. Name of subcontractor.
      d. Name of manufacturer or fabricator.
      e. Name of supplier.
      f. Change Orders (numbers) that affect value.
      g. Dollar value of Labor, Materials and Equipment, as a percentage of the Contract Sum to nearest one-hundredth percent, adjusted to total 100 percent. Round amounts to nearest whole dollar; total shall equal the Contract Sum.
   3. Provide a breakdown of the Contract Sum in enough detail to facilitate continued evaluation of Applications for Payment and progress reports, including individual line items as follows:
      a. Stored Materials: Provide a separate line item for each part of the Work where Applications for Payment may include materials or equipment purchased or fabricated and stored, but not yet installed. Differentiate between items stored on-site and items stored off-site. If required, include evidence of insurance.
      b. Provide separate line items for initial cost of materials, for each subsequent stage of completion, and for total installed value of that part of the Work.
      c. Allowances: Indicated as the sum of the unit-cost multiplied by quantity.
      d. Each item in the Schedule of Values and Applications for Payment shall be complete. Include total cost and proportionate share of general overhead and profit for each item.
         1) Temporary Facilities: Temporary facilities and other major cost items that are not direct cost of actual work-in-place may be shown either as separate line items in the Schedule of Values or distributed as general overhead expense, at Contractor's option.

C. Periodic Payment Estimate: When required by the Owner, provide schedule indicating estimate of anticipated amounts for each periodic monthly payment. Indicate retainage amount totaling 5 percent of completed value of Work, anticipated job progress and materials delivery. The schedule will be deemed an estimate only, and the Contractor shall not be bound to conform to the schedule.

D. Schedule Updating: Update and resubmit the Schedule of Values before the next Application for Payment when Change Orders or Construction Change Directives result in a change in the Contract Sum.

1.3 APPLICATIONS FOR PAYMENT

A. Applications for Payment: Comply with requirements of General and Supplementary Conditions of the Contract for Construction for Applications for Payment for completed portions of the Work and for materials and equipment suitably stored and protected.
   1. Payment Application Times: Submit to Architect at least 10 days prior to progress payment date as established by Owner, and at a frequency no more than once per month.
      a. Draft Application: Submit draft copy of Application for Payment 10 days prior to due date for review by Architect.
   2. Include transmittal form listing attachments and recording appropriate information about application
   3. Include revised progress schedule, consistent with previous applications and payments as certified by Architect and paid for by Owner.

B. Retainage: Unless otherwise stipulated by the agreement between Owner and Contractor, 5 percent of the value of completed Work and site stored materials will be retained by the Owner until the Work is fully completed.
   1. Remaining retained percentage may be requested after Final Completion of the Work of the Contract when the Work is fully complete and acceptable to Architect and Owner. Final payment will be made within 30 days thereafter.
   2. In event of a very minor amount of work incomplete or not corrected due to weather, unsuitable conditions for testing or similar conditions preventing Contractor from proceeding, retained amount may be reduced to three times the value of incomplete work upon recommendation of Architect and approval of Owner.

C. Application Preparation: Architect will provide payment application form. Complete every entry on form. Notarize and execute by a person authorized to sign legal documents on behalf of Contractor. Architect will return incomplete applications without action.
   1. Entries shall match data on the Schedule of Values and Contractor's construction schedule. Use updated schedules if revisions were made.
   2. Include amounts for work completed following previous Application for Payment, whether or not payment has been received. Include only amounts for work completed at time of Application for Payment.
   3. Include amounts of Change Orders and Construction Change Directives issued before last day of construction period covered by application.
   4. Indicate separate amounts for work being carried out under Owner-requested project acceleration.

D. Initial Application for Payment: Administrative actions and submittals that must precede or coincide with submittal of first Application for Payment include the following:
   1. List of subcontractors.
   2. Schedule of values.
   3. Sustainable design submittal for project materials cost data.
   4. Contractor's construction schedule (preliminary if not final).
   5. Products list (preliminary if not final).
   6. Sustainable design action plans.
   7. Schedule of unit prices.
   8. Submittal schedule (preliminary if not final).
   9. List of Contractor's staff assignments.
   10. List of Contractor's principal consultants.

11. Copies of building permits.
12. Copies of authorizations and licenses from authorities having jurisdiction for performance of the Work.
13. Initial progress report.
14. Report of preconstruction conference.

E. Application for Payment at Substantial Completion: After Architect issues the Certificate of Substantial Completion, submit an Application for Payment showing 100 percent completion for portion of the Work claimed as substantially complete.
   1. Include documentation supporting claim that the Work is substantially complete and a statement showing an accounting of changes to the Contract Sum.
   2. This application shall reflect Certificate(s) of Substantial Completion issued previously for Owner occupancy of designated portions of the Work.

F. Final Payment Application: After completing Project closeout requirements, submit final Application for Payment with releases and supporting documentation not previously submitted and accepted.

PART 2 - PRODUCTS

Not Used

PART 3 - EXECUTION

Not Used

END OF SECTION

This page intentionally left blank.

SECTION 013100
PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Administrative provisions for coordinating construction operations on Project including, but not limited to, the following:

1. General coordination procedures.
2. Coordination drawings.
3. Requests for Information (RFIs).
4. Project meetings.
5. Utilities Shutdown Request Form.

1.2 INFORMATIONAL SUBMITTALS

A. Coordination Drawings: Submit in accordance with Section 013300, and as specified herein.

B. Subcontract List: Prepare a written summary identifying individuals or firms proposed for each portion of the Work, including those who are to furnish products or equipment fabricated to a special design. Include the following information in tabular form:

1. Name, address, and telephone number of entity performing subcontract or supplying products.
2. Number and title of related Specification Section(s) covered by subcontract.
3. Drawing number and detail references, as appropriate, covered by subcontract.

1.3 GENERAL COORDINATION PROCEDURES

A. Coordination: Coordinate construction operations included in different Sections of the Specifications to ensure efficient and orderly installation of each part of the Work. Coordinate construction operations, included in different Sections, that depend on each other for proper installation, connection, and operation.

1. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
2. Coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, and repair.
3. Make adequate provisions to accommodate items scheduled for later installation.

1.4 SCHEDULE COORDINATION

A. Prime Coordinator: The Contractor is the Prime Coordinator for the Project and shall establish the overall schedule for the progress of the Project, the sequence of completion and general use of the site.

1. Contractor's job superintendent shall be on the job continuously.
2. Coordinate the Work and do not delegate responsibility for coordination to any Subcontractor.
3. Anticipate the interrelationship of all Subcontractors, Owner's separate contracts, and their relationship with the Work.
4. Resolve differences or disputes between Subcontractors concerning coordination, interference, or extent of Work between Sections.

B. Coordinate scheduling, work activities, submittals, including deferred approvals (if any), Owner's separate contracts (if any), Owner’s material/product direct purchase (if any), and work of the various sections of Specifications to assure efficient and orderly sequence of installation of construction elements, with provisions for accommodating items to be installed later.

1. Give adequate and timely notice of various work phases and operations which will affect the work of, or will require installations or other action by others.

a. After timely notification by the Contractor of the need to accomplish a particular phase or element of the Work, the Subcontractors shall, within a reasonable time, perform their work as not to delay or impede others or the progress of the Project.

2. Set up control procedures so that approved schedules are adhered to. Contractor's responsibility is to properly notify Owner's Representative of anticipated and actual time delays.
3. Coordinate sequence of Work to accommodate any Owner's separate contracts and Owner Occupancy as specified in Section 011100.

C. Schedule Coordination: Special coordination and cooperation efforts are required for certain interrelated phases of the work, such as:

1. Sequencing of remodeling work.
2. Construction of temporary spaces and facilities;
3. Removals and relocations of existing services and facilities;
4. Ceiling work; connecting the Owner's equipment;
5. Installation of and connections to new utilities;
6. Connections to existing buildings;
7. Demolition work;
8. Providing and maintaining temporary heat and other temporary facilities; and similar work.
9. Equipment Coordination.
10. Mechanical/Electrical Requirements of General Work.
11. Service Connections.
12. Interruption of Services and Service Shutdowns: Plan shutdowns so as to minimize shutdown time of any service. Request approval of a shutdown in writing to the Owner's Representative not less than **[14] <Insert number>** calendar days before the time that the shutdown is desired.
13. Field Measurements: Verify location of utilities and existing conditions. Notify Architect and Civil Engineer of conditions differing from those indicated on the Drawings.

1.5 REQUEST FOR INFORMATION (RFI)

A. General: Immediately on discovery of the need for additional information, clarification, or interpretation of the Contract Documents, Contractor shall prepare and submit an RFI in the form specified.

1. Architect will return without response those RFIs submitted to Architect by other entities controlled by Contractor.
2. Coordinate and submit RFIs in a prompt manner to avoid delays in Contractor's work or work of subcontractors.

B. Content of the RFI: Include a detailed, legible description of item needing information or interpretation and the following:

1. Project name.
2. Owner name.
3. Owner's Project number.
4. Name of Architect**[and Construction Manager or Contractor]**.
5. Architect's Project number.
6. Date.
7. Name of Contractor.
8. RFI number, numbered sequentially.
9. RFI subject.
10. Specification Section number and title and related paragraphs, as appropriate.
11. Drawing number and detail references, as appropriate.
12. Field dimensions and conditions, as appropriate.
13. Contractor's suggested resolution. If Contractor's suggested resolution impacts the Contract Time or the Contract Sum, Contractor shall state impact in the RFI.
14. Contractor's signature.
15. Attachments: Include sketches, descriptions, measurements, photos, Product Data, Shop Drawings, coordination drawings, and other information necessary to fully describe items needing interpretation.

a. Include dimensions, thicknesses, structural grid references, and details of affected materials, assemblies, and attachments on attached sketches.

C. RFI Forms: Software-generated form with substantially the same content as indicated above, acceptable to Architect.

1. Attachments shall be electronic files in PDF format.

D. Architect's[**and Construction Manager's**] Action: Architect[**and Construction Manager**] will review each RFI, determine action required, and respond. Allow [**seven**] <**Insert number**> days for Architect's response for each RFI. RFIs received by Architect[**or Construction Manager**] after 1:00 p.m. will be considered as received the following working day.

1. The following Contractor-generated RFIs will be returned without action:
   a. Requests for approval of submittals.
   b. Requests for approval of substitutions.
   c. Requests for approval of Contractor's means and methods.
   d. Requests for coordination information already indicated in the Contract Documents.
   e. Requests for adjustments in the Contract Time or the Contract Sum.
   f. Requests for interpretation of Architect's actions on submittals.
   g. Incomplete RFIs or inaccurately prepared RFIs.
2. Architect's action may include a request for additional information, in which case Architect's time for response will date from time of receipt by Architect [**or Construction Manager**]of additional information.
3. Architect's action on RFIs that may result in a change to the Contract Time or the Contract Sum may be eligible for Contractor to submit Change Proposal according to Section 012600 "Contract Modification Procedures."
   a. If Contractor believes the RFI response warrants change in the Contract Time or the Contract Sum, notify Architect[**and Construction Manager**] in writing within [**5**] <**Insert number**> days of receipt of the RFI response.

E. RFI Log: Prepare, maintain, and submit a tabular log of RFIs organized by the RFI number. Submit log [weekly] <Insert time>. [Use software log that is part of web-based Project management software.] [Include the following:] [Software log with not less than the following:]

1. Project name.
2. Name and address of Contractor.
3. Name and address of Architect[**and Construction Manager**].
4. RFI number, including RFIs that were returned without action or withdrawn.
5. RFI description.
6. Date the RFI was submitted.
7. Date Architect's[**and Construction Manager's**] response was received.
8. Identification of related Minor Change in the Work, Construction Change Directive, and Proposal Request, as appropriate.

F. On receipt of Architect's[**and Construction Manager's**] action, update the RFI log and immediately distribute the RFI response to affected parties. Review response and notify Architect[**and Construction Manager**] within **three** <**Insert number**> days if Contractor disagrees with response.

1.6 PROJECT MEETINGS

A. Pre-Construction Meeting: After award of contract, at time designated by the Owner or the Architect, the Contractor and mechanical and electrical subcontractors shall attend a Pre-Construction Meeting.

1. Procedures to be followed, critical work sequencing and phasing, coordination efforts and similar matters will be reviewed.

B. Progress Meetings: During construction, periodic site meetings will be held with the Contractor, major Subcontractors, Owner, and Architect.

1. These meetings will be held biweekly (unless job conditions do not warrant) and may be held more frequently if job progress and needs indicate.
2. Contractor and major Subcontractors shall have one or more responsible representatives in attendance.

3. Contractor to keep the "minutes" of the meeting and distribute the "minutes" to all concerned within 3 days of the meeting.

C. Schedule Coordination Meetings: Conduct weekly (unless job conditions do not warrant) and more frequently if job progress and needs indicate.

D. In addition to progress meetings specified herein, hold coordination meetings and preinstallation conferences with requisite personnel to assure coordination of Work.

E. Sustainable Design Requirements Coordination Conference: [**Owner will schedule and conduct**] [**Construction Manager will schedule and conduct**] a sustainable design coordination conference before starting construction, at a time convenient to Owner[**, Construction Manager,**] Architect, and Contractor.
   1. Attendees: Authorized representatives of Owner,[**Owner's Commissioning Authority,**] [**Construction Manager,**] Architect, and their consultants; Contractor and its superintendent and sustainable design coordinator; major subcontractors; suppliers; and other concerned parties shall attend the conference. Participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
   2. Agenda: Discuss items of significance that could affect meeting sustainable design requirements, including the following:
      a. Sustainable design Project checklist.
      b. General requirements for sustainable design-related procurement and documentation.
      c. Project closeout requirements and sustainable design certification procedures.
      d. Role of sustainable design coordinator.
      e. Construction waste management.
      f. Construction operations and sustainable design requirements and restrictions.
   3. Minutes: Entity responsible for conducting meeting will record and distribute meeting minutes.

PART 2 - PRODUCTS

Not used.

PART 3 - EXECUTION

3.1 COORDINATION

A. Coordination: The Project will require close cooperation and coordination with Owner and Contractor and Subcontractors. The Contractor must:
   1. Consider such coordination in the work.
   2. Schedule the Work with the subcontractors and the Owner particularly near the end of the Project.
   3. Keep the Owner, and Architect advised of the schedule to complete the Work.

B. The Prime Contractor shall be Project Coordinator and shall coordinate and schedule all work, including with the Owner where the work of the Contract may involve or disrupt the Owner's normal functions.
   1. The Contractor and Subcontractors shall work closely in the coordination of the documents and in the timing of operations.

C. Prime Contractor must provide full-time supervisor on Project at all times during work.

D. Mechanical/Electrical Requirements of General Work: Comply with applicable requirements of Division 23 Sections for Mechanical Provisions within units of General Work, and comply with applicable requirements of Division 26 for Electrical provisions within units of General Work.

E. Service Connections: Except as otherwise indicated, final connection of mechanical services to general work is defined as being mechanical work, and final connection of electrical services to general work is defined as electrical work.

F. Service Shutdowns: Plan shutdowns so as to minimize shutdown time of any service. Request approval of a shutdown in writing to the Owner's Representative not less than fourteen (14) calendar days before the time that the shutdown is desired.

3.2 SHUT DOWN PROCEDURES

A. A shutdown is any interruption of services provided by the Owner to its clients and staff. Ensure that an inspector has been assigned to coordinate shutdown in the field. Assist the inspector in preparing a shutdown script.

B. Determine if all proper and appropriate coordination and notification has been completed, before the shutdown.

C. Shutdown Request: Attached to the end of this section is a copy of the shutdown request form.

D. Write a final report to the Contractor and Architect, in event of an unexpected incident that occurs during the course of a planned shutdown, resulting in a significant disruption or discontinuance of operations.

E. Interruption of Services: Adequate advance written notice (a minimum of fourteen (14) calendar days) shall be given to the Contractor and Owner's Construction Administrator when interruptions of services, or interferences with the use of existing buildings and roads are anticipated. Contractor's assigned subcontractor must not interrupt any service without written notice.

F. Planned service shutdowns shall be accomplished during periods of minimum usage. In some cases, this may require work outside of normal 8:00 am to 5:00 pm work hours, at no additional cost to the Owner.

1. The Contractor or assigned subcontractor must program the work so that service will be restored in the minimum possible time, and shall cooperate with the Owner in reducing shutdowns of system.
2. At least fourteen (14) calendar days advance written notice shall be given to the Owner's Representative before interruptions to service and other interferences to the use of, or access to existing buildings and facilities.
3. Required access ways shall be kept open at all times; the use of one way traffic and detours shall be held to a minimum.

3.3 COORDINATION DRAWINGS

A. Coordination Drawings, General: Prepare coordination drawings according to requirements in individual Sections, and additionally where installation is not completely indicated on Shop Drawings, where limited space availability necessitates coordination, or if coordination is required to facilitate integration of products and materials fabricated or installed by more than one entity.

B. Coordination Drawings are not Shop Drawings and do not require Architect's responsive action. Furnish Coordination Drawings to Architect and make Coordination Drawings available at Contractor's field office for Architect's review upon request.

C. Format:

1. Use scale not less than 1/4" = 1'-0" (1:50).
2. Detail complex areas at larger scale than typical floor plans.

D. Content: Project-specific information, drawn accurately to a scale large enough to indicate and resolve conflicts. Do not base coordination drawings on standard printed data. Include the following information, as applicable:

1. Use applicable Drawings as a basis for preparation of coordination drawings. Prepare sections, elevations, and details as needed to describe relationship of various systems and components.
2. Coordinate the addition of trade-specific information to coordination drawings by multiple contractors in a sequence that best provides for coordination of the information and resolution of conflicts between installed components before submitting for review.
3. Indicate functional and spatial relationships of components of architectural, structural, civil, mechanical, and electrical systems.

4. Indicate space requirements for routine maintenance and for anticipated replacement of components during the life of the installation.
5. Show location and size of access doors required for access to concealed dampers, valves, and other controls.
6. Indicate required installation sequences.
7. Indicate dimensions shown on Drawings. Specifically note dimensions that appear to be in conflict with submitted equipment and minimum clearance requirements. Provide alternative sketches to Architect indicating proposed resolution of such conflicts. Minor dimension changes and difficult installations will not be considered changes to the Contract.

E. Coordination Drawing Organization: Organize coordination drawings as follows:

1. Floor Plans and Reflected Ceiling Plans: Show architectural and structural elements, and mechanical, plumbing, fire-protection, fire-alarm, and electrical Work. **[Include food service Work,] [shielding Work] [and] [medical equipment Work.]** Show locations of visible ceiling-mounted devices relative to acoustical ceiling grid. Supplement plan drawings with section drawings where required to adequately represent the Work.
2. Plenum Space: Indicate subframing for support of ceiling and wall systems, mechanical and electrical equipment, and related Work. Locate components within plenums to accommodate layout of light fixtures and other components indicated on Drawings. Indicate areas of conflict between light fixtures and other components.
3. Mechanical Rooms: Provide coordination drawings for mechanical rooms showing plans and elevations of mechanical, plumbing, fire-protection, fire-alarm, and electrical equipment.
4. Structural Penetrations: Indicate penetrations and openings required for all disciplines.
5. Slab Edge and Embedded Items: Indicate slab edge locations and sizes and locations of embedded items for metal fabrications, sleeves, anchor bolts, bearing plates, angles, door floor closers, slab depressions for floor finishes, curbs and housekeeping pads, and similar items.
6. Mechanical and Plumbing Work: Show the following:
    a. Sizes and bottom elevations of ductwork, piping, and conduit runs, including insulation, bracing, flanges, and support systems.
    b. Dimensions of major components, such as dampers, valves, diffusers, access doors, cleanouts and electrical distribution equipment.
    c. Fire-rated enclosures around ductwork.
7. Electrical Work: Show the following:
    a. Runs of vertical and horizontal conduit 1-1/4 inches (32 mm) in diameter and larger.
    b. Light fixture, exit light, emergency battery pack, smoke detector, and other fire-alarm locations.
    c. Panel board, switch board, switchgear, transformer, busway, generator, and motor-control center locations.
    d. Location of pull boxes and junction boxes, dimensioned from column center lines.
8. Fire-Protection System: Show the following:
    a. Locations of standpipes, mains piping, branch lines, pipe drops, and sprinkler heads.
9. Food Service Work Information Required on Coordination Drawings: Locations and dimensions of food service equipment, including access panels and hatchways.
10. Shielding Information Required on Coordination Drawings:
    a. Show extent of radiation protection, and RF shielding and magnetic shielding.
    b. Show interfaces and details between protection and shielding systems, and mechanical, plumbing, fire protection, fire alarm, electrical, and building automation systems.
11. Medical Equipment Information Required on Coordination Drawings:
    a. General: Integrate connections, supports, assemblies, and other components indicated on approved medical equipment vendors' installation drawings.
    b. Medical equipment indicated to be attached to building construction and served by fixed, mechanical, plumbing, or electrical connections.
    c. Utility connections.
    d. Pits.
    e. Trenches.
    f. Anchor rails.
    g. Supports.
    h. Vibration isolation.

i. Cable trays.

12. Architect's Review: Architect will review coordination drawings to confirm that in general the Work is being coordinated, but not for the details of the coordination, which are Contractor's responsibility. If Architect determines that coordination drawings are not being prepared in sufficient scope or detail, or are otherwise deficient, Architect will so inform Contractor, who shall make suitable modifications and resubmit.
13. Coordination Drawing Prints: Prepare coordination drawing prints according to requirements in Section 013300 - Submittal Procedures.

3.4 CLASH DETECTION

A. Clash Detection Reports: At Contractor's option, clash detection reports may be provided in lieu of Coordination Drawings. Prepare clash detection reports according to the following and requirements of individual Sections:

1. Report file format: PDF (portable document format). 3D or BIM submittals are not acceptable.
2. Content: Model in three dimensions (3D), content required for Coordination Drawings at Level of Development (LOD) 400, in accordance with requirements of "Level of Development (LOD) Specification" by BIMForum. **[Refer to Project BEP for additional requirements related to Clash Detection reports.]**
   a. Include documentation of architectural, structural, mechanical, plumbing, fire-protection, fire-alarm, electrical and other systems as required to completely document the Work. Clash detection reports will be considered incomplete if content from applicable disciplines is not included.
   b. Indicate the following:
      1) System models used in clash detection report.
      2) Identification and definition of system clash tests used to document results.
      3) Identification of remaining clashes by system and by level.
3. Written description of remaining clashes and proposed method of resolution.

3.5 CONSTRUCTION CYBERSECURITY RISK MITIGATION

A. Refer to the manufacturer hardening guides and apply the most stringent manufacturer recommendations.

B. Coordinate with Owner's IT Department to restrict external network access to Internet connected system through virtual private network (VPN) connections only.

C. Disable any protocols for remote connectivity, unless constantly required for day-to-day operations. Secure VPN connections shall be the only acceptable form of remote connectivity unless otherwise approved by the Owner and Engineer.

D. Protect data in transit and at rest. All external transport data shall be routed through encrypted channels using Transport Layer Security (TLS 1.2).

E. Coordinate with Owner's IT Department to implement a Web server-based human machine interface (HMI) that relies on IT technologies to secure access and restrict ports that can be opened on the firewall. Coordinate with Owner's IT Department to restrict access to known IP addresses only.

F. Where building system networks are not physically separate from IT business networks, coordinate with Owner's IT Department to segregate networked and Internet connected systems from the IT business network using virtual local area network (VLAN) IT technologies to restrict internal attacks/breakdowns.

G. Set unique, strong passwords for administrator and user accounts. Default passwords must be changed before systems and devices are connected to the Owner's network.

H. Collect only the data that is necessary for analytics, optimization, and trending.

I. Adhere to the following compliance requirements:

1. ISO/IEC 27001
2. IEC 62443: Industrial Network and System Security
3. SOC-2 (for hosted services)

J. Abide by best practices outlined in the following references:
   1. NIST Special Publication 800-14 – Generally Accepted Principles and Practices for Securing Information Technology Systems.
   2. NIST Special Publication 800-54 Revisions 4 – Security and Privacy Controls for Federal Information Systems and Organizations.
   3. Defense Security Service Office of the Designated Approving Authority – Master System Security Plan (MSSP) Template for Peer-to-Peer Networks (June 2011, Version 3.0).

3.6 EQUIPMENT COORDINATION

A. Install equipment in accordance with manufacturers recommendations and instructions.
   1. Refer to Section 016400 - Owner-Furnished Products.

B. Equipment Coordination: With respect to mechanical and electrical features of Contractor and Owner supplied equipment, complete data must be exchanged directly between the Contractor and those vendors and subcontractors involved as the progress of the Project requires.
   1. The person requesting the information shall advise when it will be required.
   2. Examine Owner's existing equipment and determine the rough-in data. Owner will furnish data for equipment purchased by Owner. Owner will disconnect equipment and relocate to new space for connections by Contractor.
   3. Consult Owner to verify status of rough-in data.
   4. If rough-in details are not available at the time service systems are being installed, postpone final rough-in until data is available.

C. Subcontractors for casework and equipment are expressly required to provide large scale layout drawings for casework and equipment showing the required rough-in locations of all services (dimensioned from building features) service characteristics, and locations of studs where the location is critical to mounting or otherwise installing equipment and casework.
   1. Furnish sizes and spacing required for mechanical and electrical cutouts, and a complete brochure of fittings, sinks, outlets, or other information to provide complete data on the items and accessories being furnished.

D. In the event of incorrect, incomplete, delayed or improperly identified information, the entity causing the delay or error shall be responsible and pay for any modifications or replacements necessary to provide a correct, proper and new installation, including relocations required.

3.7 SLEEVING

A. Services: Rough-in sleeves for waste and other services passing through the floor shall be installed prior to pouring the floors if data is available.
   1. Core drilling for holes may be done to facilitate job progress or to more accurately locate holes with permission of the Architect, without additional reimbursement.

B. Sleeves are required at core drilled holes. Where permission is obtained to omit sleeve, drill hole one inch larger than the outside diameter of the pipe or conduit, or one inch larger than outside diameter of insulation, where insulated.
   1. Refer to Section 017324 - Anchorage and Sleeving.

C. At Noise-Critical Spaces: Coordinate sleeving and sealing of penetrations through partitions and slabs at noise critical spaces and at mechanical and electrical rooms.
   1. Duct, pipe and conduit penetrations at noise critical spaces shall be sleeved, packed and sealed airtight with flexible non-hardening sealant.
   2. Provide 1-inch flexible joint around penetrating elements, unless otherwise indicated in the Construction Documents.

3.8 FIELD DIMENSIONS FOR CASEWORK AND EQUIPMENT

A. Accurate field dimensions are required in ample time to permit fabrication of casework and equipment for delivery and installation in accordance with the schedule.

1. To obtain dimensions and to prevent fabrication delay, cooperate in completing work phases to accommodate the schedule.

B. Be responsible for obtaining correct field dimensions and informing the various fabricators before start of construction.
   1. Refer to Section 016400 - Owner Furnished Equipment.

3.9 FLOORING COORDINATION

A. Hold a finish flooring coordination meeting. Invite suppliers and installers for concrete of each finish flooring. The purpose for this meeting is to coordinate concrete finishing, admixtures, curing compounds, moisture control and compatibility with finish flooring and adhesives.

3.10 COORDINATION OF SPACE

A. Coordinate use of Project space and sequence of installation of mechanical and electrical work which is indicated diagrammatically on Drawings.
   1. Follow routings shown for pipes, ducts, and conduits as closely as practicable, with due allowance for available physical space; make runs parallel with lines of building.
   2. Utilize space efficiently to maximize accessibility for other installations, for maintenance, and for repairs.

B. In finished areas, except as otherwise shown, conceal pipes, ducts, and wiring in the construction. Coordinate locations of fixtures and outlets with finish elements.

C. Off-Site Fabrication: Off-site fabrication is encouraged as much as possible and deliveries scheduled so materials and equipment can be installed immediately after delivery.
   1. Alert and advise others of the need to hold deliveries until they are notified the materials are required on the site.

D. Notice: Give adequate and timely notice of various work phases and operations which will affect the work of, or will require installations or other action by others.
   1. After timely notification by the Contractor of the need to accomplish a particular phase or element of the Work, the Subcontractors shall, within a reasonable time, perform their work as not to delay or impede others or the progress of the Project.

E. Coordination of phases of the work: Special coordination and cooperation efforts are required for certain interrelated phases of the work, such as:
   1. Sequencing of remodeling work; construction of temporary spaces and facilities; removals and relocations of existing services and facilities; ceiling work; connecting the Owner's equipment; installation of and connections to new utilities; connections to existing buildings; demolition work; providing and maintaining temporary heat and other temporary facilities; and similar work.

3.11 COORDINATION OF CLOSEOUT PROCEDURES

A. Coordinate completion and cleanup of work of separate trades in preparation for Owner occupancy.

B. After Owner occupancy of premises, coordinate access to site by various trades for correction of defective work and work not in accordance with Contract Documents, to minimize disruption of Owner's activities.

C. Assemble and coordinate closeout submittals as specified in Section 017800.

END OF SECTION

UTILITIES SHUTDOWN REQUEST FORM

To: _____

Phone: _____

Date: _____

_____

Project Name: _____

Project Number: _____

Project Superintendent: _____

Contractor Requiring Shutdown: _____

Contact Person: _____

Contact Phone: _____

Cell Phone: _____

Type Of Utility Service:

- ☐ Electrical
- ☐ Fire Alarm
- ☐ HVAC
- ☐ Hot Water Heating
- ☐ Steam
- ☐ Condensate
- ☐ Medical Gas
- ☐ Deionized Water
- ☐ Domestic Hot Water
- ☐ Domestic Cold Water
- ☐ Sanitary Sewer
- ☐ Natural Gas
- ☐ Fire Protection
- ☐ Other _____

Work Area Location: _____

Tentative Shutdown Start Time: _____

Month, Day, Year: _____

Approximate Length of Downtime: _____

Reason for Shutdown:_____

_____

_____

_____

_____

SECTION 013150
PROJECT DATA BASE ADMINISTRATION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Project Data Base Management: Administrative provisions for organization and use of the 3D Data Base, in relation to the Contract Documents.
   2. Project Data Use and Management:
      a. Extraction and Translation.
      b. Transmission and Exchange.
      c. Revisions and Change Tracking.

B. Related Documents: Drawings, 3D Project Data Base electronic data, and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

C. Related Sections: The following Sections contain requirements that relate to this Section:
   1. Section 011100 - Summary of Work.

1.2 DEFINITIONS

A. Contract Documents: As defined in the Owner / Contractor Agreement, which includes the Drawings, Specifications, and the 3D Project Data Base for the narrowly defined scopes of work.

B. Work: In addition to definition in General Conditions, the term “Work” refers to and means that work indicated on the Contract Documents as specifically identified in the Owner/Contractor Contract.

C. 3D Data Base: Three-dimensional electronic models provided in Rhinoceros .3DM software format, as well as supplemental files such as transmittals and instructions for use of data base.

D. Computer Distribution Media: Architect’s Data Transfer Website and may include physical distribution media.

1.3 PROJECT DATABASE

A. Ownership of Data: 3D Project Data Base and drawings, electronic media, electronic forms and other similar terms are subject to the Terms and Conditions for use of the Architect's documents contained in the Owner/Contractor Agreement and as listed below, and as defined in the Owner/Architect Agreement.
   1. Contractor shall notify the Architect of discrepancies or conflicts between the 3D Data Base and other portions of the Contract Documents to the extent they are identified.
   2. Contractor must pay particular attention to coordination conflicts between the contract documents and the 3D Project Data Base where the two scopes of work intersect. This includes identifying and verifying the location of 3D workpoints, and the coordination of concrete profiles expressed in two dimensional geometry.

B. The Drawings, 3D Project Data Base, Specifications and other Contract Documents are complementary and together define the scope, design intent, and other project requirements.

C. The project utilizes the 3D Project Data Base as defined in the computer notes contained on the drawings, and specifications.

D. The 3D Data Base for the Project is divided into a number of “Parts” or individual models. All parts together comprise the project master 3D data base.
   1. Certain portions of the model are identified ‘for visual reference only’ .
   2. Limited portions of the model are identified ‘as the primary source of dimensional control’.

E. The 3D Project Data Base is not a comprehensive virtual model for the Project. Portions of the Project have been selectively modeled to provide an efficient means to describe the Project, and document the geometry for dimensional control. The project utilizes the 3D Data Base as defined below:

1. For portions of the 3D Project Data Base identified 'for visual reference only' the Architect only intends the model to be used for basic navigation and coordination as follows:
   a. To be used for verification and coordination with the 2D Drawings – however the dimensional accuracy of represented elements may be incomplete or out of date in relation to the Contract Documents.
   b. The final location of elements shall be dictated by the 2D Drawings and Specifications.
2. For portions of the 3D Project Data Base identified 'as the primary source of dimensional control' the Architect intends the model to be used as follows:
   a. To establish the location, exterior profile and joint location of the metal panel surface
   b. To describe the location of the aluminum backing purlin along the ruling lines of the surface.
   c. To establish the path of the structural backing steel in relation to a wire line – the rotation of the steel element and approximate anticipated size of the element is indicated by the location profile shape as it hangs on the wire.
   d. All other information is contained in the 2D Drawing and Specifications.

F. By using any such Project Data Base, Contractor agrees to the following Additional Terms and Conditions for Use of the Architect's Documents:

1. Authorized Use of Project Data Base: The Architect grants the Contractor the non-exclusive right to use the Project Data Base in accordance with the Terms and Conditions set forth in the Owner/Architect Agreement and herein.
   a. The 3D Data Base shall be used for establishing three-dimensional geometries of represented surfaces and elements and their relationship to work points established in other Contract Documents.
   b. The Contractor, their respective subcontractors, agents, or representatives shall not be entitled to rely on the detail or specifications contained in the Project Data Base for any other purposes.
   c. The Contractor acknowledges the data in the 3D Data Base is intended to compliment and supplement but not necessarily supersede other Contract Documents, and understands that the 3D Data Base is not for erection or fabrication purposes in the form provided.
2. Unauthorized Use of Project Data Base: The Project Data Base shall not be used by Contractor, or transferred to any other party, for use in other projects, additions to the current project, without the Architect's express written permission.
   a. Any unauthorized modification or reuse of the material shall be at the Contractor's sole risk, and Contractor shall cause their Subcontractors having access to the Project Data Base to agree to defend, indemnify, and hold the Architect harmless, from all claims, injuries, damages, losses, expenses, and attorney's fees arising out of such unauthorized modification or use of these materials.
   b. Project Data Base as prepared by the Architect is provided solely as an instrument of the Architect's service and is protected by applicable laws and conventions. By delivering the Project Data Base to the Contractor, the Architect and Contractor shall not expand in any manner the scope of services for which each was engaged pursuant to its Agreements with the Owner, or in any manner alter the division of responsibilities between the Architect, the Contractor and the Owner as defined in their respective Agreements.

G. Contractor's Coordination Requirements: Before using the geometry control information contained in 3D Data Base for the development of Contractor's engineering and shop drawings, the Contractor shall:

1. Exercising the professional skill, care and judgment which can reasonably be expected from other contractors in like circumstances, review and verify existing conditions, dimensions and coordinate with information in the Contract Documents prior to the development of shop fabrication drawings, layout drawings, numerically controlled fabrication equipment, or other applications which define, control, and/or regulate the fabrication and erection of any component of the Project;
2. Read and abide by any provisions contained in electronic files that may be issued with each version of Project Data Base released by Architect.

3. Take all reasonable measures to prevent unauthorized access to or loss of the Project Data Base;
4. Maintain an independent record of all modifications of this Project Data Base which may be processed by Contractor, its Subcontractors, their employees and agents;
5. Cause its subcontractors to be solely and exclusively responsible for the accuracy and adequacy of all subsequent data, computer models or other electronic media developed by such subcontractors. The Architect is not party to and has no control over the use of such subcontractor-generated media;
6. Take appropriate action, by way of instruction or otherwise, with its subcontractors, employees and agents who have access to the Project Data Base, to insure compliance with these Conditions;
7. Submit copies of Contractor or subcontractor generated data, computer models or other electronic media to the Architect for review prior to beginning fabrication operations. The Architect may review and comment on such media at its option. This information is in addition to required shop drawing submittals.

H. Contractor also agrees to the following provisions:
1. Verify locations of critical elements during and after installation, such as connection points between different materials and systems. Report items that vary from the Contract Documents. Notify and coordinate other subcontractors that are affected by mislocated elements.
2. Import data for control points, surfaces and lines of fabricated and installed Work into the 3D Data Base, and place on separate levels as required with and by the Architect.
3. Copy data files to the Architect at Substantial Performance of the Work. Coordinate with Section 01781 Project Record Documents.
4. Upon the Architect's request, return original Project Data Base and all other papers, documents, materials and other property of the Architect held by the Contractor, subcontractors, employees, and their agents in connection with the Project.

I. Because the information stored in the Project Data Base can be modified by other parties, intentionally or otherwise, without notice or indication of said modification, the Architect reserves the right to remove all indicia of its ownership and/or involvement in the Project Data Base from each electronic medium not held in its possession. The Architect does not convey, nor does the Contractor obtain any ownership right, title, or interest in the Project Data Base or any computer programs, specifications, or data furnished or developed by the Architect.

J. Contractor recognizes that designs, plans, and data stored on electronic media, such as computer disk and magnetic tape, may be subject to undetectable alterations or uncontrollable or undetectable deterioration. Contractor therefore agrees that the Architect shall not be liable for the completeness or accuracy of any materials provided on electronic media as caused by undetectable alterations or uncontrollable or undetectable deterioration. Project Data Base and other Contract Documents are intended to be complementary to each other, and do not necessarily supersede information contained elsewhere in the Contract Documents.

1.4 CONTRACTOR RESPONSIBILITIES

A. Contractor is a user and distributor of information and data contained in the Project Data Base. Contractor shall distribute information to subcontractors, sub-subcontractors and vendors that may not have direct access to Project Data Base. This responsibility may include any of the following tasks:
1. Bidding: Material take-offs for quantity, dimensions and geometry of component elements of building for subcontractors and vendors who do not have 3D Data Base use capability.
2. Shop Drawings: Providing extractions and translations from Project Data Base for use by sub-contractors in preparation of shop drawings.
3. Coordination: Coordinating information from subcontractors including shop drawings and product data into coordination drawings required in Section 013300 - Submittal Procedures and Section 017700 - Closeout Procedures.

4. FTP Site: Contractor shall distribute the Project Data Base electronic data to, the Architect, subcontractors, and others through Contractor's FTP Site, physical distribution media, or other acceptable means.. The Architect will issue Contract Documents to the Contractor through the Architect's Architect's Data Transfer Web Site, physical distribution media, or other acceptable means.

B. Maintaining Data: Contractor shall maintain electronic copies of the Project Data Base as required for record Contract Documents.

1.5 3D DATA BASE ORGANIZATION

A. Organization of and contents of the 3D Data Base is as noted in the drawings, described, and listed within and in files attached to the 3D Data Base.

PART 2 - PRODUCTS

(Not Used)

PART 3 - EXECUTION

3.1 DATA EXTRACTION

A. The 3D Computer Data Base identified 'for visual reference only' shall be used for basic navigation and coordination. Data extraction from the Data Base for use as a visual reference tool shall be the sole responsibility of the General Contractor.

B. The 3D Computer Data Base identified 'as the primary source of dimensional control' shall be used in conjunction with the 2D Drawing and Contract Documents to describe and fabricate the related assemblies. Data extraction from the 3D Data Base, including all required dimensional information for these components of the work, shall be the sole responsibility of the General Contractor.

C. The contractor is responsible for determining what data is needed and extracting that data accurately.

3.2 DATA TRANSMISSION AND EXCHANGE

A. Project Data Base issued to the Contractor will be distributed through the Architect FTP site i-share or by physical distribution media, if appropriate. An excel spreadsheet titled "3D Data Base Distribution Matrix" will be issued with all 3D Data Base file transfers. This document lists all current 3D Data Base file revision levels. The Contractor shall distribute Project Data Base and other Contract Documents to bidders, subcontractors and all other entities on a need to know basis through a Contractor FTP site or other means.

B. All 3D Data Base information exchanged with the Architect shall be delivered to the Architect in the Rhinoceros .3DM software format or in a format acceptable to the Architect.

C. All 2D information exchanged with the Architect, if requested as electronic format, shall be delivered to the Architect in the AutoCad 2010 software format.

3.3 REVISION AND CHANGE TRACKING

A. 3D Data Base files will be tracked by date and revision numbers contained in the filename. Current revision levels are documented in the "3D Data Base Distribution Matrix"; if any discrepancies are found please confirm latest revision level(s) with Architect. Model objects that are new or have been revised since the previous issue will be indicated by "Attributes" in the electronic files. A complete list of part files included in the contract documents is included in the drawings.

3.4 TRANSLATIONS

A. The 3D Data Base will be issued to the General Contractor in Rhinoceros .3DM software format.

B. Translations of the Architect's 3D Data Base into other software formats shall be the sole responsibility of the Contractor, and verification of the accuracy of the translations shall be the sole responsibility of the Contractor.

C. 3D Models submitted to the Architect as required by various sections of the Project Manual shall be in the Rhinoceros .3DM software format or in a format acceptable to the Architect.

END OF SECTION

This page intentionally left blank.

SECTION 013200
CONSTRUCTION PROGRESS SCHEDULES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Administrative and procedural requirements for documenting the progress of construction during performance of the Work, including the following:
   1. Startup construction schedule.
   2. Contractor's construction schedule.
   3. Construction schedule updating progress.
   4. Commencement, completion and timing of work.

1.2 INFORMATIONAL SUBMITTALS

A. Format for Submittals: PDF electronic file.

B. Startup Construction Schedule.

C. Startup Network Diagram: Of size required to display entire network for entire construction period. Show logic ties for activities.

D. Contractor's Construction Schedule: Initial schedule, of size required to display entire schedule for entire construction period.

E. Construction Schedule Updating Reports: Monthly.

1.3 CONFERENCE

A. Prescheduling Conference: Conduct conference at Project site to comply with requirements in Section 013100 - Project Management & Coordination. Review methods and procedures related to the preliminary construction schedule and Contractor's construction schedule, including, but not limited to, the following:
   1. .
   2. Discuss constraints, including phasing, work stages, area separations, interim milestones, and partial Owner occupancy.
   3. Review delivery dates for Owner-furnished products.
   4. Review schedule for work of Owner's separate contracts.
   5. Review submittal requirements and procedures.
   6. Review time required for review of submittals and resubmittals.
   7. Review requirements for tests and inspections by independent testing and inspecting agencies.
   8. Review time required for Project closeout and Owner startup procedures, including commissioning activities.
   9. Review and finalize list of construction activities to be included in schedule.

1.4 COORDINATION

A. Coordinate Contractor's construction schedule with the schedule of values, list of subcontracts, submittal schedule, progress reports, payment requests, and other required schedules and reports.
   1. Secure time commitments for performing critical elements of the Work from entities involved.
   2. Coordinate each construction activity in the network with other activities and schedule them in proper sequence.

PART 2 - PRODUCTS

Not Used

PART 3 - EXECUTION

3.1 CONTRACTOR'S CONSTRUCTION SCHEDULE

A. General: Refer to Article 3.10 of the General Conditions of the Contract. Location and nature of Project, requirement to maintain operation, functions and services of Owner dictate careful planning, scheduling and close cooperation with Owner, with close coordination by Contractor, subcontractors and Owner.

1. Keep Owner advised of intended operations and schedule and be guided by other constraints or timing of work that may develop during construction, as instructed by Owner.
2. It is intent of Owner to cooperate as far as possible to minimize hampering of operations and Contractor may suggest schedules and timing which will facilitate progress.

B. Construction Schedule: Within 21 days after award of Contract, prepare proposed initial detailed Construction Progress Schedule for review with Owner and Architect.

1. In general, schedule shall indicate various phases of work coordinated and integrated time-wise with other work.
2. The schedule shall also indicate various activities of each area, stage and phase of work, with integrated and coordinated commencement and completion times.
3. After review by Owner, including revised sequencing proposed by Contractor or Owner to improve progress or minimize disruption of Owner's functions, revise schedule as "final" schedule, which will provide planning information for Owner's relocations and other operations.
4. Sequencing: Work sequences by various phases or areas form the basis for the logic of Contractor's construction schedule. Sequencing has been developed with Owner to permit new construction and remodeling to be accomplished while maintaining services and functions with a minimum of disturbance.
    a. It shall be recognized that unanticipated difficulties may arise, unanticipated conflicts in timing may occur or that Contractor will be able to develop alternatives which will benefit Project, timing of Work or Owner.
    b. In such event, propose or develop with Owner, alternatives for acceptance by Owner in advance, which will improve Project and its progress.

C. Construction Schedule Updating: At monthly intervals, update schedule to reflect actual construction progress and activities. Issue schedule one week before each regularly scheduled progress meeting.

1. Revise schedule immediately after each meeting or other activity where revisions have been recognized or made. Issue updated schedule concurrently with the report of each such meeting.
2. Include a report with updated schedule that indicates every change, including, but not limited to, changes in logic, durations, actual starts and finishes, and activity durations.
3. As the Work progresses, indicate final completion percentage for each activity.
4. Schedule Revisions: If necessary during construction due to additional proposed improvements, unanticipated conflicts or other conditions, revise schedule as often as may be required in a manner approved by Owner, to keep Owner constantly advised as to dates of various activities.
    a. Copies of revised schedules shall be provided Owner and Architect.

D. Time Frame: Extend schedule from date established for commencement of the Work to date of Substantial Completion and final completion.

1. Completion Date: Contract completion date shall not be changed by submission of a schedule that shows a change in completion date, unless specifically authorized by Change Order.

E. Constraints: Include scheduling constraints and work restrictions indicated in the Contract Documents and as follows in schedule, and show how the sequence of the Work is affected.

1. Phasing: Arrange list of activities on schedule by phase.
2. Work under More Than One Contract: Include a separate activity for each contract.
3. Work by Owner: Include a separate activity for each portion of the Work performed by Owner.
4. Products Ordered in Advance: Include a separate activity for each product.
5. Work Restrictions:

F. Milestones: Include milestones indicated in the Contract Documents in schedule, including, but not limited to, the Notice to Proceed, Substantial Completion, and final completion.

G. Cost Correlation: Superimpose a cost correlation timeline, indicating planned and actual costs. On the line, show planned and actual dollar volume of the Work performed as of planned and actual dates used for preparation of payment requests.

1. See Section 012900 - Payment Procedures for cost reporting and payment procedures.

H. Upcoming Work Summary: Prepare summary report indicating activities scheduled to occur or commence prior to submittal of next schedule update. Summarize the following issues:

1. Unresolved issues.
2. Unanswered Requests for Information.
3. Rejected or unreturned submittals.
4. Notations on returned submittals.
5. Pending modifications affecting the Work and Contract Time.

I. Recovery Schedule: When periodic update indicates the Work is 14 or more calendar days behind the current approved schedule, submit a separate recovery schedule indicating means by which Contractor intends to regain compliance with the schedule. Indicate changes to working hours, working days, crew sizes, and equipment required to achieve compliance, and date by which recovery will be accomplished.

J. Computer Scheduling Software: Prepare schedules using current version of a program that has been developed specifically to manage construction schedules.

K. Startup Construction Schedule: Indicate each significant construction activity separately. Identify first workday of each week with a continuous vertical line. Outline significant construction activities for first 90 days of construction. Include skeleton diagram for the remainder of the Work and a cash requirement prediction based on indicated activities.

L. Site Condition Reports: Immediately on discovery of a difference between site conditions and the Contract Documents, prepare and submit a detailed report. Submit with a Request for Information. Include a detailed description of the differing conditions, together with recommendations for changing the Contract Documents.

3.2 EXECUTION OF WORK

A. Commencement of Work:

1. No work shall commence at the site until required bond and insurance evidence has been submitted.
2. Commence work within 14 days of Notice to Proceed as specified.

B. Execute Work regularly, diligently, without interruption or shutdown (except for temporary suspension while waiting for Owner to relocate departments or facilities, prior to proceeding) and at such rate of progress as will provide Substantial and Final Completion within Contract Time.

C. Contractor and Subcontractors shall analyze Project, materials and methods involved, systems of the building, availability of qualified mechanics and unskilled labor, restrictions of site, constraints imposed, contractor's work load and capacity to perform Work and indicate agreement that specified completion, and proposed Project completion times are reasonable considering Project conditions, usual industrial conditions, climatic conditions prevailing in locality of Project, and other factors, with reasonable allowance for variations from average, typical or ideal conditions.

3.3 COMPLETION OF THE WORK

A. Substantial Completion Date: As agreed upon between Owner and Contractor and entered into Agreement.

B. Completion of Areas: At space or area specified, or later scheduled, to be occupied or used by Owner before entire Project is complete, elements and systems of Work shall be substantially complete by scheduled time.

1. Systems shall be tested, balanced or otherwise placed in full and proper operating condition.

2. Individual Areas: Certain areas and phases of Project are required by Owner to be substantially completed before entire Project is complete, and have more critical requirements for use or occupancy by Owner, to accommodate other phases of Work, to accommodate Owner's services and functions, to provide passages to various adjacent buildings, to maintain services and functions of various departments and to coordinate with other construction.
3. The sub-completion times for various areas or phases, as specified or as later developed in Contractor's Construction Schedule, shall be essential conditions of Contract, as well as completion of entire Project.

C. Time Set by Schedule: Where constraints, completion and timing of Work specified in this or other Sections do not have specific dates or time imposed by Contract Documents, they shall be considered and incorporated as established dates in final Construction Schedule of Contractor.
   1. Where the activity affects Owner, time or dates established in Construction Schedule shall be maintained, as Owner will plan activities accordingly.

D. Other Considerations: In addition to time of commencement, substantial completion and final completion dates, other events, factors, and constrains shall be carefully considered in establishing work progress and schedule for Project.
   1. Contractor and subcontractors shall work closely in timing of operations and shall have materials, equipment and other elements ready to be able to immediately fulfill their obligations in the overall schedule.

E. Final Completion: Within 30 days after Substantial Completion date.

END OF SECTION

SECTION 013230
PHOTOGRAPHIC DOCUMENTATION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Preconstruction photographs.
   2. Periodic construction photographs.
   3. Final completion construction photographs.
   4. Preconstruction video recordings.
   5. Periodic construction video recordings.
   6. Construction webcam.

B. Related Sections:
   1. Section 003100 - Available Project Information.
   2. Section 013300 - Submittal Procedures.
   3. Section 017132 - Vibration Monitoring
   4. Section 017800 - Closeout Submittals.
   5. Section 022214 - Existing Conditions Assessment.

1.2 INFORMATIONAL SUBMITTALS

A. Key Plan: Submit key plan of Project site and building with notation of vantage points marked for location and direction of each photograph. Indicate elevation or story of construction. Include same information as corresponding photographic documentation.

B. Digital Photographs: Submit image files within three days of taking photographs.
   1. Digital Camera: Minimum sensor resolution of 8 megapixels.
   2. Format: Provide images in JPG format, image resolution of not less than 1600 by 1200 pixels and 400 dpi, in unaltered original files, with same aspect ratio as the sensor, uncropped, date- and time- stamped, in folder named by date of photograph, accompanied by key plan file.
   3. Identification: Provide the following information with each image description in file metadata tag:
      a. Name of Project.
      b. Name and contact information for photographer.
      c. Names of Architect, [**Construction Manager**] and Contractor.
      d. Date photograph was taken.
      e. Description of vantage point, indicating location, direction (by compass point), and elevation or story of construction.
      f. Unique sequential identifier keyed to accompanying key plan.

C. Video Recordings: Submit video recordings within [**seven**] days of recording.
   1. Format: Submit video recordings [**on CD-ROM or thumb drive**] [**by uploading to web-based project software site**]. Include copy of key plan indicating each video's location and direction.
   2. Digital Video Recordings: Provide high-resolution, digital video in MPEG format, produced by a digital camera with minimum sensor resolution of [**12**] megapixels and capable of recording in full high-definition mode[**with vibration-reduction technology**]. Provide supplemental lighting in low light levels or backlit conditions.
   3. Identification: With each submittal, provide the following information [**in file metadata tag**] [**on web-based project software site**]:
      a. Name of Project.
      b. Name and address of photographer.
      c. Names of Architect, [**Construction Manager**] and Contractor.
      d. Date video recording was recorded.
      e. Description of vantage point, indicating location, direction (by compass point), and elevation or story of construction.

4. Written Transcript: Prepared on 8-1/2-by-11-inch paper, punched and bound in three-ring binders. Provide label on front and spine. Include a cover sheet with label information. Include name of Project and date of video recording on each page.

D. Time-Lapse Video: Submit time-lapse sequence video recordings **within** <**Insert number**> **days of recording**.
   1. Submit time-lapse sequence video recordings [**monthly**] [**on CD-ROM or thumb drive**] [**by uploading to web-based project software site**].
   2. Identification: For each recording, provide the following information [**in file metadata tag**] [**on web-based project software site**]:
      a. Name of Project.
      b. Name and contact information for photographer.
      c. Names of Architect, [**Construction Manager**] and Contractor.
      d. Dates and times video recording was recorded.
      e. Description of vantage point, indicating location, direction (by compass point), and elevation or story of construction.

1.3 COORDINATION

A. Auxiliary Services: Cooperate with photographer and provide auxiliary services requested, including access to Project site and use of temporary facilities, including temporary lighting required to produce clear, well-lit photographs.

1.4 USAGE RIGHTS

A. Obtain and transfer copyright usage rights from photographer to Owner for unlimited reproduction of photographic documentation.

1.5 CONSTRUCTION PHOTOGRAPHS

A. Photographer: Engage a qualified photographer to take construction photographs.
   1. Photographer Qualifications: An individual who has been regularly engaged as a professional photographer of construction projects for not less than three years.

B. General: Take photographs using the maximum range of depth of field, and that are in focus, to clearly show the Work. Photographs with blurry or out-of-focus areas will not be accepted.
   1. Maintain key plan with each set of construction photographs that identifies each photographic location.

C. Digital Images: Submit digital images exactly as originally recorded in the digital camera, without alteration, manipulation, editing, or modifications using image-editing software.
   1. Date and Time: Include date and time in file name for each image.
   2. Field Office Images: Maintain one set of images accessible in the field office at Project site, available at all times for reference. Identify images in the same manner as those submitted to Architect.

D. Preconstruction Photographs: Before commencement of excavation and demolition, take photographs of Project site and surrounding properties, including existing items to remain during construction, from different vantage points, as directed by Architect.
   1. Flag excavation areas and construction limits before taking construction photographs.
   2. Take photographs to show existing conditions adjacent to property before starting the Work.
   3. Take photographs of existing buildings either on or adjoining property to accurately record physical conditions at start of construction.
   4. Take additional photographs as required to record settlement or cracking of adjacent structures, pavements, and improvements.

E. Architect-Directed Construction Photographs: From time to time, Architect will instruct photographer about number and frequency of photographs and general directions on vantage points. Select actual vantage points and take photographs to show the status of construction and progress since last photographs were taken.

F. Final Completion Construction Photographs: Take color photographs after date of Substantial Completion for submission as project record documents. Architect will inform photographer of desired vantage points.

G. Additional Photographs: Architect may request photographs in addition to periodic photographs specified.
   1. Three days' notice will be given, where feasible.
   2. In emergency situations, take additional photographs within 24 hours of request.
   3. Circumstances that could require additional photographs include, but are not limited to, the following:
      a. Special events planned at Project site.
      b. Immediate follow-up when on-site events result in construction damage or losses.
      c. Photographs to be taken at fabrication locations away from Project site. These photographs are not subject to unit prices or unit-cost allowances.
      d. Substantial Completion of a major phase or component of the Work.
      e. Extra record photographs at time of final acceptance.
      f. Owner's request for special publicity photographs.

1.6 CONSTRUCTION VIDEO RECORDINGS

A. Video Recording Photographer: Engage a qualified videographer to record construction video recordings.

B. Narration: Describe scenes on video recording by [**audio narration by microphone while**] [**or**] [**dubbing audio narration off-site after**] video recording is recorded. Include description of items being viewed, recent events, and planned activities. At each change in location, describe vantage point, location, direction (by compass point), and elevation or story of construction.
   1. Confirm date and time at beginning and end of recording.
   2. Begin each video recording with name of Project, Contractor's name, videographer's name, and Project location.

C. Transcript: Provide a typewritten transcript of the narration. Display images and running time captured from video recording opposite the corresponding narration segment.

D. Preconstruction Video Recording: Before starting [**excavation**] [**demolition**] [**construction**], record video recording of Project site and surrounding properties from different vantage points, as directed by [**Architect**] [**Construction Manager**].
   1. Flag [**excavation areas**] [**construction limits**] before recording construction video recordings.
   2. Show existing conditions adjacent to Project site before starting the Work.
   3. Show existing buildings either on or adjoining Project site to accurately record physical conditions at the start of [**excavation**] [**demolition**] [**construction**].
   4. Show protection efforts by Contractor.

E. Periodic Construction Video Recordings: Record video recording [**monthly**] [**weekly**] <**Insert time interval**> [**coinciding with the cutoff date associated with each Application for Payment**]. Select vantage points to show status of construction and progress since last video recordings were recorded. Minimum recording time shall be [**30**] <**Insert number**> minutes(s).

F. Time-Lapse Sequence Construction Video Recordings: Record video recording to show status of construction and progress.
   1. Frequency: During each of the following construction phases, set up video recorder to automatically record one frame of video recording every [**five**] <**Insert time**> minutes, from same vantage point each time, to create a time-lapse sequence of [**30 minutes**] <**Insert time**> in length as follows:
      a. Commencement of the Work, through completion of subgrade construction.
      b. Above-grade structural framing.
      c. Exterior building enclosure.
      d. <Insert construction phase>.
   2. Timer: Provide timer to automatically start and stop video recorder so recording occurs only during [**daylight**] [**construction work**] hours.

3. Vantage Points: Following suggestions by [**Architect**] [**Construction Manager**] and Contractor, photographer shall select vantage points.

1.7 CONSTRUCTION WEBCAM

A. Webcam: Provide [**one**] [**two**] <**Insert number**> fixed-location camera(s) with weatherproof housing, mounted to provide unobstructed view of construction site from location approved by Architect, with the following characteristics:
   1. Construction Webcam Service Provider: A firm specializing in providing photographic equipment, web-based software, and related services for construction projects, with record of providing satisfactory services similar to those required for Project.
   2. [Static view] [Remotely controllable view with mouse-click user navigation for horizontal pan, vertical tile, and optical zoom of 500 percent minimum].
   3. Capable of producing minimum [**8**] [**12**] <**Insert number**> megapixel images.
   4. Provide power supply, active high-speed data connection to service provider's network, and static public IP address for each camera.

B. Live Streaming Images: Provide web-accessible image of current site image, updated at [**five**] [**15**] <**Insert number**>-minute intervals [**during daytime operation**] [**when construction is underway**].

C. Web-Based Interface: Provide online interface to allow viewing of each high-definition digital still image captured and stored during construction, from the Internet.
   1. Access Control: Provide password-protected access for Project team administered by Contractor, providing current image access and archival image access by date and time, with images downloadable to viewer's device.
   2. Storage: Maintain images on the website for reference during entire construction period, and for not less than 30 days after final completion. Provide sufficient memory on remote server to store all Project images.
   3. Online Interface: Provide website interface with Project and client information and logos; calendar-based navigation interface for selecting images; pan and zoom capability within high-definition images.
   4. Forward and Reverse: Provide capability to browse through images, moving forward and backward in time by individual image and by day.
   5. Slideshow: Provide capability to automatically display current images from sites when there are three or more cameras used.
   6. Time-Lapse: Provide capability for online display of project time-lapse.
   7. Dashboard: Provide capability to view thumbnails of all cameras on one screen.
   8. Weather: Provide corresponding weather data for each image captured.
   9. Provide public viewer open access[**to most recent Project camera image**].

D. Maintain cameras and web-based access in good working order according to web-based construction photographic documentation service provider's written instructions until final completion. Provide for service of cameras and related networking devices and software.

PART 2 - PRODUCTS

Not Used

PART 3 - EXECUTION

Not Used

END OF SECTION

SECTION 013300
SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Administrative and procedural requirements for Submittals.
   2. Submittal Schedule.

1.2 DEFINITIONS

A. Required submittals are specified in each technical specification Section and identified as either Action Submittals, Informational Submittals, Sustainability Submittals or Closeout Submittals.
   1. Action Submittals: Written and graphic information and physical samples that require Architect's responsive action.
   2. Informational Submittals: Written and graphic information and physical samples that do not require Architect's responsive action. Submittals may be rejected for not complying with requirements.
   3. Closeout Submittals: Operation and maintenance manuals, warranties, and project record documents required at project closeout.

B. File Transfer Protocol (FTP): Communications protocol that enables transfer of files to and from another computer over a network and that serves as the basis for standard Internet protocols. An FTP site is a portion of a network located outside of network firewalls within which internal and external users are able to access files.

C. Newforma: Proprietary internet-based project information management software.

D. Portable Document Format (PDF): An open standard file format licensed by Adobe Systems used for representing documents in a device-independent and display resolution-independent fixed-layout document format.

1.3 SUBMITTAL SCHEDULE

A. Submittal Schedule: Submit a schedule of submittals, arranged in chronological order and coordinated with Construction Schedule, List of Subcontracts, Schedule of Values, and with performance of construction activities.
   1. Preparation: Prepare and submit Submittal Schedule within 10 working days after award of Contract, and prior to execution of Contract.
   2. Format: Arrange the following information in a tabular format:
      a. Specification Section number and title.
      b. Submittal Type: Product Data, Shop Drawing, Sample, or other.
      c. Submittal Category: Action, Informational, Closeout, Sustainable Design.
      d. Scheduled date for first submittal.
      e. Scheduled date for Architect's final release or approval.
      f. Name of subcontractor.
      g. Description of the Work covered.
   3. Grouping: Schedule transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination. Identify and schedule groups of related items, including but not limited to:
      a. Submittal schedule, list of materials, list of subcontractors, schedule of values
      b. Air barrier system.
      c. Glazing systems and glass.
      d. Doors, hardware and electronic access.
      e. Custom fabrications.
      f. Integrated systems.
      g. Prefabricated assemblies involving components from multiple specification Sections.

h. Submittals that need to be routed to multiple disciplines and consultants.
i. Other submittals identified by Architect.

4. Review and Processing Time: Allow at least **[10]** working days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required.
   a. Include additional time for making corrections or revisions to submittals noted by Architect and for handling and reviewing submittals required by those corrections.
   b. Allow extra review time for large groups of related submittals transmitted at one time, and for submittals requiring sequential review by multiple parties such as Architect's consultants or Owner.
   c. Resubmittal Review: Allow **[10]** working days for review of resubmittal.

1.4 SUBMITTAL ADMINISTRATIVE PROCEDURES

A. Submittal Procedures, General: Refer to General Conditions for scope of submittal review and acceptance.
   1. Substitutions or Contract modifications shall not be made in submittals.
      a. Exceptions and variations must be clearly noted on submittal and accompanied by the appropriate supporting forms.
      b. Follow documented procedures for substitutions or Contract modifications and send with submittal if a change is being proposed.
      c. Approval of a submittal with substitutions or modifications included but that have not been specifically and individually approved does not constitute acceptance of the substitution and Contractor will be responsible for exception or variations not in compliance with Contract Documents.
   2. The Contractor shall perform no portion of the Work for which the Contract Documents require submittal and review of Shop Drawings, Product Data, Samples or similar submittals until the respective submittal has been approved by the Architect.
   3. Partial Submittals: Partial submittals for only a portion of the Work will be reviewed with prior approval from Architect.
   4. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.

B. Submittal Coordination: Submit Shop Drawings, Product Data, Samples, and Informational Submittals as individual packages, each with its own transmittal. Send all required submittals of a single specification Section concurrently, but as separate packages under separate transmittals.

C. Electronic Submittals: Prepare and submit submittals as specified in individual Specification Sections, and as follows:
   1. Post electronic submittals as PDF electronic files directly using Architect's internet-based project information management software, Newforma.
      a. Architect will return stamped and annotated PDF file using the same software.
   2. File Format: Assemble each submittal package into a single PDF file including submittals of a single specification Section.
      a. Filename: Incorporate submittal number or other unique identifier, including revision identifier.
      b. Submit unlocked, editable PDF file to accommodate electronic annotation and stamps.
      c. Index PDF file with bookmarks enabling navigation to each item requiring Architect's action.
   3. Transmittal Form: Include completed transmittal form attached to the end of this Section. Submittals sent without completed Submittal Transmittal Form will be considered incomplete, marked NOT ACCEPTED, and returned without review.
   4. Stamp Page: Include a page specifically intended for Contractor and Architect stamps.
   5. Signatures for Electronic Submittals: Provide a statement that includes signature of entity responsible for preparing certification. Certificates and certifications shall be signed by an officer or other individual authorized to sign documents on behalf of that entity.
      a. Digital Signature: Provide a digital signature with digital certificate on electronically submitted certificates and certifications where indicated.
      b. Notarized Certificates: Provide a notarized statement on original paper copy certificates and certifications where indicated.

D. Contractor's Review: Prior to submitting to Architect, review each submittal for clarity, coordination with other Work and compliance with the Contract Documents; note corrections, clarifications and field dimensions and insert Contractor's approval stamp.
   1. Contractor's Approval Stamp: Stamp each submittal with a uniform approval stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.
   2. Architect will not review received submittals that do not have Contractor's review and approval.

E. Architect's Review:
   1. Architect will review each submittal, annotate to indicate required corrections or revisions, insert action stamp and mark stamp appropriately to indicate action, as follows:
      a. APPROVED: Submittal has no exceptions noted.
      b. CONDITIONALLY APPROVED: Submittal has exceptions noted, but resubmission is not required.
      c. NOT APPROVED: Submittal is incomplete and/or need corrections. Complete and/or correct and resubmit until final acceptance is obtained.
      d. RECEIVED: Submittal is for information only.
      e. NOT REVIEWED: Submittal was not required and has not been reviewed.
   2. Architect will advise Contractor when a submittal being processed must be delayed for coordination. Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.

F. Final Submittals: Stamped APPROVED or CONDITIONALLY APPROVED.
   1. Distribute final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for coordination and performance of construction activities. Show distribution on transmittal forms. Provide copies to Owner if Owner requests copies during construction.
   2. Use for Construction: Retain copies of submittals Record Set on Project site.

1.5 SUBMITTAL REQUIREMENTS

A. Product Data: Collect information into a single submittal for each element of construction and type of material, product or equipment, describing product properties and performance, and indicating compliance with Contract Documents.
   1. Identifying Information:
      a. Include Architect's material identification abbreviation or equipment number as indicated in the Contract Documents.
      b. Indicate products and options applicable to Project.
      c. Indicate options requiring Architect's selection.
      d. Description of intended use, application, or location for Project.
   2. Technical Information:
      a. Manufacturer's catalog cuts.
      b. Statement of compliance with specified referenced standards.
      c. Testing reports by recognized testing agency.
      d. Application of testing agency labels and seals.
      e. Coordination requirements.
      f. Wiring diagrams showing factory-installed wiring.
      g. Printed performance curves.
      h. Operational range diagrams.
      i. Clearances required to other construction, if not indicated on accompanying Shop Drawings.
      j. Where color charts are required in lieu of color samples, provide original hard copy color charts.
   3. Not Acceptable as Product Data Submittal: The following types of data are not suitable for technical review and will be marked NOT APPROVED or NOT REVIEWED, and returned. Unless indicated otherwise in technical specification Sections, do not submit the following:
      a. Product Data not reviewed by Contractor, or without Contractor's stamped approval.

b. PDF’s with internet hyperlinks requiring Architect to navigate websites for information or to download documents.
c. Manufacturer’s non-technical marketing literature, or other documents that are inadequate as technical information.
d. Illegible scans of hard copies.
e. Product Safety Data Sheets (SDS) or Material Safety Data Sheets (MSDS), unless otherwise required as part of a sustainability documentation requirement.
f. Electronic color chart files, scanned PDF of color chart, or photocopied hard copies of color charts.

B. Shop Drawings: Submit in PDF electronic file format. Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data.
1. Use of Architect’s Drawings: Do not reproduce Architect's drawings (whether CADD files, electronic files, hard copy drawings or other publication method) to serve as shop drawings until Architect’s written permission is received and then only under the following conditions:
a. Use is subject to terms and conditions included in written permission.
b. Use only where necessary to indicate general location of a specific fabricated item.
c. Remove extraneous notes and information from Drawing before inclusion in submittal. Only show information related to fabrication, erection, installation, application of components, products or systems being produced. Do not include Architect's title block or other information identifying Architect.
d. Submitted drawing shall only include information intended to be reviewed and accepted.
e. Refer to Summary of Work for additional information on Electronic files.
2. Layout Drawings: Provide where necessary for field use or as required by Architect.
3. Shop Drawings:
a. Number in submittal sequence.
b. Include contractor's stamp of approval, as evidence that drawings are approved in accordance with General Conditions, except that field dimensions must be verified prior to approval and submittal.
c. Provide clear space on each drawing of not less than 40 square inches for Architect's stamp.
d. Show field verified dimensions on final shop drawings and identify verified dimensions.
e. Show adjacent construction and how each item coordinates with other subcontractors, trades and suppliers.
4. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:
a. Identification of products.
b. Schedules.
c. Compliance with specified standards.
d. Notation of coordination requirements.
e. Notation of dimensions established by field measurement.
f. Relationship and attachment to adjoining construction clearly indicated.
g. Seal and signature of professional engineer if specified.
5. Not Acceptable as Shop Drawing Submittal: The following types of drawings are not suitable for technical review and will be marked NOT APPROVED or NOT REVIEWED, and returned. Unless indicated otherwise in technical specification Sections, do not submit the following:
a. Shop drawings not reviewed by Contractor, or without Contractor's stamped approval.
b. Shop drawings with only unnecessary information, or without requested information.

C. Samples: Submit physical Samples materials and products; for review of quality, kind, color, pattern, and texture for a check of these characteristics with other elements and for a comparison of these characteristics between submittal and actual component as delivered and installed.
1. Electronic Transmittal: For projects where electronic submittals are required, provide corresponding electronic submittal of Sample transmittal, digital image file illustrating Sample characteristics, and identification information for record.
2. Transmit Samples that contain multiple, related components together in one submittal package.
3. Identification: Attach label on unexposed side of Samples that includes the following:
a. Generic description of Sample.

b. Product name and name of manufacturer.
c. Sample source.
d. Number and title of applicable Specification Section.
e. Specification paragraph number and generic name of each item.

4. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.
   a. Samples not incorporated into the Work, or otherwise designated as Owner's property, are the property of Contractor.
   b. Delivery: As required by specifications to Architect/Engineer with delivery costs prepaid.
   c. Removal: At Architect's/Engineer's direction, remove samples after approval.
5. Samples for Initial Selection: Submit manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available.
   a. Number of Samples: Submit one full set of available choices where color, pattern, texture, or similar characteristics are required to be selected from manufacturer's product line.
   b. Architect will return submittal with options selected.
6. Samples for Verification: Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or product proposed for use, and that show full range of color and texture variations expected.
   a. Number of Samples: Submit three sets of Samples. Architect will retain two Sample sets; remainder will be returned.
      1) Assembly Sample: Submit a single Sample where assembly details, workmanship, fabrication techniques, connections, operation, and other similar characteristics are to be demonstrated.
      2) Range Samples: If variation in color, pattern, texture, or other characteristic is inherent in material or product represented by a Sample, submit at least three sets of paired units that show approximate limits of variations.
7. Other Samples: Provide samples for other purposes as specified, such as for testing or for transmittal to other entities for matching.
8. Not Acceptable as Samples Submittal: The following types of samples are not suitable for review or for final selections and will be marked NOT APPROVED or NOT REVIEWED, and returned. Unless indicated otherwise in technical specification Sections, do not submit the following:
   a. Electronic color chart files, scanned PDF of color chart, or photocopied hard copies of color charts.

D. Product Schedules: As required in individual Specification Sections, prepare a written summary indicating types of products required for the Work and their intended location.
   1. Format: Submit in form of a searchable PDF electronic file format.
   2. Include the following information in tabular form:
      a. Type of product. Include unique identifier for each product indicated in the Contract Documents or assigned by Contractor if none is indicated.
      b. Manufacturer and product name, and model number if applicable.
      c. Number and name of room or space.
      d. Location within room or space.

E. Certificates:
   1. Welding Certificates: Prepare written certification that welding procedures and personnel comply with requirements in the Contract Documents. Submit record of Welding Procedure Specification and Procedure Qualification Record on AWS forms. Include names of firms and personnel certified.
   2. Installer Certificates: Submit written statements on manufacturer's letterhead certifying that Installer complies with requirements in the Contract Documents and, where required, is authorized by manufacturer for this specific Project.
   3. Manufacturer Certificates: Submit written statements on manufacturer's letterhead certifying that manufacturer complies with requirements in the Contract Documents. Include evidence of manufacturing experience where required.

4. Product Certificates: Submit written statements on manufacturer's letterhead certifying that product complies with requirements in the Contract Documents.
5. Material Certificates: Submit written statements on manufacturer's letterhead certifying that material complies with requirements in the Contract Documents.

F. Test Reports:
1. Material Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting test results of material for compliance with requirements in the Contract Documents.
2. Product Test Reports: Submit written reports indicating that current product produced by manufacturer complies with requirements in the Contract Documents. Base reports on evaluation of tests performed by manufacturer and witnessed by a qualified testing agency, or on comprehensive tests performed by a qualified testing agency.
3. Preconstruction Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of tests performed before installation of product, for compliance with performance requirements in the Contract Documents.
4. Compatibility Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of compatibility tests performed before installation of product. Include written recommendations for primers and substrate preparation needed for adhesion.
5. Field Test Reports: Submit written reports indicating and interpreting results of field tests performed either during installation of product or after product is installed in its final location, for compliance with requirements in the Contract Documents.

G. Product Research Reports: Submit written evidence, from a model code organization acceptable to authorities having jurisdiction, that product complies with building code in effect for Project. Include the following information:
1. Name of evaluation organization.
2. Date of evaluation.
3. Time period when report is in effect.
4. Product and manufacturers' names.
5. Description of product.
6. Test procedures and results.
7. Limitations of use.

H. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, contact information of architects and owners, and other information specified.

1.6 DELEGATED DESIGN SERVICES

A. Delegated Design Submittal and Shop Drawings: Where professional design services or certifications by a qualified Professional Engineer are specifically required of the Contractor by the Contract Documents, prepare and incorporate the following delegated design requirements into the shop drawings submittal package.
1. Shop drawings shall be signed and sealed by a qualified Professional Engineer or contain an attached certificate, signed and sealed by a qualified Professional Engineer, indicating that the products and systems comply with performance and design criteria in the Contract Documents.
2. Shop drawings or certificate shall clearly define the design criteria and applied loads for which the system components and connections have been designed. If design criteria indicated in the Contract Documents are not sufficient to perform services or certification required, submit a written request for additional information to Architect/Engineer.
    a. Include list of design criteria, codes, standards, loads, and other factors used in performing these services.
3. Shop drawings shall clearly indicate magnitude and location of all forces transferred to the supporting building structure by the product or system in which it is connected to. Forces shall be provided as unfactored values determined in accordance with the applicable building codes.

B. Calculations: Upon request from the Architect/Engineer only, Contractor shall submit signed and sealed engineering calculations prepared by a qualified Professional Engineer. Submitted calculations that have not been requested by the Architect/Engineer will be returned without review.
   1. Calculations shall indicate structural integrity of members, anchors, fasteners and connections to supporting building structure, in accordance with performance and design criteria in Contract Documents. Provide load calculations, summary of loads and any applicable load diagrams.
   2. Calculations will be reviewed by Architect/Engineer for stated design criteria, general compliance to specified requirements, and forces imposed on supporting structure only. The accuracy of the design calculations is the sole responsibility of the Contractor's Professional Engineer.

C. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in the jurisdiction where the Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of the systems, assemblies, or products that are similar in material, design, and extent to those indicated for this Project.

PART 2 - PRODUCTS
Not Used

PART 3 - EXECUTION
Not Used

END OF SECTION

This page intentionally left blank.

SECTION 013310

SUBMITTAL TRANSMITTAL FORM

To: Hammel Green and Abrahamson, Inc.
Attn: Submittals Coordinator
222 Sutter Street, Suite 500
San Francisco, California 94108

From: _____
_____
_____

Contact: _____
Email: _____
Phone: _____

Owner: **Natividad**
Project: **Medical Center**
HGA No.: **3707-016-00**

Submittal Date: _____
Previous Date: _____

PRODUCT DATA ☐ Partial ☐ Complete ☐ Preliminary ☐ Final

Specification Section, Article, Paragraph: _____

Description: _____

_____

Product/Model: _____

Manufacturer: _____

Supplier: _____

Subcontract: _____

SHOP DRAWINGS ☐ Partial ☐ Complete ☐ Preliminary ☐ Final

Specification Section, Article, Paragraph: _____

Description: _____

_____

Product/Model: _____

Manufacturer: _____

Supplier: _____

Subcontract: _____

SAMPLES ☐ Partial ☐ Complete ☐ Preliminary ☐ Final

Specification Section, Article, Paragraph: _____

Description: _____

_____

Product/Model: _____

Manufacturer: _____

Supplier: _____

Subcontract: _____

SUBMITTED BY

Name: _____ Company: _____

Signature: _____ Date: _____

This page intentionally left blank.

SECTION 013513
SPECIAL PROJECT PROCEDURES FOR HEALTHCARE FACILITIES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Special procedural requirements for work in hospital areas as follows:
      a. Examination Rooms, and other areas where airborne contaminants must be strictly limited due to their effects on patients, staff, diagnostic operations, or sensitive procedures or equipment.
      b. Worker identification, non-smoking policy, security, and parking, other hospital requirements.
   2. Hospital airborne contaminants control policy and procedures.
   3. Ceiling access control of airborne contaminants.
   4. Procedures for implementing Owner's Interim Life Safety Measures (ILSM) Program.
   5. Requirements for the Owner's ILSM Program.

B. Related Sections:
   1. Section 015200 - Construction Facilities.
   2. Section 015615 - Airborne Contaminants Control.
   3. Section 017329 - Cutting and Patching.

C. Related Sections:
   1. Sections 017329 - Cutting and Patching and 024119 – Selective Demolition: Removal of debris may be outside of normal work hours and shall be in tightly covered containers. Perform work in accordance with requirements of this Section.
   2. Section 013300 – Submittals Procedures: Work and procedures for containment of airborne contaminants shall be included in submittals in accordance with the requirements of this Section.
   3. Section 015200 -Temporary Facilities: Provide temporary barriers, chutes and the like as necessary to control airborne contaminants. Extend barriers above ceilings as required to seal off and contain airborne contaminants.
   4. Section 017700 – Closeout Procedures: Use wet cleaning methods and HEPA-filtered vacuum cleaners as required to minimize release of airborne contaminants. Disinfect containment and protection areas to effect final cleaning as directed by Owner's Representative.
   5. Section 230130 - Ductwork Cleaning: Perform cleaning of heating, ventilating and air conditioning (HVAC) systems and ductwork in accordance with this Section.

1.2 DEFINITIONS

A. The term "contaminant", as used in this Section, is defined as a material which may be dispersed through normal air movement, including dust, chalk, powders, aerosols, fumes, fibers, outdoor air, and other similar materials.

B. Non-Smoking Policy: Hospital/Clinic has a non-smoking policy. This means no smoking. Those observed to be smoking on hospital/clinic property will be asked to discontinue their smoking behavior.

C. Interim Life Safety Measures are a series of eleven administrative actions required to be taken to temporarily compensate for the hazards posed by existing life safety deficiencies or construction activities.

D. Safety Systems: Systems required by Code for occupant safety and protection. Examples: Fire barriers; smoke barriers; exit pathways; emergency power; fire alarms; medical gases; HVAC systems; fire-rated doors.

E. Contaminant Producing Activities include, but are not limited to:
   1. Demolition and removal of walls, floors, ceilings, and other finish materials.

2. Demolition of plumbing, mechanical and electrical systems and equipment.
3. Finish operations such as sanding, painting, and application of special surface coatings.
4. Routine construction activity which can generate dust.
5. Sitework operations.

F. Containment Areas: As determined by Owner's Representative and as shown on drawings. Includes area of construction, adjacent staging and storage areas, and passage areas for contractors, supplies and waste; includes ceiling spaces above and adjacent to construction, if shown.

G. Protection Areas: As determined by Owner's Representative and as shown on drawings as Protection areas. Includes hospital areas adjacent to Containment Area, either occupied or used for passage, as well as areas connected to construction area by mechanical system air intake, exhaust and ductwork.

H. "Minor" ceiling access is defined as visual observation or minor adjustments or other activity that does not disturb dust. Acoustical panels shall be replaced or access panel shall be closed immediately when the contractor leaves the work site.

I. "Major" ceiling access describes any other access not defined as "minor".

J. "Thorough" cleaning of surfaces which become exposed to dust shall be accomplished by the use of either a HEPA filtered vacuum cleaner or a wet mop.

K. Negative Air Machine: Portable mechanical units to provide a negative air pressure in the Containment Areas, as specified in this Section.

1.3 SUBMITTALS

A. Progress Schedules: Submit work areas and procedure schedules for containment of airborne contaminants.

B. Work Plan: Drawings and details of construction of necessary temporary barriers, and description of procedures to be used to achieve and maintain control of construction-related airborne contaminants. Refer to Sections 017329 - Cutting and Patching and 024119 – Selective Demolition, submittal may be combined with remodeling work plan.

C. Certification: Submit Contractor's plan certification as specified.

1.4 FROM THE JOINT COMMISSION WEBSITE

A. *What must an Interim Life Safety Measure policy contain?*

B. ILSM - Policy Scope: In order to evaluate and implement an effective plan for Life Safety code deficiency mitigation, an Interim Life Safety Measure policy must consist of the following:

1. State that the process is applicable to both construction related situations, and situations of non-compliance with the Life Safety Code.
2. State circumstances that would require ILSM assessment, to include a statement that at all Statement of Condition, Plans for Improvement (PFI's) are to be assessed for ILSM.
3. Describe how the organization will respond to situations described in LS.01.02.01.
4. Describe how occupants are to be protected by using the available menu of interim life safety measures described in LS.01.02.01, as applicable to the situation.
5. Describe the ILSM assessment process, to include an assessment tool to document which measure(s) will be implemented, or no ILSM needed if that is the assessment result.
6. Describe the ILSM implementation process, to be effective throughout the duration of the deficiency(s), and to include an implementation tool to document each implemented ILSM for the duration of its application. [LS.01.02.01]

1.5 POLICY

A. Mold spores such as Stachybotrys Atra or Chartarum, Aspergillis, Cladosporium, Alternaria, Penicillium and any substances that produce mycotoxins or substances (referred to collectively as "spores") that may negatively affect patients or other building occupants must be properly controlled.

B. Inhalation of these spores and other toxins released by construction activity can cause nosocomial fungal infections in immuno compromised patients.

C. Aspergillis and other spores are known to be prolifically present in construction dust, debris and earthwork excavation dust. Control of construction dust, debris and excavation dust is imperative to help prevent outbreaks of aspergillosis or similar nosocomial fungal infections in immuno-compromised patients.
   1. Aspergillus and other related spores are present in the natural environment and thus are not a risk to healthy construction workers.
   2. Workers are required to attend an orientation session. Refer to Article 1.7.A.

D. Control of airborne contaminants including spores is critical in entire hospital area. Limit dissemination of airborne contaminants produced by construction-related activities, in order to provide protection of immuno-compromised and other patients, staff, diagnostic operations, or sensitive procedures or equipment, from possible undesirable effects of exposure to such contaminants.
   1. Dust in ceilings and construction debris contains fungus spores. Construction activities causing disturbance of existing dust, or creating new dust, or other airborne contaminants, must be conducted in tight enclosures cutting off any flow of particles into patient areas.
   2. Ceilings and walls in Protection areas and other areas in Hospital as indicated on drawings must be secure at all times. If access into the ceiling in occupied areas, is required, procedures as described in this Section shall be followed.

1.6 PERFORMANCE REQUIREMENTS

A. Owner's Representative's Responsibilities.
   1. Determination of the Containment and Protection Areas, as well as the standard of limitations of the Contractor's responsibilities, required for the project.
   2. Statement of Requirements: Description in graphic and written form as required to communicate the above, based on evaluation of the construction area and the impact of the project on patient care.

B. Owner's Responsibilities.
   1. Assist Owner's Representative to determine Containment and Protection Areas.
   2. Perform testing and monitoring as specified.

C. Contractor's Responsibilities.
   1. To comply with applicable codes and referenced controls and to use installation procedures and methods which satisfy applicable code requirements and referenced controls and procedures.
   2. Specific means and methods of achieving and maintaining control of airborne contaminants during construction.
   3. Proposed work plan and procedures for control of airborne contaminants, as noted below.
   4. Plan Certification: Contractor's plan shall be signed accepted in writing by Owner's Representative.
   5. Notification: Notify Owner's Representative a minimum of 48 hours prior to starting construction activity which might be expected to produce excess levels of airborne contaminants in containment area so that additional precautions may be taken.
   6. Provide all dustproof enclosures, warning signs and warning lights to protect the public, the existing building, storage areas and materials or equipment. Enclosures shall be approved by Owner’s Representative.

1.7 PROTECTION

A. If work is being done above a lay-in ceilings and if work must be performed while the space below is occupied, provide temporary work surfaces to provide a safe working platform and protect the ceiling and the spaces below from falling objects and materials. Take all necessary precautions to protect the people and spaces below from injury due to the Contractor's operations.

B. Exercise caution when handling fluids, particularly the heating water, in the interstitial space. When working with fluids provide a water-tight barrier beneath the work area to catch and retain all spillage before it reaches the ceiling below.

C. Notify the Owner's Representative at least 48 hours, or greater if requested by the Owner's Representative, prior to commencing work in ceiling or interstitial spaces above occupied areas to allow at-risk patients to be relocated or protected.

1.8 MEETINGS

A. Progress meetings are specified in Section 013100 - Project Management and Coordination, attend meetings with report on control measures being used to insure compliance and ILSM.

1.9 SYSTEM DESCRIPTION AND PLANNING

A. Because many of the administrative actions require the construction of barriers, the installation of temporary systems, and the training of personnel, ILSM planning will begin prior to the beginning of the Project in coordination with the Contractor.

1.10 OWNER'S ILSM PROGRAM

A. Buildings or areas under construction must maintain escape facilities for construction workers at all times. Means of egress in construction areas must be inspected daily.
   1. Exits shall provide free and unobstructed egress. Personnel shall receive training if alternative exits must be designated.
   2. Maintain free and unobstructed access to emergency departments/services and for emergency forces.
   3. Ensure that fire alarm, detection, and suppression systems are not impaired. Providing temporary, but equivalent, system when any fire system is impaired. Temporary systems must be inspected and tested monthly.
   4. Temporary construction partitions are smoke tight and built of noncombustible or limited combustible material that will not contribute to the development or spread of fire.
   5. Provision of additional fire fighting equipment and use training for personnel.
   6. Prohibition of smoking in or adjacent to all construction areas.
   7. Development and enforcement of storage, housekeeping, and debris removal practices that reduce the flammable and combustible fire load of the building to the lowest level necessary for daily operations.
   8. Conductance of a minimum of two fire drills per shift per quarter.
   9. Regular hazard surveillance of buildings, grounds, and equipment with special attention to excavations, construction areas, construction storage, and field offices.
   10. Training personnel when structural or compartmentation features of fire safety are compromised.
   11. Conductance of organization-wide safety education programs to ensure awareness of any LSC deficiencies, construction hazards, and these ILSM.

1.11 PROJECT ILSM PROCEDURES

A. The Contractor is responsible for the safety of persons and property and compliance with all applicable statutes, rules, regulations, and orders for work under this Contract. Implement the following procedures. Refer to Section 015200.
   1. Material for construction operations shall be brought in and work conducted as to avoid any interference with existing Owner's facilities or normal operations.
   2. Every effort shall be made to limit dust, noise, weather, and fire hazards during construction and a secured dust wall around each space and ceiling area will be constructed where required to ensure health and safety of those spaces not involved during each stage of construction.

B. Refer to Section 011100 - Summary of Work. The Contractor is responsible for developing a safety program and site management program as specified.

1. Provide correction plan for compromised utility services. Example: Medical gases; medical air vacuum; electricity (normal, critical and Life Safety); water; ventilation; steam and any other such utility service.

C. Maintain free and unobstructed access and exits to public ways as specified and as indicated on drawings.
   1. Modify existing walkways and cover walkways to provide access to existing facilities for use by public and Owner's personnel as indicated.
   2. Other exits as indicated.

D. Provide alternate means of exit where indicated and notify Owner of timing of switchover.
   1. Alternate means are to be in place prior to abandonment of existing means of exit. Allow the Owner one week to train staff after creating alternate means of exit and before abandoning existing means of exit.
      a. Alternate means must be approved by Fire Marshall prior to abandonment.
   2. Alternate exit at existing boiler plant (if required).

E. Maintain escape routes for construction workers. Inspect means of egress in construction areas daily and report any discrepancies to the Contractor's Safety Director for correction.
   1. Report problems and measures taken to correct problems to Architect.

F. Provide emergency access for existing ambulance garage (emergency department) (if required).
   1. Phase utility work in roadways and sidewalks as necessary to maintain constant, 24 hour vehicular and pedestrian access to the Ambulance Garage (Emergency Department) Entrances.
   2. Schedule and organize procedures to minimize interference with Owner's operations.
   3. Provide access for firefighters and other emergency personnel.

G. (Provide protection for helipad (Life Flight) as indicated and specified for time duration as indicated.)
   1. Keep all utilities serving the helipad including but not limited to: Power, communications, fuel lines and tanks operational at all times.
   2. Helipad Flight patch contours indicated may not be violated by any permanent or temporary construction equipment, including cranes.
   3. On grade routes used by emergency personnel to transport life-flight patients from the helipad to treatment areas within the hospital may not be compromised.

H. Develop and enforce fire safe means of storage, housekeeping, and debris removal as specified.

I. Ensure that fire alarm, detection, and suppression systems are not impaired. Refer to Section 011100.

1.12 DESCRIPTION OF WORK

A. Refer to Sections 015200 and 017329.
   1. Specified noise control and contaminant control procedures shall be used for the following:
      a. Demolition and removal of gypsum board, plaster, floor tile, ceiling tile, ceramic tile, carpet, and finish materials with porous or rough surfaces.
      b. Demolition of plumbing systems and equipment.
      c. Demolition, removal, or remodeling of existing duct work.
      d. Demolition, removal, or remodeling of light fixtures.
      e. Removal of casework or equipment.
      f. Finish operations which generate contaminants, including sanding, painting, and application of special surface coatings.
      g. Cutting of concrete.
      h.
   2. Other operations which generate contaminants. Smoke is a contaminant under this description. No smoking on hospital/clinic property.

1.13 PRE-EXISTING DAMAGE

A. Upon written request by the Contractor, representatives of the Owner will be available, prior to the commencement of actual work, to survey the work area for pre-existing damage.
   1. Any damage found by this survey will be recorded and will be the Owner's responsibility.

B. If no survey is requested then, upon commencement of the construction work, finished surfaces in and immediately below the construction areas will be presumed to be in a condition similar to surfaces of similar age and service in the remainder of the clinic.
   1. Damage not readily assignable to other causes will be presumed to be caused by the construction work.
      a. This Contractor must repair all damage caused by the construction work.

1.14 IDENTIFICATION

A. Upon award of the Contract, provide the hospital with the names of all employees and subcontractors assigned to the Project.
   1. When the Contractor and subcontractor reports to the site the first time they will be given identification cards for their employees. They are provided by the Security Department free of charge through Facilities Management.
      a. The badge must be worn by all construction personal while working on Hospital/Clinic premises and also (when allowed) can be used for access to provided parking.

B. At final completion of the Project collect all badges and return them to Facilities Management.
   1. Final payment on Project may be delayed until all such identification badges are returned.

1.15 SECURITY

A. The Contractor is responsible for the security of tools, materials, and equipment.

B. The Contractor will be issued keys as necessary for access to the work and storage areas and will be held responsible for their security and return when no longer needed.
   1. Should re-keying become necessary due to the Contractor's actions the cost thereof will be billed to the Contractor.

C. Access to Special Areas: Several areas exist in the hospital/clinic to which access is restricted.
   1. Necessary access may be obtained by contacting the Owner’s Representative in advance who will arrange with the department for access.

D. The Facilities Departments are aware of contractors working within the Hospital/Clinic.
   1. Emergency calls can be made through any of those offices during normal working hours.
      a. During evenings, nights, weekends, and holidays the Security Department will relay emergency messages.

1.16 QUALITY ASSURANCE

A. Preconstruction Meeting: Before any construction on site begins, Contractor and personnel are required to attend a preconstruction orientation session held by Owner's Representative for training and instruction on precautions to be taken.
   1. Training will help personnel to protect immuno-compromised patients and better understand the nature of diseases caused in those patients by air borne fungal spores contaminants.

B. A written report from the Owner’s qualified air balancer will be submitted confirming specified air velocity whenever enclosure is erected or modified in designated Protection Area. Negative air machines shall be connected to emergency power and run continuously in such areas.

C. Notification: 48 hour notification to Owner's Representative of possible construction activity causing airborne contaminants in Protection Area. Schedule work in ceiling spaces above occupied rooms in advance, and on overtime if required.

D. Comply with requirements in Section 013216 - Progress Schedules and Reports.

E. Interim Life Safety Measures (ILSM) program shall comply with 2006 JCAHO Standards.

F. Set up control procedures so that ILSM are adhered to. Contractor's responsibility is to properly notify Architect of anticipated and actual problems complying with ILSM.

1.17 SMOKING

A. Hospital/Clinic is a smoke-free organization with smoking prohibited in all buildings, on grounds, in vehicles or any leased facilities of the hospital/clinic. Inform all employees and subcontractors not to smoke on premises.

1. Do not loiter on the hospital/clinic property or discard smoking litter in a way that reflects on the Hospital/Clinic.

1.18 PROJECT CONDITIONS

A. Place internal combustion equipment where directed by Owner's Representative; obtain approval of Owner before operating. The Owner's Representative works in coordination with Environmental Health and Safety.

B. Obtain approval of Owner before performing operations that generate contaminants that may be drawn into building air intakes. Before beginning excavation or exterior demolition, verify proper installation and operation of building air intake filters with Owner's Representative.

C. Hazardous Exposures: Proper safety precautions are necessary to prevent injury to clinic patients, visitors and employees. Contractors are responsible for eliminating hazardous exposures in work areas where these individuals may have access. Refer to Sections 017329 and 015200.

D. Debris transported from internal demolition should be routed to avoid areas housing sensitive occupants and visitors. Elevator usage and type of transport container should be designated by the Owner's Representative. Employees must follow designated routes within Construction Limits.

E. All through-the-wall connections in patient care areas such as utilities and ducts, shall be sealed appropriately and reviewed by the Owner's Environmental Health specialist.

F. When demolishing dust-producing materials (plaster, gypsum wallboard, ceiling tiles, and the like), the area shall be sprayed with water to minimize dust.

G. Advise Owner's Representative of operations that might generate contaminants. Obtain approval of Owner before beginning such operations.

H. Patient's Safety: Patients' well being is of primary concern to the hospital. It is mandatory for contractors and their employees to share this concern and to take all precautions to prevent any circumstances which would affect any patient's safety or comfort. Each job shall be evaluated to determine potential hazards. Steps should be taken to initiate corrective measures as needed. Refer to Section 011100 for work in occupied areas.

I. Hospital/Clinic is a no smoking facility in accordance with local clean indoor air regulations. Contractor's personnel must comply with this policy everywhere in the hospital (clinic) building including the construction area.

J. Utilities: No services, systems, utilities, or devices serving rooms to be remodeled (containing patients on oxygen or procedure rooms) shall be disconnected, tapped into, disengaged or otherwise disturbed without first coordinating such intended work with the Owner.

1.19 GENERAL CEILING ACCESS DIRECTIVES

A. Notify Owner's representative that work requiring access to the ceilings outside the Containment Area 48 hours before work is to begin.

B. The Contractor shall report to Owner designated office and fill out a ceiling access form. An approved work tag must be attached to the ceiling access enclosure before work will be allowed to proceed.

C. Work Tag:

1. The Contractor shall attach a completed, approved work tag on the ceiling access enclosure before work can proceed.
2. The work tag can be removed only after the work is done and clean up is completed.
3. All tags issued from Owner's representative shall be returned the same day to the office at which it was issued, after work and cleanup for the day has been completed.

D. Spray top of ceiling panels to be removed, and surrounding affected panels, with fine water mist to settle dust prior to removal.

E. Inform Head Nurse or department manager so that patient room doors near ceiling work will be kept closed while the work is in progress.

F. Owner' representative shall be contacted for all ceiling access problems.

1.20 CEILING PROTECTION

A. Protection: If surface below a certain space is the top of the lay-in ceiling and if working above people down below becomes unavoidable, provide temporary work surfaces to provide a safe working platform and protect the ceiling and the spaces below from falling objects and materials. Take all necessary precautions to protect the people and spaces below from injury due to Contractor's operations.

1. When working in ceiling the ceiling tiles shall be replaced on a daily basis, unless further measures are taken such as is listed herein.

B. Should any operation pose a hazard to people working below, review and schedule the operation with the Owner's Representative to minimize the risk.

1.21 ACCESS PANELS

A. Access panels may be kept locked. Whenever work is performed in one of these areas, caution should be used to prevent accidental entry by patients, visitors, or staff members. All access openings shall be closed and latched or locked when unattended.

1.22 SERVICE INTERRUPTIONS

A. Service interruptions involving, connecting into any system, shutting down equipment or de-energizing systems shall be scheduled ahead of time with the Owner's Representative. Many systems are critical and shutdowns during the day may be difficult.

B. Service interruptions involving the disconnection of duct work serving more than one control zone shall be scheduled ahead of time with the Owner's Representative.

1. Provide temporary closures as required to maintain supply system pressure and prevent short-circuiting of air into the return and exhaust systems.

C. Service interruptions involving the disconnection of ductwork serving only one control zone may be done at the contractors convenience.

1. Provide temporary closures as required to maintain supply system pressure and prevent short-circuiting of air into the return and exhaust system.

1.23 FIRE AND SMOKE ENCLOSURES

A. Smoke and firewalls are located throughout the building. Smoke walls have been designed and identified with a one-hour fire rating. They are continuous from outside wall to outside wall and floor slab below to floor slab above.

1. Smoke doors are on automatic door closures installed wherever smoke envelope passes through a corridor or doorway. Firewalls have a two-hour rating.
2. The doors located in a firewall have a positive latching device attached.
3. Refer to Fire Safety in Section 011100.

B. All work on smoke partitions, fire partitions, smoke doors and fire doors must maintain the integrity of the particular unit. All breeches must be patched.

1. Conduit, raceways, air handling ducts or other items that may pass through the partition must be installed to maintain the protection feature of the wall.

C. There are numerous fire and smoke doors throughout the facility. Most of these doors are maintained in an open position by an electrically supervised fire alarm system.
   1. This system will release and close doors whenever an alarm has been initiated. Smoke and fire doors are not to be wedged, blocked or held open in any other way.

1.24 FIRE ALARM SYSTEM

A. The hospital/clinic maintains a sensitive fire alarm system throughout the building. Pull boxes, smoke detectors, flow switches and alarms are included in this system. Whenever any of the devices are activated, the hospital/clinic fire procedures will be implemented.
   1. When an alarm condition exists, the contractor will cease all activities and abide by Hospital/Clinic or fire department instructions until the alarm condition is cleared.

B. If a fire does occur in a construction area, the fire alarm system should be activated. This can be done by activating a pull box in the area.

C. Any activity that produces dust or smoke should be reported to Security in advance so they can temporarily disable the particular alarm to prevent accidental triggering of smoke alarms. This is also true of any activity that might activate a flow alarm.

1.25 PATIENT CONFIDENTIALITY

A. Patient confidentiality must be maintained throughout Work.

B. Conduct orientation session for workers and others who will be onsite. Contractor, subcontractors and any other persons or workers performing services under this contract must be instructed regarding procedures to maintain patient confidentiality.

C. Patient information, files, x-rays, statements made by staff to other staff or patients, anything that identifies a patient, especially patients who are admitted or otherwise present at facility, or information about their medical condition or history must be kept strictly confidential.

D. Take action to comply with medical facilities confidentiality policies. If any patient information is inadvertently exposed during course of Work, assure workers and others on site comply with applicable laws in effect in location of project.

1.26 TESTING

A. Air Samples: Owner will provide baseline particle counts and conduct periodic air sampling of Protection Areas during construction to monitor effectiveness of containment procedures.

B. Air Pressure: Using differential pressure monitors, Contractor shall verify the maintenance of negative air pressure in Containment Area relative to Protection Areas on a continuous basis.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Negative Air Machines: Micro Trap MT-C Negative Air Filtration Units by Micro-Trap, Inc., 38 North Pine Avenue, Maple Shade, New Jersey, 08052, or CRSI 2000 by Control Resource System Incorporated, 670 Marine Drive, Michigan City, Indiana, 46360, 1-800-418-1264 or equal.
   1. Units shall include prefilters, final filters, HEPA filters and filter static pressure gauges.
   2. HEPA filters shall be 99.997% efficient at 0.3 micron particle size.

B. Carpets or Mats: Provide carpets or mats at enclosure entrances, vacuumed or changed as often as necessary to prevent accumulation of dust. At Owner's option, provide adhesive faced contamination control mats with disposable sheets in liu of vacuumed mats, Tacky Mat by Liberty Industries, 133 Commerce Street, East Berlin, Connecticut, 06023, 1-800-828-5656, or equal. All vacuuming outside areas not under negative pressure shall be with a certified HEPA-filtered vacuum.

C. Dust Caps: Block off all existing ventilation ducts within the construction area. Method of capping ducts shall be dust tight and withstand air flow.

D. Temporary Prefabricated Partition for Work in Sterile Corridors: Kontrol Kube, including Adjustable Aluminum Frame #6440; Vinyl Enclosure #6442; Wheel Base Platform #6443; by Fiberlock Technologies, Inc., P.O Box 432, Cambridge, MA. (617) 876-8020. Provide with inspection window and pressure differential porthole. Include Nilfisk 87 cfm vacuum device and manometer.

E. Fire-rated Partitions for Temporary Enclosure: Provide rated gypsum board wall construction meeting requirements of local jurisdiction for use as temporary enclosure.

F. Polyethylene: Fire-resistant, UL-labeled tarpaulins with flame spread rating of 15 or less. Provide translucent, nylon-reinforced laminated polyethylene or polyvinyl chloride, fire-retardant sheet certified as conforming to test results of test method 2 contained in NFPA 701, entitled Standard Method of fire Tests for Flame Propagation of Textiles and Films, unless local jurisdiction accepts test method 1 of NFPA 701 or requires other materials.

1. Portable Enclosures: Whenever work is done outside existing enclosed work areas, provide portable polyethylene enclosure, enclosing ladder and sealing off opening fitted tight to ceiling, or provide prefabricated unit.

2.2 TYPES OF CONTAMINANT DEVICES

A. New Materials: As specified in other Sections, or as recommended by manufacturer of item for intended use.

B. Dust Caps: Block off all existing ventilation ducts within the construction area. Method of capping ducts shall be dust tight and withstand air flow.

C. Temporary Prefabricated Partition for Work in Sterile Corridors: Kontrol Kube, including Adjustable Aluminum Frame #6440; Vinyl Enclosure #6442; Wheel Base Platform #6443; by Fiberlock Technologies, Inc., P.O. Box 432, Cambridge, MA. (617)876-8020.

1. Provide with inspection window and pressure differential porthole. Include Nilfisk 87 cfm vacuum device and manometer.

D. Polyethylene: Polyethylene shall be 6 mil fire retardant type listed by Fire Underwriter's Laboratories, Griffolyn #T55R or Star-Tex of Lakeville, MN, 55044, with Griffolyn fire retardant tape, or equal.

PART 3 - EXECUTION

3.1 INSPECTION

A. Before any demolition or construction begins, a complete field review of all Protection Areas (airborne contaminant control areas) and policies will be conducted and work plan revised if required.

3.2 SCHEDULE OF REQUIREMENTS

A. Baseline levels of dust particles in Protection Areas are as set by the Owner.

B. Owner will monitor particles and other spore counts in vicinity of project in Protection Areas. Such areas are as set by Owner, such as surgery and patient areas. Whenever safe levels are exceeded, Contractor will be notified to correct conditions immediately to avoid fine and work stoppage described.

1. Work shall be stopped on the project whenever a hazardous airborne contaminant control deficiency exists in occupied areas.
2. Take immediate action to correct all deficiencies.

C. Before any demolition or construction begins in occupied areas, a complete field review of all airborne contaminant control policies will be conducted. A check list will be filled out and signed by the Project Inspector, Airborne Contaminant Control Nurse and the Contractor confirming that the area is ready for work to begin.

3.3 CONTAINMENT

A. Requirement: Maintain levels of airborne contaminants within limits as defined.

B. Negative air machines as described herein shall provide air flow into construction area at not less than 100 fpm at enclosure entrances with all doors fully open.

C. Air Quality Contaminant Control: Fasten windows shut, ventilate barricaded construction areas by use of negative air machines exhausted through filters to the outside of building, or to Owner designated areas inside the building.

1. Provide a minimum of 2 negative air machines. Vent negative air machines to outside by removing existing windows and replacing them with vented sheet metal panels having fittings for exhaust holes. Provide added local exhaust during welding.
2. Change filters as frequently as necessary for duration of the project to maintain a negative pressure of 0.01 - 0.05 inches of water gauge in the Containment Area.
3. Negative air shall be DOP tested and certified prior to being placed in service, after a HEPA filter change, and when dropped or damaged or moved extensively.

3.4 PROTECTION

A. General: Provide and maintain all barriers, filters, ventilation, and cleaning and removal procedures as detailed in work plan.

B. Sealing of Openings: Use duct-tape or other impenetrable sealant to seal barrier wall seams, cracks around window and door frames, exhaust system ductwork, pipes, joints and ducts.

C. Dust Control: Take appropriate steps throughout the term of the Project to prevent airborne dust due to work under this contract. No chemical palliatives shall be used without permission of the Owner's Representative.

1. Hard surface floors in work area, adjacent hallways and passage areas require vacuuming with HEPA-filtered vacuum cleaners and frequent wet-mopping during demolition and construction; protect adjacent carpeted areas with plastic and plywood and vacuum with HEPA-filtered vacuum cleaners.
2. Vacuum walk-off mats daily as a minimum.
3. Execute work by methods to minimize raising dust from construction operations. Provide positive means to prevent airborne dust from dispersing into atmosphere.

D. Airborne contaminant enclosures or infection control enclosures shall be dust-tight. Any dust tracked outside of enclosure shall be removed immediately, as specified. All cleaning outside enclosure should be by HEPA-filtered vacuum or other approved method.

E. The following procedure shall be implemented when construction personnel are required to pass through a Protected Area to enter the Containment Area:

1. Provide air lock entry vestibules in dustproof enclosures when shown on drawings or required by Owner’s Representative.
2. Personnel shall wear protective clothing as required and provided by the Owner’s Representative while passing through the Protected Area.
3. Protective clothing shall be removed in the air lock vestibule prior to entering the Containment Area.
4. When exiting the Containment Area, the personnel shall re-don the protective clothing before reentering the Protected Area.

F. Contractor Personnel: Instruct personnel to refrain from tracking dust into adjacent hospital areas or opening windows or doors that would allow airborne contaminants into adjacent hospital areas.

G. Exterior Work: Direct exhaust from equipment away from building air intakes; assure that filters on building air intakes are operational and protected from excessive amounts of airborne contaminants.

H. Any ceiling access panels opened for investigation beyond sealed areas shall be replaced immediately when unattended.

1. Whenever access panels are opened in occupied areas, for work above ceilings, provide portable enclosure enclosing ladder and sealing off opening, fitted tight to ceiling as specified.

I. Provide thorough cleaning of existing surfaces which become exposed to dust, before start of Owner's room occupancy, as described in Use of Premises – Clean Conditions in Section 011100.

J. Removal of construction barriers and ceiling protection shall be done carefully, possibly outside of normal work hours. Vacuum and clean all surfaces free of dust after the removal.

K. All vacuuming outside areas not under negative pressure shall be with a certified, Owner approved, HEPA-filtered vacuum.

3.5 AIRBORNE CONTAMINANT CONTROL ENCLOSURES AND BARRIERS

A. Install dustproof enclosures for work as indicated and when required to protect areas occupied by the Owner from dust, debris and damage.
   1. Construction must be conducted in tight enclosures cutting off any flow of dust particles into patient areas.

B. It is the Contractor's responsibility to determine when a dust proof enclosure is required to protect any adjoining area; however, provide a dustproof enclosure where indicated and whenever requested by the Owner.

C. Airborne Contaminant Control General Requirements: Floor to structure, air-tight enclosures, drywall barriers, using tape and foam padding.
   1. Traffic between Containment Areas and open areas shall be kept to a minimum. Keep door to such areas closed at all times. Transport materials and refuse into an area from an external site without violating patient care areas by transporting in covered containers.
   2. Provide negative pressure in construction area as specified herein.
   3. Provide adequate forced ventilation of enclosed areas to cure installed materials, to prevent excessive humidity, and to prevent hazardous accumulations of dust, fumes, vapors, or gases.

D. Dustproof Enclosures: Full height, noncombustible construction, with minimum 1/2 inch gypsum board both sides with 3-1/2 inch R-11 insulation batts to reduce noise. Use 3- inch wide duct tape to tightly seal top, bottom, and all seams, to prevent spread of dust to occupied areas, including above ceiling.
   1. Enclosure Doors: 4'-0" minimum width, unless shown otherwise, solid core wood with metal frame and hardware, including closer, tightly weatherstripped to prevent flow of dust. Locate as directed and swing into construction area. Keep enclosures locked outside of working hours. Three keys for emergency access shall be furnished to the Owner.
   2. Obtain Owner's approval of exact location and details of enclosure construction. Materials for enclosure shall be precut in unoccupied areas. No explosive or pneumatic driven fasteners allowed. Provide entrance vestibules as detailed. Provide carpets inside vestibule and inside enclosures at door to vestibule, and keep vacuumed daily.

E. Enclosure outside of work area (including spaces above furred ceilings): Whenever work is necessary outside of the construction enclosures, the space where work is being done, including ladders, shall be contained within a full height portable enclosure as specified herein. Contractor option: may use prefabricated unit specified herein.
   1. Work performed outside the construction enclosure shown on drawings, including all work in corridors and lobbies, shall be performed outside of normal working hours and shall be scheduled in advance with Owner except where specified otherwise.
   2. At no time shall any construction equipment or material be stored outside the construction enclosure.
   3. Dust tracked outside of construction area shall be cleaned up immediately. Contractor shall have the necessary manpower and equipment (dust and wet mops, brooms, buckets and clean wiping rags) to keep adjacent occupied areas clean at all times.
   4. Hospital Ceiling Access Procedures: Comply with hospital's access and notification policy as specified in this Section and note information on associated fines for lack of compliance.

F. Power and Lighting: Provide sufficient temporary lighting and power ventilating equipment to ensure proper workmanship and safety everywhere.

G. Access Provisions: Provide ramps, stairs, ladders and similar temporary access elements as reasonably required to perform the work and facilitate its inspection during installation. Refer to Section 011419 for access to site.

H. Where work occurs in occupied areas, the Contractor is responsible to provide access openings through existing plaster, or gypsum board walls, and acoustical ceilings and to restore walls and ceilings to original condition after work is complete and to insure dust control within access areas.
   1. Provide temporary plywood panels anchored to existing steel ceiling support grid for support of workers crawling above ceiling. Panel thickness shall suit spans between existing steel support.
   2. Work provided outside the construction enclosures shown on drawings, including all work in corridors in occupied areas, shall be performed outside of normal working hours as described in Section 011419 – Use of Site.

I. Remodeling work in certain rooms which serve other rooms, shall be coordinated and phased in with the phasing of the remodeled rooms if required, so that at no time are both rooms simultaneously inoperative. Any downtime necessitated by the remodeling work shall be fully discussed and coordinated with the Owner's representative in advance of the shutdown.
   1. Dust: Generation of significant quantities of airborne dust will not be tolerated. Clean the work area prior to starting work as necessary to minimize existing dust which may become airborne during construction. Provide drop cloths and dust partitions as necessary to contain dust and debris generated by the work.
   2. Demolition material and dust and dirt shall be removed in tightly sealed, covered, rubber tired plastic dump carts. Containers shall be fitted with clean polyethylene covers, completely sealed at perimeter by wire tying or taping. Before leaving area all containers shall be wiped clean to prevent tracking of dust. Place rugs inside barrier entrance, keep them clean or changed daily. Provide debris chutes if required as specified in Section 017329 - Cutting and Patching and Section 024119 – Selective Demolition..
   3. Hot Processes: Hot processes, particularly welding and flame cutting, which generate significant quantities of smoke pose a special concern. These processes have the potential of setting off the building fire alarm system which automatically calls the Fire Department as well as disrupting the Owner's operations. Therefore, all work involving hot processes shall be scheduled with the Owner's system deactivated. Refer to requirements in Section 013100 – Project Management and Coordination.
   4. Portable vinyl tunnel or a polyethylene enclosure shall be used for a single ceiling access. The enclosures opening shall have a 3 foot overlap of plastic to decrease risk of airborne dust.

J. The portable vinyl tunnel if used, or portable enclosure as specified shall remain in place until the ceiling is secured (all accesses closed).
   1. If the access is larger than the vinyl tunnel, a portable polyethylene enclosure also enclosing the ladder shall be used. The enclosures opening shall have a 2 foot overlap of plastic to decrease risk of airborne dust.
   2. Polyethylene enclosures/barriers must be held in place to walls and floor with the use of tape. The seam on the ceiling shall be reinforced with a frame and flat head screws. All polyethylene shall be fire retardant type.
   3. If the Contractor needs to crawl about pipes, ducts, or other building infrastructure to investigate a condition, use Additional Procedures, i.e., put on a mask, disposable white coverall and disposable shoe covers before going into the access. Afterwards, strip off the coverall, and shoe covers carefully, turning the coverall "inside-out", and deposit the mask, coverall, and shoe covers into a plastic trash bag inside the enclosure. This plastic trash bag shall be secured (tied off) and be discarded as directed by Owner’s Representative and may not be discarded within any "patient care area".
   4. When the Contractor leaves the work site, the access, especially at ceiling, shall either be completely closed or protected by an appropriate barrier.
   5. In patient care areas, the apparatus (tunnel or enclosure) shall be dismantled, and access, (ceiling panels), or remodeling of access completed at the end of each day.
   6. Thorough cleaning of surfaces which become exposed to dust shall be accomplished before leaving the job site. The cleaning can be accomplished by the use of either a HEPA filtered vacuum cleaner or damp mop.

K. Comply with applicable requirements specified in the Mechanical and Electrical Divisions.

3.6 ENFORCEMENT AND FINES

A. Process: Failure to maintain containment areas can result in issuance of written warning; if situation is not corrected within eight (8) hours of receipt of warning, Owner will have cause to stop the work as provided in Article 2.3 of the General Conditions.
   1. Failure of Contractor to correct deficiencies in containment will result in corrective action taken by the Owner and deducting all cost from the Contractor.
   2. Ceiling Access: Each breach of ceiling access policy will cost violators $500.00 for each occurrence.

B. The following will be performed by Owner's representative:
   1. Periodic Rounds - a photograph will be taken to document each violation.
   2. Contractor/Department information will be extracted from the ceiling work tag.
   3. A record of all violations of required ceiling access procedures will be maintained, whether in occupied area or not.

3.7 INSTALLATION - GENERAL

A. Provide waste receptacles in work area for disposal of food and other waste.

B. Advise the Owner of operations that might affect persons above, below, or in adjacent rooms by generation of contaminants or noise. Proceed only with approval of Owner's Representative.
   1. Institute pest control procedures (if required) where directed by Owner.
   2. Owner may do air quality monitoring during both interior and exterior Work.
      a. If counts are too high the work will be shut down and sealing of opening will occur.
      b. Monitoring will occur when duct tie-ins are made to return air duct, before, during and after each tie in is made.
      c. Owner will also check air quality with particle counter after balancing of HVAC systems.
      d. Smoke stick monitoring may occur to assure clean to dirty airflow in critical patient use areas and rooms.

3.8 MOVING AND STORAGE OF MATERIALS (REFER ALSO TO SECTION 015200)

A. All construction materials and equipment shall enter the building in accordance with the Hospital/Clinic loading/unloading plan and may be transported through the corridors to the work site.
   1. Possible points of access to the spaces through the ceilings will be considered so long as their use does not block fire exits or interrupt the Owner's operations.

B. Do not leave materials or equipment in the corridors or stairs as this will block the necessary exit passages.

C. Any materials or equipment to be supplied by outside vendors but installed by the Contractor, or the subcontractors, shall be delivered to the loading dock by others and transported from the dock to the work site by the contractor working under this contract.

3.9 EXTERIOR WORK

A. Maintain the smoke and fire integrity of the building at all times. Do not block doors in smoke or fire rated partitions open except as necessary to move materials.
   1. Check to be sure that all doors are closed prior to leaving the work area.
      a. Seal outside of windows near exterior work areas to prevent infiltration.
      b. Direct exhaust away from building and building air intakes.
   2. Building demolition shall not occur unless building air intake filters are properly installed and operational.

B. Openings may be required for movement of material in some spaces. Close any such openings with temporary closures when not actually being used.
   1. Promptly patch any other openings created in the smoke and fire rated partitions.

C. Prior to completion of the project, permanently repair all openings created in any fire or smoke barrier in a manner satisfactory to the Architect/Owner.

D. Prior to completion of the project, permanently repair all damage to the fire and heat resistive coatings covering the structural members of the building.
   1. This repair work shall be accomplished in a manner satisfactory to the Architect/Owner.

3.10 INTERIOR WORK

A. Enclose work that involves demolition of walls, floors, or ceilings with sheathing on the construction side of the framing.
   1. Enclosures shall be continuous from floor to ceiling and wall to wall, and shall extend from the upper surface of the ceiling to the deck above.
      a. Seal joints and perimeter with caulk or duct tape.
   2. Sealing doors and other openings with duct tape at head, jamb, and sill may contain contaminants from work that occurs within a single room.
   3. All air should flow from clean area to dirty area. Control should be implemented utilizing exhaust building ventilation or window exhaust.
   4. Exhaust ductwork may need to be sealed to prevent infiltration of airborne contaminants into recirculation system.
      a. Work above ceilings may be contained with temporary enclosures with plastic sheet where approved by the Owner. Seal seams and perimeter with duct tape; repair breaks immediately.

B. Windows within construction zone should not be opened during construction, unless with a fan for exhaust ventilation.
   1. After hours all windows should be closed or the fan should run constantly until seals occur which will prevent outside air infiltration.
   2. No shut down of ventilation systems shall occur unless notification in writing has been submitted to Owner.

C. To maintain clean air, place, operate, and maintain HEPA filtered area air scrubbers as approved by the Department of Health and Safety.

D. Damp mop hard surface floors in work area daily to minimize tracking of contaminants from work area.
   1. In carpeted areas, protect carpet with plastic and plywood; provide hard surfaced area at entrances for daily damp mopping.

3.11 INTERFERENCE WITH THE OWNER'S OPERATIONS

A. Throughout the construction process the Owner's personnel, clients and equipment will be occupying the spaces nearby or below the work areas. The Owner intends to conduct normal operations on its normal business schedule.
   1. Some disruption due to noise and dust is expected; however, arrange the construction work to minimize its effect on the Owner's operations.
   2. The following areas are of particular concern.
      a. Noise: Some noise is expected. However, operation requiring prolonged periods of noise which continually interfere with normal conversation, telephone usage and similar activities will have to be limited to a small portion of the day.
      b. Dust: Generation of significant quantities of airborne dust will not be tolerated. Clean the work area prior to starting work as necessary to minimize existing dust which may become airborne during construction. Provide drop cloths and dust partitions as necessary to contain dust and debris generated by the work. Refer to Section 015200.
      c. Hot Processes: Hot processes, particularly welding and flame cutting, which generate significant quantities of smoke, pose a special concern. These processes have the potential of setting off the building fire alarm system that automatically calls the Fire Department as well as disrupting the Owner's operations. Therefore, all work involving hot processes must be scheduled with the Owner's system deactivated.

3.12 CLEANUP

A. At the end of each workday remove all scrap material and construction debris from the site. It is Contractor's responsibility to provide a dumpster or container in an approved location and keep dumpster area neat, clean and have unit emptied when necessary. Do not use clinic's waste containers/compactors for any construction/demolition debris. Refer to Section 017700.

END OF SECTION

SECTION 014100
HCAI ADMINISTRATIVE REQUIREMENTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for construction as required by the California Administrative Code.

B. Unless otherwise specified, specific references to codes, regulations, standards, manufacturers' instructions, or requirements of regulatory agencies, when used to specify requirements for materials or design elements, shall mean the latest edition of each in effect at the date of application for permit.

1.2 REFERENCES AND DEFINITIONS

A. 2019 California Building Standards Code, California Administrative Code (CAC), Title 24, Part 1, Chapter 7, Safety Standards for Heath Facilities.

B. California Department of Health Care Access and Information (HCAI).

C. HCAI Code Application Notice (CAN).

1.3 DEFERRED SUBMITTALS

A. Deferred submittals shall be in accordance with CAC, Section 7-126.

B. Architect, Contractor, and HCAI Representatives shall meet to review Contractor-provided submittal schedule for HCAI's concurrence with schedule.

C. Shop Drawings for Specific Deferred Approval Items:
   1. Contractor shall submit deferred approval items to Architect for review and comment.
      a. Shop Drawings for deferred approval items shall be prepared, signed, and sealed by an engineer licensed to practice in the State of California.
   2. Contractor shall revise and resubmit as required and incorporate code-required modifications into submittal at no additional cost or time.
   3. Architect will review Contractor's incorporation of code-required changes.
   4. Architect will, upon acceptance of shop drawings, submit drawings to HCAI.
   5. Contractor shall allow a minimum of 60 days for review of deferred approvals by HCAI.

D. Fabrication and installation of deferred approval items shall not start until approved by HCAI.

1.4 NOTICE OF START OF CONSTRUCTION

A. HCAI shall be notified by the governing board or authority of the health facility on start of construction in accordance with CAC, Section 7-137.

1.5 ADMINISTRATION OF CONSTRUCTION

A. Administration of construction shall be in accordance with CAC, Section 7-141.

1.6 VERIFIED COMPLIANCE REPORTS

A. Contractor shall submit verified reports in accordance with CAC, Section 7-143 and Section 7-151.
   1. Submission will be required from Architect, Contractor/Owner, Structural Engineer, Mechanical Engineer, Electrical Engineer, and Project Representative (Inspector).
   2. Laboratory and test reports will be required from Testing Laboratory and Testing Agency.

1.7 CHANGES TO THE APPROVED WORK

A. Changes to the approved work shall be in accordance with CAC, Section 7-153 and CAN 1-7-153.
   1. Changes or alterations of the approved construction documents shall be made by means of amended construction documents.
   2. Only changes that materially alter the Work, as defined in CAN 1-7-153, shall be submitted to HCAI for review and approval as amended construction documents.
   3. Documentation of Changes: Architect or Engineer in responsible charge shall maintain a log of all changes to the work of construction. The log shall be maintained on the project site as part of Inspector's field records.

1.8 FINAL APPROVAL OF THE WORK

A. Procedures for final approval of the Work shall be in accordance with CAC, Section 7-155.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

SECTION 014500
QUALITY REQUIREMENTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Procedures to measure and report the quality and performance of construction.
   2. Administrative and procedural requirements for quality assurance and quality control.

1.2 DEFINITIONS

A. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.

B. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work to evaluate that actual products incorporated into the Work and completed construction comply with requirements. Services do not include contract enforcement activities performed by Architect or Construction Manager.

C. Preconstruction Testing: Tests and inspections performed specifically for Project before products and materials are incorporated into the Work, to verify performance or compliance with specified criteria.

D. Product Testing: Tests and inspections that are performed by an NRTL, an NVLAP, or a testing agency qualified to conduct product testing and acceptable to authorities having jurisdiction, to establish product performance and compliance with specified requirements.

E. Source Quality-Control Testing: Tests and inspections that are performed at the source, e.g., plant, mill, factory, or shop.

F. Field Quality-Control Testing: Tests and inspections that are performed on-site for installation of the Work and for completed Work.

G. Testing Agency: An entity engaged to perform specific tests, inspections, or both. Testing laboratory shall mean the same as testing agency.

H. Installer/Applicator/Erector: Contractor or another entity engaged by Contractor as an employee, Subcontractor, or Sub-subcontractor, to perform a particular construction operation, including installation, erection, application, and similar operations.
   1. Use of trade-specific terminology in referring to a trade or entity does not require that certain construction activities be performed by accredited or unionized individuals, or that requirements specified apply exclusively to specific trade(s).

I. Experienced: When used with an entity or individual, "experienced" means having successfully completed a minimum of five previous projects similar in nature, size, and extent to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.

1.3 INFORMATIONAL SUBMITTALS

A. Qualification Data : For Contractor's quality-control personnel.

B. Testing Agency Qualifications: For testing agencies specified in "Quality Assurance" Article to demonstrate their capabilities and experience. Include proof of qualifications in the form of a recent report on the inspection of the testing agency by a recognized authority.

C. Schedule of Tests and Inspections: Prepare in tabular form and include the following:
   1. Specification Section number and title.
   2. Entity responsible for performing tests and inspections.
   3. Description of test and inspection.

4. Identification of applicable standards.
5. Identification of test and inspection methods.
6. Number of tests and inspections required.
7. Time schedule or time span for tests and inspections.
8. Requirements for obtaining samples.
9. Unique characteristics of each quality-control service.

1.4 QUALITY ASSURANCE

A. Comply with requirements of ASTM E329 and ASTM D3740.

B. Laboratory shall maintain a full-time registered Engineer on staff to review services.

C. Laboratory authorized to operate in State in which Project is located.

D. Testing equipment shall be calibrated at reasonable intervals with devices of an accuracy traceable to either NBS Standards or accepted values of natural physical constants.

E. QUALIFICATIONS: "Approved independent testing laboratory" shall mean an independent testing agency acceptable to the Owner and the Architect and possessing the professional qualifications and equipment to perform the specified tests and to evaluate and report the results.

PART 2 - PRODUCTS

Not Used.

PART 3 - EXECUTION

3.1 SPECIALTESTS AND INSPECTIONS

A. Unless otherwise provided in the specifications, provide all materials, samples, mock-ups or assemblies for all tests specified in various sections of specifications, or as directed by the Architect, and pay shipping costs of such samples to laboratory or other testing location and facility.

1. Unless specified otherwise, all tests shall be made by an approved independent testing laboratory and reports provided to Architect.

B. Tests shall be provided and accomplished in accordance with the standard used as the reference for the particular material or product, unless other test methods or criteria are specified.

C. In the absence of a referenced standard, tests shall be accomplished in accordance with applicable ASTM Standards or Test Methods, current at the date of the Contract Documents.

3.2 PAYMENT FOR TESTS

A. Except for the types of tests specified as being paid for by the Owner, the cost of other tests shall be paid by the Contractor. Tests to be paid for by the Owner will be paid directly to the testing laboratory by the Owner.

B. The Owner will not pay for tests to determine if a proposed material will initially meet the specified requirements, which will include but not be limited to, analysis of paving aggregate, paving mix designs, and similar tests.

C. In general, it is intended the Owner will pay for those field tests to determine the quality of materials and quality of installation at site. The following is the list of the type of tests the Owner will pay for, where tests are specified or later determined as necessary:

1. concrete compressive strength
2. concrete air entrainment
3. soil compaction
4. structural steel field welds
5. structural steel bolting
6. welding or brazing of piping
7. paving samples

3.3 TESTS TO DEMONSTRATE QUALIFICATION

A. In addition to tests specified, should the Contractor propose a product, material, method or assembly that is of unknown or questionable quality to the Architect, the Architect may require and order suitable tests to establish a basis for acceptance or rejection.

1. Such tests will be paid for by the Contractor, or by the Subcontractor requesting approval. "Standard" test reports on "similar" material will not be acceptable.

B. The Owner and Architect reserve the right to require certification or other proof that the material, assembly, equipment, system or other product furnished or proposed to be furnished, for this Project is in compliance with any test or standard called for.

1. The certificate shall be signed by a representative of the independent testing laboratory.

C. Any tests required to qualify the Contractor or any workmen for any phase of the work, and any test of a method, system or equipment that may be required by specification or law to qualify the item for use, shall be made or taken without additional reimbursement.

D. If exploratory work is required to determine the cause of defects, the cost of such work shall be borne by the Contractor responsible for such work if the work is found, in the judgement of the Architect to be defective.

1. If the Contractor responsible for the work is adjudged by the Architect to be not at fault, exploratory testing will be paid by the Owner.

3.4 INSPECTIONS

A. Should the specifications, Architect's instruction, laws, ordinances or any public authority require any work to be inspected or approved, give timely notice of its readiness for inspection and a reasonable date fixed for such inspection. If any work requiring inspection should be covered up without approval or consent of the approving agency, it must be uncovered for examination at Contractor's expense.

3.5 CERTIFICATES

A. Except for test reports provided and signed by approved independent testing laboratories, all certificates required by the specification shall be signed by an authorized official of the firm providing the certificate, with the signature notarized, when such certificates by the producer are acceptable to the Architect.

3.6 RETEST RESPONSIBILITY

A. Where results of required inspections, tests or similar prove unsatisfactory and do not indicate compliance of related work with requirements of the contract documents, then retests are responsibility of Contractor, regardless of whether original test was Contractor's responsibility.

B. Retesting of work revised or replaced by Contractor is Contractor's responsibility, where required tests were performed on original work.

3.7 REPAIR AND PROTECTION

A. General: On completion of testing, inspecting, sample taking, and similar services, repair damaged construction and restore substrates and finishes.

1. Provide materials and comply with installation requirements specified in other Specification Sections or matching existing substrates and finishes. Restore patched areas and extend restoration into adjoining areas with durable seams that are as invisible as possible. Comply with the Contract Document requirements for cutting and patching in Section 017300 "Execution."

B. Protect construction exposed by or for quality-control service activities.

C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

END OF SECTION

SECTION 015000
TEMPORARY FACILITIES & CONTROLS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities.

1.2 USE CHARGES

A. General: Installation, removal, and use charges for temporary facilities shall be included in the Contract Sum unless otherwise indicated. Allow other entities engaged in the Project to use temporary services and facilities without cost, including, but not limited to**,[Owner's construction forces,]** Architect,**[occupants of Project,]** testing agencies, and authorities having jurisdiction.

B. Sewer Service: **[Pay] [Owner will pay]** sewer-service use charges for sewer usage by all entities for construction operations.

C. Water Service: **[Pay] [Owner will pay]** water-service use charges for water used by all entities for construction operations.

D. Electric Power Service: **[Pay] [Owner will pay]** electric-power-service use charges for electricity used by all entities for construction operations.

E. Water and Sewer Service from Existing System: Water from Owner's existing water system is available for use **[with metering] [without metering and without payment of use charges]**. Provide connections and extensions of services **[and metering]** as required for construction operations.

F. Electric Power Service from Existing System: Electric power from Owner's existing system is available for use **[with metering] [without metering and without payment of use charges]**. Provide connections and extensions of services **[and metering]** as required for construction operations.

1.3 INFORMATIONAL SUBMITTALS

A. Site Utilization Plan: Show temporary facilities, temporary utility lines and connections, staging areas, construction site entrances, vehicle circulation, and parking areas for construction personnel.

B. Fire-Safety Program: Show compliance with requirements of NFPA 241 and authorities having jurisdiction. Indicate Contractor personnel responsible for management of fire-prevention program.

C. Moisture- and Mold-Protection Plan: Describe procedures and controls for protecting materials and construction from water absorption and damage and mold. Describe delivery, handling, storage, installation, and protection provisions for materials subject to water absorption or water damage.
   1. Indicate procedures for discarding water-damaged materials, protocols for mitigating water intrusion into completed Work, and requirements for replacing water-damaged Work.
   2. Indicate sequencing of work that requires water, such as sprayed fire-resistive materials, plastering, and terrazzo grinding, and describe plans for dealing with water from these operations. Show procedures for verifying that wet construction has dried sufficiently to permit installation of finish materials.
   3. Indicate methods to be used to avoid trapping water in finished work.

D. Dust- and HVAC-Control Plan: Submit coordination drawing and narrative that indicates the dust- and HVAC-control measures proposed for use, proposed locations, and proposed time frame for their operation. Identify further options if proposed measures are later determined to be inadequate. Include the following:
   1. Locations of dust-control partitions at each phase of work.
   2. HVAC system isolation schematic drawing.

3. Location of proposed air-filtration system discharge.
4. Other dust-control measures.

1.4 QUALITY ASSURANCE

A. Pre-Construction Conference: Special project procedures and controls, and coordination of Work at Owner-occupied spaces will be included on the agenda for an on-site pre-construction conference, scheduled and conducted by Owner or Architect. Refer to Section 013100 - Project Management and Coordination.

B. Regulations: Comply with industry standards and applicable laws and regulations of authorities having jurisdiction including, but not limited to, the following:
   1. Building code requirements.
   2. Health and safety regulations.
   3. Utility company regulations.
   4. Police, fire department and rescue squad rules.
   5. Environmental protection regulations.

C. Trade Jurisdictions: Assigned responsibilities for installation and operation of temporary utilities are not intended to interfere with normal application of trade regulations and union jurisdictions.

D. Standards:
   1. NFPA 241 "Standard for Safeguarding Construction, Alterations, and Demolition Operations,"
   2. ANSI A10 Series standards for "Safety Requirements for Construction and Demolition,"
   3. NECA Electrical Design Library "Temporary Electrical Facilities."

E. Electrical Service: Comply with NEMA, NECA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.

F. Tests and Inspections: Arrange for authorities having jurisdiction to inspect and test each temporary utility before use. Obtain required certifications and permits.

G. Accessible Temporary Egress: Comply with applicable provisions in the United States Access Board's ADA-ABA Accessibility Guidelines and CBC.

1.5 PROJECT CONDITIONS

A. Temporary Utilities: Prepare a schedule indicating dates for implementation and termination of each temporary utility. At earliest possible time when acceptable to Owner, change over from use of temporary service to use of permanent service.
   1. Temporary Use of Permanent Facilities: Assume responsibility for operation, maintenance, and protection of permanent facility during use as a construction facility prior to Owner’s acceptance, regardless of previously assigned responsibilities.

B. Condition of Use: Keep temporary services clean and neat in appearance. Operate in a safe and efficient manner. Relocate temporary services as the Work progresses. Take necessary fire-prevention measures. Do not allow hazardous, dangerous, or unsanitary conditions, or public nuisances to develop or persist on site.

1.6 WORK AT OWNER-OCCUPIED SPACES

A. Throughout the construction process the Owner's personnel and visitors will occupy spaces within and nearby construction areas. The Owner recognizes that some disruption to normal operations will occur as scheduled and coordinated with Contractor in advance of activities.
   1. Owner intends to remain open to the public and to conduct normal operations during normal hours of operation.
   2. Cooperate with Owner during construction operations to minimize conflicts and to facilitate Owner usage.
   3. Perform work in occupied areas in a manner and at such time as will not significantly interfere with, hamper or inconvenience Owner's program or functions.

4. After Owner's occupancy (full or partial) of Project or portion thereof, work remaining to be accomplished in the occupied spaces shall be done in cooperation with, and approval by, Owner and scheduled in advance with Owner.

B. Dust: Obtain approval of Owner before performing operations that generate dust and other contaminants that may be drawn into building air intakes.
   1. Prevent dust, fumes, and odors from entering occupied areas.
   2. Before beginning excavation or exterior demolition, verify proper installation and operation of building air intake filters with Owner's Representative.
   3. Prior to start of work, clean work area as necessary to minimize dust which may become airborne.
   4. Provide drop cloths and dust partitions as necessary to contain dust and debris generated by the work.

C. Construction Noise Control: Limit duration of operations that create high levels of noise. Coordinate and schedule such work to minimize disruption to Owner's operations.
   1. Attempt to implement the following construction noise mitigation measures on this Project:
      a. Equip internal combustion engine-driven construction equipment with good condition best available mufflers. Use quiet electric-powered compressors and generators.
      b. Use welded rather than T.C. bolted steel connections when possible to minimize use of impact wrenches.
      c. Erect barriers around noise generating operations.
      d. Turn off engines and compressors when not in operation; no idling.
      e. Limit noise generating construction activities to times between **[7:30 am and 3:30 pm].**
      f. Define truck routes to confine noisy trucks to streets that currently have the heaviest traffic. Develop a truck staging area away from acoustically sensitive areas.
      g. Pre-cut metal decks and metal studs off site to minimize on-site sawing.
      h. Avoid hammer drilling; use coring bits, instead. Avoid using power-actuated fasteners; use concrete screws, instead. Avoid sand blasting.
      i. Avoid sheet metal debris chutes; use plastic chutes, instead.
   2. Contractor is responsible for site supervision of potential sources of noise (e.g., material delivery, shouting, debris box pick-up and delivery) for all trades. Maintain awareness among trades of noise sensitivity of Project

D. Heat Generating Processes: Welding and other processes that generate significant quantities of smoke have the potential to activate the existing fire alarm system, which automatically calls the Fire Department and may disrupt Owner's operations. Coordinate with Owner.

1.7 ENVIRONMENTAL CONTROLS

A. Temperature and Humidity Control: Maintain steady ambient temperature and relative humidity levels. Rapid fluctuation in temperature or humidity may be harmful to installed and stored materials and is not allowed.
   1. Temperature: Maintain constant temperature of 70 degrees F.
   2. Relative Humidity: Maintain relative humidity 30-50 percent.
      a. Allowable Fluctuation: Not to exceed 5 percent fluctuation over any portion of a 7-day period and not to exceed 10 percent fluctuation over any portion of a 28-day period.
   3. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour basis to avoid harmful effects of rapidly fluctuating ambient levels.

PART 2 - PRODUCTS

2.1 MATERIALS

A. General: Provide new materials.
   1. Upon written request to the Owner, used materials may be used if in the opinion of the Owner they are in serviceable condition and if accepted by the Owner.

B. Lumber and Plywood: Comply with Section 061000 - Rough Carpentry, for requirements.

1. UL labeled, lumber and plywood for framing, sheathing and siding.
2. Exterior type, Grade BB high density concrete form overlay plywood for signs and directory boards.

C. Paint: Comply with Section 099000 – Painting, for requirements.

D. Chain-Link Fencing: Minimum 2-inch, 0.148-inch-thick, galvanized-steel, chain-link fabric fencing; minimum 6 feet high with galvanized-steel pipe posts; minimum 2-3/8-inch-OD line posts and 2-7/8-inch-OD corner and pull posts, with 1-5/8-inch-OD top rails.

E. Portable Chain-Link Fencing: Minimum 2-inch, 0.148-inch-thick, galvanized-steel, chain-link fabric fencing; minimum 6 feet high with galvanized-steel pipe posts; minimum 2-3/8-inch-OD line posts and 2-7/8-inch-OD corner and pull posts, with 1-5/8-inch-OD top and bottom rails. Provide concrete bases for supporting posts.

F. Fencing Windscreen Privacy Screen: Polyester fabric scrim with grommets for attachment to chain-link fence, sized to height of fence, in color selected by Architect from manufacturer's standard colors.

G. Fire-rated Partitions for Temporary Enclosure: Provide rated gypsum board wall construction meeting requirements of local jurisdiction for use as temporary enclosure.

H. Tarpaulins: Waterproof, fire-resistant, UL-labeled tarpaulins with flame spread rating of 15 or less. Provide translucent, nylon-reinforced laminated polyethylene or polyvinyl chloride, fire-retardant tarpaulins certified as conforming to the test results of test method 2 contained in NFPA 701, entitled Standard Method of fire Tests for Flame Propagation of Textiles and Films unless local jurisdiction accepts test method 1 of NFPA 701 or requires other materials.

I. Dust-Control Adhesive-Surface Walk-Off Mats: Provide mats, minimum 36 by 60 inches.

2.2 TEMPORARY FACILITIES

A. Field Offices: Prefabricated or mobile units with serviceable finishes, temperature controls, and foundations adequate for normal loading.

B. Field Offices: Owner will provide conditioned interior space for field offices **[for duration of Project] [upon completion of demolition and enclosure]**.

C. Storage and Fabrication Sheds: Provide sheds sized, furnished, and equipped to accommodate materials and equipment for construction operations.

1. Store combustible materials apart from building.

2.3 EQUIPMENT

A. General: Provide new equipment. Undamaged, previously used equipment in serviceable condition may be used.

B. Water-Hoses: Provide 3/4 inch heavy-duty abrasion-resistant, flexible rubber hoses 100 feet long, with pressure rating greater than the maximum pressure of the water distribution system. Provide adjustable shutoff nozzles at hose discharge.

C. Electrical Outlets: Provide properly configured, NEMA-polarized outlets to prevent insertion of 110- to 120-V plugs into higher voltage outlets. Provide receptacle outlets equipped with ground-fault circuit interrupters, reset button, and pilot light for connection of power tools and equipment.

D. Electrical Power Cords: Provide grounded extension cords. Use hard-service cords where exposed to abrasion and traffic. Provide waterproof connectors to connect separate lengths of electric cords if single lengths will not reach areas where construction activities are in progress. Do not exceed safe length-voltage ratio.

E. Lamps and Light Fixtures: Provide general service incandescent lamps of wattage required for adequate illumination. Provide guard cages or tempered-glass enclosures, where exposed to breakage. Provide exterior fixtures where exposed to moisture.

F. Heating Units and Ventilation: Provide temporary heating units that have been tested and labeled by UL, FM, or another recognized trade association related to the type of fuel being consumed.

PART 3 - EXECUTION

3.1 GENERAL

A. Site Storage: Cooperate and coordinate use of available areas effectively and within sequence of Work. Owner will establish and govern use of the available space, with consideration to the needs of the subcontractors to work effectively on the site.

B. Sanitary Facilities: Provide temporary toilets, wash facilities, safety shower and eyewash facilities, and drinking water for use of construction personnel. Comply with requirements of authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.

1. Use of Permanent Toilets: Use of Owner's existing or new toilet facilities **[is not permitted] [will be permitted, as long as facilities are cleaned and maintained in a condition acceptable to Owner. At Substantial Completion, restore these facilities to condition existing before initial use]**.

C. Fire Extinguishers: Provide hand-carried, portable, UL-rated, Class ABC, dry chemical extinguishers or a combination of extinguishers of NFPA recommended classes for possible exposures encountered.

D. Security: Coordinate with Owner for security protocol.

E. Parking: **[Provide temporary offsite] [Use designated areas of Owner's existing]** parking areas for construction personnel .

F. Stormwater Control: Comply with requirements of authorities having jurisdiction. Provide barriers in and around excavations and subgrade construction to prevent flooding by runoff of stormwater from heavy rains.

G. Tree and Plant Protection: Install temporary fencing located as indicated or outside the drip line of trees to protect vegetation from damage from construction operations. Protect tree root systems from damage, flooding, and erosion.

H. Pest Control: Engage pest-control service to recommend practices to minimize attraction and harboring of rodents, roaches, and other pests and to perform extermination and control procedures at regular intervals, so Project will be free of pests and their residues at Substantial Completion. Perform control operations lawfully, using materials approved by authorities having jurisdiction.

I. Routing: For removal of debris and delivery of new materials to the site, coordinate with Owner or Owner's Representative.

J. Waste Disposal: The Owner will identify location of dumpster on site. Coordinate with Owner waste evacuation route through facility and disposal.

K. Lifts and Hoists: Provide facilities necessary for hoisting materials and personnel.

1. Truck cranes and similar devices used for hoisting materials are considered "tools and equipment" and not temporary facilities.

L. Temporary Elevator Use: **[Use of elevators is not permitted] [See Division 14 elevator Section for temporary use of new elevators]**.

M. Existing Elevator Use: Use of Owner's existing elevators will be permitted, provided elevators are cleaned and maintained in a condition acceptable to Owner. At Substantial Completion, restore elevators to condition existing before initial use, including replacing worn cables, guide shoes, and similar items of limited life.

1. Do not load elevators beyond their rated weight capacity.
2. Provide protective coverings, barriers, devices, signs, or other procedures to protect elevator car and entrance doors and frame. If, despite such protection, elevators become damaged, engage elevator Installer to restore damaged work, so no evidence remains of correction work. Return items that cannot be refinished in field to the shop, make required repairs and refinish entire unit, or provide new units as required.

N. Temporary Stairs: Until permanent stairs are available, provide temporary stairs where ladders are not adequate.

O. Existing Stair Usage: Use of Owner's existing stairs will be permitted, provided stairs are cleaned and maintained in a condition acceptable to Owner. At Substantial Completion, restore stairs to condition existing before initial use.
   1. Provide protective coverings, barriers, devices, signs, or other procedures to protect stairs and to maintain means of egress. If stairs become damaged, restore damaged areas so no evidence remains of correction work.

P. Temporary Use of Permanent Stairs: Use of new stairs for construction traffic will be permitted, provided stairs are protected and finishes restored to new condition at time of Substantial Completion.

3.2 TEMPORARY ENCLOSURES

A. Interior Temporary Enclosures: It is the Contractors responsibility to determine when dust proof enclosure is required to protect adjoining area; however, provide dustproof enclosure whenever requested by Owner for this project.
   1. Provide floor to ceiling, airtight enclosures, drywall or plastic barriers, using tape, foam padding or spackling.
   2. Construct dustproof partitions with gypsum wallboard with joints taped on occupied side, and fire-retardant plywood on construction operations side.
   3. Construct dustproof partitions with two layers of 6-mil polyethylene sheet on each side. Cover floor with two layers of 6-mil polyethylene sheet, extending sheets 18 inches up the sidewalls. Overlap and tape full length of joints. Cover floor with fire-retardant treated plywood.

B. Building Envelope Temporary Enclosures: Provide temporary weather-tight enclosures for protection from exposure, foul weather, and other construction operations.
   1. Protect openings in exterior walls and roofs so as to prevent damage from water, ultraviolet light and the elements.
   2. Provide protection from elements for that portion of the Project which may be exposed by cutting and patching work, and maintain excavations free from water.
   3. Where heating or cooling is needed and permanent enclosure is not complete, provide insulated enclosure with continuous vapor barrier.
   4. Tarpaulins: Provide waterproof, fire-retardant, translucent, nylon-reinforced laminated polyethylene tarpaulins; with UL-labeled flame-spread rating of 15 or less per ASTM E 84; and in accordance with NFPA 701 Test Method 2; or as required by local jurisdiction.

3.3 TEMPORARY FIRE PROTECTION

A. Temporary Fire Protection: Comply with NFPA 241. Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses.
   1. Review emergency fire suppression procedures with Owner.
   2. Instruct personnel in methods and procedures.
   3. Post warnings and information.
   4. Coordinate with Owner for work involving hot processes with potential of setting off the building fire alarm system.
   5. Supervise welding operations and similar sources of fire ignition according to requirements of authorities having jurisdiction. Station fire-extinguishers in immediate reach of workers who are performing welding work.
   6. Verify that electric power tools are disconnected from power source when not in use and at end of work day.

B. Fire Extinguishers: Except for units in individual Contractors' offices, provide and maintain adequate and proper fire extinguishing devices in and about construction area, available for use by workers.
   1. Comply with NFPA 10 and NFPA 241 for classification, extinguishing agent, and size required by location and class of fire exposure.
   2. Devices shall not be units to be later installed in Project.

3. Provide appropriate devices for class of the potential hazard (e.g. oil, electrical) at those areas where unusual hazards may exist, including in mechanical rooms.
4. As construction proceeds, or materials which create a hazard are moved onto various floors, extinguishing devices shall be available on each floor.
5. Number and distribution of devices shall be adequate for effective fire control, to satisfaction of Fire Safety Director and Owner.

C. Sprinkler System: As soon as practicable and as construction progress permits, Mechanical Subcontractor will complete installation of sprinkler system.
1. Systems shall be made operative as soon as practicable, by floors if necessary, to help prevent serious fires.

D. Heat-Generating Equipment and Combustible Materials: Comply with the following procedures while performing work with heat-generating equipment or highly combustible materials, including welding, torch-cutting, soldering, brazing, paint removal with heat, or other operations where open flames or implements utilizing high heat or combustible solvents and chemicals are anticipated.
1. Obtain Owner's approval for operations involving use of welding or other high-heat equipment. Notify Owner at least seventy-two hours before each occurrence, indicating location of such work.
2. Use of open-flame equipment is not permitted.
3. Use of combustion heating units is not permitted.
4. As far as practical, restrict heat-generating equipment to shop areas or outside the building.
5. Prevent the spread of sparks and particles of hot metal through open windows, doors, holes, and cracks in floors, walls, ceilings, roofs, and other openings.
6. Verify that heat generating equipment is powered off and disconnected from power source when not in use and at end of work day.

E. Existing Fire Alarm System: The Owner maintains a fire alarm system throughout the building. When pull boxes, smoke detectors, flow switches and alarms are activated, the Owner's fire emergency procedures will be implemented.
1. Any activity that produces dust or smoke should be reported to Owner in advance so they can temporarily disable the particular alarm to prevent accidental triggering of smoke alarms. This is also true of any activity that might activate a flow alarm.
2. If a fire does occur in a construction area, the fire alarm system should be activated. This can be done by activating a pull box in the area.
3. When an alarm condition exists, cease all activities and abide by Owner's or fire department instructions until the alarm condition is cleared.

3.4 SECURITY AND ACCESS

A. Security: Coordinate with Owner for security protocol.
1. Owner’s security control room must remain operational at all times during construction.
2. Coordinate with Owner's security director in advance of any breach of the perimeter of the existing building.

B. Security Enclosure and Lockup: Install temporary secure enclosure before construction operations begin in a manner that prevents people from easily entering the construction area except by designated entrances.
1. Provide lockable entrances to prevent unauthorized entrance, vandalism, theft, and similar violations of security.
2. Lock entrances at end of each work day.
3. Maintain security by limiting number of keys and restricting distribution to authorized personnel.

C. Access to Restricted Areas: Access may be obtained as necessary by contacting the Owner’s Representative in advance.
1. The Contractor will be issued keys as necessary for access to the work and storage areas and will be held responsible for their security and return when no longer needed.

a. Should re-keying become necessary due to the Contractor's actions the cost thereof will be billed to the Contractor.

D. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.

E. Temporary Egress: Provide temporary egress from existing occupied facilities as indicated and as required by authorities having jurisdiction. Provide signage directing occupants to temporary egress.

3.5 OCCUPANT AND VISITOR SAFETY

A. The Contractor shall take all necessary precautions to prevent injury to the public, visitors, building occupants, and to prevent damage to property of others.

B. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.
   1. Whenever practicable, the work area shall be fenced, barricaded, or otherwise blocked off from the public or building occupants to prevent unauthorized entry into the work area.
   2. When the nature of the work prevents isolation of the work area and the public or building occupants may be in or pass through, under or over the work area, alternate precautions such as the posting of signs, the use of signal persons, the erection of barricades or similar protection around particularly hazardous operations shall be used as appropriate.

C. Public Thoroughfare: When work is to be performed over a public thoroughfare such as a sidewalk, lobby, or corridor, the thoroughfare shall be closed, if possible, or other precautions taken such as the installation of screens or barricades. Coordinate with Owner.

D. Temporary Egress: Maintain temporary egress from existing occupied facilities as indicated and as required by authorities having jurisdiction.

3.6 TEMPORARY USE OF AIR HANDLING SYSTEMS

A. Ventilation and Humidity Control: Provide temporary ventilation required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed. Coordinate ventilation requirements to produce ambient condition required and minimize energy consumption.

B. If permanent air handling systems are used for temporary heating or ventilating prior to completion of finishing operations, supply air systems must be operated with 100 percent outside air (no return air), with pre-filters and final filters in place and maintained. (Operation of air handling systems may not be possible during extreme outside air conditions.)
   1. Permanent HVAC System: If Owner authorizes use of permanent HVAC system for temporary use during construction, provide filter with MERV of 8 at each return-air grille in system and remove at end of construction and clean HVAC system as required in Section 017700 - Closeout Procedures.
   2. Return air and exhaust air systems shall not be used, and duct openings shall have closures.
   3. If air handling systems are turned off, the supply duct openings shall have closures to preclude entry of construction dirt and debris.

C. When building is substantially complete, permanent air handling systems may use return air with pre-filters and final filters in place. Take extraordinary measures to prevent dirt and/or moisture from entering duct systems.
   1. Filters: Mechanical subcontractor is responsible for providing, maintaining, cleaning and replacing filters, both temporary and permanent. Install new permanent filters just before Owner occupies or accepts Project.
   2. Install and maintain temporary filters during construction period, after enclosure, so that duct systems are protected from an accumulation of dirt or dust as a result of this Contract.

D. Vacuum clean air handling units and system ducts, and wash equipment surfaces as may be necessary to restore systems to new condition prior to final acceptance by Owner.

3.7 WATER SERVICE

A. Install water service and distribution piping of sizes and pressure adequate for construction until permanent water service is in use.
   1. Sterilization: Sterilize temporary water piping prior to use.
   2. Install backflow prevention equipment at site water connections.

3.8 ELECTRIC POWER SERVICE

A. Temporary Electric Power Service: Provide weatherproof, grounded electric power service and distribution system of sufficient size, capacity, and power characteristics during construction period. Include meters, transformers, overload-protected disconnects, automatic ground-fault interrupters, and main distribution switch gear.
   1. Contractor, and each subcontractor, will provide their own temporary wiring, cords, outlets, lamps, and connections. Installation, service, wiring and devices shall be safe, substantially supported and adequately connected.
   2. Demand shall not exceed service and damage resulting from misuse, faulty equipment or overloading shall be paid for by persons responsible.
   3. Wiring to job offices shall be responsibility of Contractor and each subcontractor, including for fixtures and bulbs.

B. Energy costs and services for testing of equipment as well as for welders, grinders, pipe threaders and similar heavy loads requiring power greater than services specified shall be provided and paid for by Contractor or subcontractors requiring such service; they shall arrange their own service and meters.
   1. Subcontractor performing work at other than normal working hours shall reimburse Contractor for the light and power used.

C. Building Service: Electrical subcontractor installs permanent primary and secondary systems after various units or parts are enclosed to use light and power through permanent service.
   1. Pay meter charge and for energy used.

D. Service after Occupancy: Contractor will have meter read in presence of Owner and arrange with Owner to assume billing from utility. Owner will pay for energy costs and assume responsibility for bulbs upon occupancy.

3.9 TEMPORARY LIGHTING

A. Provide temporary lighting with local switching that provides adequate illumination for construction operations and traffic conditions.
   1. Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.

3.10 CONSTRUCTION NOISE CONTROL

A. Construction Noise Mitigation: Attempt to implement the following construction noise mitigation measures on this Project:
   1. Equip internal combustion engine-driven construction equipment with good condition best available mufflers. Use quiet electric-powered compressors and generators.
   2. Use welded rather than T.C. bolted steel connections when possible to minimize use of impact wrenches.
   3. Erect barriers around noise generating operations.
   4. Turn off engines and compressors when not in operation; no idling.
   5. Limit noise generating construction activities to times between **[7:30 am and 3:30 pm].**
   6. Define truck routes to confine noisy trucks to streets that currently have the heaviest traffic. Develop a truck staging area away from acoustically sensitive areas.
   7. Pre-cut metal decks and metal studs off site to minimize on-site sawing.
   8. Avoid hammer drilling; use coring bits, instead. Avoid using power-actuated fasteners; use concrete screws, instead. Avoid sand blasting.

9. Avoid sheet metal debris chutes; use plastic chutes, instead.

B. Contractor is responsible for site supervision of potential sources of noise (e.g., material delivery, shouting, debris box pick-up and delivery) for all trades. Maintain awareness among trades of noise sensitivity of Project

3.11 MOISTURE AND MOLD CONTROL

A. Moisture and Mold Protection: Protect stored materials and installed Work in accordance with Moisture and Mold Protection Plan.

B. Exposed Construction Period: Before installation of weather barriers, when materials are subject to wetting and exposure and to airborne mold spores, protect as follows:
   1. Protect porous materials from water damage.
   2. Protect stored and installed material from flowing or standing water.
   3. Keep porous and organic materials from coming into prolonged contact with concrete.
   4. Remove standing water from decks.
   5. Keep deck openings covered or dammed.

C. Partially Enclosed Construction Period: After installation of weather barriers but before full enclosure and conditioning of building, when installed materials are still subject to infiltration of moisture and ambient mold spores, protect as follows:
   1. Do not load or install drywall or other porous materials or components, or items with high organic content, into partially enclosed building.
   2. Keep interior spaces reasonably clean and protected from water damage.
   3. Periodically collect and remove waste containing cellulose or other organic matter.
   4. Discard or replace water-damaged material.
   5. Do not install material that is wet.
   6. Discard and replace stored or installed material that begins to grow mold.
   7. Perform work in a sequence that allows wet materials adequate time to dry before enclosing the material in gypsum board or other interior finishes.

D. Controlled Construction Period: After completing and sealing of the building enclosure but prior to the full operation of permanent HVAC systems, maintain as follows:
   1. Control moisture and humidity inside building by maintaining effective dry-in conditions.
   2. Use temporary or permanent HVAC system to control humidity within ranges specified for installed and stored materials.
   3. Comply with manufacturer's written instructions for temperature, relative humidity, and exposure to water limits.
      a. Hygroscopic materials that may support mold growth, including wood and gypsum-based products, that become wet during the course of construction and remain wet for 48 hours are considered defective and require replacing.
      b. Measure moisture content of materials that have been exposed to moisture during construction operations or after installation. Record readings beginning at time of exposure and continuing daily for 48 hours. Identify materials containing moisture levels higher than allowed. Report findings in writing to Architect.
      c. Remove and replace materials that cannot be completely restored to their manufactured moisture level within 48 hours.

3.12 OPERATION, TERMINATION, AND REMOVAL

A. Maintenance: Maintain facilities in good operating condition until removal.
   1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour basis where required to achieve indicated results and to avoid possibility of damage.

B. Temporary Facility Changeover: Do not change over from using temporary security and protection facilities to permanent facilities until Substantial Completion.

C. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired

3.13 CLEANING AND WASTE REMOVAL

A. Progress Cleaning: Clean Project site and work areas daily, including common areas.
   1. Coordinate progress cleaning for joint-use areas where more than one installer has worked.
   2. Work Areas: Clean areas where work is in progress to level of cleanliness necessary for proper execution of Work.
   3. Provide progress cleaning of common areas and coordinate progress cleaning of areas or pieces of equipment where more than one contractor has worked.
   4. During handling and installation, clean and protect construction in progress and adjoining materials already in place.
   5. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.

B. Special Cleaning: Clean special areas and surfaces according to Owner's recommendations, using only cleaning materials specifically recommended, and that are not hazardous to health or property and that will not damage exposed surfaces.

C. Final Cleaning: Refer to Section 017700 “Close-Out Procedures.”

END OF SECTION

This page intentionally left blank.

SECTION 015717
CONSTRUCTION NOISE CONTROL

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:

1. Methods and procedures to protect building occupants and surrounding area from excessive noise associated with construction work, and are referred to as the Noise Control Policy.

B. Related Sections:

1. Section 015615 - Airborne Contaminants Control.

1.2 DEFINITION

A. A-Weighting: A standard frequency weighting which is commonly employed to measure the loudness or "noisiness" of sounds. A-weighting filters the microphone signal in a manner which correlates better with the sensation of the human ear. A-weighting is required by regulation promulgated by the U.S. EPA, the California Department of Aeronautics, CalTrans, and others. A 10 dB increase in sound level is perceived by people to be twice as loud. All noise data herein are A-weighted. Usually the unit of A-weighted sound level is written as dBA.

B. Ambient noise level: The total noise associated with a given environment, being usually a composite of normal or existing sounds from all sources near and far, excluding the noise source at issue.

C. Daytime: The hours from 7 a.m. to 9 p.m. on weekdays and 9 a.m. to 9 p.m. on weekends and holidays.

D. Nighttime: All non-daytime hours.

E. Property line: The real or imaginary line along the ground surface and its vertical extension, which separates real property owned or controlled by one person from contiguous real property owned or controlled by another person or from any public right-of-way or from any public space.

F. Receiving noise area: Any real property where people live or work and where noise is heard, excluding the project or source area.

1.3 QUALITY ASSURANCE

A. References: San Francisco Noise Ordinance which prohibits the operation of equipment that emits noise in excess of 85 dBA when measured at a distance of 100 feet.

B. Enforcement: Monitor noise levels through measurements to establish levels in excess of 85 dBA at 50 feet, and implementing additional mitigation procedures based on recommendations of acoustical consultant.

1.4 SCHEDULING

A. Schedule construction work generating severe levels of noise in advance, and set times as required and determined acceptable by Owner.

PART 2 - PRODUCTS

2.1 CONSTRUCTION NOISE ASSESSMENT

A. Construction Noise levels at a distance of 50 feet for each phase of construction are shown below. Data are based on data for similar construction activities and published data.

B. Construction Noise levels at a distance of 50 feet for each phase of construction are shown below. Data are based on data for similar construction activities and published data.

NOISE LEVELS GENERATED BY CONSTRUCTION ACTIVITIES AT 50 FEET.

		L_{eq} (dBA)	L_{max} (dBA).
Excavation:			
	Earthmoving	90	95-100.
	Excavation	90	95-100.
	Grading	80	85-90.
Foundation:			
	Earth Drilling	90	95-100.
	Concrete Pouring	85	90-95.
Erection:			
	Framing with impact wrenches	95	100-105.
	Framing without impact wrenches	85	90-95.
Pre-Construction		90	95- .

NOISE LEVELS GENERATED BY CONSTRUCTION ACTIVITIES AT 50 FEET.

Excavation:	L_{eq} (dBA)	LL_{max} (dBA).
Earthmoving	90	95-100.
Excavation.	90	95-100
Grading.	80	85-90
Foundation:		
Earth Drilling	90	95-100.
Erection:		
Concrete Pouring	85	90-95.
Framing with impact wrenches.	95	100-105
Framing without impact wrenches	85	90-95.
Pre-Construction	90	95- .

PART 3 - EXECUTION

3.1 MITIGATION

A. Construction Noise Mitigation: Attempt to implement the following construction noise mitigation measures on this Project:

1. Equip internal combustion engine-driven construction equipment with good condition best available mufflers. Use quiet electric-powered compressors and generators.
2. Use welded rather than T.C. bolted steel connections when possible to minimize use of impact wrenches.
3. Erect barriers around noise generating operations.
4. Turn off engines and compressors when not in operation; no idling.
5. Limit noise generating construction activities to times between 7:30 am and 3:30 pm.
6. Avoid blasting activities. Use ball and crane demolition techniques.
7. Define truck routes to confine noisy trucks to streets that currently have the heaviest traffic. Develop a truck staging area away from acoustically sensitive areas.
8. Use and electric-powered tower crane instead of a diesel-powered truck crane.
9. Use steel structural frames in lieu of concrete structural frames to yield a much shorter assembly time.

10. Pre-cut metal decks and metal studs off site to minimize on-site sawing.
11. For excavation, use drilled soldier piles with wood lagging instead of sheet pile driving techniques where possible. Avoid impact pile driving.
12. Retain an acoustical consultant to provide assistance with developing additional noise attenuation techniques where needed.
13. Chemically demolish concrete where possible.
14. Avoid hammer drilling; use coring bits, instead. Avoid using power-actuated fasteners; use concrete screws, instead. Avoid sand blasting.
15. Avoid sheet metal debris chutes; use plastic chutes, instead.

B. Contractor is responsible for site supervision of potential sources of noise (e.g., material delivery, shouting, debris box pick-up and delivery) for all trades. Maintain awareness among trades of noise sensitivity of Project.

C. Enforcement of Noise Control Policy:
1. Measurements will be taken on an unscheduled basis to document noise levels.
2. Information will be noted and transmitted to Contractor.
3. A record of noise violations will be maintained.

3.2 NOISE MANAGEMENT

A. Noise Control: Perform [**deconstruction] [renovation] [construction**] operations to minimize noise. Perform noise-producing work in less sensitive hours of the day or week as directed by Owner.

B. Repetitive and/or intermittent, high-level noise: Permitted only during Daytime.
1. Do not exceed the following dB limitations:

Sound Level in dB	Time Duration of Impact Noise
70	More than 12 minutes in any hour
80	More than 3 minutes in any hour

2. Provide equipment, sound-deadening devices, and take noise abatement measures that are necessary for compliance.
3. Maximum permissible construction equipment noise levels at 50 feet (dB):

EARTHMOVING	dB	MATERIALS HANDLING	dB
Front Loaders	75	Concrete Mixers	75
Backhoes	75	Concrete Pumps	75
Dozers	75	Cranes	75
Tractors	75	Derricks Impact	75
Scrapers	80	Pile Drivers	95
Graders	75	Jack Hammers	75
Trucks	75	Rock Drills	80
Pavers, Stationary	80	Pneumatic Tools	80
Pumps	75	Saws	75
Generators	75	Vibrators	75
Compressors	75		

C. Ambient Noise:
1. Maximum noise levels (dB) for receiving noise area at property line shall be as follows:
   a. Residential receiving area: Daytime 65 dB / Nighttime 60 dB
   b. Commercial/Industrial receiving area: Daytime 67 dB / Nighttime 65 dB
2. In the event the existing local ambient noise level exceeds the maximum allowable receiving noise level (dB), the receiving noise level maximum for construction operations shall be adjusted as follows:
   a. Residential receiving area: Maximum 3 additional dB above the local ambient as measured at property line.

b. Commercial/Industrial receiving area: Maximum 5 additional dB above the local ambient as measured at the property line.

3.3 FIELD QUALITY CONTROL

A. Assess potential effects of construction noise on [adjacent neighbors] [facility occupants] in accordance with ASTM E1686 and as follows:
   1. Ambient noise measurement: Measure at the property line at a height of at least four (4) feet above the immediate surrounding surface. Average the ambient noise level over a period of at least 15 minutes.
   2. Ambient noise measurement at urban sites: Conduct during morning peak traffic hour between 7 A.M. and 9 A.M. and afternoon peak traffic hour between 4 P.M. and 6 P.M. In addition, conduct a 24-hour measurement at the proposed project site to document the noise pattern throughout the day. Adjust and weight for seasonal and climatic variations.

B. Monitor noise produced from construction operations in accordance with ASTM E1780.

END OF SECTION

SECTION 016000
PRODUCT REQUIREMENTS AND SUBSTITUTION PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Procedures, requirements and limitations for considering substitutions.
   2. Criteria for selecting product options and substitutions.
   3. Administrative and procedural requirements for selection of products for use in Project.
   4. Product delivery, storage, and handling.
   5. Manufacturers' standard warranties special warranties.
   6. Equivalent products.
   7. Substitution requirements and procedures.

1.2 DEFINITIONS

A. Products: Items obtained for incorporating into the Work, whether purchased for Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent.
   1. Named Products: Items identified by manufacturer's product name, including make or model number or other designation shown or listed in manufacturer's published product literature, that is current as of date of the Contract Documents.
   2. New Products: Items that have not previously been incorporated into another project or facility. Products salvaged or recycled from other projects are not considered new products.
   3. Equivalent Product: Product that is demonstrated and approved through submittal process to have the indicated qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics that equal or exceed those of specified product.

B. Basis-of-Design Product Specification: A specification in which a specific manufacturer's product is named and accompanied by the words "basis-of-design product," including make or model number or other designation, to establish the significant qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics for purposes of evaluating equivalent products of additional manufacturers named in the specification.

1.3 SUBMITTALS

A. Proposed Materials and Products List:
   1. Submit within 10 working days after award of Contract and prior to procurement.
   2. Do not order materials or equipment until proposed list of materials is accepted.
   3. Materials and equipment are subject to Architect's and Owner's acceptance.
   4. Arrange list in order of specification sections and in form indicated by Architect/Engineer.
      a. Items listed shall fully conform to project requirements and specifications.
      b. Identify each material, product or equipment item by manufacturer and model and other identifying designations such as material identification abbreviations and equipment numbers, including those where only 1 material or product is specified.
      c. Name products specified by reference standards, described by performance requirements and descriptive language.
      d. Do not list "as specified."
   5. Where 2 or more makes or kinds of items are named in specifications (or additional names are listed in an addendum), state which particular make or kind of each item is to be provided.
   6. If list is not received within 10 working days, mechanical and electrical equipment under Divisions 21, 22, 23, 25, 26, 27, 28, 40, 41, 42, 43, 44, 45, and 48 will be as scheduled.

1.4 PRODUCT DELIVERY, STORAGE, AND HANDLING

A. Deliver, store, and handle products using means and methods that will prevent damage, deterioration, and loss, including theft and vandalism.
   1. Comply with manufacturer's written instructions.
   2. Comply with requirements specified in individual Specification Sections.

B. Delivery and Handling:
   1. Schedule delivery to minimize long-term storage at Project site and to prevent overcrowding of construction spaces.
   2. Coordinate delivery with installation time to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration, theft, and other losses.
   3. Deliver products to Project site in an undamaged condition in manufacturer's original sealed container or other packaging system, complete with labels and instructions for handling, storing, unpacking, protecting, and installing.
   4. Inspect products on delivery to determine compliance with the Contract Documents and to determine that products are undamaged and properly protected.

C. Storage:
   1. Store products to allow for inspection and measurement of quantity or counting of units.
   2. Store materials in a manner that will not endanger Project structure.
   3. Store products that are subject to damage by the elements, under cover in a weathertight enclosure above ground, with ventilation adequate to prevent condensation.
   4. Protect foam plastic from exposure to sunlight, except to extent necessary for period of installation and concealment.
   5. Comply with product manufacturer's written instructions for temperature, humidity, ventilation, and weather-protection requirements for storage.
   6. Protect stored products from damage and liquids from freezing.

1.5 PRODUCT WARRANTIES

A. Warranties specified in other Sections shall be in addition to, and run concurrent with, other warranties required by the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents.
   1. Manufacturer's Warranty: Written warranty furnished by individual manufacturer for a particular product and specifically endorsed by manufacturer to Owner.
   2. Special Warranty: Written warranty required by the Contract Documents to provide specific rights for Owner.

B. Special Warranties: Prepare a written document that contains appropriate terms and identification, ready for execution.
   1. Manufacturer's Standard Form: Modified to include Project-specific information and properly executed.
   2. Specified Form: When specified forms are included with the Specifications, prepare a written document using indicated form properly executed.
   3. See other Sections for specific content requirements and particular requirements for submitting special warranties.

C. Warranty Submittals: Comply with requirements in Section 017700 - Closeout Procedures and Section 017800 - Closeout Submittals.

PART 2 - PRODUCTS

2.1 PRODUCT REQUIREMENTS

A. General Product Requirements: Provide products that comply with the Contract Documents, are undamaged and, unless otherwise indicated, are new at time of installation.
   1. Comply with General Conditions of the Contract for Construction.

2. Provide products complete with accessories, trim, finish, fasteners, and other items needed for a complete installation and indicated use and effect.
3. Standard Products: If available, and unless custom products or nonstandard options are specified, provide standard products of types that have been produced and used successfully in similar situations on other projects.
4. Owner reserves the right to limit selection to products with warranties not in conflict with requirements of the Contract Documents.
5. Where products are accompanied by the term "as selected," Architect will make selection.
6. Descriptive, performance, and reference standard requirements in the Specifications establish salient characteristics of products.
7. Provide pricing based on products listed in Contract Documents. Contract award is based on use of specified products or substitutions approved prior to bidding or pricing.
    a. By execution of Contract, Contractor agrees and understands Work will be accomplished with products specified or accepted by substitution.

B. Product: Where Specifications name a single manufacturer and product, provide the named product that complies with requirements. Equivalent products or substitutions for Contractor's convenience will not be considered.
    1. Restricted List: Where Specifications include a list of names of both manufacturers and products, provide one of the products listed that complies with requirements.
    2. Nonrestricted List: Where Specifications include a list of names of both available manufacturers and products, provide one of the products listed, or an unnamed product, that complies with requirements and is compatible with adjacent construction, as certified in writing by Manufacturers' of adjacent materials.
    3. Comply with requirements in "Equivalent Products" Article for consideration of an unnamed product.

C. Manufacturer/Source: Where Specifications name a single manufacturer or source, provide a product by the named manufacturer or source that complies with requirements. Equivalent products or substitutions for Contractor's convenience will not be considered.
    1. Restricted List: Where Specifications include a list of manufacturers' names, provide a product by one of the manufacturers listed that complies with requirements.
    2. Nonrestricted List: Where Specifications include a list of available manufacturers, provide a product by one of the manufacturers listed, or a product by an unnamed manufacturer, that complies with requirements.
    3. Comply with requirements in "Equivalent Products" Article for consideration of an unnamed manufacturer's product.

D. Basis-of-Design Product: Where Specifications name a product, or refer to a product indicated on Drawings, and include a list of manufacturers, provide the specified or indicated product or a equivalent product by one of the other named manufacturers. Drawings and Specifications indicate sizes, profiles, dimensions, and other characteristics that are based on the product named. Comply with requirements in "Equivalent Products" Article for consideration of an unnamed product by one of the other named manufacturers.
    1. Reference to "Basis of Design" and a named specific product or manufacturer is intended to establish criteria for use of that product and manufacturer based on that products published information whether or not those criteria are explicitly stated in Specifications.
    2. Criteria may establish higher performance requirement than specified reference or performance standards. Such reference is intended to establish minimum level of quality, standard of design, function, appearance, type, strength, durability, construction, efficiency, sound level, finish, appearance, availability, service and similar characteristics determined necessary for Project.
    3. Specification criteria including basis of design products are considered as a whole.
    4. Other products or manufacturers listed meet features, performance, appearance and other criteria established by that product or manufacturer even if product must be customized to meet those criteria.

5. When other products are listed in a Section those products may be used if they meet entire specification criteria including criteria implied by product listed as basis of design. Meeting some requirements but not meeting criteria established by basis of design product does not qualify as meeting specified requirements.
6. Products or manufacturers accepted for substitution will be acceptable provided they fully comply with requirements and match basic and essential criteria of product used for basis of specification or design, including level of fabrication quality, as determined by Architect.

E. Equivalent Products: Architect will consider Contractor's request for equivalent product when the following conditions are satisfied. If the following conditions are not satisfied, Architect may return requests without action, except to record noncompliance with these requirements:
   1. Evidence that the proposed product does not require revisions to the Contract Documents, that it is consistent with the Contract Documents and will produce the indicated results, and that it is compatible with other portions of the Work.
   2. Detailed comparison of significant qualities of proposed product with those named in the Specifications. Significant qualities include attributes such as performance, weight, size, durability, visual effect, and specific features and requirements indicated.
   3. Evidence that proposed product provides specified warranty.
   4. List of similar installations for completed projects with project names and addresses and names and addresses of architects and owners, if requested.
   5. Samples, if requested.
   6. Or Equal: For products specified by name and accompanied by the term "or equal," or "or approved equal," or "or approved," or “or equivalent product,” comply with requirements in "Equivalent Products" Article to obtain approval for use of an unnamed product.

F. Equivalent Product Requests: Submit request for consideration of each equivalent product. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.
   1. Include data to indicate compliance with the requirements specified in "Equivalent Products" Article.
   2. Architect and Owner reserve right to accept or reject proposed product. Should a proposed product be unable to meet requirements to satisfaction of Architect, product shall not be used. No additional compensation will be allowed for required Work resulting from use of product accepted by Addendum.

G. Visual Matching Specification: Where Specifications require "match Architect's sample", provide a product that complies with requirements and matches Architect's sample. Architect's decision will be final on whether a proposed product matches.
   1. If no product available within specified category matches and complies with other specified requirements, comply with requirements in this Section for proposal of product.

H. Visual Selection Specification: Where Specifications include the phrase "as selected by Architect from manufacturer's full range" or similar phrase, select a product that complies with requirements. Architect will select color, gloss, pattern, density, or texture from manufacturer's product line that includes both standard and premium items.

I. Compatibility of Options: If Contractor is given option of selecting between two or more products for use on Project, select product compatible with products previously selected, even if previously selected products were also options.

J. Labels, Nameplates and Trademarks: Do not permanently attach or imprint labels or trademarks on surfaces exposed to view when installed, except as follows:
   1. Service-Connected or Power-Operated Equipment: Provide permanent nameplate indicating manufacturer, model number, serial number, capacity, speed, electrical characteristics and similar essential operating data.
      a. Locate nameplate on easily accessible surface.
   2. UL Fire Rating Labels and Other Required Labels: Install on accessible inconspicuous surfaces.
      a. Do not paint, deface or conceal required nameplates or labels.

2.2 PRODUCT SUBSTITUTIONS

A. Intent is to limit unnecessary substitutions after bids. Changes will not be allowed to accepted list of products, except when specified or accepted product subsequently is determined as not meeting requirements of Contract Documents or product becomes unavailable, and then only under following conditions:

1. Orders were placed in timely manner as required after list of materials is accepted. No excuse or proposed substitution will be considered for products due to unavailability unless proof is submitted that firm orders were placed in a timely manner.
2. Reason for unavailability is beyond control of Contractor: prolonged strikes or lockouts which will delay Project to an extent unacceptable to Owner, bankruptcy, discontinuance of a product, delays or Acts of God or other similar reasons.
3. Request for substitution is submitted in writing within 10 days after date Contractor becomes aware product does not comply with specifications or has become unavailable, accompanied by supporting evidence.
4. No extra cost to Owner.
5. Substitution does not compromise design intent or quality required.
6. Substitute product is acceptable to Owner and Architect.
7. Requested substitution offers Owner a substantial advantage in cost, time, energy conservation, or other considerations, after deducting additional responsibilities Owner must assume. Owner's additional responsibilities may include compensation to Architect for redesign and evaluation services, increased cost of other construction by Owner, and similar considerations.
8. Requested substitution does not require revisions to Contract Documents.
9. Requested substitution is consistent with the Contract Documents and will produce intended and indicated results.
10. Substitution request is fully documented and properly submitted.
11. Requested substitution will not adversely affect Contractor's Construction Schedule.
12. Requested substitution has received necessary approvals of authorities having jurisdiction.
13. Requested substitution is compatible with other portions of Work.
14. Requested substitution has been coordinated with other portions of Work.
15. Requested substitution provides specified warranty.
16. If requested substitution involves more than one trade, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to installers involved.

B. Substitution Request Submittals: Submit requests for substitution in writing to Architect at least 10 calendar days prior to bid date and hour. Requests received after this time will not be considered. Clearly define and describe proposed substitute product including following items:

1. Fully completed Section 016211 - Substitution Request Form.
2. Manufacturer's printed information supporting claim that proposed product meets specified requirements. Provide following as applicable:
    a. Literature Specifications Drawings Cut Sheets Performance data List of reference projects of similar size, value and complexity Model numbers Other information necessary to completely describe item.
3. Provide a point by point comparison between key features of specified Basis of Design item and proposed substitution.
4. Provide submitted materials marked with Article and Paragraph references from Specification using highlighter, marker and flags on pages to facilitate review and show that substitution meets specified requirements.
5. Provide a letter indicating requestor has reviewed Contract Documents and examined site (if needed) and that proposed substitution meets specified requirements.

C. Accepted substitutions will be published in writing. No information or indication of acceptance will be provided by means other than written Addendum during bidding or Architect’s written construction administration document following bidding. Refer to “Limitations on Substitutions after Bids or During Construction" in this Section.

D. Bid and construct according to Contract Documents unless approval of substitution is provided in writing.

E. Architect is not obligated to state reasons for rejecting substitution.

F. Substitute products shall:
   1. Be available in same range of colors, textures, dimensions, gauges, types, and finishes as specified product.
   2. Be equal to specified item in strength, durability, efficiency, serviceability, ease and cost of maintenance.
   3. Be compatible with building design.
   4. Not necessitate design modifications.
   5. Not impose additional work or require changes in work of Prime Contractor, or other Subcontractor, vendor, or materials supplier.
   6. Not add cost to Owner.
   7. Be similar in essential fabrication features.

G. Reference Standards for Products:
   1. When references to Federal Specification, ASTM Standard, American National Standards Institute (ANSI) or similar association standards are listed for product quality, provide an acceptable affidavit certifying that proposed substitution for this Project meets with same standard.
   2. Submit supporting test data to substantiate compliance.

H. Contractor, supplier or manufacturer providing accepted substitute product shall bear cost of required modifications to spaces, services, utilities and other features as result of accepting substitute products, including but not limited to:
   1. Larger capacity mechanical or electrical service, devices or utilities resulting from acceptance of product for bidding purposes.
   2. Modification to pipes, conduits, ducts, and controls for conveying, distributing, and controlling those services or utilities.
   3. Modification to insulation, wrappings, coatings, or other integral features of lines or items conveying those lines.

I. Compatibility of Substitutions: Investigate and document compatibility of proposed substitution with related products and materials. Engage a qualified testing agency to perform compatibility tests recommended by manufacturers.

PART 3 - EXECUTION

Not Used.

END OF SECTION

SECTION 016211

SUBSTITUTION REQUEST FORM

To: Hammel Green and Abrahamson, Inc.
Attn:
222 Sutter Street, Suite 500
San Francisco, California 94108

From: _____

Owner: **Natividad**
Project: **Medical Center**

HGA No.: **3707-016-00**

Date: _____

Specification Section Number and Paragraph: _____

Drawing & Details Affected: _____

Proposed Substitution: _____

Manufacturer: _____

Product: _____

REASON FOR SUBSTITUTION REQUEST

- ☐ Pre-Bid Substitution (Prior Approval) Date: _____
- ☐ Specified product is not available. Explain: _____
- ☐ Cost savings to Owner. Provide comparative cost analysis.
- ☐ Other: _____

EFFECTS OF PROPOSED SUBSTITUTION

Does substitution affect dimensions indicated on Drawings?

☐ NO ☐ YES Explain: _____

Does substitution affect Work of other Sections?

☐ NO ☐ YES Explain: _____

Does substitution require modifications to design, changes to Drawings, or revisions to specifications to be incorporated into the Project?

☐ NO ☐ YES Explain: _____

Attach list of at least 3 projects where proposed substitution has been used within past 12 months; include name, address, and telephone number of Owner and Architect.

CONTRACTOR'S / BIDDER'S REPRESENTATION

Undersigned accepts responsibility for coordination of proposed substitution and accepts all additional costs resulting from the incorporation of proposed substitution into the Project per Section 016210.

SUBMITTED BY:

_____

ARCHITECT'S REVIEW

- ☐ Accepted
- ☐ Not Accepted
- ☐ No Action Required
- ☐ Incomplete Submission
- ☐ Late Submission

Reviewer: _____

Review Date: _____

Subcontractor's Signature _____ **Date:** _____

Contractor's Signature _____ **Date:** _____

This page intentionally left blank.

SECTION 017132
VIBRATION MONITORING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Monitoring of vibration on-site and in the surrounding neighborhood due to construction activities.
   2. Maximum vibration levels permitted due to construction activities.

B. Related Sections:
   1. Section 013233 - Photographic Documentation.
   2. Section 013512 - Special Project Procedures for Historic Buildings.
   3. Section 013535 - Special Project Procedures for Museums.
   4. Section 022214 - Existing Conditions Survey
   5. Section 024113 - Selective Site Demolition
   6. Section 024119 - Selective Building Demolition
   7. Section 310000 - Earthwork
   8. Section 316224 - Micropiles
   9. Section 310900

C. Related Requirements

1.2 PURPOSE OF VIBRATION MONITORING PROGRAM

A. During construction.

B. Establish/determine

C. The purpose of the Vibration Monitoring Program is to provide the following:
   1. Pre-construction baseline data for comparison with construction data and post-construction data.
   2. Monitoring of existing buildings during construction, to determine whether they have been adversely affected by construction activities.
   3. A forewarning of unforeseen conditions that may require remedial, precautionary measures and a change of procedures.

1.3 REFERENCES

A. U.S. Bureau of Mines, Report of Investigations 8507

B. ASCE 83-501 Vibration Criteria for Historic and Sensitive Older Buildings

C. Federal Transit Administration: Noise and Vibration Manual

1.4 ACTION SUBMITTALS

A. Vibration Monitoring Plan: Submit plan for vibration monitoring and protocol on Project site and at locations in surrounding occupied buildings during construction; to be reviewed by and accepted by Owner and Architect.

B. Vibration Monitoring Plan: Coordinate with Owner and Architect to develop plan for construction vibration monitoring and protocol on Project site and at locations in surrounding occupied buildings; to be reviewed by and accepted by Owner and Architect; including but not limited to the following:

C. Vibration Monitoring Plan: Submit plan and protocol for vibration monitoring on Project site and at locations in surrounding occupied buildings during construction; to be reviewed by and accepted by Owner and Architect/Engineer; including but not limited to the following:
   1. Locations of vibration monitoring devices

2. Type of vibration monitoring devices
3. Duration of monitoring
4. Vibration limit criteria
5. Alerting and alarm requirements
6. Responsibilities, procedures and protocol for monitoring, alerting, and stoppage of work

1.5 INFORMATIONAL SUBMITTALS

A. Qualifications: For personnel developing, installing, and operating the monitoring system.

B. Vibration Recording Report: Submit on a weekly basis indicating the notable and maximum vibrations measured.

1.6 QUALITY ASSURANCE

A. Supervising Engineer Qualifications: A qualified engineer licensed in the State of Minnesota with at least four years of experience developing vibration monitoring programs on similar projects. The engineer shall:

1. Prepare detailed step-by-step procedures for installing and testing instruments.
2. Review and sign all submittals.
3. Be on site and supervise at least the first two installations of each type of instrument.
4. Review preliminary vibration data to confirm appropriate operation of the monitoring system.
5. Supervise the preparation of the weekly vibration recording report submittals.

B. Technician Qualifications: A qualified technician with at least 2 years of direct field experience with equipment similar to that used in the monitoring system. The technician shall be under the direct supervision of the Supervising Qualified Engineer. The technician shall:

1. Install, test, and monitor vibration monitoring equipment.
2. Inspect equipment on a periodic basis during construction
3. Alert Owner, Contractor, and Structural Engineer of Record when vibration criteria are exceeded.
4. Prepare weekly vibration recording reports.

C. *Qualifications: a qualified Geotechnical Instrumentation Engineer who is a registered Professional Engineer in the District of Columbia, who has a minimum of a Bachelor of Science degree in civil engineering, and who has at least four years of direct field experience in installation and monitoring of the types of instruments specified herein. The Geotechnical Instrumentation Engineer shall:*

1. *Prepare detailed step-by-step procedures for installing and testing instruments specified herein.*
2. Review and sign all submittals.
3. Be on site and supervise at least the first two installations of each type of instrument.
4. Conduct at least the first two activities of each of the following tasks for each instrument specified herein: pre-installation acceptance tests, post-installation acceptance tests, field calibration, data collection, reduction, processing, plotting and interpreting.
5. Supervise the preparation of the weekly submittals as specified below.

D. _____*: a superintendent who will be in responsible charge full-time on site during pre-installation testing, installation, post-installation testing, and calibration of the geotechnical instrumentation. The superintendent shall also make frequent site visits to inspect the instrumentation. The superintendent shall have at least 4 years of direct field experience in installation and monitoring of the types of instrumentation specified herein, and shall have supervised instrumentation programs of similar magnitude in similar subsurface conditions.*

E. Specialists: Certain Specification Sections require that specific construction activities shall be performed by entities who are recognized experts in those operations. Specialists shall satisfy qualification requirements indicated and shall be engaged for the activities indicated.

1. *Requirements of authorities having jurisdiction shall supersede requirements for specialists.*

F. *A **factory/field** calibration shall be conducted on all instruments prior to shipment. Certification shall be provided to indicate that the test equipment used for this purpose is calibrated and maintained in accordance with the test equipment manufacturer's calibration requirements and that, where applicable, calibrations are traceable to the National Institute of Standards and Technology.*

G. Testing Agency Qualifications: An NRTL, an NVLAP, or an independent agency with the experience and capability to conduct testing and inspecting indicated, as documented according to [**ASTM E 329**] <**Insert standard**>; and with additional qualifications specified in individual Sections; and, where required by authorities having jurisdiction, that is acceptable to authorities.
   1. *NRTL: A nationally recognized testing laboratory according to 29 CFR 1910.7.*
   2. NVLAP: A testing agency accredited according to NIST's National Voluntary Laboratory Accreditation Program.

H. *Testing Agency Qualifications: An independent agency with the experience and capability to conduct testing and inspecting indicated as documented according to ASTM E 329 acceptable to the Owner, Architect, and Structural Engineer of Record.*

1.7 *SITE CONDITIONS*

A. *Existing Conditions:*
   1. *Verify condition of existing building. Take photographs to record any existing settlement or cracking of existing walls.*
   2. Prepare a list of such damages, verified by dated photographs, and signed by Contractor, __ and other conducting investigation.
   3. Survey existing building surrounding the courtyard, employing registered surveyor, establishing exact plan locations and elevations at fixed points to act as benchmarks. Clearly identify benchmarks and record existing elevations and locations.
   4. During installation of the excavation support system, excavation and pile installation, resurvey benchmarks two times daily, at the beginning and end of each days work, maintaining an accurate log of surveyed elevations and locations for comparison with original elevations and locations. Promptly notify ____if changes in elevations or lateral movements occur or if cracks, sags or other damage is evident.

B. *Survey of Existing Conditions: Record existing conditions by use of measured drawings and preconstruction photographs.*
   1. *Establish work points to facilitate reinstallation of Historical items that are being salvaged, stored, or restored and reinstalled.*
   2. Perform surveys as the Work progresses to detect movement, shifting or hazards resulting from Work.

C. *Deformation Monitoring Points (DMPs): Establish DMPs to monitor vertical and horizontal movements at locations **specified herein**.*

D. Provide portable seismographs for monitoring the velocities of ground vibrations resulting from demolition and construction activities.
   1. *Three component sensor.*
   2. Continuous monitoring mode must be capable of recording peak velocities.

E. *Crack monitors or telltales shall consist of equipment manufactured for the purpose of measuring the distance, direction and rotation in at least 2 dimensions of the opposite faces of cracks.*

PART 2 - PRODUCTS

2.1 VIBRATION MONITORING EQUIPMENT

A. Provide portable seismographs for monitoring the velocities of ground vibrations resulting from demolition and construction activities.
   1. Three component sensor.
   2. Continuous monitoring mode must be capable of recording peak velocities.

B. Data acquisition system capable of processing vibration measurements in real-time and alerting field personnel if vibration limits have been exceeded.

C. Deformation monitoring points (DMPs) will be used to monitor vertical and/or horizontal movements at locations specified herein.

D. Crack monitors or telltales shall consist of equipment manufactured for the purpose of measuring the distance, direction and rotation in at least 2 dimensions of the opposite faces of cracks.

PART 3 - EXECUTION

3.1 VIBRATION MONITORING

A. Install seismographs at locations indicated, and at additional locations determined by the Owner to monitor vibration levels on facilities that may be affected by demolition and construction activities. A total of four vibration monitoring locations shall be assumed in proposals including:
   1. On property line along Bryant Avenue.
   2. On property line along Groveland Terrace.
   3. Inside existing underground parking ramp under active work area
   4. Inside existing Walker Art Center at location identifies by project team.

B. Calibration and Maintenance: Conduct regular field calibrations and maintenance. Regular field calibrations shall be made on a frequency not exceeding three weeks.

C. Clearly mark location of equipment with cones, tapes or other means to prevent damage due to construction operations. Notify Contractor of equipment locations.

D. Collect, process, and interpret data from the vibration monitoring equipment.

E. Notify Contractor’s Superintendent immediately if vibration limits are exceeded.

F. Continuously monitor vibration while construction activities are underway.

G. Prepare weekly vibration monitoring reports indicating any events that exceeded the vibration limits, peak particle velocities of events and contractor’s mitigation efforts following events.

3.2 VIBRATION MONITORING AND LIMITATIONS

A. **Interpreting: Contractor will make their own interpretations of the data resulting from**

B. Install seismographs at locations indicated herein, and at additional locations determined by the Contractor to monitor vibration levels on facilities that may be affected by demolition and construction activities.

C. Calibration: Conduct regular field calibrations and maintenance of readout units for the Contractor's monitoring program, and regular maintenance of field terminals and accessible instrument components. Regular field calibrations of readout units shall be made on a frequency not exceeding three weeks.

D. The Contractor's instrumentation personnel and surveyors shall reduce, process, plot and report data for the Contractor's monitoring program..

E. Continuously monitor vibrations, settlements, and movements to ensure that damage to permanent structures is prevented.

F. Coordinate with Owner to schedule work that causes high levels of noise or vibration so as to not disrupt Owner's operations.

G. *Responsibilities of Contractor include:*
   1. *Perform optical surveys and report data.*
   2. Coordinate with building occupants… surrounding buildings
   3. Instrumentation.
      a. *Provide*
      b. Install

c. maintaining and calibrating
d. Protect

4. *Data: Collect, process, and interpret data from the vibration monitoring equipment.*
   a. *Collect: Continuously monitor vibration while construction activities are underway*
   b. Process:
   c. Interpret: Notify Contractor's Superintendent immediately if vibration limits are exceeded.
   d. Reports: Prepare weekly vibration monitoring reports indicating any events that exceeded the vibration limits, peak particle velocities of events and contractor's mitigation efforts following events.
5. *Respond.*

H. *Install seismographs at locations indicated, and at additional locations determined by the Owner to monitor vibration levels on facilities that may be affected by demolition and construction activities.*
   1. *A total of <number> vibration monitoring locations shall be assumed in proposals including:*
      a. *<insert locations per project> .*
   2. *Clearly mark location of equipment with cones, tapes or other means to prevent damage due to construction operations. Notify Contractor of equipment locations.*

I. *Crack monitors or telltales shall be installed at existing cracks identified during the pre-construction survey and at any other locations or cracks that develop during construction.*

J. Calibration and Maintenance: Conduct regular field calibrations and maintenance. Regular field calibrations shall be made on a frequency not exceeding three weeks.

K. Execute pile driving operations using means and methods to accomplish work while consistently maintaining vibration levels less than the Damage Threshold Limit, as shown in Figure 1 below.

L. If pile driving operations result in vibration levels higher than Damage Threshold Limit, stop operations immediately. Adjust and commence operations in manner required to reduce vibration levels.

M. Immediately notify Owner's representative and Architect if it is determined that work cannot be accomplished without reaching or surpassing Damage Threshold Limit.

3.3 VIBRATION LIMITS AND IMPACT ON CONSTRUCTION ACTIVITIES

A. Vibration limits defined as peak particle velocity at ground surface at the locations of the monitoring devices due to construction activities producing vibrations are specified in the Figure 1.

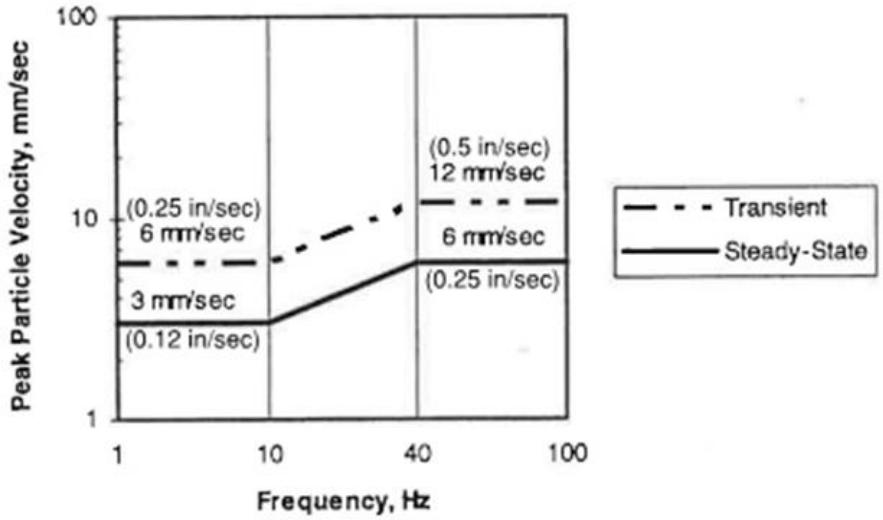
B. Vibrations exceeding one-half of the transient limits indicated in Figure 1 shall trigger an alarm. The contractor may continue to work, but must modify construction activities as required to prevent exceeding the specified limits.

C. Vibrations exceeding the transient limits indicated in Figure 1 shall trigger a separate alarm. Contractor shall immediately cease vibration producing construction activities and modify construction activities to reduce vibration to below the specified limits prior to resuming activities.

D. Construction activities such as pile driving that produce steady state vibrations shall be limited to the steady state peak particle velocities indicated in Figure 1.

E. Immediately notify Owner's representative and Architect if it is determined that work cannot be accomplished without reaching or surpassing the vibration limits.

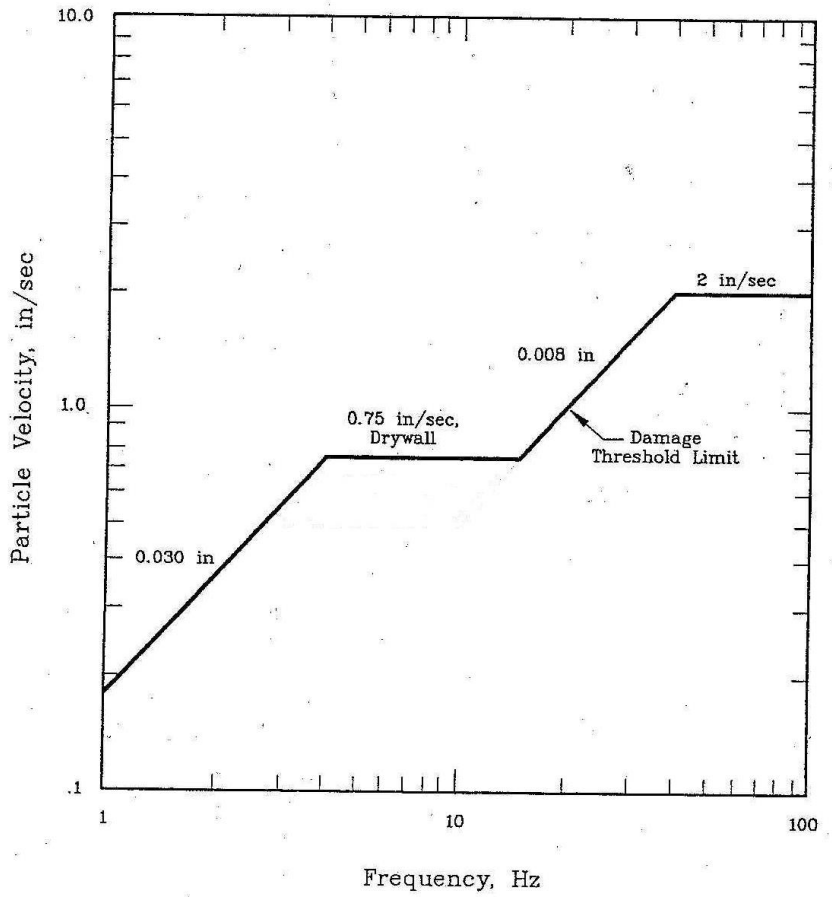
F. FIGURE 1



G.

H.

I. FIGURE 2



J.

K.

END OF SECTION

SECTION 017300
EXECUTION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: General administrative and procedural requirements governing execution of the Work including, but not limited to, the following:

1. Construction layout.
2. Field engineering and surveying.
3. Installation of the Work.
4. Cutting and patching.
5. Coordination of Owner's portion of the Work
6. Coordination of Owner-installed products.
7. Progress cleaning.
8. Starting and adjusting.
9. Protection of installed construction.
10. Correction of the Work.

1.2 DEFINITIONS

A. Cutting: Removal of in-place construction necessary to permit installation or performance of subsequent work.

B. Patching: Fitting and repair work required to restore construction to original conditions after installation of subsequent work.

1.3 PREINSTALLATION MEETINGS

A. Cutting and Patching Conference: Conduct conference at [Project site] <Insert location>.

1. Prior to [submitting cutting and patching plan] [commencing work requiring cutting and patching], review extent of cutting and patching anticipated and examine procedures for ensuring satisfactory result from cutting and patching work. Inform Architect [and Construction Manager] of scheduled meeting. Require representatives of each entity directly concerned with cutting and patching to attend, including the following:
   a. Contractor's superintendent.
   b. Trade supervisor responsible for cutting operations.
   c. Trade supervisor(s) responsible for patching of each type of substrate.
   d. Mechanical, electrical, and utilities subcontractors' supervisors, to the extent each trade is affected by cutting and patching operations.
2. Review areas of potential interference and conflict. Coordinate procedures and resolve potential conflicts before proceeding.

B. Layout Conference: Conduct conference at [Project site] <Insert location>.

1. Prior to establishing layout of [new] [new and existing] perimeter and structural column grid(s), review building location requirements. Review benchmark, control point, and layout and dimension requirements. Inform Architect[and Construction Manager] of scheduled meeting. Require representatives of each entity directly concerned with Project layout to attend, including the following:
   a. Contractor's superintendent.
   b. [Professional surveyor] [Professional engineer] [Contractor's personnel] responsible for performing Project surveying and layout.
   c. [Professional surveyor] [Professional engineer] responsible for performing site survey serving as basis for Project design.
2. Review meanings and intent of dimensions, notes, terms, graphic symbols, and other layout information indicated on the Drawings.
3. Review requirements for including layouts on Shop Drawings and other submittals.

4. Review areas of potential interference and conflict. Coordinate procedures and resolve potential conflicts before proceeding.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For [land surveyor] [professional engineer].

B. Certified Surveys: Submit [two] <Insert number> copies signed by [land surveyor] [professional engineer].

C. Certificates: Submit certificate signed by [land surveyor] [professional engineer], certifying that location and elevation of improvements comply with requirements.

D. Cutting and Patching Plan: Submit plan describing procedures at least [10] <Insert number> days prior to the time cutting and patching will be performed. Include the following information:
   1. Extent: Describe reason for and extent of each occurrence of cutting and patching.
   2. Changes to In-Place Construction: Describe anticipated results. Include changes to structural elements and operating components as well as changes in building appearance and other significant visual elements.
   3. Products: List products to be used for patching and firms or entities that will perform patching work.
   4. Dates: Indicate when cutting and patching will be performed.
   5. Utilities and Mechanical and Electrical Systems: List services and systems that cutting and patching procedures will disturb or affect. List services and systems that will be relocated and those that will be temporarily out of service. Indicate length of time permanent services and systems will be disrupted.
      a. Include description of provisions for temporary services and systems during interruption of permanent services and systems.

E. Landfill Receipts: Submit copy of receipts issued by a landfill facility, licensed to accept hazardous materials, for hazardous waste disposal.

1.5 QUALITY ASSURANCE

A. Land Surveyor Qualifications: A professional land surveyor who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing land-surveying services of the kind indicated.

B. Professional Engineer Qualifications: Refer to Section 014500 "Quality Requirements."

C. Manufacturer's Installation Instructions: Obtain and maintain on-site manufacturer's written recommendations and instructions for installation of products and equipment.

D. Cutting and Patching: Comply with requirements for and limitations on cutting and patching of construction elements.
   1. Structural Elements: When cutting and patching structural elements, or when encountering the need for cutting and patching of elements whose structural function is not known, notify Architect of locations and details of cutting and await directions from Architect before proceeding. Shore, brace, and support structural elements during cutting and patching. Do not cut and patch structural elements in a manner that could change their load-carrying capacity or increase deflection.
   2. Operational Elements: Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety.[Operational elements include the following:]
      a. Primary operational systems and equipment.
      b. Fire separation assemblies.
      c. Air or smoke barriers.
      d. Fire-suppression systems.
      e. Plumbing piping systems.
      f. Mechanical systems piping and ducts.

g. Control systems.
h. Communication systems.
i. Fire-detection and -alarm systems.
j. Conveying systems.
k. Electrical wiring systems.
l. Operating systems of special construction.
m. <Insert operating system>.

3. Other Construction Elements: Do not cut and patch other construction elements or components in a manner that could change their load-carrying capacity, that results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety.[Other construction elements include but are not limited to the following:]
   a. Water, moisture, or vapor barriers.
   b. Membranes and flashings.
   c. Exterior curtain-wall construction.
   d. Sprayed fire-resistive material.
   e. Equipment supports.
   f. Piping, ductwork, vessels, and equipment.
   g. Noise- and vibration-control elements and systems.
   h. <Insert miscellaneous element>.
4. Visual Elements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.

E. Manufacturer's Installation Instructions: Obtain and maintain on-site manufacturer's written recommendations and instructions for installation of specified products and equipment.

PART 2 - PRODUCTS

2.1 MATERIALS

A. General: Comply with requirements specified in other Sections.

B. Comply with requirements specified in other Sections.
   1. For projects requiring compliance with sustainable design and construction practices and procedures, use products for patching that comply with sustainable design requirements.

C. In-Place Materials: Use materials for patching identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.
   1. If identical materials are unavailable or cannot be used, use materials that, when installed, will provide a match acceptable to the Architect for the visual and functional performance of in-place materials.

D. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.
   1. Use cleaning products that comply with Green Seal's GS-37, or if GS-37 is not applicable, use products that comply with the California Code of Regulations maximum allowable VOC levels.

2.2 UNSALVABLE MATERIALS

A. Remove unsalvable materials in a manner that will avoid damage to materials or equipment which will remain. Completely remove and legally dispose of away from the site.

2.3 SALVABLE MATERIALS TO BE RE-USED IN WORK

A. Salvable materials and items designated for reuse or relocation, such as brick, millwork, or equipment shall be removed by the applicable trades and relocated to the new location or stored and protected from damage until incorporated into the new work.

B. Carefully remove, salvage, clean and preserve materials, equipment and other items indicated to be reused, or which will be needed for reuse to match existing work.

C. Exercise extreme care in removals to prevent damage or to make materials unsuitable to reuse.

D. For materials shown or called for to be reused and which are damaged, replace with equivalent and matching work.

E. Existing Brick to be Re-Used for Patching: Where brick from existing building is required for patching, exercise care in removing brick from existing building to preserve for reuse. Do not reuse broken brick. After removal clean all mortar from all sides of brick, carefully stockpile and protect to insure brick is available for reuse. Stockpile off site, if space is not available at site, and cover or otherwise protect from soil or damage. Stockpile on suitable platform.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Existing Conditions: The existence and location of underground and other utilities and construction indicated as existing are not guaranteed. Before beginning sitework, investigate and verify the existence and location of underground utilities, mechanical and electrical systems, and other construction affecting the Work.

1. Before construction, verify the location and invert elevation at points of connection of sanitary sewer, storm sewer, and water-service piping; underground electrical services, and other utilities.
2. Furnish location data for work related to Project that must be performed by public utilities serving Project site.

B. Examination and Acceptance of Conditions: Before proceeding with each component of the Work, examine substrates, areas, and conditions, with Installer or Applicator present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.

1. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.
2. Examine roughing-in for mechanical and electrical systems to verify actual locations of connections before equipment and fixture installation.
3. Examine walls, floors, and roofs for suitable conditions where products and systems are to be installed.

C. Written Report: Where a written report listing conditions detrimental to performance of the Work is required by other Sections, include the following:

1. Description of the Work.
2. List of detrimental conditions, including substrates.
3. List of unacceptable installation tolerances.
4. Recommended corrections.

D. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Existing Utility Information: Furnish information to local utility or Owner that is necessary to adjust, move, or relocate existing utility structures, utility poles, lines, services, or other utility appurtenances located in or affected by construction. Coordinate with authorities having jurisdiction.

B. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

C. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.

D. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents caused by differing field conditions outside the control of the Contractor, submit a request for information to Architect.

3.3 CONSTRUCTION LAYOUT

A. Verification: Before proceeding to lay out the Work, verify layout information shown on Drawings, in relation to the property survey and existing benchmarks. If discrepancies are discovered, notify Architect promptly.

B. General: Engage a professional engineer to lay out the Work using accepted surveying practices.
   1. Establish benchmarks and control points to set lines and levels at each story of construction and elsewhere as needed to locate each element of Project.
   2. Establish dimensions within tolerances indicated. Do not scale Drawings to obtain required dimensions.
   3. Inform installers of lines and levels to which they must comply.
   4. Check the location, level and plumb, of every major element as the Work progresses.
   5. Notify Architect [**and Construction Manager**] when deviations from required lines and levels exceed allowable tolerances.
   6. Close site surveys with an error of closure equal to or less than the standard established by authorities having jurisdiction.

C. Site Improvements: Locate and lay out site improvements, including pavements, grading, fill and topsoil placement, utility slopes, and rim and invert elevations.

D. Building Lines and Levels: Locate and lay out control lines and levels for structures, building foundations, column grids, and floor levels, including those required for mechanical and electrical work. Transfer survey markings and elevations for use with control lines and levels. Level foundations and piers from two or more locations.

E. Record Log: Maintain a log of layout control work. Record deviations from required lines and levels. Include beginning and ending dates and times of surveys, weather conditions, name and duty of each survey party member, and types of instruments and tapes used. Make the log available for reference by Architect [**and Construction Manager**].

3.4 FIELD ENGINEERING

A. Identification: Owner will identify existing benchmarks, control points, and property corners.

B. Reference Points: Locate existing permanent benchmarks, control points, and similar reference points before beginning the Work. Preserve and protect permanent benchmarks and control points during construction operations.
   1. Do not change or relocate existing benchmarks or control points without prior written approval of Architect. Report lost or destroyed permanent benchmarks or control points promptly. Report the need to relocate permanent benchmarks or control points to Architect before proceeding.
   2. Replace lost or destroyed permanent benchmarks and control points promptly. Base replacements on the original survey control points.

C. Benchmarks: Establish and maintain permanent benchmarks on Project site, referenced to data established by survey control points. Comply with authorities having jurisdiction for type and size of benchmark.
   1. Record benchmark locations, with horizontal and vertical data, on Project Record Documents.

2. Where the actual location or elevation of layout points cannot be marked, provide temporary reference points sufficient to locate the Work.
3. Remove temporary reference points when no longer needed. Restore marked construction to its original condition.

D. Final Property Survey: Engage a professional engineer to prepare a final property survey showing significant features (real property) for Project. Include on the survey a certification, signed by professional engineer, that principal metes, bounds, lines, and levels of Project are accurately positioned as shown on the survey.
1. Show boundary lines, monuments, streets, site improvements and utilities, existing improvements and significant vegetation, adjoining properties, acreage, grade contours, and the distance and bearing from a site corner to a legal point.
2. Recording: At Substantial Completion, have the final property survey recorded by or with authorities having jurisdiction as the official "property survey."

3.5 INSTALLATION

A. General: Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.
1. Make vertical work plumb and make horizontal work level.
2. Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement.
3. Conceal pipes, ducts, and wiring in finished areas, unless otherwise indicated.
4. Maintain minimum headroom clearance of 96 inches in occupied spaces and 90 inches in unoccupied spaces.

B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.

C. Install products at the time and under conditions that will ensure the best possible results. Maintain conditions required for product performance until Substantial Completion.

D. Conduct construction operations so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy.

E. Tools and Equipment: Do not use tools or equipment that produce harmful noise levels.

F. Templates: Obtain and distribute to the parties involved templates for work specified to be factory prepared and field installed. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing products to comply with indicated requirements.

G. Attachment: Provide blocking and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place, accurately located and aligned with other portions of the Work. Where size and type of attachments are not indicated, verify size and type required for load conditions.
1. Mounting Heights: Where mounting heights are not indicated, mount components at heights directed by Architect.
2. Allow for building movement, including thermal expansion and contraction.
3. Coordinate installation of anchorages. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

H. Joints: Make joints of uniform width. Where joint locations in exposed work are not indicated, arrange joints for the best visual effect. Fit exposed connections together to form hairline joints.

I. Hazardous Materials: Use products, cleaners, and installation materials that are not considered hazardous.

3.6 CUTTING AND PATCHING

A. General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.

1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.
   a.

B. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during installation or cutting and patching operations, by methods and with materials so as not to void existing warranties.

C. Temporary Support: Provide temporary support of Work to be cut.

D. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.

E. Adjacent Occupied Areas: Where interference with use of adjoining areas or interruption of free passage to adjoining areas is unavoidable, coordinate cutting and patching in accordance with requirements in Section 011000 "Summary."

F. Existing Utility Services and Mechanical/Electrical Systems: Where existing services/systems are required to be removed, relocated, or abandoned, bypass such services/systems before cutting to [minimize] [prevent] interruption to occupied areas.

G. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.

1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
3. [Concrete] [and] [Masonry]: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.
4. Excavating and Backfilling: Comply with requirements in applicable Sections where required by cutting and patching operations.
5. Mechanical and Electrical Services: Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.
6. Proceed with patching after construction operations requiring cutting are complete.

H. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other Work. Patch with durable seams that are as invisible as practicable, as judged by Architect. Provide materials and comply with installation requirements specified in other Sections, where applicable.

1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate physical integrity of installation.
2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will eliminate evidence of patching and refinishing.
   a. Clean piping, conduit, and similar features before applying paint or other finishing materials.
   b. Restore damaged pipe covering to its original condition.
3. Floors and Walls: Where walls or partitions that are removed extend one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform finish, color, texture, and appearance. Remove in-place floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.

a. Where patching occurs in a painted surface, prepare substrate and apply primer and intermediate paint coats appropriate for substrate over the patch, and apply final paint coat over entire unbroken surface containing the patch, corner to corner of wall and edge to edge of ceiling. Provide additional coats until patch blends with adjacent surfaces.

4. Ceilings: Patch, repair, or rehang in-place ceilings as necessary to provide an even-plane surface of uniform appearance.
5. Exterior Building Enclosure: Patch components in a manner that restores enclosure to a weathertight condition and ensures thermal and moisture integrity of building enclosure.

I. Cleaning: Clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.

3.7 PROGRESS CLEANING

A. Clean Project site and work areas daily, including common areas. Enforce requirements strictly. Dispose of materials lawfully.

1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
2. Do not hold waste materials more than seven days during normal weather or three days if the temperature is expected to rise above 80 deg F (27 deg C).
3. Containerize hazardous and unsanitary waste materials separately from other waste. Mark containers appropriately and dispose of legally, according to regulations.
   a. Use containers intended for holding waste materials of type to be stored.
4. Coordinate progress cleaning for joint-use areas where Contractor and other contractors are working concurrently.

B. Site: Maintain Project site free of waste materials and debris.

C. Work Areas: Clean areas where Work is in progress to the level of cleanliness necessary for proper execution of the Work.

1. Remove liquid spills promptly.
2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.

D. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.

E. Concealed Spaces: Remove debris from concealed spaces before enclosing the space.

F. Exposed Surfaces: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.

G. Waste Disposal: Do not bury or burn waste materials on-site. Do not wash waste materials down sewers or into waterways. Comply with waste disposal requirements in [Section 015000 "Temporary Facilities and Controls."] [Section 017419 "Construction Waste Management and Disposal."]

H. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.

I. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to ensure operability without damaging effects.

J. Limiting Exposures: Supervise construction operations to ensure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period.

3.8 STARTING AND ADJUSTING

A. Coordinate startup and adjusting of equipment and operating components with requirements in Division 01 Section "General Commissioning Requirements."

B. Start equipment and operating components to confirm proper operation. Remove malfunctioning units, replace with new units, and retest.

C. Adjust equipment for proper operation. Adjust operating components for proper operation without binding.

D. Test each piece of equipment to verify proper operation. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

E. Manufacturer's Field Service: Comply with qualification requirements in Division 01 Section "Quality Requirements."

3.9 PROTECTION OF INSTALLED CONSTRUCTION

A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.

B. Comply with manufacturer's written instructions for temperature and relative humidity.

3.10 CORRECTION OF THE WORK

A. Repair or remove and replace defective construction. Restore damaged substrates and finishes.

1. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment.

B. Restore permanent facilities used during construction to their specified condition.

C. Remove and replace damaged surfaces that are exposed to view if surfaces cannot be repaired without visible evidence of repair.

D. Repair components that do not operate properly. Remove and replace operating components that cannot be repaired.

E. Remove and replace chipped, scratched, and broken glass or reflective surfaces.

END OF SECTION

This page intentionally left blank.

SECTION 017324
ANCHORAGE AND SLEEVING

PART 1 - GENERAL

1.1 SUMMARY

A. Work Included:
   1. Installation of anchorage devices to securely connect, fasten, hang, mount, anchor, and support all work in both new and existing structures.
   2. Design of anchorage devices not specifically detailed on structural drawings.
   3. Substitution of anchor manufacturers other than the basis of design shown on the Construction Documents.
   4. Installation of sleeves and formwork for piping and openings.
   5. Layout and rough-in of anchorage locations for attached work.

B. Related Sections
   1. Division 01 Section “Cutting and Patching” for required repair of finishes and substrate.
   2. Division 01 Section “Structural Testing and Special Inspections” for inspection and load testing of anchors.
   3. Division 01 Section “Seismic Restraint Requirements for Nonstructural Components”
   4. Division 03 Sections for concrete components requiring or receiving attachments.
   5. Division 04 Sections for masonry components requiring or receiving attachments.
   6. Division 05 Sections for steel and miscellaneous metal components requiring or receiving attachments.
   7. Division 07 and 08 Sections for attachment of wall systems to structure.
   8. Division 06,09,10,11,12, and 14 Sections for attachment of architectural components to structure.
   9. Division 21 Sections for attachment of fire protection system components to the structure.
   10. Division 22 Section “Hangers and Supports for Plumbing Piping and Equipment” for attachment of piping and plumbing system components to structure.
   11. Division 23 Section “Hangers and Supports for HVAC Piping and Equipment” for attachment of piping, duct work, and other HVAC system components to structure.
   12. Division 24 Section “Hangers and Supports for Electrical Systems” for attachment of electrical systems to structure.

1.2 REFERENCES

A. ACI 318/R Building Code Requirements for Structural Concrete and Commentary

B. ACI 355.1R – State-of-the-Art Report on Anchorage to Concrete.

C. ACI 355.2 – Evaluating the Performance of Post-Installed Mechanical Anchors in Concrete.

D. ASCE 7: Minimum Design Loads for Buildings and Other Structures

E. ASTM E 488 – Test Methods for Strength of Anchors in Concrete and Masonry Elements.

F. ASTM E 1190 – Test Methods for Strength of Powder-Actuated Fasteners Installed in Structural Members.

G. ASTM E 1512 – Test Methods for Testing Bond Performance of Bonded Anchors.

H. ASTM F 1554 – Standard Specification for Anchor Bolts, Steel, 36, 55, and 105-ksi Yield Strength.

I. ICC Evaluation Service AC 193 – Acceptance Criteria for Mechanical Anchors in Concrete Elements.

J. ICC Evaluation Service AC 308- Acceptance Criteria for Post-Installed Adhesive Anchors in Concrete Elements.

1.3 DESIGN CRITERIA FOR ANCHORAGE TO STRUCTURE

A. Structural Performance: Provide anchorage devices capable of supporting the attached work and any loads placed on the attached work without exceeding the design capacity of the anchorage device or supporting structure.

B. Seismic Performance: Design and install anchorage to withstand seismic forces imposed on anchor by the attached work without exceeding the design capacity of the anchorage device or supporting structure. Refer to Section 017325 for seismic force criteria and restraint requirements.

1. Design and install anchorage to meet requirements of ASCE 7, Section 13.4 – Nonstructural Component Anchorage.

C. Select anchorage devices that are recommended by the manufacturer for the application being considered.

D. Structural Design Responsibility: Design of anchors and accessories for attaching a component to the structural shall be the responsibility of the Contractor installing that attaching component unless the anchor types, configuration, and spacings have been specifically detailed on the structural Construction Documents. Contractor is responsible for verifying that the structure being attached to has sufficient capacity to resist the anchorage loads.

E. Design anchorage devices to meet manufacturer's recommendations and applicable codes.

F. Anchorage devices that transmit loads between structural components or are used to attach life-safety related components to the structure must have a current ICC-ES Report for the application used.

1. Safety-related components include, but are not limited to: fire sprinkler systems, components of emergency power system, guard rails, fall-protection devices, and heavy suspended items that could cause damage or loss of life in the event of an anchorage failure.
2. Design of anchorage devices to meet all requirements of the ICC-ES Report.

1.4 ANCHOR SUBSTITUTION REQUIREMENTS

A. Basis of design products have been selected for all anchorage systems specifically detailed on the structural Construction Documents.

B. Refer to the general structural notes for indication of the basis of design product and manufacturer.

C. Anchorage products and manufacturers other than the basis of design will be allowed to be incorporated into the work provided that they provide capacity equal to or greater than the basis of design anchorage design and meet all additional requirements of this specification.

D. Engineering Responsibility for Anchor Substitutions: Where contractor wishes to substitute an alternate anchor for the basis of design, the Contractor shall provide engineering analysis indicating that the substituted product has a capacity equal to or greater than the basis of design anchor for the size, layout, and spacing of anchors under consideration.

1.5 ATTACHMENT TO POST-TENSIONED CONCRETE STRUCTURES

A. Where post-tensioned concrete construction is indicated, slabs and beams are post-tensioned with high-strength tensioned cables. Damage to cables due to drilling and cutting can significantly affect the capacity of the structure. No nailing, drilling, cutting, chipping, or other disruption to post-tensioned slabs and beams is allowed without written approval from the Structural Engineer of Record. All supports for piping, ducting, conduit, hanging partitions, equipment, or other work supported by or from this structure must be provided using inserts cast into the concrete. All holes must be created with cast-in sleeves or box-outs. Drilling or nailing up to 3/4 inch into post-tensioned slabs is permitted provided that depths are controlled by a mechanical device.

1.6 SUBMITTALS

A. Product Data: For each type of anchorage device indicated.

B. ICC-ES Report: For each type of anchorage device used in structural or life-safety related applications.

C. Shop Drawings: Submit in accordance with Section 013300.
   1. Show type, material, location, spacing, size, and embedment depth of anchorage devices.
   2. Shop drawings may be incorporated into drawings prepared for related sections.

D. Calculations: Structural design of anchors not specifically detailed on Structural Drawings shall be prepared by a Professional Engineer, legally authorized to practice in the jurisdiction where Project is located. Signed engineering calculations shall be submitted upon request.
   1. Engineering Responsibility: Calculations shall be reviewed for stated design assumptions, general compliance to specified requirements, and forces imposed on structure. The accuracy of engineering calculations is the sole responsibility of the Contractor's Professional Engineer.

E. Qualification Data: For persons specified in the "Quality Assurance" Article to demonstrate their capabilities and experience. Include documentation for anchor manufacturer that persons have received adequate training to successfully install the manufacturer's products.

F. Manufacturer's Instructions: Installation instructions containing sequence of operations and requirements for installation of anchorage devices.

G. Calculations for Anchor Substitutions: Capacity calculations for anchorages where an alternative anchorage product has been substituted for the basis of design shall be prepared by a Professional Engineer, legally authorized to practice in the jurisdiction where Project is located, to ensure that the alternate anchors have capacity equal to or greater than the basis of design anchor. Signed engineering calculations shall be submitted upon request.

1.7 QUALITY ASSURANCE

A. Installer Qualifications: Installer to be trained by a representative of the anchorage device manufacturer.

B. Manufacturer Qualifications: Manufacturer experienced in producing anchorage devices similar to those indicated for this Project with a record of successful in-service performance.

C. Engineering Responsibility: Engage a qualified professional engineer to design anchorage devices and prepare design calculations, Shop Drawings, and other structural data.

D. Professional Engineer Qualifications: A professional engineer who is legally authorized to practice in the jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of anchorage devices that are similar in material, design, and extent to those indicated for this Project.

E. Manufacturer Inspection: Anchorage device manufacturer shall provide qualified representative for periodic on-site review of anchorage device installation.

F. Welding: Use qualified welders and comply with American Welding Society (AMW) D1.1, "Structural Steel".

1.8 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to job site in manufacturer's or distributor's packaging undamaged, complete with installation instructions.

B. Protect and handle materials in accordance with manufacturer's recommendations to prevent damage or deterioration.

1.9 COORDINATION

A. Coordinate installation of anchoring systems. Furnish setting drawings, templates, and directions for installing cast-in anchors, including concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

PART 2 - PRODUCTS

2.1 TYPES OF ANCHORAGE AND SLEEVING DEVICES

A. Manufacturers: Where anchor manufacturer and proprietary anchor type is not specifically indicated on Drawings, subject to compliance with requirements and acceptance by Architect/Engineer, manufacturers offering products that may be incorporated into the Work as appropriate for application include, but are not limited to, those listed below. Refer to Section 016210- Product Option and Substitution Requirements for equivalent manufacturer approvals.

B. As specified in individual Sections, or as herein specified.

C. Embedded Anchors:

1. Steel plates, angles, and channels: ASTM A36 (Fy = 36 ksi).
2. Anchor rods: ASTM F1554, Minimum Yield Strength, F_y = 36 ksi, unless noted otherwise on Drawings.
3. Reinforcing Dowels: ASTM A 615, Grade 60, deformed.
4. Headed Shear Connector Studs: ASTM A 108, Grade 1015 through 1020, standard fluxed headed type.
5. Deformed Bar Anchors: Standard fluxed ASTM A496 deformed bars prepared for stud welding.
6. Design embedded anchors to meet the provisions of ACI 318, Appendix D.

D. Channel Concrete Inserts:

1. Acceptable Products and Manufacturers:
   a. Halfen Anchoring Systems: HTA, HTB, or HDT Series anchor channel systems.
   b. Unistrut Corporation: Heavy Duty, Standard Duty, or Light Duty Concrete Inserts.
   c. Versabar Corporation: VA-1 or VA-4, Hook type channel inserts.
   d. Approved Equal- as noted under Section 016210- Product options and Substitution Requirements.
2. Anchor channels shall have a foam filler to prevent concrete seepage.
3. Only fasteners manufactured or approved by the manufacturer shall be used for attachment to the anchor channels.

E. Cast-in Concrete Inserts: Internally threaded inserts cast into concrete at time of placement with pull-out, tension, and shear capacities appropriate for supported loads and building materials where used.

1. Acceptable Products and Manufacturers:
   a. Hilti , Incorporated: HCI-WF/MD Cast-in-Anchors.
   b. Cooper B-Line: B3014 Malleable Iron Insert or B2505 Spot Insert
   c. Dayton Richmond: COREWALL Slotted Inserts.
   d. Hohmann & Barnard, Inc.: 380-Series Concrete Inserts.
   e. Unistrut: P3245, M24, or M26 Spot Concrete Inserts.
   f. Or approved equal complying with specified requirements.
2. Only fasteners manufactured or approved by the manufacturer shall be used for attachment to the spot inserts.

F. Powder-Actuated Fasteners: Threaded-steel shank fastener, for use in hardened Portland cement concrete with pull-out, tension, and shear capacities appropriate for supported loads and building materials where used.

1. Acceptable Manufacturers
   a. Hilti, Incorporated
   b. ITW Ramset/Red Head.
   c. Simpson Manufacturing Co.
   d. MKT Fastening, LLC.
   e. Or approved equal complying with specified requirements.
2. Fasteners embedded in post-tensioned concrete slabs shall have a maximum depth of 3/4 inch.

G. Mechanical-Expansion Anchors: Insert-wedge-type anchor, for use in hardened Portland cement concrete with pull-out, tension, and shear capacities appropriate for supported loads and building materials where used.

1. Acceptable Manufacturers:

a. Hilti, Incorporated
b. ITW Ramset/Red Head.
c. Simpson Manufacturing Co.
d. MKT Fastening, LLC.
e. Or approved equal complying with specified requirements.

2. Mechanical-expansion anchors are not permitted in post-tensioned concrete slabs unless explicitly shown on structural drawings.

H. Drop-in Anchors: Internally-threaded, deformation-controlled expansion anchors with a preassembled expander plug, suitable for flush mount applications in hardened concrete with pull-out, tension, and shear capacities appropriate for supported loads and building materials where used.

1. Acceptable Manufacturers:
a. Hilti, Incorporated
b. Simpson Manufacturing Co.
c. ITW Ramset/Red Head.
d. Or approved equal complying with specified requirements.

2. Fasteners embedded in post-tensioned concrete slabs shall have a maximum depth of 3/4 inch.

I. Sleeve Anchors: Torque controlled expansion anchor consisting of a heavy hex bolt, sleeve, expansion sleeve, expansion cone, collapsible plastic sleeve and washer.

1. Acceptable Manufacturers:
a. Hilti: HSL, HSLG, or HSLB.
b. ITW Ramset/Redhead: Dynabolt.
c. Powers Fasteners: Lok/Bolt.
d. Simpson Strong-Tie: Sleeve-All.
e. Or approved equal complying with specified requirements.

J. Adhesive Anchors: Threaded or otherwise deformed rods grouted into substrate with adhesive, for use in hardened Portland cement concrete with pull-out, tension, and shear capacities appropriate for supported loads and building materials where used.

1. Acceptable Manufacturers:
a. Hilti, Incorporated
b. Simpson Manufacturing Co.
c. ITW Ramset/Red Head.
d. Or approved equal complying with specified requirements.

2. The use of adhesive anchors in overhead applications and/or applications that result in a sustained tensile load on the anchor is prohibited.

3. The use of adhesives “strongly discouraged” by the Federal Highway Administration Technical Advisory 5140.30 are prohibited. Contractor to verify that adhesives used are not included and do not contain components included on the current list of discouraged adhesives.

4. Adhesive anchors are not permitted in post-tensioned concrete slabs unless explicitly shown on structural drawings.

K. Concrete and masonry screws

1. Acceptable Manufacturers:
a. Concrete Fastening Systems: Tapcon.
b. Hilti: Kwik-Con II+ Fastening System.
c. ITW Ramset/Redhead: Tapcon.
d. Powers Fasteners: Tapper.
e. Simpson Strong-Tie: Titen High-Low Threaded Self-Tapping Concrete and Masonry Screw.
f. Or approved equal complying with specified requirements.

L. Sleeves: Steel and/or plastic piping as specified in individual sections or as herein specified. Sleeves shall be of new material, cut square, reamed. Sheet metal sleeves may be used only where specifically approved.

1. Core-drilling of post-tensioned concrete slabs is not permitted unless explicitly authorized in writing by the Structural Engineer of Record..

PART 3 - EXECUTION

3.1 INSPECTION

A. Examine substrate and conditions under which anchorage and sleeving work is to be performed. Do not proceed with work until unsatisfactory conditions have been corrected.

3.2 COORDINATION

A. Coordinate construction such that interference of reinforcing steel with concrete anchor placement does not occur. If reinforcing steel is encountered during drilling, adjust the anchor location if possible and notify the Owner's Representative. Care shall be taken not to break or damage reinforcing steel during drilling, unless explicitly permitted by Structural Engineer.

3.3 INSTALLATION- GENERAL

A. Methods and devices, as well as location, may be subject to Owner Representative's approval and shall not impair, violate or alter structure, water integrity or aesthetic value of the Work.

B. Full layout data and rough-in data is to be provided by the Contractor or subcontractor supplying the attached work or equipment, to others requiring the data, in sufficient time to facilitate proper and accurate rough-in.

1. For existing equipment of the Owner, the Contractor must examine the equipment and determine the rough-in data. For equipment to be purchased by the Owner, the Owner will arrange to have the data furnished to the Contractor.
2. If rough-in details are not available at the time service systems are being installed, the final rough in shall be postponed until the data is available. At all times prior to roughing-in for equipment by Owner, consult with the Owner to verify the status of rough-in data.

C. Floor Sleeves: Floor sleeves for services passing through the floor shall be roughed-in prior to pouring the floors. If rough-in locations are not available, postpone pouring floors until the locations are available.

D. Unless specifically noted, equipment shall be installed in accordance with the manufacturer's recommendations and instructions.

3.4 ANCHORS

A. Furnish and install anchorage devices to securely fasten, hang, mount, anchor, and support work without unacceptable deflections or exceeding the capacity of the anchorage device or structure.

1. Maximum applied concentrated tension force on any one anchor supporting suspended loads shall not exceed 1500 pounds.
2. Maximum applied concentrated tension force on any one anchor installed in slabs-on-metal deck shall not exceed 750 pounds.
3. Anchors with an applied tension force of 1000 pounds or more shall be cast-in anchors. Drilled-in anchors in applications where this tension force is exceeded shall not be permitted without prior approval of Structural Engineer.

B. Provide anchorage devices recommended by the Manufacturer for the application in which the anchor is used, unless otherwise shown or specified.

C. Provide anchorage devices cast integral with the structure wherever possible.

1. Use templates to locate anchor rods accurately and securely in concrete.
2. Anchor channels shall be securely fastened to concrete form work.

D. Drilled Anchors: Anchors installed using drilled holes, mechanical expansion or adhesive, shall be permitted in concrete structures where the use of cast-in anchors is problematic. Anchor installation shall not cut or damage any reinforcing steel. Spalling of concrete around anchorage device is unacceptable. Install all anchors in clean, dry holes of the diameter recommended by the Manufacturer.

1. Anchors installed in drilled holes with depth greater that 3/4 inch in post-tensioned slabs are prohibited. Provide a mechanical means for preventing holes depths greater than 3/4 inch.

E. The use of adhesive anchors in overhead applications and/or applications that result in a sustained tensile load on the anchor is prohibited.

F. Shot Anchors: Shot anchors (powder-actuated fasteners) shall be permitted in concrete structures where the use of cast-in anchors is problematic. Anchor installation shall not damage any reinforcing steel. Spalling of concrete around anchorage devices is unacceptable.

1. Shot anchors will not be permitted in bottoms of joists, in post-tensioned slabs where cable location is unknown, or in slabs 4 inches or less in thickness.
2. Any shot anchors at concrete joists shall be at the side of the joist, above centerline, located to avoid reinforcing steel.
3. Shot anchors installed in post-tensioned concrete slabs with depth greater that 3/4 inch are prohibited. Provide a mechanical means for preventing anchor penetration greater than 3/4 inch.

G. Wood plugs into solid materials, toggle bolting to lath and plaster, or bolting into shields at hollow units will not be acceptable.

H. Provide adequate backing for all fastenings and supports to prevent deflection or undue stresses.

3.5 SLEEVES

A. Sleeve existing pipes unless indicated otherwise.

B. Provide sleeves for all pipes, ducts and similar features that pass through walls, slabs, concrete joists, beams or girders, concrete columns or concrete bridging. Sleeve penetrations through joists, beams, girders, columns, or bridging are not permitted unless explicitly shown on the structural drawings or authorized in writing by the Structural Engineer of Record.

C. Sleeves shall be of new material, cut square, reamed. Sheet metal sleeves may be used only where specifically approved.

1. At all concrete penetrations, sleeves shall be uncoated or galvanized pipe, not less than Schedule 40 steel pipe.
2. At exposed or concealed masonry walls, sleeves shall be the same as for concrete penetrations.

D. Sleeves passing through walls, slabs, beams, bridging, columns, shall be no larger than 1/2 inch greater in inside diameter than external diameter of pipe passing through sleeves, or the insulation diameter, unless detailed or specified otherwise.

1. Pipe insulation shall be continuous through the sleeves.

E. Unless detailed or specified otherwise, sleeves through walls shall extend full thickness of wall and be cut flush with finished surface; sleeves through exterior building walls, above or below grade, shall extend full thickness of wall and be cut flush with finished surfaces; sleeves through floor slabs for exposed piping shall extend not less than 1/2 inch above finished floor.

F. Sleeve Spacing: Where sleeves occur in rows or clusters, a minimum of 4 inches of concrete shall be left between sleeves and if the normal spacing of reinforcing bars cannot be maintained, or are interrupted because of sleeve size or cluster location, extra reinforcing shall be provided by the Contractor as directed by the Structural Engineer. In no case shall sleeves impair the structural capacity of the Work.

G. Core Drilled Holes: At core drilled holes, the specified sleeves will generally be required, unless otherwise indicated. Where omission of a sleeve is approved, the hole shall be drilled approximately one inch larger that the outside diameter of the insulation, where insulated. When the pipe is installed, hold down centering wedges one inch minimum below the floor line. The opening shall be sealed.

1. Core drilling of post-tensioned concrete slabs is not permitted unless explicitly authorized in writing by the Structural Engineer of Record.

H. Sealing of Sleeves: As pipe, conduit or other feature is installed through a sleeve, it shall be wedged to keep in the center of the sleeve, with wedges held 1" back from end of sleeve. Pipe, conduit or other features through walls or other vertical surfaces, shall be caulked at the top in all cases, and at the bottom where exposed in a finished space.

3.6 FIELD QUALITY CONTROL

A. Testing Agency: Owner will engage a qualified independent testing and inspecting agency to perform field tests and inspections and prepare test reports in accordance with Section 014533. Cooperate with testing agency to facilitate the execution of its duties.

3.7 REPAIR OF DEFECTIVE WORK

A. Remove and replace misplaced or malfunctioning anchors. Fill empty anchor holes and patch failed anchor locations with appropriate material as specified by the Architect/Engineer. Anchors that fail to meet load testing requirements shall be considered malfunctioning.

END OF SECTION

SECTION 017329
CUTTING & PATCHING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Cutting, demolition, removal, patching and restoration of work as necessary to accomplish and complete all work under the Contract, including general construction, mechanical and electrical work[; except where work is indicated within designated historic areas].

1.2 INFORMATIONAL SUBMITTALS

A. Schedule: Submit schedule indicating proposed sequence of operations for demolition work to Owner's Representative for review prior to start of work. Include coordination for shutoff, capping, and continuation of utility services as required, together with details for dust and noise control protection.

1. Provide detailed sequence of demolition and removal work to ensure uninterrupted progress of Owner's on-site operations. Coordinate with Work of other related Sections.

1.3 QUALITY ASSURANCE

A. Skilled Mechanics: Accomplish all work of cutting, removal, demolition, relocation, patching and other restoration by using only mechanics skilled in the trade. If necessary, sublet the work to skilled contractors or subcontractors.

1.4 COORDINATION

A. Coordinate all work of this Section with all subcontractors so the work will progress without interruption and minimum delays.

B. Coordinate and schedule work of this Section with the Owner where possible disturbance may occur and where relocations or other potential disruptions of the Owner's functions and services may occur. All work affecting the Owner's functions and services shall be performed at times acceptable to the Owner.

1. Two (2) week notice required, coordinate through Project Services.

C. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during installation or cutting and patching operations, by methods and with materials so as not to void existing warranties.

PART 2 - DISPOSITION OF MATERIALS

2.1 UNSALVABLE MATERIALS

A. Remove unsalvable materials in a manner that will avoid damage to materials or equipment which will remain. Completely remove and legally dispose of away from the site.

2.2 SALVABLE MATERIALS TO BE RE-USED IN WORK

A. Salvable materials and items designated for reuse or relocation, such as brick, millwork, or equipment shall be removed by the applicable trades and relocated to the new location or stored and protected from damage until incorporated into the new work.

B. Carefully remove, salvage, clean and preserve materials, equipment and other items indicated to be reused, or which will be needed for reuse to match existing work.

C. Exercise extreme care in removals to prevent damage or to make materials unsuitable to reuse.

D. For materials shown or called for to be reused and which are damaged, replace with equivalent and matching work.

E. Existing Brick to be Re-Used for Patching: Where brick from existing building is required for patching, exercise care in removing brick from existing building to preserve for reuse. Do not reuse broken brick. After removal clean all mortar from all sides of brick, carefully stockpile and protect to insure brick is available for reuse. Stockpile off site, if space is not available at site, and cover or otherwise protect from soil or damage. Stockpile on suitable platform.

PART 3 - EXECUTION

3.1 DESCRIPTION OF WORK

A. Drawings generally indicate the extent of demolition, removals, relocations and cutting. The drawings shall not be construed as indicating all required work, nor indicating all conditions or details which might be encountered to accomplish the work of this Contract. The Contractor and subcontractors must examine the spaces themselves to determine the actual conditions and requirements.

3.2 TEMPORARY PROTECTION

A. Provide temporary bracing, shoring, needling and support during demolition, cutting, remodeling and related new construction as necessary for the execution of the Work and the protection of persons and property. Perform all work with appropriate supports, protection and methods to prevent collapse, settling or damage to property or persons. Provide adequate supports for the loads to be carried, with loads properly distributed, including to lower levels and sound bearing, if necessary.

B. Protection: Protect in-place construction during cutting and patching to prevent damage.
   1. Provide protective coverings and enclosures necessary to prevent damage to existing spaces and materials to remain.
   2. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.
   3. Provide dustproof temporary enclosures separating areas under demolition and remodeling from the remainder of the building as well as temporary HEPA filters at ductwork.
   4. Provide temporary hinged doors in temporary enclosures where necessary. Temporary and permanent doors shall be completely sealed with tape or other suitable material during demolition work and shall remain sealed until dust has settled.

C. Limit dust, dirt and noise dispersal to the lowest practical level. Comply with governing regulations regarding environmental hazards and general dust control. Notify the Owner's representative of possible exposure to harmful dusts and vapors, flammable or explosive materials, and other potential hazards.

3.3 CUTTING AND REMOVING

A. Perform cutting, demolition, removal work, patching and restoration of work as necessary to accomplish and complete all work under the Contract, including any relocation or reuse of existing materials, equipment, systems, or other work, as well as the disposition of salvaged materials or debris.
   1. Inspect existing conditions, including elements subject to damage or movement during cutting and patching.
   2. Beginning of cutting or patching means acceptance of existing conditions.
   3. Provide protective coverings and enclosures necessary to prevent damage to existing spaces and materials to remain.
   4. Demolish and remove existing construction as shown, indicated or required to be removed to accomplish the Work.
   5. Execute work with care. Existing construction that is to remain which is loosened, cracked, or otherwise damaged or defaced as a result of the Work and is unsuitable for use intended shall be removed and replaced at no additional cost to the Owner.

6. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
7. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.
8. Transport debris and rubbish in such a manner as to prevent the spread of dust.
9. Clean demolition areas and remove debris, waste and rubbish from the building at the conclusion of each day's work.
    a. Transport debris and rubbish in such a manner so as to prevent spread of dust.
    b. Do not store or permit debris storage at site.
    c. Do not burn debris, rubbish or waste at the site.
    d. Keep adjacent areas unencumbered and clean.
    e. Keep walks and similar areas broom clean.

3.4 PATCHING AND RESTORING

A. Patch or otherwise restore disturbed existing construction as indicated on the drawings and schedules, or as otherwise required to restore the work and surfaces. Patching or restoration shall be carried to natural breaks (i.e., corners) wherever possible. Where existing construction is removed, cut or otherwise disturbed by Work of the Project, patch defective and incomplete surfaces. Repair any damage to existing construction which is to remain.
    1. Patching work shall be done by skilled mechanics experienced in the particular type of work involved. Patching work shall conform to the standards of the Specifications where applicable and where not specified, work shall conform to the highest standards of the trade.
    2. Patch existing construction to match existing work (unless otherwise called for) except provide new materials and accomplish as for new work. Examine existing surfaces to be patched before proceeding with the work. Report all conditions where existing materials, colors and finishes cannot be matched to the Architect and Owner, and do not proceed until instructions have been given.
    3. Existing construction that has been damaged as a result of the Work shall be repaired to an extent and as required to match adjacent existing undamaged construction.
    4. Painting: Painting, including preparation, materials, workmanship and number of coats shall comply with Section 099000 - Painting. Painting of surfaces patched shall extend to natural breaks, such as corners, as approved by the Architect and Owner.
        a. It is the intent that the mechanical and electrical subcontractors are responsible to paint or repaint surfaces at locations where demolition, cutting and patching has been accomplished only for their work.

B. Thoroughly clean and prepare all surfaces to receive new finish or covering. Completely remove dirt, dust, grease, oil, paint, loose materials and soil. Clean, etch where necessary, and place surfaces in most suitable condition for the finish.

3.5 CLEANING

A. Perform periodic and final cleaning.

B. Clean Owner-occupied areas daily.

C. Clean spillage, overspray, and heavy collection of dust in Owner- occupied areas immediately.

D. At completion of work of each trade, clean area and make surfaces ready for work of successive trades.

E. At completion of alteration work in each area, provide final cleaning and return space to a condition suitable for use by Owner.

END OF SECTION

This page intentionally left blank.

SECTION 017420
CONSTRUCTION WASTE MANAGEMENT

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Administrative and procedural requirements for recycling or disposing of construction waste for compliance with USGBC's **["LEED v4.0 /v4.1 for Building Design and Construction"** (hereafter "LEED")] [**"LEED v4.1 for Interior Design and Construction" (hereafter "LEED")**] [**Minnesota Buildings, Benchmarks & Beyond (B3) v3.1]**.

B. Section Includes: Administrative and procedural requirements for the following:

1. Salvaging nonhazardous waste.
2. Recycling nonhazardous waste.
3. Disposing of nonhazardous waste.

C. Related Sections:

1. Section 018113 - Sustainable Design Requirements.
2. Section 024113 - Selective Site Demolition: For disposition of waste resulting from demolition and removal of existing sitework.
3. Section 024130 - Selective Interior Demolition: For disposition of waste resulting from demolition and removal of existing construction and equipment.
4. Section 024120 - Selective Demolition: For disposition of waste resulting from demolition and removal of existing construction and equipment.

1.2 DEFINITIONS

A. Construction Waste: Building and site improvement materials and other solid waste resulting from construction, remodeling, renovation, or repair operations. Construction waste includes packaging.

B. Demolition Waste: Building and site improvement materials resulting from demolition or selective demolition operations.

C. Disposal: Removal off-site of demolition and construction waste and subsequent sale, recycling, reuse, or deposit in landfill or incinerator acceptable to authorities having jurisdiction.

D. Recycle: Recovery of demolition or construction waste for subsequent processing in preparation for reuse.

E. Salvage: Recovery of demolition or construction waste and subsequent sale or reuse in another facility.

F. Salvage and Reuse: Recovery of demolition or construction waste and subsequent incorporation into the Work.

1.3 ACTION SUBMITTALS

A. Waste Management Plan: Prior to start of construction, submit a construction waste management plan indicating how Contractor proposes to collect, segregate, recycle, and recover at least **75%** of construction wastes and debris generated by the Work.

1. Submit documentation indicating compliance with regulations specified in this Section.
2. Include a list of recycling facilities to which indicated recyclable materials will be sent for recycling.
3. Identify materials that are not recyclable or otherwise recoverable that must be disposed of in a landfill or other means acceptable under governing State of Minnesota and local regulations.
4. List permitted landfills and/or other disposal means to be employed.

1.4 SUSTAINABLE DESIGN SUBMITTALS

A. Letter Template for LEED Credit MR 2.1 and 2.2, signed by Contractor, tabulating total waste material, quantities diverted and means by which it is diverted, and statement that requirements for the credit have been met.

1.5 INFORMATIONAL SUBMITTALS

A. Sustainable Design Submittals: In addition to other specified action and informational submittals, submit the following in accordance with B3 Guidelines documentation requirements. Mark as "Sustainable Design Submittal".

1. M.3B: Waste Management Report.

B. Waste Management Report: Documenting actual construction waste disposal and recycling rates indicating at least 75% diversion, including receipts or other documentation related to diversion through the course of construction:

1. Calculation method used.
2. Total amount of nonhazardous construction and demolition waste.
3. Total amount of nonhazardous construction and demolition waste diverted from landfill..
4. Diversion percentage met.

C. Waste Reduction Calculations: Before request for Substantial Completion, submit calculated end-of-Project rates for salvage, recycling, and disposal as a percentage of total waste generated by the Work.

1. Submit on completed *Appendix M-3b2: Construction Waste Recycling Economics Calculator*, available on B3 website at https://www.b3mn.org/guidelines/3-1/m_3/. Sample attached at end of this Section.

D. Waste Reduction Progress Reports: Concurrent with each Application for Payment, submit report. Include the following information:

1. Material category.
2. Generation point of waste.
3. Total quantity of waste in tons.
4. Quantity of waste salvaged, both estimated and actual in tons.
5. Quantity of waste recycled, both estimated and actual in tons.
6. Total quantity of waste recovered (salvaged plus recycled) in tons.
7. Total quantity of waste recovered (salvaged plus recycled) as a percentage of total waste.

E. Recycling and Processing Facility Records: Indicate receipt and acceptance of recyclable waste by recycling and processing facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.

F. Landfill and Incinerator Disposal Records: Indicate receipt and acceptance of waste by landfills and incinerator facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.

1.6 QUALITY ASSURANCE

A. Waste Management Coordinator Qualifications: Experienced firm, or individual employed and assigned by General Contractor, with a record of successful waste management coordination of projects with similar requirements. Superintendent [may] [may not] serve as Waste Management Coordinator.

B. Regulatory Requirements: Comply with applicable requirements of the State in which Project is located and applicable local ordinances and regulations concerning management of construction, demolition, land clearing, inert, and site trash debris and subsequent modifications and amendments to same.

C. Disposal Sites, Recyclers, and Waste Materials Processors: Use only facilities properly permitted by the State of Minnesota, and by local authorities where applicable.

D. Waste Management Preconstruction Conference: Prior to beginning work at the site, schedule and conduct a conference to review the Construction Waste Management Plan and discuss procedures, schedules and specific requirements for waste materials recycling and disposal. Discuss coordination and interface between Contractor and other construction activities. Identify and resolve problems of compliance with requirements. Record minutes of the meeting, identifying conclusions reached and matters requiring further resolution. Maintain waste management as an agenda item at future construction meetings.

1. Attendees: Construction Manager, Prime Contractors, Waste Management Coordinator, and related Contractor personnel associated with work of this section, including personnel in charge of the waste management program; Architect; material suppliers where appropriate; and such additional Owner personnel as Owner deems appropriate.
2. Plan Revision: Make revisions to Construction Waste Management Plan agreed upon during the meeting and incorporate resolutions agreed to be made subsequent to the meeting. Submit revised plan to Architect for approval.

1.7 STORAGE AND HANDLING

A. Site Storage: Remove materials for recycling and recovery from the work location to approved containers or storage area as required. Failure to remove waste materials will be considered cause for withholding payment and termination of Contract.

B. Position containers for recyclable and recoverable waste materials at a designated location on the Project Site. If materials are sorted on site, provide separate collection containers or storage areas for not less than the following materials:

1. Concrete and masonry.
2. Metals.
3. Untreated lumber.
4. Gypsum wallboard scrap.
5. Paper and cardboard.

C. Handling: Deposit indicated recyclable, and recoverable materials in storage areas or containers in a clean (no mud, adhesives, solvents, petroleum contamination), debris-free condition. Do not deposit contaminated materials into the containers until such time as such materials have been cleaned.

D. If the contamination chemically combines with the material so that it cannot be cleaned, do not deposit into the recycle containers. In such case, request resolution by the Construction Quality Manager for disposal of the contaminated material. Directions from the Construction Quality Manager do not relieve the Contractor of responsibility for compliance with all legal and regulatory requirements for disposal, nor shall such directions cause a request for modification of the Contract.

1.8 PROJECT CONDITIONS

A. Environmental Requirements: Transport recyclable and recoverable waste materials from the Work Area to containers and carefully deposit in the containers without excess noise and interference with other activities, to minimize noise and dust.

1. Do not place recyclable waste materials on the ground adjacent to a container.

PART 2 - PRODUCTS

Not Used

PART 3 - EXECUTION

3.1 PLAN IMPLEMENTATION

A. General: Implement approved waste management plan. Provide handling, containers, storage, signage, transportation, and other items as required to implement waste management plan during the entire duration of the Contract.

1. Comply with Section 015000 - Temporary Facilities and Controls for operation, termination, and removal requirements.

B. Training: Train workers, subcontractors, and suppliers on proper waste management procedures, as appropriate for the Work occurring at Project site.
   1. Distribute waste management plan to everyone concerned within [**three**] <**Insert number**> days of submittal return.
   2. Distribute waste management plan to entities when they first begin work on-site. Review plan procedures and locations established for salvage, recycling, and disposal.

C. Site Access and Temporary Controls: Conduct waste management operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
   1. Designate and label specific areas on Project site necessary for separating materials that are to be salvaged, recycled, reused, donated, and sold.
   2. Comply with Division 01 Section "Temporary Facilities and Controls" for controlling dust and dirt, environmental protection, and noise control.

3.2 WASTE MANAGEMENT

A. General: Implement waste management procedures in accordance with approved Construction Waste Management Plan. Maintain procedure throughout the life of this Contract.

B. Waste Management Coordinator: Engage a waste management coordinator to be responsible for implementing, monitoring, and reporting status of waste management work plan.

C. Procedures: Separate recyclable waste from other waste materials, trash, and debris. Separate recyclable waste by type at Project site to the maximum extent practical according to approved construction waste management plan.
   1. Provide appropriately marked containers or bins for controlling recyclable waste until they are removed from Project site. Include list of acceptable and unacceptable materials at each container and bin.
      a. Inspect containers and bins for contamination and remove contaminated materials if found.
   2. Stockpile processed materials on-site without intermixing with other materials. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
   3. Stockpile materials away from construction area. Do not store within drip line of remaining trees.
   4. Store components off the ground and protect from the weather.
   5. Remove recyclable waste off Owner's property and transport to recycling receiver or processor.

D. Source Separation On- or Off-Site: Either separate, store, protect, and handle at the project site all identified recyclable and recoverable waste products to prevent contamination of materials and maximize recycleability and recoverability of materials. Or mix all identified recyclable and recoverable waste products for separation off-site.

E. Arrange for the regular collection, transport from the site, and delivery to respective approved recycling centers of indicated recyclable waste materials. Maintain records accessible to the Architect for verification of construction waste materials recycling and recovery.

F. Delivery Receipts: Arrange for timely pickups from the site or deliveries to approved recycling facilities of designated waste materials to keep construction site clear and prevent contamination of materials. Keep and maintain records of deliveries to recycling facilities and pickups of waste materials at the site by others as specified above.

3.3 RECYCLING CONSTRUCTION WASTE

A. General: the following paragraphs supplement handling requirements for various materials identified for classification and recycling listed in Part 1 “Summary” article above.

B. Preparation of Waste: Prepare and maintain recyclable waste materials according to recycling or reuse facility requirements. Maintain materials free of dirt, adhesives, solvents, petroleum contamination, and other substances deleterious to the recycling process.

C. Packaging and Paper:
   1. Cardboard and Boxes: Break down packaging into flat sheets. Bundle and store in a dry location.
   2. Polystyrene Packaging: Separate and bag materials.
   3. Pallets: As much as possible, require deliveries using pallets to remove pallets from Project site. For pallets that remain on-site, break down pallets into component wood pieces and comply with requirements for recycling wood.
   4. Crates: Break down crates into component wood pieces and comply with requirements for recycling wood.
   5. Bond Paper: General office quality paper used for specifications, correspondence, copiers, PC laser printers, and FAX machines. Collect in separate container at each workstation and deposit loose in appropriate recycle container as required.
   6. Newsprint: Newspapers and tabloid style advertising (slick finish magazines and advertising materials are not typically recyclable). Collect in single location and deposit as required in appropriate recycle container.
   7. Construction Office Waste: Regardless of salvage/recycle goal indicated in "General" Paragraph above, salvage or recycle 100 percent of the following construction office waste materials:
      a. Paper.
      b. Aluminum cans.
      c. Glass containers.
      d. Plastic bottles and containers.
   8. Other: Recycle paper and beverage containers used by on-site workers.

D. Concrete and Masonry: Clean concrete, brick, rock, and masonry free of metals, woods and other contaminates.
   1. If possible during demolition, crush existing concrete and concrete masonry units on-site into aggregate size.
   2. Store crushed material on-site in clean area to avoid contamination from other materials or building processes.
   3. Reuse on-site crushed material for fill, for stabilizing soils, or as base and subbase materials.
   4. If crushing on site is impractical, store material during demolition processes on site in clean, uncontaminated area.

E. Metals: Metal scrap including iron, steel, copper, brass, and aluminum including piping, fasteners, wiring, ductwork and sheet metal goods.
   1. Cut items to lengths and sizes to fit within the container provided when necessary.
   2. Where there is sufficient quantity of a specific recyclable waste item, make special arrangements for items to be bundled, banded or tied, and stack in a designated location for a special pick-up. Coordinate special arrangements with Contractor.

F. Untreated Wood: Unpainted, untreated dimensional lumber, timber beams, engineered wood products, plywood, oriented strand board, Masonite, particleboard, wood shipping pallets, and crates.
   1. Salvaged wood materials to be free of metals, concrete, gypsum wallboard, insulation, and other contaminating materials.
   2. Stack dimensional wood into like piles. For example, store 2 x 4s with other 2 x 4s, and 2 x 6s with other 2 x 6s. Also, if quantity is sufficient, separate piles into lengths of 4-foot increments.
   3. Reuse lumber on site as studs, backing, blocking or other uses where appropriate.
   4. Stack non-dimensional wood in piles for possible reuse on-site or transport off-site.

G. Gypsum Wallboard Scrap: Excess drywall construction materials including cuttings, other scrap, and excess materials.
   1. Separate gypsum wallboard from other wastes. Dispose of waste gypsum wallboard off-site at a gypsum reclamation or recycling facility, or on-site as a soil amendment.
   2. Soil Amending: For on-site application as a soil amendment, incorporate waste gypsum wallboard in landscape areas under construction, at a rate of 50 pounds per 1000 square feet, or approximately one ton per acre.

a. Material must be unpainted gypsum wallboard from new construction, ground to reduce material to a fine particle size (70% passing a 100-mesh screen), and must be fully incorporated into the soil surface.

H. Carpet: All existing carpet and existing carpet waste shall be reused or recycled at no added cost. A reclamation plan shall be submitted in the proposal that will provide directions for the reclamation of all carpet at the job site.

1. Description of Reclamation Services: Carpet shall be removed by the successful contractor from any existing site and prepared for pickup based on the type of material and reclamation option selected. Documentation such as chain of custody must be provided for each and every job conducted under this contract during the term of the contract. Specifications for removal from the jobsite include:
   a. Removal of performance broadloom for recycling: Performance broadloom shall be rolled, palletized and secured for shipping. Cut pieces of performance broadloom shall also be acceptable, provided they are secured for shipping. Performance broadloom shall be kept dry and free from moisture damage. Rolls shall be clean of any non-carpet debris, front and back, other than ordinary soiling in normal use.
   b. Removal of Broadloom Carpet for Recycling: Rolled carpet shall not exceed six (6) feet in length x one (1) foot diameter. Width may vary from 2 feet to 12 feet. Carpet shall be accumulated and kept dry for shipping and processing.

I. Other Items: Where recyclability classification of any given waste material is unclear, verify with the Construction Quality Manager.

3.4 DISPOSAL OF NON-RECYCLABLE WASTE

A. General: Except for items or materials to be salvaged, recycled, or otherwise reused, remove waste materials from Project site and legally dispose of them in a landfill or incinerator acceptable to authorities having jurisdiction.

1. Except as otherwise specified, do not allow waste materials that are to be disposed of accumulate on-site.
2. Collect and segregate non-recyclable waste for delivery to a permitted landfill site.
3. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.

B. Burning: Do not burn waste materials.

C. Disposal: Transport waste materials off Owner's property and legally dispose of them.

END OF SECTION

SECTION 017700
CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Closeout Procedures.
   2. Comprehensive (Punch) List.
   3. Substantial Completion Procedures.
   4. Final Completion Procedures.
   5. Repair and Replacement of Work.
   6. Final Cleaning.
   7. Instruction and Training.

1.2 ACTION SUBMITTALS

A. Product Data: For cleaning agents.

B. Contractor's List of Incomplete Items (Punch List): Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.
   1. Submit list as Microsoft Excel electronic file. Architect will return annotated file.
   2. Submit initial punch list at Substantial Completion and final certified list at Final Completion.
   3. Organize list of spaces in sequential order.
   4. Organize items applying to each space by major element, including categories for ceiling, individual walls, floors, equipment, and building systems.

1.3 INFORMATIONAL SUBMITTALS

A. Instruction Program: Submit outline of instructional program for demonstration and training, including a list of training modules and a schedule of proposed dates, times, length of instruction time, and instructors' names for each training module. Include learning objective and outline for each training module. Indicate proposed training modules using manufacturer-produced demonstration and training video recordings for systems, equipment, and products in lieu of video recording of live instructional module.

1.4 CLOSEOUT PROCEDURES AND SUBMITTALS

A. General Closeout Requirements: Comply with General and Supplemental Conditions of the Contract for Construction.

B. Procedures Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
   1. Advise Owner of pending insurance changeover requirements.
   2. Make final changeover of permanent locks and deliver keys to Owner. Advise Owner's personnel of changeover in security provisions.
   3. Complete startup and testing of systems and equipment.
   4. Perform preventive maintenance on equipment used prior to Substantial Completion.
   5. Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems. Submit demonstration and training video recordings.
   6. Advise Owner of changeover in heat and other utilities.
   7. Participate with Owner in conducting inspection and walkthrough with local emergency responders.
   8. Terminate and remove temporary facilities from Project site, along with mockups, construction tools, and similar elements.
   9. Complete final cleaning requirements, including touchup painting.

10. Touch up and otherwise repair and restore marred exposed finishes to eliminate visual defects.
11. Temporary Door Hardware and Keys: At time of Substantial Completion, just prior to occupancy, replace construction cores and install permanent cores in locks. Thereafter, access to spaces will be provided by the Owner.
12. Identification of Equipment: Provide identification tags or plates, or other identification means, as specified under Technical Sections of Specifications, such as at valves, panelboards and similar items.

C. Submittals Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
   1. Certificates of Release: Obtain and submit releases from authorities having jurisdiction permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.
   2. Submit closeout submittals specified in Section 017800, including project record documents, operation and maintenance manuals, final completion construction documentation, damage or settlement surveys, property surveys, and similar final record information.
   3. Submit closeout submittals specified in individual Sections, including specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.
   4. Demonstration and Training Video Recordings and Transcripts: Submit two copies within seven days of end of each training module.
   5. Submit maintenance material submittals specified in individual Sections, including tools, spare parts, extra materials, and similar items, and deliver to location designated by Owner.
   6. Submit test/adjust/balance records.
   7. Submit sustainable design submittals not previously submitted.
   8. Submit changeover information related to Owner's occupancy, use, operation, and maintenance.

D. Comprehensive (Punch) List: Prepare and submit a list of items to be completed and corrected, indicating the value of each item on the list and reasons why the Work is incomplete.

E. Inspection: Submit a written request for inspection to determine Substantial Completion a minimum of 10 days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Architect[and Construction Manager] will either proceed with inspection or notify Contractor of unfulfilled requirements.
   1. Architect will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Architect, that must be completed or corrected before certificate will be issued.
   2. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.
   3. Results of completed inspection will form the basis of requirements for final completion.

F. Incomplete Work: After Substantial Completion, expedite completion of remaining Work in a efficient manner that maintains quality standards, and as follows:
   1. Coordinate and Schedule work in advance with Owner.
   2. Perform Work in occupied spaces when space is not in use, such as after hours in administrative areas or public spaces when public use hours are over for the day, unless otherwise approved by the Owner.
   3. Perform Work in occupied areas in a manner and at such time as will not significantly interfere with, hamper or inconvenience Owner's program or functions.
   4. When necessary, use overtime to accomplish work not able to be completed during normal work hours at no extra cost to the Owner.

G. Submittals Prior to Final Completion: Before requesting final inspection for determining final completion, complete the following:
   1. Submit a final Application for Payment according to Section 012900 - Payment Procedures.

2. Certified List of Incomplete Items: Submit certified copy of Architect's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Architect. Certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.
3. Certificate of Insurance: Submit evidence of final, continuing insurance coverage complying with insurance requirements.
4. Submit pest-control final inspection report.

H. Final Inspection: Submit a written request for final inspection to determine acceptance a minimum of 10 days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Architect[and Construction Manager] will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.
   1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.

PART 2 - PRODUCTS

Not Used

PART 3 - EXECUTION

3.1 REPAIR AND REPLACEMENT

A. Complete repair and restoration operations before requesting inspection for determination of Substantial Completion.

B. Repair or remove and replace defective construction. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment. Where damaged or worn items cannot be repaired or restored, provide replacements. Remove and replace operating components that cannot be repaired. Restore damaged construction and permanent facilities used during construction to specified condition.
   1. Remove and replace chipped, scratched, and broken glass, reflective surfaces, and other damaged transparent materials.
   2. Touch up and otherwise repair and restore marred or exposed finishes and surfaces. Replace finishes and surfaces that that already show evidence of repair or restoration.
      a. Do not paint over "UL" and other required labels and identification, including mechanical and electrical nameplates. Remove paint applied to required labels and identification.
   3. Replace parts subject to operating conditions during construction that may impede operation or reduce longevity.
   4. Replace burned-out bulbs, bulbs noticeably dimmed by hours of use, and defective and noisy starters in fluorescent and mercury vapor fixtures to comply with requirements for new fixtures.

3.2 FINAL CLEANING

A. Final Cleaning, General: Perform other cleaning as required to turn the Project over to the Owner in new, well maintained condition, ready for full use and occupancy. Leave Project clean and ready for occupancy.
   1. Complete Final Cleaning operations before requesting inspection for certification of Substantial Completion
   2. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.
   3. Remove construction waste, dirt and debris, packaging materials and other construction waste, as well as recyclable materials in accordance with Section 017420 - Construction Waste Disposal and Recycling.
   4. Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an typical commercial building cleaning and maintenance program.

5. Comply with manufacturer's written instructions for cleaning installed products and materials.
6. Contractor is responsible for entire scope of final cleaning.
   a. Coordinate final cleaning operations executed by subcontracts.
7. Remove tools, construction equipment, machinery, and surplus material from Project site.
8. Provide other cleaning as required in individual specification Sections.
9. Clean areas made dirty by work done after Substantial Completion so building is clean as specified prior to Final Completion.

B. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.
   1. Use cleaning products that comply with Green Seal's GS-37, or if GS-37 is not applicable, use products that comply with the California Code of Regulations maximum allowable VOC levels.

C. Project Site: Clean Project site, yard, and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and other foreign substances.
   1. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.
   2. Rake grounds that are neither planted nor paved to a smooth, even-textured surface.

D. General Construction: Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
   1. Remove debris and surface dust from limited access spaces, including roofs, plenums, shafts, trenches, equipment vaults, manholes, attics, and similar spaces.
   2. Sweep concrete floors broom clean in unoccupied spaces.
   3. Vacuum carpet and similar soft surfaces, removing debris and excess nap; clean according to manufacturer's recommendations if visible soil or stains remain.
   4. Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compounds and other noticeable, vision-obscuring materials. Polish mirrors and glass, taking care not to scratch surfaces.
   5. Floors (including concrete) must be free of stains and discoloration
   6. Hardware: Adjust and polish as needed

E. Building Systems: Clean HVAC, plumbing and electrical equipment, fixtures, ductwork and piping, in rooms and in other locations where left exposed to view.
   1. Interiors of electrical cabinets, panelboards and other equipment.
   2. Clean light fixtures, lamps, globes, and reflectors to function with full efficiency.
   3. Clean plumbing fixtures to a sanitary condition and free of stains.
   4. Replace disposable air filters and clean permanent air filters. Clean exposed surfaces of diffusers, registers, and grills.
   5. Remove labels that are not permanent. Do not remove labels specifically designated to remain as part of listed, rated or labeled item.
   6. Clean ducts, blowers, and coils if units were operated without filters during construction or that display contamination with particulate matter on inspection.
      a. Clean HVAC system in compliance with NADCA Standard 1992-01. Provide written report on completion of cleaning.

3.3 INSTRUCTION PROGRAM

A. Instruction Program: Engage instruction facilitator to develop and facilitate an instruction program including assemblage of training manuals and on-site training modules for each building system and for equipment not part of a system.
   1. Facilitator: Engage qualified firm or individual experienced in training maintenance personnel similar in content and extent to that indicated for this Project. Facilitator will prepare instruction program and training modules, coordinate instructors and manufacturers' representatives, and coordinate between Contractor and Owner for number of participants, instruction times, and location

2. Instructors: Engage factory-authorized service representatives or otherwise qualified instructors to instruct Owner's personnel to adjust, operate, and maintain systems, subsystems, and equipment not part of a system.

B. Instruction Materials: Assemble educational materials necessary for instruction, including training manuals organized in coordination with requirements in Section 017800 - Closeout Submittals.

C. Training Modules: Develop learning objectives and instruction outlines for each module. Include descriptions of specific skills and knowledge that participant is expected to master. Include the following module topics:
   1. Basis of system design, description of subsystems and equipment.
   2. Operating standards and regulatory requirements, performance curves and limiting conditions.
   3. Operational requirements, typical and special operations, startup and shutdown, emergency procedures.
   4. Adjustments, testing, troubleshooting, diagnostics, inspections, maintenance, cleaning, and repair.
   5. Review of operations and maintenance manuals, as well as maintenance service agreements.

D. Demonstration and Training Videos: Engage a qualified commercial videographer to record demonstration and training video recordings. Record each training module separately. Include classroom instructions and demonstrations, board diagrams, and other visual aids, but not student practice.
   1. Video Electronic Media: Read-only format acceptable to Owner, with commercial-grade graphic label.
   2. File Names: Utilize file names based upon name of equipment generally described in video segment, as identified in Project specifications.
   3. Recording: Film training sessions in segments presenting a single significant piece of equipment per segment.
   4. Transcript: Prepared in PDF electronic format. Include a cover sheet with same label information as the corresponding video recording and a table of contents with links to corresponding training components. Include name of Project and date of video recording on each page.

END OF SECTION

This page intentionally left blank.

SECTION 017800
CLOSEOUT SUBMITTALS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Operation and Maintenance Manuals.
   2. Warranties and Guarantees.
   3. Project Record Documents.
   4. Maintenance Materials.

1.2 OPERATION AND MAINTENANCE MANUAL PROCEDURES

A. Submittal of Manuals: Comply with Section 017700 - Closeout Procedures for schedule for submitting operation and maintenance documentation.
   1. Initial Manual Submittal: Submit draft copy of each manual at least 30 days before commencing demonstration and training. Architect and Commissioning Authority will comment on whether general scope and content of manual are acceptable.
      a. Architect and Commissioning Authority will comment on whether content of operations and maintenance submittals are acceptable.
      b. Where applicable, clarify and update reviewed manual content to correspond to revisions and field conditions.
   2. Final Manual Submittal: Submit each manual in final form prior to requesting inspection for Substantial Completion and at least 15 days before commencing demonstration and training. Architect and Commissioning Authority will return copy with comments.
      a. Correct or revise each manual to comply with Architect's and Commissioning Authority's comments. Submit copies of each corrected manual within 15 days of receipt of Architect's and Commissioning Authority's comments and prior to commencing demonstration and training.

B. Electronic PDF File Format: Submit manuals in the form of a multiple file composite electronic PDF file for each manual type required.
   1. Assemble each manual into a composite electronically indexed (bookmarked) PDF file.
   2. Name each indexed document file with applicable item name.
   3. Include a complete electronically linked operation and maintenance directory.
   4. Enable inserted reviewer comments on initial manual submittals.
   5. Use electronic files prepared by manufacturer where available. Where scanning of paper documents is required, configure scanned file for minimum readable file size.
   6. File Names and Bookmarks: Enable bookmarking of individual documents based on file names. Name document files to correspond to system, subsystem, and equipment names used in manual directory and table of contents. Group documents for each system and subsystem into individual composite bookmarked files, then create composite manual, so that resulting bookmarks reflect the system, subsystem, and equipment names in a readily navigated file tree. Configure electronic manual to display bookmark panel on opening file.

C. Paper Copy: Submit two manuals in the form of hard copy, bound and labeled volumes.
   1. Binders: Heavy-duty, three-ring, vinyl-covered, loose-leaf binders, in thickness necessary to accommodate contents, sized to hold 8-1/2-by-11-inch paper; with clear plastic sleeve on spine to hold label describing contents and with pockets inside covers to hold folded oversize sheets.
      a. If two or more binders are necessary to accommodate data of a system, organize data in each binder into groupings by subsystem and related components. Cross-reference other binders if necessary to provide essential information for proper operation or maintenance of equipment or system.
      b. Identify each binder on front and spine, with printed title "OPERATION AND MAINTENANCE MANUAL," Project title or name. Indicate volume number for multiple-volume sets.

2. Dividers: Heavy-paper dividers with plastic-covered tabs for each section of the manual. Mark each tab to indicate contents. Include typed list of products and major components of equipment included in the section on each divider, cross-referenced to Specification Section number and title of Project Manual.
3. Drawings: Attach reinforced, punched binder tabs on drawings and bind with text.
    a. If oversize drawings are necessary, fold drawings to same size as text pages and use as foldouts.
    b. If drawings are too large to be used as foldouts, fold and place drawings in labeled envelopes and bind envelopes in rear of manual. At appropriate locations in manual, insert typewritten pages indicating drawing titles, descriptions of contents, and drawing locations.

1.3 OPERATION AND MAINTENANCE MANUAL CONTENT

A. Title Page: Include name and address of Project and Owner; date of submittal; project directory including Contractor, Construction Manager, Architect, Commissioning Authority, and Major Consultants.

B. Table of Contents: Prepare a single, comprehensive table of contents for all volumes in set, listing each product included in manual, identified by product name, indexed to the content of the volume, and cross-referenced to Specification Section number in Project Manual.

C. Organize each manual into a separate section for each product, equipment, system and subsystem. Organize into sets of manageable size. If possible, assemble instructions for subsystems, equipment, and components of one system into a single binder.
    1. System, subsystem, and equipment descriptions.
    2. Performance and design criteria
    3. Operating standards, procedures and logs.
    4. Wiring, piping, and control diagrams.
    5. License requirements including inspection and renewal dates.
    6. Other operation data required in individual Specifications Sections.

D. Source Information: Engage a manufacturer’s service representative to assemble and prepare information for each system, subsystem, and piece of equipment not part of a system. List each product, system, subsystem, and piece of equipment included in manual, identified by product name and arranged to match manual's table of contents. For each product, list name, address, and telephone number of Installer or supplier and maintenance service agent.

E. Maintenance Documentation: For Manufacturer’s standard maintenance procedures, including: test and inspection instructions, troubleshooting guide; aligning, adjusting, and checking instructions; maintenance and service schedules. Drawings, diagrams, and instructions required for maintenance, including disassembly and component removal, replacement, and assembly. Identification and nomenclature of parts and components.

F. Diagrams: Prepare drawings supplementing manufacturers' printed data to illustrate the relationship of component parts of equipment and systems and to illustrate control sequence and flow diagrams. Coordinate these drawings with information contained in record Drawings to ensure correct illustration of completed installation.

G. Emergency Procedures: Assemble a complete set of emergency information indicating procedures for use by emergency personnel and by Owner's operating personnel for types of emergencies procedures as follows:
    1. Instructions on stopping.
    2. Shutdown instructions for each type of emergency.
    3. Operating instructions for conditions outside normal operating limits.
    4. Required sequences for electric or electronic systems.
    5. Special operating instructions and procedures.

H. Warranties and Bonds: Include copies of warranties and bonds and lists of circumstances and conditions that would affect validity of warranties or bonds.
    1. Include procedures to follow and required notifications for warranty claims.

I. Warranties: Submit written warranties on request of Architect for designated portions of the Work where commencement of warranties other than date of Substantial Completion is indicated, or when delay in submittal of warranties might limit Owner's rights under warranty.

1. Partial Occupancy: Submit executed warranties within 15 days of completion of designated portions of the Work that are completed and occupied or used by Owner during construction period by separate agreement with Contractor.
2. Paper Copy: Bind warranties and bonds in heavy-duty, three-ring binders, separated with labelled tabbed divider sheets.
3. Warranty Electronic File: Scan warranties and bonds and assemble complete warranty and bond submittal package into a single indexed electronic PDF file with links enabling navigation to each item. Provide bookmarked table of contents at beginning of document.
4. Organize warranty documents into an orderly sequence based on the table of contents of Project Manual.
5. Provide description of the product or installation, including the name of the product and the name, address, and telephone number of Installer.
6. Provide additional copies of each warranty to include in operation and maintenance manuals.

1.4 PROJECT RECORD DOCUMENTS

A. At completion of Contract, provide Record Set of documents in accordance with General and Supplemental Conditions of the Contract for Construction.

B. Maintenance of Record Documents and Samples: Store record documents and Samples in the field office apart from the Contract Documents used for construction. Do not use project record documents for construction purposes. Maintain record documents in good order and in a clean, dry, legible condition, protected from deterioration and loss. Provide access to project record documents for Architect's reference during normal working hours.

C. Record Drawing Digital Data Files: Immediately before inspection for Certificate of Substantial Completion, review marked-up record prints with Architect. When authorized, prepare a full set of corrected digital data files of the Contract Drawings, as follows:

1. Format: Annotated PDF electronic file with comment function enabled.
2. Incorporate changes and additional information previously marked on record prints. Delete, redraw, and add details and notations where applicable.
3. Refer instances of uncertainty to Architect for resolution.

D. Record Drawing Prints: Mark record prints to show the actual installation where installation varies from that shown originally. Require individual or entity who obtained record data, whether individual or entity is Installer, subcontractor, or similar entity, to provide information for preparation of corresponding marked-up record prints.

1. Include information cut and pasted into appropriate location of documents to reference change, adjustment, or clarification. Type of information to be recorded on record set includes but is not limited to:
   a. Addendum items sent during bidding
   b. Changes, deviations or revisions made, except minor or non-critical dimensions, including those made by Change Order or Supplementary Instructions.
   c. Accepted submittals including shop drawings, product data and samples.
   d. Omissions, including work omitted by accepted alternates.
   e. Dimensioned locations of major or main utility lines, such as main conduit runs, piping mains and similar work.
   f. Locations of control valves.
   g. Additions to the work.
   h. Changes in significant details.
   i. Changed footing or other elevations.
   j. Locations of electrical home run boxes, including circuit numbers and panel designations for each box.
   k. Coordination drawings.
   l. Changes in locations of panelboards, outlets, drains, piping, openings, dampers and similar features.

m. Other similar data.

E. Record Specifications: Submit record Specifications as annotated PDF electronic file.
   1. Indicate proprietary name and model number of products, materials, and equipment furnished, including substitutions and product options selected. Record the name of manufacturer, supplier, Installer, and other information necessary to provide a record of selections made.

F. Record Product Data: Submit record Product Data as annotated PDF electronic file. Include record Product Data directory organized by specification section number and title, electronically linked to each item of record Product Data.

PART 2 - PRODUCTS

2.1 MAINTENANCE MATERIALS

A. Schedule of Maintenance Materials: Prepare and submit schedule of maintenance materials, Indicate name and quantity of each item, and name and number of related Specification Section.

B. Maintenance Material Submittal: Prior to final completion, deliver maintenance materials, including extra materials, spare parts, special tools and equipment keys as required in project Specifications and in accordance with written agreement between Owner and Contractor.
   1. Coordinate with Owner and review Owner’s requests for extra materials, as applicable.
   2. Prior to delivery, label each item with manufacturer's name and model number, as applicable.
   3. Coordinate with Owner for delivery schedule and storage location.
   4. Obtain signature from Owner’s authorized personnel for receipt of submittals.

PART 3 - EXECUTION

Not Used

END OF SECTION

SECTION 017900
DEMONSTRATION AND TRAINING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for instructing Owner's personnel, including the following:
   1. Demonstration of operation of systems, subsystems, and equipment.
   2. Training in operation and maintenance of systems, subsystems, and equipment.
   3. Demonstration and training video recordings.

1.2 INFORMATIONAL SUBMITTALS

A. Instruction Program: Submit outline of instructional program for demonstration and training, including a list of training modules and a schedule of proposed dates, times, length of instruction time, and instructors' names for each training module. Include learning objective and outline for each training module.
   1. Indicate proposed training modules using manufacturer-produced demonstration and training video recordings for systems, equipment, and products in lieu of video recording of live instructional module.

B. Attendance Record: For each training module, submit list of participants and length of instruction time.

C. Evaluations: For each participant and for each training module, submit results and documentation of performance-based test.

1.3 CLOSEOUT SUBMITTALS

A. Demonstration and Training Video Recordings: Submit two copies within seven days of end of each training module.
   1. Identification: On each copy, provide an applied label with the following information:
      a. Name of Project.
      b. Name and address of videographer.
      c. Name of Architect.
      d. Name of Construction Manager.
      e. Name of Contractor.
      f. Date of video recording.
   2. Transcript: Prepared in PDF electronic format. Include a cover sheet with same label information as the corresponding video recording and a table of contents with links to corresponding training components. Include name of Project and date of video recording on each page.
   3. At completion of training, submit complete training manual(s) for Owner's use prepared and bound in format matching operation and maintenance manuals and in PDF electronic file format.

1.4 QUALITY ASSURANCE

A. Facilitator Qualifications: A firm or individual experienced in training or educating maintenance personnel in a training program similar in content and extent to that indicated for this Project, and whose work has resulted in training or education with a record of successful learning performance.

B. Instructor Qualifications: A factory-authorized service representative experienced in operation and maintenance procedures and training.

C. Videographer Qualifications: A professional videographer who is experienced photographing demonstration and training events similar to those required.

D. Preinstruction Conference: Conduct conference at Project site. Review methods and procedures related to demonstration and training including, but not limited to, the following:
   1. Inspect and discuss locations and other facilities required for instruction.
   2. Review and finalize instruction schedule and verify availability of educational materials, instructors' personnel, audiovisual equipment, and facilities needed to avoid delays.
   3. Review required content of instruction.
   4. For instruction that must occur outside, review weather and forecasted weather conditions and procedures to follow if conditions are unfavorable.

1.5 COORDINATION

A. Coordinate instruction schedule with Owner's operations. Adjust schedule as required to minimize disrupting Owner's operations and to ensure availability of Owner's personnel.

B. Coordinate instructors, including providing notification of dates, times, length of instruction time, and course content.

C. Coordinate content of training modules with content of approved emergency, operation, and maintenance manuals. Do not submit instruction program until operation and maintenance data has been reviewed and approved by Architect.

PART 2 - PRODUCTS

2.1 INSTRUCTION PROGRAM

A. Program Structure: Develop an instruction program that includes individual training modules for each system and for equipment not part of a system.

B. Training Modules: Develop a learning objective and teaching outline for each module. Include a description of specific skills and knowledge that participant is expected to master. For each module, include instruction for the following as applicable to the system, equipment, or component:
   1. Basis of System Design, Operational Requirements, and Criteria: Include the following:
      a. System, subsystem, and equipment descriptions.
      b. Performance and design criteria if Contractor is delegated design responsibility.
      c. Operating standards.
      d. Regulatory requirements.
      e. Equipment function.
      f. Operating characteristics.
      g. Limiting conditions.
      h. Performance curves.
   2. Documentation: Review the following items in detail:
      a. Emergency manuals.
      b. Operations manuals.
      c. Maintenance manuals.
      d. Project record documents.
      e. Identification systems.
      f. Warranties and bonds.
      g. Maintenance service agreements and similar continuing commitments.
   3. Emergencies: Include the following, as applicable:
      a. Instructions on meaning of warnings, trouble indications, and error messages.
      b. Instructions on stopping.
      c. Shutdown instructions for each type of emergency.
      d. Operating instructions for conditions outside of normal operating limits.
      e. Sequences for electric or electronic systems.
      f. Special operating instructions and procedures.
   4. Operations: Include the following, as applicable:
      a. Startup procedures.
      b. Equipment or system break-in procedures.
      c. Routine and normal operating instructions.

d. Regulation and control procedures.
e. Control sequences.
f. Safety procedures.
g. Instructions on stopping.
h. Normal shutdown instructions.
i. Operating procedures for emergencies.
j. Operating procedures for system, subsystem, or equipment failure.
k. Seasonal and weekend operating instructions.
l. Required sequences for electric or electronic systems.
m. Special operating instructions and procedures.

5. Adjustments: Include the following:
   a. Alignments.
   b. Checking adjustments.
   c. Noise and vibration adjustments.
   d. Economy and efficiency adjustments.
6. Troubleshooting: Include the following:
   a. Diagnostic instructions.
   b. Test and inspection procedures.
7. Maintenance: Include the following:
   a. Inspection procedures.
   b. Types of cleaning agents to be used and methods of cleaning.
   c. List of cleaning agents and methods of cleaning detrimental to product.
   d. Procedures for routine cleaning
   e. Procedures for preventive maintenance.
   f. Procedures for routine maintenance.
   g. Instruction on use of special tools.
8. Repairs: Include the following:
   a. Diagnosis instructions.
   b. Repair instructions.
   c. Disassembly; component removal, repair, and replacement; and reassembly instructions.
   d. Instructions for identifying parts and components.
   e. Review of spare parts needed for operation and maintenance.

PART 3 - EXECUTION

3.1 PREPARATION

A. Assemble educational materials necessary for instruction, including documentation and training module. Assemble training modules into a training manual organized in coordination with requirements in Section 017823 - Operation & Maintenance Data.

B. Set up instructional equipment at instruction location.

3.2 INSTRUCTION

A. Facilitator: Engage a qualified facilitator to prepare instruction program and training modules, to coordinate instructors, and to coordinate between Contractor and Owner for number of participants, instruction times, and location.

B. Engage qualified instructors to instruct Owner's personnel to adjust, operate, and maintain systems, subsystems, and equipment not part of a system.
   1. Owner will furnish Contractor with names and positions of participants.

C. Scheduling: Provide instruction at mutually agreed on times. For equipment that requires seasonal operation, provide similar instruction at start of each season.
   1. Schedule training with Owner**,** with at least ten business days' advance notice.

D. Training Location and Reference Material: Conduct training on-site in the completed and fully operational facility using the actual equipment in-place. Conduct training using final operation and maintenance data submittals.

E. Cleanup: Collect used and leftover educational materials **and give to Owner.** Remove instructional equipment. Restore systems and equipment to condition existing before initial training use.

3.3 DEMONSTRATION AND TRAINING VIDEO RECORDINGS

A. General: Engage a qualified commercial videographer to record demonstration and training video recordings. Record each training module separately. Include classroom instructions and demonstrations, board diagrams, and other visual aids, but not student practice.

1. At beginning of each training module, record each chart containing learning objective and lesson outline.

B. Video: Provide minimum 640 x 480 video resolution converted to format file type acceptable to Owner, on electronic media.

1. Electronic Media: Read-only format acceptable to Owner, with commercial-grade graphic label.
2. File Hierarchy: Organize folder structure and file locations according to project manual table of contents. Provide complete screen-based menu.
3. File Names: Utilize file names based upon name of equipment generally described in video segment, as identified in Project specifications.
4. Contractor and Installer Contact File: Using appropriate software, create a file for inclusion on the Equipment Demonstration and Training Video that describes the following for each Contractor involved on the Project, arranged according to Project table of contents:
   a. Name of Contractor/Installer.
   b. Business address.
   c. Business phone number.
   d. Point of contact.
   e. E-mail address.

C. Recording: Mount camera on tripod before starting recording, unless otherwise necessary to adequately cover area of demonstration and training. Display continuous running time.

1. Film training session(s) in segments not to exceed 30 minutes.
2. Produce segments to present a single significant piece of equipment per segment.
3. Organize segments with multiple pieces of equipment to follow order of Project Manual table of contents.
4. Where a training session on a particular piece of equipment exceeds 30 minutes, stop filming and pause training session. Begin training session again upon commencement of new filming segment.

END OF SECTION

SECTION 018150
CALGREEN ENVIRONMENTAL REQUIREMENTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: CALGreen environmental requirements related to energy efficiency, water efficiency and conservation, material conservation and resource efficiency, environmental quality, and construction waste management.

1. Comply with specific CALGreen requirements for nonresidential projects as indicated on Drawings.

1.2 REFERENCES

A. 2019 California Building Standards Code, California Green Buildings Standards Code, Title 24, Part 11 (CALGreen).

1.3 ENVIRONMENTAL REQUIREMENTS

A. Mandatory Measures: Comply with CALGreen Mandatory Measures applicable to Project.

B. Requirements: Review CALGreen requirements relative to nonresidential projects as indicated in checklists on Drawings.

C. Energy Efficiency: Comply with California Energy Commission requirements.

D. Water Efficiency and Conservation: Comply with requirements for both indoor and outdoor water use.

E. VOC Content:

1. Verify adhesives comply with CALGreen Table 5.504.4.1.
2. Verify sealants comply with CALGreen Table 5.504.4.2.
3. Verify paints and coatings comply with CALGreen Table 5.504.4.3.

F. Composite Wood Products: Verify composite wood products comply with formaldehyde limits in CALGreen Table 5.504.4.5.

1.4 QUALITY ASSURANCE

A. Project Management and Coordination: Contractor to identify one person on Contractor's staff to be responsible for CALGreen issues compliance and coordination.

1. Experience: Environmental project manager to have experience relating to CALGreen building construction.
2. Responsibilities: Carefully review Contract Documents for CALGreen issues, coordinate work of trades, subcontractors, and suppliers; instruct workers relating to environmental issues; and oversee Project Environmental Goals.
3. Meetings: Discuss CALGreen Goals at the following meetings.
   a. Pre-construction meeting.
   b. Pre-installation meetings.
   c. Regularly scheduled job-site meetings.
   d. CALGreen Issues Criteria: Comply with requirements listed in CALGreen, the drawings, and specifications.

PART 2 - PRODUCTS – NOT USED

PART 3 - EXECUTION

3.1 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

A. Comply with requirements in CALGreen Section 5.408.

1. Construction Waste Management: Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.
    a. Documentation: Per Section 5.408.1.4, provide documentation that demonstrates compliance with Sections 5.408.1.1 through 5408.1.3.
2. Universal Waste: Comply with requirements of Section 5.408.2.
    a. Universal wastes include the following:
        1) Electronic devices.
        2) Batteries.
        3) Electric lamps.
        4) Mercury-containing equipment.
        5) CRTs.
        6) CRT glass.
        7) Non-empty aerosol cans.
        8) Photovoltaic modules (PV modules).
3. Excavated Soil and Land Clearing Debris: Comply with requirements of Section 5.408.3.

END OF SECTION

SECTION 024130
INTERIOR SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Demolition and removal of selected portions of building or structure.
   1. Demolition and removal of selected site elements.
   2. Salvage of existing items to be reused or recycled.
   3. Repair procedures for selective demolition operations.

1.2 INFORMATIONAL SUBMITTALS

A. Schedule of Selective Demolition Activities: Indicate the following:
   1. Detailed sequence of selective demolition and removal work, with starting and ending dates for each activity. Ensure building manager's and other tenants on-site operations are uninterrupted.
   2. Interruption of utility services. Indicate how long utility services will be interrupted.
   3. Coordination for shutoff, capping, and continuation of utility services.
   4. Use of elevator and stairs.
   5. Coordination of Owner's continuing occupancy of portions of existing building and of Owner's partial occupancy of completed Work.

1.3 QUALITY ASSURANCE

A. Skilled Mechanics: Accomplish all work of cutting, removal, demolition, relocation, patching and other restoration by using only mechanics skilled in the trade. If necessary, sublet the work to skilled contractors or subcontractors.

1.4 FIELD CONDITIONS

A. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition such that Owner's operations will not be disrupted.

B. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.

PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION

3.1 SELECTIVE DEMOLITION

A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations.
   1. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
   2. Standards: Comply with ANSI/ASSE A10.6 and NFPA 241.
   3. Hazardous Materials: Hazardous materials are present in construction to be selectively demolished. A report on the presence of hazardous materials is on file for review and use. Examine report to become aware of locations where hazardous materials are present.
      a. Do not disturb hazardous materials or items suspected of containing hazardous materials.

4. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during selective demolition, by methods and with materials so as not to void existing warranties.

B. Pre-Demolition Conference: Conduct conference at Project site.
   1. Inspect and discuss condition of construction to be selectively demolished.
   2. Review structural load limitations of existing structure.
   3. Review and finalize selective demolition schedule and verify availability of materials, demolition personnel, equipment, and facilities needed to make progress and avoid delays.
   4. Review requirements of work performed by other trades that rely on substrates exposed by selective demolition operations.
   5. Review areas where existing construction is to remain and requires protection.

C. Examination: Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
   1. Review record documents of existing construction provided by Owner. Owner does not guarantee that existing conditions are same as those indicated in record documents.
   2. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
   3. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
   4. Engage a professional engineer to perform an engineering survey of condition of building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during selective building demolition operations.
      a. Perform surveys as the Work progresses to detect hazards resulting from selective demolition activities.

D. Preparation:
   1. Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
   2. Temporary Shoring: Provide and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.
   3. Existing Services/Systems to Be Removed, Relocated, or Abandoned: Locate, identify, disconnect, and seal or cap off indicated utility services and mechanical/electrical systems serving areas to be selectively demolished.

E. Removed and Salvaged Items:
   1. Clean salvaged items.
   2. Pack or crate items after cleaning. Identify contents of containers.
   3. Store items in a secure area until delivery to Owner.
   4. Transport items to Owner's storage area designated by Owner.
   5. Protect items from damage during transport and storage.

F. Removed and Reinstalled Items:
   1. Clean and repair items to functional condition adequate for intended reuse.
   2. Pack or crate items after cleaning and repairing. Identify contents of containers.
   3. Protect items from damage during transport and storage.
   4. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.

G. Existing to Remain:
   1. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location during selective demolition and cleaned and reinstalled in their original locations after selective demolition operations are complete.

2. Existing Services/Systems to Remain: Maintain services/systems indicated to remain and protect them against damage.

H. Unused Anchorages: Remove anchorages associated with removed items. Dismantle anchorages associated with dismantled items. Patch holes created by anchorage removal or dismantling according to the requirements for new work.

I. Brick Removal: At locations indicated, carefully demolish or remove masonry work without damaging surrounding existing construction to be left in place.
   1. Maintain adjoining construction to be left in place in an undamaged condition.
   2. Notify Architect of detrimental conditions including:
      a. Voids, cracks and damaged existing masonry backup units.
      b. Rotted wood, rusted metal, and other deteriorated items.

J. Disposal: Except for items or materials indicated to be recycled, reused, salvaged, reinstalled, or otherwise indicated to remain Owner's property, remove demolished materials from Project site and legally dispose of them in an EPA-approved landfill.

K. Cleaning: Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION

This page intentionally left blank.

SECTION 057300
DECORATIVE RAILINGS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Custom ornamental handrail and guardrail assemblies (HR-1).
   2. Engineering required to comply with specified performance requirements.

1.2 COORDINATION

A. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written recommendations to ensure that shop primers and topcoats are compatible with one another.

B. Coordinate installation of anchorages for railings. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

C. Schedule installation so wall attachments are made only to completed walls. Do not support railings temporarily by any means that do not suit structural performance requirements.

1.3 ACTION SUBMITTALS

A. Product Data: Submit product data for each product used in ornamental metalwork, including finishing materials and methods.

B. Delegated Design Submittal and Shop Drawings: Where professional design services or certifications by a qualified Professional Engineer are specifically required of the Contractor by the Contract Documents, submit in accordance with the delegated design submittal requirements in Section 013300 - Submittal Procedures.

C. Calculations: Upon request from the Architect/Engineer only, submit calculations in accordance with Section 013300 - Submittal Procedures.

D. Shop Drawings:
   1. Indicate design criteria and applied loads for which the ornamental stair systems have been designed.
   2. Clearly indicate magnitude and location of all forces transferred to the primary building structure by cold-formed metal framing system. Loads shall be provided as unfactored values determined in accordance with ASCE 7-10.
   3. Indicate fabrication and installation of ornamental metalwork, including plans, elevations and details of components and attachments to other units of work. Indicate materials, profiles of each ornamental metalwork member and fitting, joinery, finishes, fasteners, anchorages and accessory items.
   4. Include setting drawings, templates and directions for location and installation of items and anchor bolts and other anchorage devices to be installed as unit of work of other sections.

E. Fabrication Samples: Assembled Samples of railing systems, made from full-size components, including top rail, post, handrail, and infill. Prepare samples of metal of same alloy and gauge to be used for Work. Fabrication shall include the following components:
   1. All vertical and horizontal rails.
   2. Welded and brazed connections.
   3. Fittings and brackets.
   4. Infill panels.

1.4 INFORMATIONAL SUBMITTALS

A. Installer's Certificate: Signed by manufacture certifying the welders comply with requirements specified under Quality Assurance article.

1.5 QUALITY ASSURANCE

A. Fabricator Qualifications: Firm experienced in successfully producing ornamental metalwork similar to that indicated for this Project, with sufficient production capacity to produce required units without causing delay in Work.

B. Installer Qualifications: Arrange for installation of ornamental metalwork specified in this section by same firm that fabricated unit.

C. Qualify welding processes and welding operators in accordance with the following:
   1. AWS D1.1 Structural Welding Code - Steel.
   2. AWS D1.6, "Structural Welding Code - Stainless Steel."
   3. Certify that each welder employed in unit of work of this section has satisfactorily passed AWS qualification tests for welding processes involved and, if pertinent, has undergone recertification.
   4. Testing for recertification is Contractor’s responsibility.

D. Mockups: Build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for fabrication and installation.
   1. Build full-height mockups, not less than 24 inches long; consisting of two posts, top rail, infill panels and anchorage components; as applicable for each of the following DEC RAIL configurations:
      a. (DEC RAIL-_):
   2. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.6 PROJECT CONDITIONS

A. Field Measurements: Verify actual locations of walls and other construction contiguous with railings by field measurements before fabrication and indicate measurements on Shop Drawings.

PART 2 - PRODUCTS

2.1 STRUCTURAL DESIGN REQUIREMENTS

A. Engineering Responsibility: Engage a qualified Professional Engineer to provide delegated design services in accordance with Section 013300 - Submittal Procedures

B. Structural Performance of Handrails and Railings: Provide handrails and railings capable of withstanding following structural loads without exceeding allowable design working stress of materials for handrails, railings, anchors, and connections:
   1. Top Rails of Guards and Handrails Not Serving as Top Rails:
      a. Concentrated load of 200 lbf applied at any point and in any direction.
      b. Linear (Uniform) load of 50 lbf/ft. applied in any direction.
      c. Linear and concentrated loads need not be assumed to act concurrently.
   2. Intermediate Rails, Balusters and Panel Fillers: Capable of withstanding a horizontally applied normal load of 50 pounds over 1 square foot, not concurrent with other loads.

C. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes acting on exterior metal fabrications by preventing buckling, opening of joints, overstressing of components, failure of connections, and other detrimental effects.
   1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

2.2 DECORATIVE RAILINGS SCHEDULE

A. (DEC RAIL) Dimensions and Configurations: As shown on Drawings and as described below.

B. (DEC RAIL-1) Handrail at Lobby Stair: Clear, straight-grained hardwood rails secured to recessed metal spline, anchored to wall & to guardrail (ORN RAIL-3).
   1. Steel Finish: Shop-primed for high-performance coating (HPC).
   2. Wood Species and Finish: WD-1 in accordance with Section 064000 - Architectural Woodwork.
   3. Provide concealed fasteners for interconnecting railing components and for attaching railings to other work. At exposed connections, finish exposed welds to comply with NOMMA's "Voluntary Joint Finish Standards" for Type 1 welds; no evidence of a welded joint.

C. (DEC RAIL-3) Interior Guardrail:
   1. Top Rail: Steel bar.
   2. Bottom Rail: Steel bar.
   3. Vertical Pickets: Steel bar, square corners.
   4. Mounting: Side of curb/wall.
   5. Finish: Shop-primed for high-performance coating (HPC).

D. (DEC RAIL-4) Exterior Handrail, Ground-Mounted
   1. Handrail: Galvanized steel bar.
   2. Posts: Galvanized steel bar.
   3. Mounting: As shown.
   4. Finish: Shop-primed for high-performance coating (HPC).

E. (DEC RAIL-5) Interior Plate Guardrail with Handrail:
   1. Guardrail: 1/2-inch thick steel plate.
   2. Handrail: Steel pipe, bracket as shown..
   3. Mounting: As shown.
   4. Finish: Shop-primed for high-performance coating (HPC-10).

F. (DEC RAIL-6) Interior Handrail, Floor-Mounted:
   1. Handrail: Steel bar.
   2. Posts: Steel bar.
   3. Finish: Shop-primed for high-performance coating (HPC).

G. (DEC RAIL-7) Interior Handrail, Wall-Mounted:
   1. Handrail: Steel pipe.
   2. Bracket: Steel.
   3. Finish: Shop-primed for high-performance coating (HPC-6).

H. (DEC RAIL-1) Handrail at Lobby Stair: Clear, straight-grained hardwood rails secured to recessed metal spline, anchored to wall & to guardrail (ORN RAIL-3).
   1. Steel Finish: Shop-primed for high-performance coating (HPC).
   2. Wood Species and Finish: WD-1 in accordance with Section 064000 - Architectural Woodwork.
   3. Provide concealed fasteners for interconnecting railing components and for attaching railings to other work. At exposed connections, finish exposed welds to comply with NOMMA's "Voluntary Joint Finish Standards" for Type 1 welds; no evidence of a welded joint.

I. (DEC RAIL-1) Solid Hardwood Toprail:
   1. Top Rail: Straight-grained Hardwood (WD-2) on continuous, recessed steel subrail.
   2. Mounting:
      a. Face-mounted subrail to wall with steel brackets
      b. Subrail welded to guardrail with steel brackets.
   3. Steel Finishes: Shop-primed for (HPC) finish.

J. (DEC RAIL-2) Steel Handrail, Exterior, Galvanized:
   1. Handrail: Steel tube, galvanized.
   2. Posts: Steel posts (where indicated), galvanized.
   3. Mounting:
      a. Anchored to guardrail or APC, as shown on Drawings
   4. Steel Finishes: Galvanized and shop-primed for (HPC) finish.

K. (DEC RAIL-3) Steel Handrail, Interior Exit Stair:

1. Handrail: Steel tube.
2. Posts: Steel posts (where indicated).
3. Vertical Pickets: Steel bars.
4. Mounting:
    a. Face-mounted to wall with steel brackets
    b. Welded to guardrail with steel brackets.
5. Steel Finishes: Shop-primed for (HPC) finish.\

L. (DEC RAIL-11) Steel Guardrail, Interior:

1. Top Rail: Steel bar.
2. Bottom Rail: Steel bar.
3. Vertical Pickets: Steel bars.
4. Mounting: Stringer and floor-mounted.
5. Steel Finishes: Shop-primed for (HPC) finish.

M. (DEC RAIL-12) Steel Guardrail, Exterior:

1. Top Rail: Steel bar, galvanized.
2. Bottom Rail: Steel bar, galvanized.
3. Vertical Pickets: Steel bars, galvanized.
4. Mounting: Stringer and parapet-mounted.
5. Steel Finishes: Galvanized and shop-primed for (HPC) finish.

N. (DEC RAIL-13) Steel Under Stair Cane Rail, Interior:

1. Top Rail: Steel bar.
2. Bottom Rail: Steel bar.
3. Vertical Pickets: Steel bars.
4. Mounting: Floor-mounted.
5. Steel Finishes: Shop-primed for (HPC) finish.

O. (DEC RAIL-14) Exterior Steel Site Stair Railing:

1. Top Rail: Steel tube.
2. Posts: Steel posts (where indicated).
3. Vertical Pickets: Steel bars.
4. Mounting: Slab embedment.
5. Steel Finishes: Shop-primed for (HPC) finish.

P. (DEC RAIL-1) Handrail:

1. Rail: Stainless steel pipe, satin finish.
2. Bracket: Stainless steel; at wall-mounted and guardrail-mounted.
    a. Basis of Design:
3. Posts: Stainless steel pipe; at floor- mounted.
4. Attachment: Wall-mounted, floor-mounted, guardrail-mounted.

Q. (DEC RAIL-2) Exit Stair Guardrail:

1. Posts and Rails: 1-1/2 inch square steel tubes with square corners.
2. Infill Panel: Formed sheet/plate metal with custom perforation.
3. Attachment: As shown.
4. Steel Finishes: Shop-primed for painted finish (PT-1).

R. (DEC RAIL-3) Balcony Guardrail:

1. Posts and Rails: 1-inch by 3-inch steel tubes or bars with square corners.
2. Infill Panel: Formed sheet/plate metal with custom perforation.
3. Attachment: As shown.
4. Steel Finishes: Shop-primed for painted finish (PT-1).

S. (DEC RAIL-5) Under-stair Barrier Rail:

1. Rail: Stainless steel pipe.
2. Attachment: Floor-mounted, as shown.

T. (DEC RAIL-6) Exterior Handrails

1. Post and Rail: 1 ½" diameter 316 Stainless Steel
2. Attachment: Set handrail in 8" deep galv. Tube steel imbeds with epoxy.
3. Miter joints at corners and continuously fillet weld. Grind welds smooth.
4. Steel Finish: #4 Satin Finish

U. Gates: Form gates from steel tube of same size and shape as top rails, with infill to match guards. Provide with self-closing cam-type hinges or spring hinges for fastening to wall and overlapping stop with rubber bumper to prevent gate from opening in direction opposite egress.

2.3 MATERIALS

A. General: Provide ornamental metalwork composed of metals of forms and types which comply with requirements of referenced standards and which are free from surface blemishes where exposed to view in finished unit.
   1. Metal Surfaces, General: Provide materials with smooth surfaces, without seam marks, roller marks, rolled trade names, stains, discolorations, or blemishes.
   2. Exposed to view surfaces exhibiting pitting, seam marks, roller marks, oil canning, stains, discolorations or other imperfections on finished units are not acceptable.

B. Steel and Iron:
   1. Steel Pickets, Plates, Shapes and Bars: ASTM A36; square corners and edges.
   2. Bars: Hot-rolled, carbon steel complying with ASTM A 29, Grade 1010; square corners and edges.
   3. Steel Tubing: ASTM A500 or ASTM A 513; square corners and edges.
   4. Steel Pipe: ASTM A53, Type S, Grade A, standard weight and extra-strong as required, galvanized and plain.
   5. Perforated Metal Plate: Cold-rolled steel sheet, ASTM A 1008, or hot-rolled steel sheet, ASTM A 1011, commercial steel Type B.
      a. Thickness:
      b. Perforations: 1/4-inch holes 3/8 inch o.c. in staggered rows.
   6. Cast Iron: Either ASTM A 48 gray iron, or ASTM A 47 malleable iron, unless otherwise indicated.
   7. Expanded Metal: ASTM F 1267, [Type I (expanded)] [Type II (expanded and flattened)], Class 1 (uncoated).
      a. Style Designation: [3/4 number 13] [1-1/2 number 10] .
   8. Perforated Metal: Cold-rolled steel sheet, ASTM A 1008, or hot-rolled steel sheet, ASTM A 1011, commercial steel Type B, [0.060 inch] thick, [with 1/4-inch holes 3/8 inch o.c. in staggered rows].
   9. Perforated Metal: Galvanized-steel sheet, ASTM A 653, G90 coating, commercial steel Type B, [0.064 inch] thick, [with 1/4-inch holes 3/8 inch o.c. in staggered rows] [with 1/8-by-1-inch round end slotted holes in staggered rows].
   10. Woven-Wire Mesh: Intermediate-crimp, [diamond] [square] pattern, 2-inch woven-wire mesh, made from 0.135-inch nominal diameter wire complying with ASTM A 510.

C. Stainless Steel: Provide austenitic stainless steel in form indicated complying with following requirements.
   1. Tubing: ASTM A554, Grades MT 301, MT 302, or MT 304, as standard with manufacturer.
   2. Pipe: ASTM A167, Type [304] [316], 16 gauge.
   3. Bar Stock: ASTM A276,
   4. Provide stainless steel fasteners where indicated and where dissimilar metals are connected. Where dissimilar metals are connected, provide neoprene spacer or washer for isolation.

D. Stainless Steel: Provide austenitic stainless steel in form indicated complying with following requirements. Provide passivate exterior stainless steel where required.
   1. Plate and Sheet: ASTM A 666, Type [304] [316].
   2. Tubing: ASTM A554, Grades MT 301, MT 302, or MT 304.
   3. Pipe: ASTM A167, Type 304, 16 gauge.
   4. Bar Stock: ASTM A276.
   5. Fasteners: Type 316 stainless-steel fasteners.

E. Stainless Steel Wire Rope and Fittings:
   1. Wire Rope: [1-by-19] [7-by-7] [7-by-19] <Insert configuration> wire rope made from wire complying with ASTM A 492, Type 316.
   2. Wire-Rope Fittings: Connectors of types indicated, fabricated from stainless steel, and with capability to sustain, without failure, a load equal to minimum breaking strength of wire rope with which they are used.

F. Make up wire-rope assemblies in the shop to field-measured dimensions with fittings machine swaged. Minimize amount of turnbuckle take-up used for dimensional adjustment so maximum amount is available for tensioning wire ropes. Tag wire-rope assemblies and fittings to identify installation locations and orientations for coordinated installation.

G. Hardwood for Railings: (WD-1) as specified in Section 064000 - Architectural Woodwork.

2.4 GLASS RAILING

A. (DEC RAIL-__) Glass Guardrail.
   1. Glass: 1/2-inch thick tempered glass.
   2. Mounting: Aluminum channel shoe, clear anodized finish.
   3. Top Edge Cap: Continuous stainless steel channel cap at top of glass.

B. Clear Tempered Glass: 1/2 inch thickness; comply with ASTM C1036, Type I (transparent glass, flat), Class 1 (clear), Quality q3 (glazing select), and further processed to comply with ASTM C1048, Kind FT (fully tempered).
   1. Glass Fabrication: Fabricate to sizes and shapes required; provide for proper edge clearance and bite on glazing panels.
      a. Clean-cut or flat-grind edges at butt-glazed sealant joints to produce square edges with slight chamfers at junctions of edges and faces
      b. Grind smooth and polish exposed edges, including those at open joints, to produce square edges with slight chamfers at junctions of edges and faces.

C. Aluminum Channel for Glass Guardrails: Provide alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, and with strength and durability properties for each aluminum form required not less than that of alloy and temper designated below.
   1. Extruded Bars and Shapes: ASTM B 221, Alloy 6063-T5/T52.

D. (DEC RAIL-1) Glass Guardrail, Bronze Cladding and Bronze Top Rail:
   1. (GL-1T) Glass: 1/2” thick, ultra-clear, fully-tempered safety glass, as specified in Section 088000 - Glazing.
      a. Clean-cut or flat-grind edges at butt-glazed sealant joints to produce square edges with slight chamfers at junctions of edges and faces, grind smooth exposed edges, including those at open joints, to produce square edges with slight chamfers at junctions of edges and faces.
   2. Bronze Cladding and Top Rail: ASTM B 36, Alloy UNS No. C28000 (muntz metal, 60 percent copper).
      a. Pre-Weathered Bronze Finish: Brushed finish with patina conversion coating.
         1) Mechanical Finish: Directional texture, satin finish as selected by Architect.
         2) Chemical Finish: Conversion coating as recommended by fabricator to achieve dark bronze finish as selected by Architect.
         3) Wax: Microcrystalline as recommended by fabricator for application.
   3. Extruded Aluminum Channel for Glass Guardrails: ASTM B 221. Provide alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, and with strength and durability properties for each aluminum form required not less than that of alloy and temper.
      a. Basis of Design: Struct-U-Rail by Livers Bronze Co..
         1) Other Manufacturers: C.R. Laurence.

E. (DEC RAIL-2) Glass Guardrail, Stainless Steel Cladding and Top Rail:
   1. (GL-2T) Glass: 1/2” thick, clear, fully-tempered safety glass, as specified in Section 088000 - Glazing.

a. Clean-cut or flat-grind edges at butt-glazed sealant joints to produce square edges with slight chamfers at junctions of edges and faces, grind smooth exposed edges, including those at open joints, to produce square edges with slight chamfers at junctions of edges and faces.

2. Stainless Steel Cladding and Top Rail: ASTM A 666, Type [304] [316].
3. Extruded Aluminum Channel for Glass Guardrails: ASTM B 221. Provide alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, and with strength and durability properties for each aluminum form required not less than that of alloy and temper.
   a. Basis of Design: Struct-U-Rail by Livers Bronze Co..
      1) Other Manufacturers: C.R. Laurence.

2.5 BRONZE HANDRAIL

A. (DEC RAIL-__) Bronze Handrail:

1. Mounting: Wall-mounted on bronze bracket or ground-mounted as indicated on Drawings.
2. Extruded Shapes, Bronze: ASTM B 455, Alloy UNS No. C38500 (architectural bronze).
3. Seamless Tube, Bronze: ASTM B 135, Alloy UNS No. C23000 (red brass, 85 percent copper).
4. Plate, Sheet, Strip, and Bars; Bronze: ASTM B 36, Alloy UNS No. C28000 (muntz metal, 60 percent copper).
5. Castings, Bronze: Composition bronze castings complying with ASTM B 62, Alloy UNS No. C83600 (85-5-5-5 or No. 1 composition commercial red brass).
6. Pre-Weathered Bronze Finish: Brushed finish with patina conversion coating.
   a. Mechanical Finish: Directional texture, satin finish as selected by Architect.
   b. Chemical Finish: Conversion coating as recommended by fabricator to achieve dark bronze finish as selected by Architect.
   c. Wax: Microcrystalline as recommended by fabricator for application.

2.6 ACCESSORIES

A. Fasteners and Anchors: Select fasteners of type, grade, and class required to produce connections suitable for anchoring railings to other types of construction indicated and capable of withstanding design loads.

1. Stainless-Steel Components: Type 316 stainless-steel fasteners.
2. Uncoated Steel Components: Plated-steel fasteners complying with ASTM B 633, Class Fe/Zn 25 for electrodeposited zinc coating where concealed; Type 304 stainless-steel fasteners where exposed.
3. Galvanized-Steel Components: Plated-steel fasteners complying with ASTM B 633, Class Fe/Zn 25 for electrodeposited zinc coating.
4. Dissimilar Metals: Provide Type 304 stainless-steel fasteners where indicated and where dissimilar metals are connected. Where dissimilar metals are connected, provide neoprene spacer or washer for isolation.

B. Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.

C. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107. Provide grout specifically recommended by manufacturer for interior and exterior applications.

D. Anchoring Cement: Factory-packaged, nonshrink, nonstaining, hydraulic-controlled expansion cement formulation for mixing with water at Project site to create pourable anchoring, patching, and grouting compound. At exterior locations, provide formulation that is resistant to erosion from water exposure without needing protection by a sealer or waterproof coating and that is recommended by manufacturer for exterior use.

2.7 FINISHING

A. Finishing, General: Comply with NAAMM "Metal Finishes Manual" for finish designations and application recommendations, except as otherwise shown and specified.

1. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipment.

2. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.
3. Fabricate with exposed surfaces smooth, square, and free of surface blemishes, including pitting, rust and scale seam marks, roller marks, rolled trade names, and roughness.
    a. Remove blemishes by filling, grinding, or by welding and grinding, prior to cleaning, treating, and shop priming.
    b. Comply with fabrication requirements, including tolerance limits, of AISC's "Code of Standard Practice for Steel Buildings and Bridges" for Architecturally Exposed Structural Steel.

B. Steel, Galvanized:

1. Hot-dip galvanize indicated steel and iron railings, including hardware, after fabrication.
2. Comply with ASTM A 123 for hot-dip galvanized railings.
3. Comply with ASTM A 153 for hot-dip galvanized hardware.
4. Do not quench or apply post-galvanizing treatments that might interfere with paint adhesion.
5. Galvanizing Touch-Up Paint: High-zinc-dust-content paint complying with SSPC-Paint 20 and compatible with paints specified to be used over it.
6. At railings to be hot-dipped galvanized after fabrication: Fill vent and drain holes that will be exposed in finished Work, unless indicated to remain as weep holes, by plugging with zinc solder and filing off smooth.
7. For galvanized railings, provide hot-dip galvanized fittings, brackets, fasteners, sleeves, and other ferrous components.
8. Preparing Galvanized Railings for Shop Priming: After galvanizing, thoroughly clean railings of grease, dirt, oil, flux, and other foreign matter, and treat with etching cleaner.
9. Primer Application: Apply shop primer to prepared surfaces of railings unless otherwise indicated. Comply with requirements in SSPC-PA 1, "Paint Application Specification No. 1: Shop, Field, and Maintenance Painting of Steel," for shop painting.
    a. Shop prime uncoated railings with universal shop primer or primers specified in Section 099000 - Painting.

C. Steel, Non-Galvanized: For nongalvanized-steel railings, provide nongalvanized ferrous-metal fittings, brackets, fasteners, and sleeves, but galvanize anchors to be embedded in exterior concrete or masonry.

1. Preparing Nongalvanized Items for Shop Priming: Prepare uncoated ferrous-metal surfaces to comply with requirements indicated below:
    a. Exterior Railings: SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
    b. Railings Indicated to Receive Zinc-Rich Primer: SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
    c. Railings Indicated to Receive Primers Specified in Section 099600 "High-Performance Coatings": SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
    d. Other Railings: SSPC-SP 7/NACE No. 4, "Brush-off Blast Cleaning."
2. Primer Application: Apply shop primer to prepared surfaces of railings unless otherwise indicated. Comply with requirements in SSPC-PA 1, "Paint Application Specification No. 1: Shop, Field, and Maintenance Painting of Steel," for shop painting.
    a. Shop prime uncoated railings with universal shop primer or primers specified in Section 099000 - Painting.

D. Shop-Applied Primer: Coordinate and comply with the following applicable specifications Sections for primer materials, surface preparation and application:

1. Paint (PT) or Epoxy Paint (PTE): Section 099000 - Painting.
2. High-Performance Coating (HPC): Section 099600 - High-Performance Coatings.

E. Powder-Coat Finish: Prepare, treat, and coat galvanized metal to comply with resin manufacturer's written instructions and as follows:

1. Prepare galvanized metal by thoroughly removing grease, dirt, oil, flux, and other foreign matter.
2. Treat prepared metal with zinc-phosphate pretreatment, rinse, and seal surfaces.

3. Apply thermosetting polyester or acrylic urethane powder coating with cured-film thickness not less than 1.5 mils.
4. Color: Custom color as selected by Architect..

2.8 FABRICATION

A. General: Fabricate railings to comply with requirements indicated for design, dimensions, member sizes and spacing, details, finish, and anchorage, but not less than that required to support structural loads.
   1. Assemble railings in the shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation. Use connections that maintain structural value of joined pieces.
   2. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.
   3. Form work true to line and level with accurate angles and surfaces.
   4. Control of Corrosion: Prevent galvanic action and other forms of corrosion by insulating metals and other materials from direct contact with incompatible materials.

B. Make up wire-rope assemblies in the shop to field-measured dimensions with fittings machine swaged. Minimize amount of turnbuckle take-up used for dimensional adjustment so maximum amount is available for tensioning wire ropes. Tag wire-rope assemblies and fittings to identify installation locations and orientations for coordinated installation.

C. Fabricate with exposed surfaces smooth, square, and free of surface blemishes, including pitting, rust and scale seam marks, roller marks, rolled trade names, and roughness.
   1. Remove blemishes by filling, grinding, or by welding and grinding, prior to cleaning, treating, and shop priming.
   2. Comply with fabrication requirements, including tolerance limits, of AISC's "Code of Standard Practice for Steel Buildings and Bridges" for Architecturally Exposed Structural Steel.

D. Connections: Fabricate railings with welded connections to greatest extent possible, and mechanical connections as necessary for fabrication and installation.
   1. Welded Connections: Comply with AWS for recommended practices in shop welding. Weld behind finished surfaces without distorting or discoloring exposed side. Clean exposed welded joints of flux, and dress exposed and contact surfaces.
      a. Grind exposed welds smooth and flush, to match and blend with adjoining surface.
      b. Discoloration of finished surfaces is not acceptable.
   2. Mechanical Connections: Connect members with concealed mechanical fasteners and fittings. Fabricate members and fittings to produce flush, smooth, rigid, hairline joints.
      a. Fabricate splice joints for field connection using an epoxy structural adhesive if this is manufacturer's standard splicing method.
      b. Cut, reinforce, drill, and tap as indicated to receive finish hardware, screws, and similar items.
   3. Fabricate connections that will be exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate. Locate weep holes in inconspicuous locations.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine gypsum board assemblies, where reinforced to receive anchors, to verify that locations of concealed reinforcements have been clearly marked for Installer. Locate reinforcements and mark locations if not already done.

3.2 INSTALLATION

A. Fit exposed connections together to form tight, hairline joints.

B. Perform cutting, drilling, and fitting required for installing railings. Set railings accurately in location, alignment, and elevation; measured from established lines and levels and free of rack.

C. Provide necessary anchors, plates, angles, hangers and struts as required for connecting stairs to the structure.

D. Ensure alignment with adjacent construction. Coordinate with related work to ensure no interruption in installation.

E. Perform necessary cutting and altering for installation of work of other sections. Do not perform any other additional cutting without review of Architect.

F. Field bolt and weld to match standard of shop bolting and welding. Hide bolts and screws whenever possible. Where not hidden, use flush countersunk fastenings, unless indicated otherwise. Make mechanically fastened joints flush hairline butted. Grind welds smooth and flush.

G. Field Welding: Comply with applicable AWS specification for procedures of manual shielded metal-arc welding, for appearance and quality of welds made, and for methods used in correcting welding work. Weld connections which are not to be left as exposed joints, but cannot be shop welded because of shipping size limitations. Grind exposed welds smooth and flush and restore finish to match finish of adjacent rail surfaces.

H. Fit exposed connections together to form tight, hairline joints.

I. Perform cutting, drilling, and fitting required for installing railings. Set railings accurately in location, alignment, and elevation; measured from established lines and levels and free of rack.
   1. Do not weld, cut, or abrade surfaces of railing components that are coated or finished after fabrication and that are intended for field connection by mechanical or other means without further cutting or fitting.
   2. Set posts plumb within a tolerance of 1/16 inch in 3 feet.
   3. Align rails so variations from level for horizontal members and variations from parallel with rake of steps and ramps for sloping members do not exceed 1/4 inch in 12 feet.

J. Control of Corrosion: Prevent galvanic action and other forms of corrosion by insulating metals and other materials from direct contact with incompatible materials.

K. Adjust railings before anchoring to ensure matching alignment at abutting joints.

L. Fastening to In-Place Construction: Use anchorage devices and fasteners where necessary for securing railings and for properly transferring loads to in-place construction.

M. Restore protective coverings that have been damaged during shipment or installation of work. Remove protective coverings only when there is no possibility of damage from other work yet to be performed at same location.
   1. Retain protective coverings intact and remove simultaneously from similarly finished items to preclude non-uniform oxidation and discoloration.

N. Expansion Joints: Provide expansion joints at locations indicated or, if not indicated, at intervals not to exceed 40 ft. Provide slip-joint internal sleeve extending 2 inches beyond joint on either side; fasten internal sleeve securely to one side, locate joint within 6 inches of post.

3.3 RAILING CONNECTIONS

A. Welded Connections: Use fully welded joints for permanently connecting railing components. Comply with requirements for welded connections in "Fabrication" Article whether welding is performed in the shop or in the field.

B. Mechanical (Nonwelded) Connections: Use mechanical or adhesive joints for permanently connecting railing components. Use wood blocks and padding to prevent damage to railing members and fittings. Seal recessed holes of exposed locking screws using plastic cement filler colored to match finish of railings.

C. Expansion Joints: Install expansion joints at locations indicated but not farther apart than required to accommodate thermal movement. Provide slip-joint internal sleeve extending 2 inches beyond joint on either side, fasten internal sleeve securely to one side, and locate joint within 6 inches of post.

3.4 ATTACHING RAILINGS

A. Fastening to In-Place Construction: Provide anchorage devices and fasteners where necessary for securing railings to in-place construction. Include threaded fasteners for concrete and masonry inserts, through-bolts, lag bolts, and other connectors.

B. Welded: Anchor posts to metal surfaces with flanges, angle type, or floor type as required by conditions, connected to posts and to metal supporting members as follows:

1. Anchor posts to steel by welding to steel supporting members.

C. Attach handrails to walls with wall brackets. Provide brackets with 1-1/2-inch clearance from inside face of handrail and finished wall surface. Locate brackets as indicated or, if not indicated, at spacing required to support structural loads. Secure wall brackets to building construction as required to comply with performance requirements and as follows:

1. For steel-framed partitions, use self-tapping screws or toggle bolts fastened to steel framing or to concealed steel reinforcements.

3.5 INSTALLED WORK

A. Glass Railings: Clean and polish glass as recommended in writing by manufacturer. Wash both exposed surfaces in each area of Project not more than four days before date scheduled for inspections that establish date of Substantial Completion.

B. Cleaning:

1. Clean aluminum and stainless steel by washing thoroughly with clean water and soap, rinsing with clean water, and wiping dry.
2. Clean copper alloys according to metal finisher's written instructions in a manner that leaves an undamaged and uniform finish matching approved Sample.
3. Clean and polish glass as recommended in writing by manufacturer. Wash both exposed surfaces in each area of Project not more than four days before date scheduled for inspections that establish date of Substantial Completion.
4. Clean wood rails by wiping with a damp cloth and then wiping dry.

C. Touchup Painting: Cleaning and touchup painting of field welds, bolted connections, and abraded areas of shop paint are specified in Section 099000 - Painting or Section 099600 - High Performance Coatings.

D. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas and repair galvanizing to comply with ASTM A 780.

E. Protect finishes of railings from damage during construction period with temporary protective coverings approved by railing manufacturer. Remove protective coverings at time of Substantial Completion.

F. Restore finishes damaged during installation and construction period so no evidence remains of correction work. Return items that cannot be refinished in the field to the shop; make required alterations and refinish entire unit, or provide new units.

END OF SECTION

This page intentionally left blank.

SECTION 061000
ROUGH CARPENTRY

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Concealed carpentry work not specified in other Sections and not used as exposed work, including:
   1. Miscellaneous wood framing and concealed wood blocking and nailers (WD BLKG-1).
   2. Anchors nails, bolts, and screws.

1.2 COORDINATION

A. Coordination: Fit carpentry work to other work; scribe and cope as required for accurate fit, show location of furring, nailers, blocking, grounds and similar supports to allow attachment of other work.
   1. Coordinate work directly with other subcontractors as necessary to insure proper fitting, joining or to clearances of other work. Obtain templates as required to insure proper fitting.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of process and factory-fabricated product. Indicate component materials and dimensions and include construction and application details.

1.4 INFORMATIONAL SUBMITTALS

A. Certificates: Submit letter certifying that lumber is kiln-dried to 15 - 19 percent moisture content, well-seasoned, grade marked, trademarked and free from warp.
   1. Pressure Treated Wood: Include data for wood-preservative treatment from chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements. Indicate type of preservative used and net amount of preservative retained.
   2. For products receiving a waterborne treatment, include statement that moisture content of treated materials was reduced to levels specified before shipment to Project site.
   3. Submit letter from treatment plant certifying that chemicals and process used and net amount of salts retained are in conformance with specified standards

B. Fire-Treated Wood: Include data for fire-retardant treatment from chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements. Include physical properties of treated materials based on testing by a qualified independent testing agency.
   1. For fire-retardant treatments, include physical properties of treated lumber both before and after exposure to elevated temperatures, based on testing by a qualified independent testing agency according to ASTM D 5664.
   2. Submit letter certifying that fire-retardant treatment materials comply with requirements herein stated and local authorities having jurisdiction and that treatment will not bleed through finished surfaces.

1.5 DELIVERY, STORAGE AND HANDLING

A. Inspect wood materials for conformance to specified grades, species, and treatment at time of delivery to Project site.
   1. Reject and return unsatisfactory wood materials.

B. Provide facilities for handling and storage of materials to prevent damage to edges, ends and surfaces.

C. Keep carpentry materials dry.
   1. Store lumber and plywood in stacks with provision for air circulation within stacks.
   2. Protect bottom of stacks against contact with damp surfaces. Protect exposed materials against weather.

3. Stack materials minimum 12 inches off ground, or if on concrete slab-on-grade, minimum 1-1/2 inches, fully protected from weather.
4. Provide for air circulation within and around stacks and under temporary coverings.

D. Place spacers between each bundle of pressure treated materials treated with waterborne chemicals to provide air circulation.

PART 2 - PRODUCTS

2.1 WOOD PRODUCTS, GENERAL

A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
   1. Factory mark each piece of lumber with grade stamp of grading agency.
   2. Where nominal sizes are indicated, provide actual sizes required by DOC PS 20 for moisture content specified. Where actual sizes are indicated, they are minimum dressed sizes for dry lumber.
   3. Provide dressed lumber, S4S, unless otherwise indicated.
   4. Species and allowable stresses to meet the requirements on drawing S001.

B. Maximum Moisture Content of Lumber: 15 percent maximum, unless otherwise indicated.

C. Lumber Standard:
   1. Comply with U.S. Dept. of Commerce Product Standard PS 20, including moisture content and actual sizes related to indicated nominal sizes.
   2. Comply with Standard Grading Rules No. 16 for West Coast Lumber.
   3. Comply with American Softwood Lumber Standard and with application grading rules of inspection agencies certified by American Lumber Standard Committee's (ALSC) Board of Review.
   4. Comply with lumber producer's inspection agency grading rules certified as conforming to "National Grading Rules for Dimension Lumber" established under Section 10 of PS 20 and local code standard.
   5. Factory-mark each piece of lumber with grade stamp of inspection agency evidencing compliance with grading rule requirements and identifying agency, grade, species, moisture content at time of surfacing and mill.
      a. Seasoning: Kiln-dry lumber to 15 - 19 percent moisture content, well-seasoned, grade marked, trademarked and free from warp.

D. Not Allowed: Products containing following materials will not be permitted:
   1. Urea Formaldehyde.
   2. Chromium in wood pressure treatment products.
   3. Arsenic.

2.2 LUMBER

A. Dimension Lumber: Finished 4 sides, 15 percent maximum moisture content. Mark lumber "S-DRY".
   1. Light Framing: Construction grade Douglas Fir or Southern Pine, appearance grades where exposed.
   2. Boards: Construction grade.

B. (WD BLKG-1) Miscellaneous Lumber: Lumber for support or attachment of other construction, including rooftop equipment curbs and support bases, cant strips, bucks, nailers, blocking, furring, grounds, stripping and similar members.
   1. Grade: No. 3 or standard grade.
   2. Moisture content of 19 percent maximum for lumber items not specified to have wood preservative treatment.

2.3 ROUGH HARDWARE, FASTENERS AND ANCHORAGE DEVICES

A. General: Provide rough hardware required, including nails, screws, bolts, lag screws, cinch anchors, toggle bolts, shot anchors and similar items . Provide proper size and type for use intended and for materials to be fastened.

1. Install adequate hardware to insure substantial and positive anchorage.
2. Use galvanized for exterior locations and high humidity locations and treated wood, plain finish for other interior locations.
3. Fasteners, hangers and bearing plates used on or in connection with treated wood shall comply with IBC 2304.9.

2.4 INSTALLATION ACCESSORIES

A. Adhesive: As recommended by manufacturer of product to be applied for surface material to give permanent adhesion, with material remaining flat to back surface. Comply with local code standards.

1. Comply with APA AFG-01 for adhesive for use with type of construction panel indicated.
2. Exterior: Phenolic resin waterproof glue.
3. Interior: Water-resistant casein and other adhesives suited for particular use.
4. Adhesive and Sealant VOC Limits: In accordance with South Coast Air Quality Management District Rule 1168 and GS-36 for aerosols. VOC Limits: As tested using U.S. EPA Reference Test Method 24 and as defined by South Coast Air Quality Management District Rules SCAQMD Rule 1168, Adhesive and Sealant Applications.

PART 3 - EXECUTION

3.1 FRAMING, NAILERS, BUCKS, CANT STRIPS

A. Install plumb, level, true and square to dimensions shown and required. Allow for finishes and proper clearances where necessary.

B. Provide sound bearing, square cuts, and full bearing surfaces. Set crown up for horizontal members. Shim and block where required.

C. Eliminate crooked, twisted, cupped or bowed framing where required.

D. Anchorage: Adequately anchor, fasten and support members to form secure, substantial and accurate anchorage and to hold required dimensions and prevent twist.

1. Use bolts and screws to eliminate loosening up of joints, sagging or similar movement.

3.2 FURRING, STRIPPING, GROUNDS AND BACKING

A. Install plumb, level, true and square. Anchor substantially for permanent installation. Set and shim to straight edge so finish wall is true and straight.

B. Provide grounds and backing as shown or required. Blocking as required or shown on drawings for plumbing fixtures, brackets, drapery rods, window and door frames, built-in furniture and other woodwork, both interior and exterior.

C. Allow for finishes and shim out to form level surfaces. Verify ground sizes and locations before installation.

END OF SECTION

This page intentionally left blank.

SECTION 064000
ARCHITECTURAL WOODWORK

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Custom-fabricated architectural woodwork.
   2. Wood Materials, General.
   3. Woodwork for Transparent Finish:
      a. Prefinished Hardwood Veneer and Solid Hardwood for Transparent Finish (WD-1).
      b. Matched Veneers for Work of this Section and Other Sections.
   4. Plastic-Laminate-Faced Cabinets and Countertops (PL)
   5. Solid Surface Fabrications (SS).
   6. Wall-Mounted Work Surfaces, Shelves on Brackets and Standards.
   7. Installation Accessories, Anchors and Adhesives.
   8. Requirements for Fabrication and Installation.

1.2 ADMINISTRATIVE REQUIREMENTS

A. Coordination: Coordinate work directly with Work of other Sections as necessary to ensure proper fitting, joining or required clearances of other work.
   1. Exchange and coordinate shop drawings and templates.
   2. Coordinate fabrication schedule.
   3. Coordinate sizes and locations of framing, blocking, furring, reinforcements, and other related units of Work specified in other Sections to ensure that cabinets can be supported and installed as indicated.

B. Veneer Selection Conference: Prior to Pre-Fabrication Conference, conduct conference at veneer supplier's site at which veneer flitches are made available to Architect to select actual flitches to be used on Project for the purpose of establishing acceptable range of aesthetic qualities, identifying flitches of consistent appearance and designating groups of flitches for specific applications and locations on Project.
   1. Attendees: Veneer supplier, woodwork Fabricator and Installer, wood door Manufacturer, Contractor, Construction Manager and Architect.

1.3 ACTION SUBMITTALS

A. Product Data: For each material and product to complete Work, including; solid hardwood, panel and veneer wood products, core materials, high-pressure decorative laminate, solid-surfacing, fire-retardant-treated materials, cabinetwork and hardware, components for wood fabrications, accessories and finishing materials.

B. Shop Drawings: Indicate dimensions, descriptions of materials and finishes, general construction, specific modifications, component connections, anchorage methods, hardware, and installation procedures, including specific requirements where indicated.
   1. Indicate materials and wood species, component profiles, fastening, jointing, details, finishes and accessories.
   2. For Work to receive matched wood veneers, show veneer leaves with dimensions, grain direction, exposed face, and identification numbers indicating the flitch and sequence within the flitch for each leaf.
   3. Show locations and sizes of furring, blocking, and hanging strips, including concealed blocking and reinforcement specified in other Sections.
   4. Indicate special requirements for field assembly and installation, including field connection locations, required clearances and tolerances.
   5. Indicate provisions for attachment of architectural woodwork and other components performed by others in the field.

6. Indicate locations of plumbing and electrical service field conditions.

C. Integrated Shop Drawings:
   1.

D. Samples: Submit full-size units or Samples of sizes indicated, prepared from same material to be used for the Work, with shop-applied transparent finish, that show full range of color and texture variations expected.
   1. (WD-1) Hardwood with Transparent Finish: Submit set of at least three units exhibiting approximate limits of variations in color, pattern, texture, or other characteristics inherent in material or product. Apply finish to all faces and edges.
      a. Solid Hardwood width: 3” wide by 12” long,
      b. Hardwood Veneer: 12” by 12“, representative of and selected from actual flitches to be used for Project.
   2. Other Wood and Surfacing Samples: Submit 12 by 12 inch sample for each type, color and finish, with one edge treatment or profile as specified.
      a. (PL) Plastic Laminates.
      b. (SS) Solid Surfacing.
   3. Cabinetwork Unit Samples: Units may be used as part of work if approved.
      a. Base cabinet with door, drawer, countertop and hardware.
      b. Wall-hung upper cabinet with door and shelf.
   4. Accessories and Hardware: Submit samples of hardware, accessories, and components of wood fabrications and casework.
   5. Fire-Treated Materials: Prior to commencing fabrication of fire-treated woodwork for Project, test and evaluate samples of prefinished veneer facings bonded to fire-treated core materials.
      a. Test compatibility of fire-treatment chemicals with adhesives and laminates, and determine whether or not this effects the bond of face veneers to core.
      b. Evaluate effects of fire-treatment chemicals and veneer laminating processes and their effects on aesthetic appearance of wood veneers with finishes as specified.
      c. Architect to approve samples prior to fabrication.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Fabricator and Installer.

B. Evaluation Reports: For fire-retardant-treated materials, from ICC-ES.

C. Site Conditions Reports: Relative humidity and temperature readings taken before, during and after installation. Include readings taken in areas where woodwork is stored on site prior to installation.

1.5 QUALITY ASSURANCE

A. Fabricator Qualifications: A well-established and experienced fabricator, acceptable to Owner and Architect, employing skilled workers to custom-fabricate millwork, casework and other architectural woodwork similar to that required for this Project, whose Work meets or exceeds quality requirements of specified NAAWS Grade, and whose completed Work has a record of successful in-service performance.
   1. Architect reserves the right to reject woodwork fabricator if it is Architect's opinion that previous performance by fabricator has been unsatisfactory, or if any of the following will not result in required quality within time required for completion:
      a. Shop capacity.
      b. Experience of workers.
      c. Equipment or supply of material.
      d. Previous performance by manufacturer has been unsatisfactory.

B. Installer Qualifications: Fabricator of woodwork assemblies.

C. Welding Qualifications: Qualify procedures and personnel in accordance with American Welding Society’s AWS D1 "Structural Welding Code.”

1.6 SITE CONDITIONS

A. Delivery, Handling and Storage: Protect woodwork items from damage, dust and dirt. Do not deliver, receive, store or install woodwork materials until storage and installation areas are conditioned in accordance with requirements and recommendations of NAAWS.

B. Environmental Requirements: Use permanent HVAC system or provide temporary systems and controls to establish and maintain site conditions complying with specified requirements.

1. Do not deliver, receive, store or install woodwork until building is enclosed, wet work is complete, and temporary or permanent HVAC systems are operating in areas where woodwork is stored and installed, and are maintaining temperature and relative humidity at occupancy levels and within the following ranges during the remainder of the construction phase:
   a. Temperature Range: Between 60 and 90 deg F.
   b. Relative Humidity Range: Between 25 and 55 percent.
2. Fluctuation of Temperature and Relative Humidity Levels:
   a. Do not exceed 15 percent fluctuation over any portion of a 7-day period and not to exceed 25 percent fluctuation over any portion of a 28-day period.
   b. Maintain operation and control of heating, cooling, humidity, ventilation, temporary barriers and similar facilities continuously on a 24-hour basis to avoid rapidly fluctuating ambient levels.

C. Field Measurements: Where woodwork is indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication, and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

1. Locate concealed framing, blocking, and reinforcements that support woodwork by field measurements before being enclosed, and indicate measurements on Shop Drawings.
2. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish dimensions and proceed with fabricating woodwork without field measurements. Provide allowance for trimming at site, and coordinate construction to ensure that actual dimensions correspond to established dimensions.

PART 2 - PRODUCTS

2.1 ARCHITECTURAL WOODWORK, GENERAL

A. Quality Standards: Provide custom-fabricated architectural woodwork, casework, millwork and other assemblies that are fabricated and installed in accordance with the *North American Architectural Woodwork Standards, Adopted and Published jointly by Architectural Woodwork Institute, Architectural Woodwork Manufacturer's Association of Canada and Woodwork Institute - Current Edition* (NAAWS).

1. Comply with requirements of specified NAAWS Grade except where more stringent requirements are indicated in the Contract Documents.

B. Acoustical Performance Requirements for Architectural Woodwork in Acoustically-Critical Spaces:

1. Comply with requirements of Section 018198 - Facility Acoustic Performance Requirements.
2. The following characteristics are not acceptable or permitted in final installed Work:
   a. Vibration harmonics, buzzing, rattling or squeaking.
   b. Noises caused by movement of components.
   c. Loosening, weakening, or fracturing of system components or attachments.

2.2 WOOD MATERIALS, GENERAL

A. General: Provide specified wood materials and other materials recommended by woodwork fabricator, and in compliance with specified NAAWS Grade.

1. Wood Moisture Content: 5 to 10 percent.
2. Provide wood products made with binder containing no urea formaldehyde,
3. Dimensions: As indicated on Drawings.
4. Sheathing Thickness: As needed to comply with requirements specified, but not less than thickness indicated.

5. Fire-Retardant-Treated Materials: Where fire-retardant-treated materials are indicated, use fire-retardant-treatment formulations that do not bleed through or otherwise adversely affect finishes. Do not use colorants to distinguish treated materials from untreated materials.

B. Miscellaneous Lumber: DOC PS 20 and applicable grading rules of inspection agencies certified by ALSC's Board of Review.

C. Dimension Lumber Items: Standard, Stud, or No. 3 grade lumber .

D. Veneer-Faced Plywood: HPVA HP-1, made with adhesive containing no urea formaldehyde.

E. Medium-Density Fiberboard: ANSI A208.2, Grade 130, made with binder containing no urea formaldehyde.

F. Hardboard: AHA A135.4.

G. Particleboard: ANSI A208.1, Grade M-2-Exterior Glue.

H. Softwood Plywood: DOC PS 1, exterior.

I. Thermoset Decorative Panels: Particleboard or medium-density fiberboard finished with thermally fused, melamine-impregnated decorative paper and complying with requirements of NEMA LD 3, Grade VGL, for test methods 3.3, 3.4, 3.6, 3.8, and 3.10.

J. Furring, Blocking, Shims, and Hanging Strips: Fire-retardant-treated softwood lumber, kiln dried to less than 15 percent moisture content.

2.3 WOODWORK FOR TRANSPARENT FINISH

A. Source Limitations for Wood Materials with Transparent Finish: The intent of this requirement is to ensure matching of wood species and finishes by providing solid wood and wood veneers of like species from a single source with resources to provide materials of consistent quality in appearance and physical properties, and by shop-finishing woodwork in single shop using one process for each finish type.

B. Minimum Quality Standard: Comply with *Architectural Woodwork Standards* (NAAWS) Premium Grade for architectural woodwork with transparent finish.

C. (WD-1) Hardwood Type for Transparent Finish:

D. Transparent Finish: Shop-applied, NAAWS Premium Grade, **System 5 Conversion Varnish** system as recommended by Fabricator, and as approved by Architect. Provide system in compliance with Project's low-VOC requirements. Defer only final touchup, cleaning, and polishing until after installation. Finish all surfaces, faces and edges of architectural woodwork.

1. Sheen: Matching Architect’s sample.
2. Backpriming: Apply two coats of sealer or primer, compatible with finish coats, to concealed surfaces of woodwork.

E. Shop-Applied Transparent Finish System: Provide wood materials with finish system as specified below and matching Architect's sample.

1. Basis of Design: Precision Coat by Sansin Corporation.
2. First Coat, Stain: Deep penetrating, low VOC, one-coat, UV stable stain.
   a. Product: Sansin Purity Interior Stain.
3. Second and Third Coats, Build-Up: Deep penetrating, clear, low VOC, UV resistant finish.
   a. Product: Sansin Purity Interior Glacier Finish.
4. Fourth Coat, Finish: Deep penetrating, clear, low VOC, UV and wear resistant finish.
   a. Product: Sansin Purity Interior Glacier Low Lustre Finish.

F. Veneer Matching: Provide matched veneered panels as specified below for all exposed Work, including wall panels, casework doors, drawer fronts, side panels, wall base, wood fabrications, wood doors and other finish carpentry indicated on Drawings.

1. Wood Door Veneers: Doors that appear within areas of paneling will be made as part of sequence. If more than one flitch is used, similar flitches will be selected and break shall be made at inconspicuous point such as corner, door or window.

a. Match between Veneer Leaves: Book match.
b. Assembly of Veneer Leaves on Door Faces: Balance match.
c. Pair and Set Match: Provide for doors hung in same openingor separated only by mullions.
d. Room Match: Match door faces within each separate room or area of building. Corridor-door faces do not need to match where they are separated by **12 feet** or more.
e. Transom Match: Continuous match.
f. Blueprint Match: Where indicated, provide doors with faces produced from same flitches as adjacent wood paneling and arranged to provide blueprint match with wood paneling.
g. Exposed Vertical and Top Edges: Same species as faces or a compatible species - edge Type A.

2. Joints shall be tightly spliced to avoid visible open joints. Open joints will be rejected.
3. Solid Hardwood: Match trim for compatibility of grain and color to itself and with veneers.

G. Veneer Matching:

1. Matching of Adjacent Veneer Leaves: Book match.
2. Matching within Panel Face: Center-balance match.
3. Panel-Matching Method: Blueprint-matched panels and components within each separate area.
4. Vertical Panel-Matching Method: Continuous match; veneer leaves of upper panels are continuations of veneer leaves of lower panels.
   a. At wood panel transoms over wood doors, provide continuous match between door and transom.
5. Supply book-matched wood veneers from flitches as selected by Architect, and matching solid wood for Work of this Section.
   a. Section 081400 - Wood Doors: Wood door facing.

2.4 LAMINATE-FACED CABINETS AND COUNTERTOPS

A. Minimum Quality Standard: Unless otherwise indicated, comply with the *North American Architectural Woodwork Standards* (NAAWS) for grades of architectural plastic-laminate cabinets indicated for construction, finishes, installation, and other requirements.

1. Contract Documents contain selections chosen from options in the quality standard and additional requirements beyond those of the quality standard. Comply with those selections and requirements in addition to the quality standard.

B. Plastic-Laminate-Faced Cabinets: NAAWS Custom Grade for cabinets.

1. (PL) Basis of Design: Refer to Material Identification List.
2. Type of Construction: Frameless.
3. Cabinet, Door, and Drawer Front Interface Style: Flush overlay.
4. High-Pressure Decorative Laminate: NEMA LD 3, grades as indicated or if not indicated, as required by woodwork quality standard.
5. Exposed Horizontal and Vertical Surfaces: Grade HGS.
6. Edges: PVC edge banding, 3.0 mm thick, matching laminate in color, pattern, and finish.
7. Semi-Exposed Surfaces (Other than Drawer Bodies): Thermoset Decorative Panels consisting of particleboard or medium-density fiberboard finished with thermally fused, melamine-impregnated decorative paper and complying with requirements of NEMA LD 3, Grade VGL, for test methods 3.3, 3.4, 3.6, 3.8, and 3.10.
   a. Medium-Density Fiberboard: ANSI A208.2, Grade 130 made with binder containing no urea formaldehyde.
   b. Edges of Thermoset Decorative Panel Shelves: PVC edge banding.
8. Semi-Exposed Backs of Panels: High-pressure decorative laminate, NEMA LD 3, Grade VGS.
9. Concealed Backs of Panels: High-pressure decorative laminate, NEMA LD 3, Grade BKL.
10. Drawer Construction: Fabricate with exposed fronts fastened to subfront with mounting screws from interior of body.
    a. Join subfronts, backs, and sides with glued dovetail joints.
    b. Drawer Sides and Backs: Thermoset decorative panels with PVC edge banding.
    c. Drawer Bottoms: Thermoset decorative panels.

C. Plastic-Laminate Countertops: NAAWS Premium Grade for architectural countertops on base cabinets, wall-mounted countertops and shelves.
   1. (PL) Basis of Design: Refer to Material Identification List.
   2. High-Pressure Decorative Laminate: NEMA LD 3, Grade HGS ; post forming grade (0.039" thick) High Pressure laminate counter top.
   3. Edge Treatment: Post-formed, matching laminate in color, pattern, and finish.
   4. Backsplash: As shown on Drawings.
   5. Core Board for Countertops: 1-inch thick, medium-density fiberboard made from 100% recycled fiber meeting ANSI 208.2 standards, ASTM D1037 2, Grade2-M-2 and HUD 24 emission standards (formaldehyde free).
   6. Backer Sheet: Provide plastic-laminate backer sheet, NEMA LD 3, Grade BKL, on underside of countertop substrate.

2.5 SOLID SURFACE FABRICATIONS

A. Solid Surface Countertops and Fabrications: Comply with NAAWS **Premium Grade** for architectural countertops on base cabinets, wall-mounted countertops and shelves, and other assemblies as shown on Drawings.
   1. Dimensions and Configurations: As shown on Drawings.
   2. Countertops: Fabricate tops in one piece with shop-applied eased edges unless otherwise indicated.
      a. Backsplash: Standard single length solid surface pieces; longest length possible to minimize joints. Where indicated provide countertop with coved backsplash.
      b. Inside Corners: Fabricate countertops with square inside corners.
      c. Sinks: Install integral sink bowls in countertops in the shop.

B. (SS-1) Cast Polymer: Homogeneous non-porous high density product; core structure is composed of paper, impregnated with thermosetting resins; outer surface is metal structure substrate treated with acrylic resins applied as multilayer coating, cured via an electron beam process. Comply with Manufacturer's written instructions for adhesives, sealers, fabrication, and finishing.
   1. Basis of Design: As indicated to Material Identification List.
   2. Integral Sinks: Install integral sink bowls in countertops in the shop.
      a. Basis of Design: Corian Model No. 810 by DuPont.

C. Adhesives and Sealants for Solid Surfacing: Comply with manufacturer's written instructions for adhesives, sealers, fabrication, and sealing. Do not use adhesives that contain urea formaldehyde.
   1. Sealant: Silicone sealant as recommended by panel manufacturer for application to substrate.
   2. VOC Limits for Installation Adhesives and Glues, and for Primers and Sealers: Use installation adhesives with VOC content of 250 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

2.6 WALL-MOUNTED COUNTERTOPS AND SHELVES

A. Brackets for Wall-Mounted Countertops and Shelves: Provide mounting brackets as shown on Drawings, in size and weight capacity required for use.
   1. Coordinate with Sections 061000, 092200 and other applicable Sections for concealed backing, support and anchoring as shown on Drawings.

B. (CWKA-1) Exposed Brackets: 1/8 inch steel; 1-1/2 inch forms with multiple 1/4 inch mounting holes per side; reversible; color as selected by Architect from manufacturer's standard colors.
   1. Sizes: As required by application.
   2. Capacity: 1,000 pounds minimum.
   3. Basis of Design: KV 208 550 Ultimate L-Bracket Series; 5mm thick steel bar with 3/4 inch steel strut, 1000 lb. capacity per pair, epoxy coated finish in color as indicated or selected.

C. (CWKA-2) Concealed Brackets: Size as required. Finish as selected by Architect.
   1. Basis of Design: 2.0" Concealed Brackets by A&M Hardware, Inc..
   2. Basis of Design: Iron Supports, Floating Countertop Wall Bracket, 19.5", color as indicated.

D. (CWKA-3) Steel Supports for Lavatory and Workstations: Provide in sizes and shapes as shown on Drawings.
   1. Steel Tubing: ASTM A501 or ASTM A500.
   2. Steel Bar: ASTM A36.
   3. Finish: Prefinished or shop-primed for painted finish (PT).

2.7 CABINETWORK HARDWARE

A. (HDWR) Cabinetwork Hardware: Provide as specified below and as indicated on Material Identification List.

B. Exposed Hardware Finishes: For exposed hardware, provide finish that complies with ANSI/BHMA A156.18 for ANSI/BHMA finish number indicated. All exposed hardware to match, unless indicated otherwise.
   1. Satin Chromium Plated: ANSI/BHMA 626 for brass or bronze base; ANSI/BHMA 652 for steel base.
   2. Bright Chromium Plated: ANSI/BHMA 625 for brass or bronze base; ANSI/BHMA 651 for steel base.
   3. Satin Stainless Steel: ANSI/BHMA 630.

C. Hinges, Knuckle: BHMA A156.9, B01361, fixed pin, five knuckle steel hinges, dull chrome, 2-3/4 inch by 0.095 thick.

D. Hinges, Concealed: BHMA A 156.9 B01602, concealed, all-metal hinges, 110 degree opening (unless otherwise noted) self-closing, 3-way adjustable.
   1. Basis of Design: Grass Nexis.
   2. Provide 3 per leaf over 48 inches high, 2 per leaf elsewhere. .
   3. Closers: Provide Quiet Soft-Cushion Closers: Nexis G-Force Soft Closer.

E. Door and Drawer Pulls: BHMA A156.9, B02011, back-mounted type pulls.
   1. Provide Owner standard, for review and approval by Architect.

F. Catches: Push-in magnetic catches, BHMA A156.9, B03131.
   1. Magnetic Pressure Catches: Häfele 245.80.320, prefinished steel, black.
   2. Metal Strike: Häfele 245.63.988,

G. Drawer Slides: BHMA A156.9, cold rolled steel, zinc plated with positive stop and full extension. Rolling steel balls, nylon rollers meeting or exceeding the following requirements, unless otherwise indicated:
   1. Minimum 75 lb. load rating, for use at drawers 16-inches wide or less.
   2. Minimum 100 lb. load rating, for use at drawers 24-inches wide or less.
   3. Minimum 150 lb. load rating, for use at drawers greater than 24-inches wide, at deep drawers, and drawers with file folder racks.
   4. Full Extension Drawer Slides: Side-mount, ball bearing type; epoxy coated; not less than 100 lb load rated; color to match cabinet interior.
      a. Accuride EW3832.
      b. Blum 430EW.
      c. Hettich W5632.
      d. Blum#430 with positive in-stop. Nylon ball bearing rollers.
   5. Over-Travel Extension File Drawer Slides: Side-mount, ball bearing type; epoxy coated; not less than 150 lb load rated; color to match cabinet interior.
      a. Accuride 4034.
      b. K&V 8505.
      c. Hettich 558.

H. Drawer Slides: Blum 562F Tandem Plus Blumotion with T51.1700.04 locking device. Minimum 100 lb. load rating.

I. Door Locks: BHMA A156.11, E07121.

J. Drawer Locks: BHMA A156.11, E07041.

K. Door and Drawer Locks: BHMA A156.11; E07121 door locks and E07041 drawer locks.
   1. Cylinder Lock: Disc tumbler, master-keyed, dull chrome finish by CCL Security Products #0737 and #0738.
      a. Review final keying sequences with Owner.
      b. Provide at hinged doors and drawers, where indicated.
      c. Other Acceptable Manufacturers: Timberline, National, Häfele, CompX National.
   2. Cabinet Keypad Device: BHMA A156.9, B03141.
      a. C9602 Spring Latch Cabinet Lock by Simplex Access Controls, 2941 Indiana Ave., Winston Salem, N.C. 27105, Tel: (919) 725-1331.
   3. Electronic Locks: Keypad-operated, battery-powered, programmable electronic lock with motorized deadbolt.
      a. Product and Manufacturer: DK-ATV by Digilok
      b. Configuration:
         1) Mounting: Fully-recessed.
         2) Finish: brushed nickel.
         3) Pull: No integral pull. Refer to cabinet hardware.

L. Keyless Cabinet Lock:
   1. Codelocks CL1200 Heavy-Duty Electronic Keyless Cabinet Lock, door thickness at 1/8 inches up to 1-1/8 inches, battery operated, stainless steel finish, dimensions: 5-3/8" (L) x 1-5/8" (W) x 1-1/2" (D).

M. Door and Drawer Silencers: BHMA A156.16, L03011.

N. Shelf Rests, Typical: BHMA A156.9, B04013; metal.

O. Adjustable Shelf Standards and Supports: BHMA A156.9, B04071; with shelf rests, B04081.
   1. Shelf Supports: Knape & Vogt 346 NP

2.8 CABINETWORK ACCESSORIES

A. (CWKA-21) Cable Passage Grommets: Provide cord grommets in diameter shown, and in color as selected by Architect.
   1. Plastic Grommet Liner and Cap: SG Series or EDP Series by Doug Mockett.

B. (CWKA-24) Miscellaneous Cabinetwork Accessories: As specified below or as indicated on Material Identification List.
   1. Chair/walker hook.

2.9 INSTALLATION ACCESSORIES

A. Installation Accessories: Provide assembly hardware as shown on Drawings, or as recommended by Fabricator and approved by Architect.

B. Mechanical Fasteners and Anchors: Use material, type, size and finish required for each substrate for secure anchorage and as recommended by architectural woodwork fabricator and installer.
   1. Provide concealed anchors unless otherwise indicated.
   2. Provide metal expansion sleeves or expansion bolts for post-installed anchors.
   3. Use nonferrous-metal or hot-dip galvanized anchors and inserts at inside face of exterior walls.
   4. Stainless steel eye-bolt anchors, washers and other fabrication and installation accessories as shown; or other types as required by design engineer and approved by Architect.
   5. Flathead Hex Wood Screw, black.
   6. Stainless steel fasteners with resilient neoprene washer.
   7. VOC Content, Adhesives: Provide meeting applicable VOC limits of South Coast Air Quality Management District (SCAQMD) Rule 1168, July 1, 2005, Adhesive and Sealant Applications, as analyzed by the methods specified in Rule 1168.

C. Adhesives: Do not use adhesives that contain urea formaldehyde. VOC Limits for Installation Use products that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA Method 24):

1. Special-Purpose Contact Adhesive (contact adhesive that is used to bond melamine covered board, metal, unsupported vinyl, rubber, or wood veneer 1/16 inch or less in thickness to any surface): 250 g/L.
2. Wood Glues: 30 g/L..
3. Multipurpose Construction Adhesives: 70 g/L.
4. Contact Adhesive: 80 g/L.

2.10 FABRICATION

A. General: Fabricate Work of this Section using materials, methods and quality control procedures in accordance with NAAWS, and in accordance with reviewed Shop Drawings.
   1. Complete fabrication in shop, including assembly, finishing, and hardware application, to maximum extent possible before shipment to Project site.
   2. Join and assemble work to provide durable, strong, rigid units that will not warp or rack, including during shipping and installation.
   3. Disassemble components only as necessary for shipment and installation. Allow for easy handling and passage through building openings.
   4. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.
   5. Woodwork in Spaces without Humidification Control: Fabricate Work as necessary to protect installed Work from moisture and damage due to movement and dimensional changes associated with fluctuating temperature and relative humidity levels during construction and after Substantial Completion.

B. Trial fit assemblies at fabrication shop that cannot be shipped completely assembled. Install dowels, screws, bolted connectors, and other fastening devices that can be removed after trial fitting. Verify that various parts fit as intended and check measurements of assemblies against field measurements indicated on Shop Drawings before disassembling for shipment.

C. Shop cut openings, to maximum extent possible, to receive hardware, appliances, plumbing fixtures, electrical work, and similar items. Locate openings accurately and use templates or roughing-in diagrams to produce accurately sized and shaped openings. Sand edges of cutouts to remove splinters and burrs.

D. Metal Framing and Supports:
   1. Welded Connections: Comply with AWS for recommended practices in shop welding. Weld behind finished surfaces without distorting or discoloring exposed side. Clean exposed welded joints of flux, and dress exposed and contact surfaces.
   2. Non-Welded Connections: Fabricate for interconnection of members by means of mechanical fasteners and fittings unless otherwise indicated.

E. Shop Finishing: Pre-finish architectural woodwork at fabrication shop as specified in this Section. Defer only final touchup, cleaning, and polishing until after installation.
   1. Preparation for Finishing: Comply with referenced quality standard for sanding, filling countersunk fasteners, sealing concealed surfaces, and similar preparations for finishing architectural wood cabinets, as applicable to each unit of work.
   2. Backpriming: Apply two coats of sealer or primer, compatible with finish coats, to concealed surfaces. Concealed surfaces of plastic-laminate-clad paneling do not require backpriming when surfaced with plastic laminate.
   3. Primer Application on Steel Framing: Apply shop primer to prepared surfaces of items unless otherwise indicated. Comply with requirements in SSPC-PA 1, "Paint Application Specification No. 1: Shop, Field, and Maintenance Painting of Steel," for shop painting. Primer need not be applied to surfaces to be embedded in concrete or masonry.

PART 3 - EXECUTION

3.1 EXAMINATION AND PREPARATION

A. Examination and Acceptance of Conditions: Before proceeding with installation, take field measurements, examine substrates and verify temperature and relative humidity and other conditions.
   1. Verify that mechanical and electrical items affecting this section are properly placed, complete, and have been inspected by Architect prior to commencement of installation.
   2. Proceed with installation only after unsatisfactory conditions have been corrected and after building temperature and relative humidity are within specified range. Proceeding with the Work indicates acceptance of surfaces and site conditions.

B. Material Moisture Content and Environmental Requirements: Install products at the time and under conditions that will ensure the best possible results and maintain conditions until Substantial Completion.
   1. Comply with recommendations of Architectural Woodwork Standards.
   2. Conditioning: Before installation, condition wood materials and cabinets in accordance with specified site condition requirements.
      a. Do not install unconditioned woodwork.
      b. Reject materials that are wet, moisture damaged or mold damaged.

C. Substrate: Before proceeding with installation, examine substrate to receive work for compliance with requirements for installation tolerances and other conditions affecting performance. Installer must approve substrate prior to installation.

D. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product.
   1. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication.
   2. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
   3. Verify space requirements and dimensions of items shown diagrammatically on Drawings.

3.2 INSTALLATION

A. General: Install architectural woodwork in accordance with *North American Architectural Woodwork Standards* (NAAWS) and in accordance with reviewed shop drawings and manufacturer instructions.
   1. Install products at the time and under conditions that will ensure the best possible results. Maintain conditions required for product performance until Substantial Completion.
   2. Install free from hammer or tool marks, open joints or slivers or other defects detrimental to appearance or performance.
   3. Set plumb, level, square and true to dimensions shown and required. Allow for finishes and proper clearances where necessary. Use concealed shims where required for alignment.
   4. Tolerances: Install to tolerance of 1/8 inch in 96 inches for level and plumb. Install adjoining work with 1/32-inch maximum offset for flush installation and 1/16-inch maximum offset for reveal installation.
   5. Scribe and cut to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.
   6. Coordinate with materials and systems in or adjacent to woodwork and provide cutouts for mechanical and electrical items that penetrate exposed surfaces of trim and rails.
   7. Shop-Fabricated Work: Before installing, examine shop-fabricated work for completion. Assemble shop fabricated work and complete fabrication at Project site to the extent that it was not completed in the shop. Backprime unfinished surfaces that are concealed when installed.
   8. Do not use materials that are unsound, warped, improperly treated or finished, inadequately seasoned, or too small to fabricate with proper jointing arrangements.

B. Anchorage: Adequately anchor, fasten and support members to form secure, substantial and accurate work and to hold required dimensions and prevent twist.

1. Coordinate installation of anchorages. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.
2. Provide blocking, attachment plates, anchors and fasteners of adequate size and number to securely anchor each component in place, accurately located and aligned with other portions of the Work.
3. Provide anchorage type required to allow movement of wood due to changes in relative humidity without permanent damage to the wood and other components.

C. Joints: Fit exposed connections together to form hairline joints. Where joint locations in exposed work are not indicated, arrange joints for the best visual effect as determined by Architect.
1. Provide joints to accommodate expansion of woodwork due to changes in relative humidity.

D. Solid Surfacing: Install solid surfacing in accordance with reviewed shop drawings and manufacturer's instructions.

E. Cabinetwork Installation: Install cabinets to comply with same NAAWS Grade as item was fabricated.
1. Install without distortion so doors and drawers fit openings properly and are accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation. Complete installation of hardware and accessory items as indicated.
2. Anchor cabinets to anchors or blocking built in or directly attached to substrates. Secure with countersunk, concealed fasteners and blind nailing. Use fine finishing nails or finishing screws for exposed fastening, countersunk and filled flush with woodwork. For shop finished items use filler matching finish of items being installed.
3. Countertops: Anchor securely to base units and other support systems as indicated.
4. Maintain veneer sequence matching of cabinets with transparent finish.

F. Wall-Mounted Shelving and Work-Surfaces: Install standards, brackets and other supports according to manufacturer's written instructions. Fasten to framing members, wood sheathing, wood blocking or metal backing, or use toggle bolts or hollow wall anchors.

G. Finishes: Touch up finishing work specified in this Section after installation of woodwork. Fill nail holes with matching filler where exposed.
1. Apply specified finish coats including, back-priming, opaque paint, stains and paste fillers if any, to exposed surfaces where only sealer/prime coats are applied in shop.
2. Refer to Section 099000 - Painting for final finishing of installed architectural woodwork not indicated to be shop finished, and for related brackets and other Work exposed to view.

3.3 INSTALLED WORK

A. Damaged or Non-Compliant Woodwork: Remove and replace materials that are damaged or do not comply with requirements.
1. Damaged woodwork may be repaired or refinished if resulting repair work complies with requirements and shows no evidence of repair or refinishing.
2. Remove and replace woodwork materials that are wet, moisture damaged, or mold damaged.
3. Replace, at no additional cost to Owner, materials that are damaged or that cannot be cleaned to satisfaction of Owner.

B. Adjusting: Adjust movable components of assembly to operate safely, smoothly, easily, and quietly, free from binding, warp, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range, and without binding or damaging assembly components. Lubricate hardware and moving parts. Adjust joinery for uniform appearance.

C. Cleaning: Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period.
1. Clean interior finish carpentry on exposed and semi-exposed surfaces. Restore damaged or soiled areas and touch up factory-applied finishes, if any.
2. Clean cabinetwork, counters, shelves, hardware, fittings and fixtures.

D. Protection: Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.
   1. Comply with specified requirements for temperature and relative humidity.
   2. Protect installed products from damage from weather, moisture, dust, dirt and other causes during construction.

E. Demonstration and Training: Instruct Owner's personnel to operate, adjust and maintain operable components of woodwork assemblies.

END OF SECTION

SECTION 078100
APPLIED FIREPROOFING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Patching and replacement of existing fireproofing materials that are disturbed, remove or damaged during construction activities.
   2. Preparation of substrates.
   3. Wet-mix sprayed fireproofing (FP).
   4. Patching and repairs.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: Framing plans or schedules, or both, indicating the following:
   1. Extent of fireproofing for each construction and fire-resistance rating.
   2. Applicable fire-resistance design designations of a qualified testing and inspecting agency acceptable to authorities having jurisdiction.
   3. Minimum fireproofing thicknesses needed to achieve required fire-resistance rating of each structural component and assembly.
   4. Treatment of fireproofing after application.

C. Samples: For each exposed product and for each color and texture specified, 4 inches square in size.

1.3 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer and testing agency.

B. Product Certificates: For each type of fireproofing.

C. Evaluation Reports: For fireproofing, from ICC-ES.

D. Preconstruction Test Reports: For fireproofing.

E. Field quality-control reports.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: A firm or individual certified, licensed, or otherwise qualified by fireproofing manufacturer as experienced and with sufficient trained staff to install manufacturer's products according to specified requirements.

B. Mockups: Build mockups [to verify selections made under Sample submittals and to demonstrate aesthetic effects] [to set quality standards for materials and execution] [and] [for preconstruction testing].
   1. Build mockup of [each type of fireproofing and different substrate] [and] [each required finish] as shown on Drawings.
   2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
   3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.5 PRECONSTRUCTION TESTING

A. Preconstruction Adhesion and Compatibility Testing: Test for compliance with requirements for specified performance and test methods.

1. Bond Strength: Test for cohesive and adhesive strength according to ASTM E 736. Provide bond strength indicated in referenced fire-resistance design, but not less than minimum specified in Part 2.
2. Density: Test for density according to ASTM E 605. Provide density indicated in referenced fire-resistance design, but not less than minimum specified in Part 2.
3. Verify that manufacturer, through its own laboratory testing or field experience, attests that primers or coatings are compatible with fireproofing.
4. Schedule sufficient time for testing and analyzing results to prevent delaying the Work.
5. For materials failing tests, obtain applied-fireproofing manufacturer's written instructions for corrective measures including the use of specially formulated bonding agents or primers.

1.6 FIELD CONDITIONS

A. Environmental Limitations: Do not apply fireproofing when ambient or substrate temperature is 44 deg F or lower unless temporary protection and heat are provided to maintain temperature at or above this level for 24 hours before, during, and for 24 hours after product application.

B. Ventilation: Ventilate building spaces during and after application of fireproofing, providing complete air exchanges according to manufacturer's written instructions. Use natural means or, if they are inadequate, forced-air circulation until fireproofing dries thoroughly.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Assemblies: Provide fireproofing, including auxiliary materials, according to requirements of each fire-resistance design and manufacturer's written instructions.

B. Source Limitations: Obtain fireproofing for each fire-resistance design from single source.

C. Fire-Resistance Design: Indicated on Drawings, tested according to ASTM E 119 or UL 263 testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
   1. Steel members are to be considered unrestrained unless specifically noted otherwise.

D. Asbestos: Provide products containing no detectable asbestos.

2.2 SPRAY-APPLIED FIRE-RESISTIVE MATERIALS

A. Assemblies: Provide fireproofing, including auxiliary materials, according to requirements of each fire-resistance design and manufacturer's written instructions.

B. Sprayed-on Fire-resistant Coating: Cementitious fireproofing, Wet-mix setting based type as defined by Underwriters Laboratories and free from asbestos, actinolite, amosite, anthophyllite, chrysotile and tremolite. No mineral fiber fireproofing allowed.
   1. Cementitious Wet Mix Admixtures: Materials (with and without aggregate) which, when mixed in accordance with accompanying instructions forms a slurry or mortar providing properties necessary for conveyance and application to building structures.
   2. Fire-Resistance Design: Indicated on Drawings, tested according to ASTM E 119 or UL 263 by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
      a. Steel members are to be considered unrestrained unless specifically noted otherwise.
      b. UL design listings must state that the loading was determined by Allowable Stress Design Method or Load and Resistance Factor Design Method. UL design listings requiring a load restriction factor are not allowed.
   3. VOC Content: Products shall comply with VOC

C. (FP-1) Standard Density: Meeting or exceeding 15 pounds per cubic foot per ASTM E605, no fungal growth per ASTM G21. For concealed locations and in plenum ceilings and above suspended ceilings.

1. Products and Manufacturers:
    a. Monokote MK-6 by Grace Construction Products.
    b. Pyrolite 15 by Carboline Fireproof Products Division.
    c. Cafco-300 by Isolotek.
    d. Southwest Fireproofing Type 5GP by AD Fire Protection Systems.

D. Mixing: Perform mixing and preparation of materials at project using mechanical equipment, in accordance with manufacturer's printed directions to achieve performance criteria specified herein.

2.3 AUXILIARY MATERIALS

A. General: Provide auxiliary materials that are compatible with fireproofing and substrates and are approved by UL or another testing and inspecting agency acceptable to authorities having jurisdiction for use in fire-resistance designs indicated.

B. Substrate Primers: Primers approved by fireproofing manufacturer and complying with one or both of the following requirements:

1. Primer and substrate are identical to those tested in required fire-resistance design by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.
2. Primer's bond strength in required fire-resistance design complies with specified bond strength for fireproofing and with requirements in UL's "Fire Resistance Directory" or in the listings of another qualified testing agency acceptable to authorities having jurisdiction, based on a series of bond tests according to ASTM E 736.

C. Bonding Agent: Product approved by fireproofing manufacturer and complying with requirements in UL's "Fire Resistance Directory" or in the listings of another qualified testing agency acceptable to authorities having jurisdiction.

D. Metal Lath: Expanded metal lath fabricated from material of weight, configuration, and finish required, according to fire-resistance designs indicated and fireproofing manufacturer's written instructions. Include clips, lathing accessories, corner beads, and other anchorage devices required to attach lath to substrates and to receive fireproofing.

E. Reinforcing Fabric: Glass- or carbon-fiber fabric of type, weight, and form required to comply with fire-resistance designs indicated; approved and provided by fireproofing manufacturer.

F. Reinforcing Mesh: Metallic mesh reinforcement of type, weight, and form required to comply with fire-resistance design indicated; approved and provided by fireproofing manufacturer. Include pins and attachment.

G. Sealer: Transparent-drying, water-dispersible, tinted protective coating recommended in writing by fireproofing manufacturer for each fire-resistance design.

H. Topcoat: Suitable for application over applied fireproofing; of type recommended in writing by fireproofing manufacturer for each fire-resistance design.

1. Cement-Based Topcoat: Factory-mixed, cementitious hard-coat formulation for trowel or spray application over SFRM.
2. Water-Based Permeable Topcoat: Factory-mixed formulation for brush, roller, or spray application over applied SFRM. Provide application at a rate of 60 sq. ft./gal. .

I. Water: Potable, fresh and free from organic and mineral impurities which would affect set of sprayed fireproofing materials.

J. Adhesive for Bonding Fireproofing: Type recommended by manufacturer of sprayed-on fireproofing manufacturer.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine surfaces to which this work is to be attached or applied and notify Architect if conditions exist which are detrimental to proper and expeditious installation of work. Starting of work shall imply acceptance of substrate for adhesion and performance of work as specified. Substrate is in satisfactory condition if it complies with following :

1. Substrate complies with requirements of section in which substrate and related work is specified and is free of oil, grease, rolling compounds, incomplete primers, loose mill scale, dirt or other foreign substances capable of impairing bond of fireproofing with substrate under conditions of normal use or fire exposure.
2. Objects which will penetrate fireproofing, including clips, hangers, support sleeves and similar items have been securely attached to substrates.
3. Substrates are not obstructed by ducts, piping, equipment and other suspended construction that could interfere with application of fireproofing and until it has dried.

B. Cooperate with coordination and scheduling of work of this section with work of other sections so not to delay job progress.

C. Clips, hangers, supports, sleeves and other attachments to fireproofing bases, as covered under other sections of specifications, are to be placed by other trades prior to application of fireproofing material, where these materials can be anticipated in advance.

D. Ducts, piping or conduit or other suspended equipment that could interfere with uniform application of fireproofing material are to be positioned after application of sprayed fireproofing, unless fireproofing applicator agrees to their installation prior to fireproofing.

E. Prior to application of fireproofing material, ascertain that steel is acceptable to receive fireproofing. Steel shall be free of oil, grease, loose mill scale, or other substance that may impair proper adhesion.

3.2 SURFACE PREPARATION

A. Clean surface to receive sprayed fireproofing to remove mill scale, dirt, grime, oil, grease, dust, loose rust, rolling compounds, incompatible primers and other foreign material which will impair satisfactory bonding of fireproofing to substrate.

B. Cover other work which might be damaged by fallout or overspray of fireproofing materials during application. Provide temporary enclosure as may be required to confine operations, protect environment, and to ensure adequate ambient conditions for temperature and ventilation.

C. Notify Contractor of surface condition which cannot be corrected by normal cleaning methods and requires correction of conditions prior to application of sprayed fireproofing.

D. Prime substrates where included in fire-resistance design and where recommended in writing by fireproofing manufacturer unless compatible shop primer has been applied and is in satisfactory condition to receive fireproofing.

E. For applications visible on completion of Project, repair substrates to remove surface imperfections that could affect uniformity of texture and thickness in finished surface of fireproofing. Remove minor projections and fill voids that would telegraph through fire-resistive products after application.

3.3 APPLICATION

A. Commencement of application of fireproofing shall be deemed as acceptance by applicator of suitability of surface to receive work and acceptance of responsibility for failure of bond between fireproofing and substrate.

B. Construct fireproofing assemblies that are identical to fire-resistance design indicated and products as specified, tested, and substantiated by test reports; for thickness, primers, sealers, topcoats, finishing, and other materials and procedures affecting fireproofing work.

C. Apply spray fireproofing using manufacturer's authorized installer in accordance with manufacturer's directions and instructions and in conformance with city and state codes, regulations and requirements having jurisdiction. Qualified manufacturer's representative shall be present for initial application to guide and assist applicator's personnel.

D. Sprayed Fireproofing: Apply to areas and surfaces which are scheduled to be fireproofed and to proper thicknesses to achieve fireproofing hours.

1. Control thickness of fireproofing by utilizing workable depth gauge to assure that minimum thickness has been applied.

E. Ventilation: Make provisions to properly dry fireproofing after application. In enclosed areas lacking natural ventilation, provide mechanical air circulation and ventilation.

F. Equipment, Mixing and Application: In accordance with manufacturer's written specification and application instructions. Mechanically control material and water ratio on project site.

G. Qualified Personnel: Provide to supervise application.

H. Bonding Adhesive: Apply to underside of steel roof deck units which do not have concrete topping and where required by appropriate UL Design. Bonding adhesive is optional in other conditions unless recommended by manufacturer of sprayed fire protection material (SFRM). Apply bonding adhesives in accordance with manufacturer's written application instructions.

I. Do not install fireproofing prior to completion of concrete work on steel pan stairs. Apply to underside of roof deck assemblies only after roofing system is complete and roof traffic has ceased.

J. Cracking: No cracking of fireproofing material allowed per UL requirements. Repair cracks at no additional cost to Owner by removing existing fireproofing and reapplying

3.4 PATCHING, REPAIRING, CLEANING AND PROTECTION

A. Perform patching and repairing of sprayed fireproofing, due to cutting by other trades, by fireproofing applicator. Work shall be paid for by trades that performed cutting, as directed and at no additional cost.

1. Coordinate installation of fireproofing with other work in order to minimize need for other trades to cut or remove fireproofing. As other trades successively complete installations of their work, maintain protection of structure's fireproofing by patching areas which have been removed or damaged prior to concealment of fireproofing by other work.

B. After completion of fireproofing work, remove equipment and clean walls, floors, equipment, pipes and conduit of over sprayed fireproofing materials.

C. Cleaning: Immediately upon completion of sprayed operations in each containable area, remove over-spray and fall-out materials from surfaces of other work and clean exposed surfaces to remove evidence of soiling.

D. Cure exposed wet-mix fireproofing materials in compliance with fireproofing manufacturer's recommendations to prevent premature drying.

E. Protect fireproofing according to advice of fireproofing manufacturer and installer from damage resulting from construction operations or other causes so that fireproofing will be without damage or deterioration at time of Substantial Completion.

3.5 FIELD QUALITY CONTROL

A. At Owner's option Architect may select, and Owner will pay, independent testing laboratory to sample and verify thickness and density of fireproofing in accordance with provisions of ASTM E605, and cohesion/adhesion as per ASTM E736.

1. Minimum testing as follows:
   a. Randomly Selected Bay: Test each fireproofed element for thickness and density as per ASTM E605 and displacement method per AWCI Tech Manual 12-A, 5.4.5.
   b. Randomly Selected Typical Structural Elements: Test for cohesion/adhesion as per E736.
   c. Perform minimum of 5 tests of each kind.

B. Contractor and sub-contractor for this Section shall cooperate with testing agency in furnishing samples for testing, and other testing agency procedures.
   1. Should tested fireproofing fail to meet performance criteria, remove fireproofing, reinstall and retest at no additional cost to Owner.
   2. Correct unacceptable work and pay for further testing required to prove acceptability of installation.
   3. Patch test areas as required to re-establish fireproofing integrity.

3.6 INSTALLED WORK

A. Cleaning: Immediately after completing spraying operations in each containable area of Project, remove material overspray and fallout from surfaces of other construction and clean exposed surfaces to remove evidence of soiling.

B. Protect fireproofing, according to advice of manufacturer and Installer, from damage resulting from construction operations or other causes, so fireproofing is without damage or deterioration at time of Substantial Completion.

C. As installation of other construction proceeds, inspect fireproofing and repair damaged areas and fireproofing removed due to work of other trades.

D. Repair fireproofing damaged by other work before concealing it with other construction.

E. Repair fireproofing by reapplying it using same method as original installation or using manufacturer's recommended trowel-applied product.

END OF SECTION

SECTION 078443
FIRE-RESISTANT JOINT SYSTEMS

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes fire-resistant joint systems (FRJS) for the following:
   1. Head-of-wall joints.
   2. Joints at cold formed exterior wall framing and floor slab.
   3. Joints between perimeter edge of fire-resistance-rated floor assemblies and back of non-fire-resistance-rated, exterior, glazed aluminum curtain walls.

1.2 COORDINATION

A. Coordinate construction of joints to ensure that fire-resistant joint systems are installed according to specified requirements.

B. Coordinate sizing of joints to accommodate fire-resistant joint systems.

C. Do not cover up fire-resistant joint system installations that will become concealed behind other construction until Owner's inspecting agency and building inspector, if required by authorities having jurisdiction, have examined each installation.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product indicated.

B. Shop Drawings: For each fire-resistant joint system, show each kind of construction condition in which joints are installed and relationships to adjoining construction. Include fire-resistant joint system design designation of testing and inspecting agency acceptable to authorities having jurisdiction that demonstrates compliance with requirements for each condition indicated.
   1. Submit documentation, including illustrations, from a qualified testing and inspecting agency that is applicable to each fire-resistant joint system configuration for construction and penetrating items.

C. Product Schedule: For each joint firestopping system. Include location, illustration of firestopping system, and design designation of qualified testing agency.

D. Engineering Judgments: Where Project conditions require modification to a qualified testing agency's illustration for a particular joint firestopping system condition, submit illustration, with modifications marked, approved by joint firestopping system manufacturer's fire-protection engineer as an engineering judgment or equivalent fire-resistance-rated assembly.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

B. Product Test Reports: For each joint firestopping system, for tests performed by a qualified testing agency.

C. Compatibility and Adhesion Test Reports.

1.5 CLOSEOUT SUBMITTALS

A. Installer Certificates: From Installer indicating that joint firestopping systems have been installed in compliance with requirements and manufacturer's written instructions.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: A firm that has been approved by FM Global according to FM Global 4991, "Approval of Firestop Contractors," or been evaluated by UL and found to comply with UL's "Qualified Firestop Contractor Program Requirements", and is a certified Installer of Manufacturer's firestop systems.

B. Preconstruction Compatibility and Adhesion Testing: Submit to fire-resistant joint system manufacturers, for testing indicated below, samples of materials that will contact or affect fill materials.

1. Use manufacturer's standard test methods to determine whether priming and other specific joint preparation techniques are required to obtain rapid, optimum adhesion of fill materials to joint substrates.
    a. Perform tests under environmental conditions replicating those that will exist during installation.
2. Submit no fewer than nine pieces of each type of material, including joint substrates, forming materials, and miscellaneous materials.
3. Schedule sufficient time for testing and analyzing results to prevent delaying the Work.
4. For materials failing tests, obtain fire-resistant joint system manufacturer's written instructions for corrective measures, including the use of specially formulated primers.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver fire-resistant joint system products to Project site in original, unopened containers or packages with qualified testing and inspecting agency's classification marking applicable to Project and with intact and legible manufacturers' labels identifying product and manufacturer, date of manufacture, lot number, shelf life, curing time, and mixing instructions for multicomponent materials.

B. Store and handle materials for fire-resistant joint systems to prevent their deterioration or damage due to moisture, temperature changes, contaminants, or other causes.

1.8 PROJECT CONDITIONS

A. Environmental Limitations: Do not install fire-resistant joint systems when ambient or substrate temperatures are outside limits permitted by fire-resistant joint system manufacturers or when substrates are wet due to rain, frost, condensation, or other causes.

B. Install and cure joint firestopping systems per manufacturer's written instructions using natural means of ventilation or, where this is inadequate, forced-air circulation.

PART 2 - PRODUCTS

2.1 JOINT FIRESTOPPING

A. Source Limitations: Obtain fire-resistant joint systems for each kind of joint and construction condition indicated through one source from a single manufacturer.

B. Manufacturers: Subject to compliance with requirements, provide either the named products or comparable products by one of the following:

1. 3M Fire Protection Products Systems, Inc..
2. A/D Fire Protection Systems Inc..
3. Hilti, Inc..
4. RectorSeal Corporation.
5. Specified Technologies, Inc..
6. United States Gypsum Company(USG).

C. Joint Firestopping Systems: Provide systems that resist spread of fire, passage of smoke and other gases, and maintain original fire-resistance rating of assemblies in or between which joint firestopping systems are installed. Joint firestopping systems shall accommodate building movements without impairing their ability to resist the passage of fire and hot gases.

1. Select joint systems based on actual conditions. Selected system is subject to approval through Submittals.
2. Provide engineering judgment acceptable to Architect and authority having jurisdiction for conditions where a tested system is not available for the actual conditions.
3. Provide components of fire-resistant joint systems, including forming materials, that are needed to install fill materials. Use only components specified by fire-resistant joint system manufacturer and approved by the qualified testing and inspecting agency for systems indicated.
4. Compatibility: Provide fire-resistant joint systems that are compatible with joint substrates, under conditions of service and application, as demonstrated by fire-resistant joint system manufacturer based on testing and field experience.

D. Joints in or between Fire-Resistance-Rated Construction (Other than Perimeter Joints): Provide joint firestopping systems with ratings determined per ASTM E 1966 or UL 2079.
1. Fire-Resistance Rating: Equal to or exceeding the fire-resistance rating of the wall, floor, or roof in or between which it is installed.
2. Provide UL-classified systems listed in UL's "Fire Resistance Directory" under product Category XHBN.
3. Firestop Top Track Seal: For metal stud partitions installed on flat concrete slab use one-piece, pre-formed, polyurethane foam based, firestop seal for use with standard head-joint top tracks and bottom-joint tracks, and slip-type head joints in fire-rated construction at top or bottom of partition to maintain continuity of the fire-resistance-rated assembly indicated. Provide in width and configuration required to accommodate depth and installation of studs and designed to saddle-over the top track or under the bottom-track.

E. Fire Resistance of Perimeter Fire-Containment Systems:
1. Joints at Exterior Curtain-Wall-to-Floor Intersections: Provide joint firestopping systems with rating determined per ASTM E 2307; with integrity and insulation ratings indicated as determined by UL 2079.
2. F-Rating: Equal to or exceeding the fire-resistance rating of the floor assembly.
3. Provide UL-classified systems listed in UL's "Fire Resistance Directory" under product Category XHDG.
4. For edge of slab conditions with a full height vision glass, or for conditions which do not contain an insulated spandrel at the floor line, only tested system HI/BPF 120-11 issued by Intertek Laboratories shall be used. If the tested system does not meet the project conditions, an engineering judgment derived from HI/BPF 120-11 shall be submitted to local authorities having jurisdiction for their review and approval prior to installation.

F. Joints in Smoke Barriers: Provide fire-resistive joint systems with ratings determined per UL 2079 based on testing at a positive pressure differential of 0.30-inch wg.
1. L-Rating: Not exceeding 5.0 cfm/ft. of joint at both ambient and elevated temperatures.

G. Exposed Joint Firestopping Systems: Flame-spread and smoke-developed indexes of less than 25 and 450, respectively, as determined per ASTM E 84.

H. Mold Resistance: Provide joint firestopping systems sealant with mold and mildew resistance rating of one (1) or less as determined by ASTM G21.

2.2 FIRE-RESISTANT JOINT SYSTEMS SCHEDULE

A. (FRJS-1) Head-of-Wall, Fire-Resistive Joint Firestopping Systems:
1. UL-Classified Systems: HW-D-0000-0999
2. Fire-Resistance Rating: Equal to or exceeding that of the wall or roof in which it is installed, as shown on Drawings.
3. Joint Width: As shown.
4. Movement Capabilities: Class I <Insert number> percent compression.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Installer present, for compliance with requirements for joint configurations, substrates, and other conditions affecting performance.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Surface Cleaning: Clean joints immediately before installing fire-resistant joint systems to comply with fire-resistant joint system manufacturer's written instructions and the following requirements:

1. Remove from surfaces of joint substrates foreign materials that could interfere with adhesion of fill materials.
2. Clean joint substrates to produce clean, sound surfaces capable of developing optimum bond with fill materials. Remove loose particles remaining from cleaning operation.
3. Remove laitance and form-release agents from concrete.

B. Priming: Prime substrates where recommended in writing by fire-resistant joint system manufacturer using that manufacturer's recommended products and methods. Confine primers to areas of bond; do not allow spillage and migration onto exposed surfaces.

C. Masking Tape: Use masking tape to prevent fill materials of fire-resistant joint system from contacting adjoining surfaces that will remain exposed on completion of Work and that would otherwise be permanently stained or damaged by such contact or by cleaning methods used to remove smears from fire-resistant joint system materials.

1. Remove tape as soon as possible without disturbing fire-resistant joint system's seal with substrates.

3.3 INSTALLATION

A. General: Install fire-resistant joint systems to comply with Part 2 "Performance Requirements" Article and fire-resistant joint system manufacturer's written installation instructions for products and applications indicated.

B. Install forming, packing and backing materials and other accessories of types required to support fill materials during their application and in position needed to produce cross-sectional shapes and depths required to achieve fire ratings indicated.

C. Install elastomeric fill materials for fire-resistant joint systems by proven techniques to produce the following results:

1. Fill voids and cavities formed by openings and forming/packing/backing materials as required to achieve fire-resistance ratings indicated.
2. Apply elastomeric fill materials so they contact and adhere to substrates formed by joints.
3. For elastomeric fill materials that will remain exposed after completing Work, finish to produce smooth, uniform surfaces that are flush with adjoining finishes.
4. After installing elastomeric fill materials and allowing them to fully cure, remove combustible forming materials and other accessories not indicated as permanent components of fire-resistive joint system.

3.4 JOINT IDENTIFICATION

A. Identify joint firestopping systems with legible metal or plastic labels. Attach labels permanently to surfaces adjacent to and within 6 inches of joint edge so labels are visible to anyone seeking to remove or joint firestopping system. Use mechanical fasteners or self-adhering-type labels with adhesives capable of permanently bonding labels to surfaces on which labels are placed. Include the following information on labels:

1. The words "Warning - Joint Firestopping - Do Not Disturb. Notify Building Management of Any Damage."
2. Contractor's name, address, and phone number.

3. Designation of applicable testing agency.
4. Date of installation.
5. Manufacturer's name.
6. Installer's name.

3.5 FIELD QUALITY CONTROL

A. Inspecting Agency: Owner will engage a qualified testing agency to perform tests and inspections according to ASTM E2393.

B. Inspecting Agency: Owner will engage a qualified independent inspecting agency to inspect fire-resistant joint systems and to prepare inspection reports.

1. Inspecting agency will state in each report whether inspected fire-resistant joint systems comply with or deviate from requirements.

C. If deficiencies are found, repair or replace fire-resistant joint systems so they comply with requirements.

D. Proceed with enclosing fire-resistant joint systems with other construction only after inspection reports are issued and inspecting agency has approved installed fire-resistant joint systems.

3.6 INSTALLED WORK

A. Clean off excess fill materials adjacent to joints as Work progresses by methods and with cleaning materials that are approved in writing by fire-resistant joint system manufacturers and that do not damage materials in which openings occur.

B. Provide final protection and maintain conditions during and after installation that ensure fire-resistant joint systems are without damage or deterioration at time of Substantial Completion. If damage or deterioration occurs despite such protection, cut out and remove damaged or deteriorated fire-resistant joint systems immediately and install new materials to produce fire-resistant joint systems complying with specified requirements.

3.7 UL CLASSIFICATION SYSTEM

Fire-Resistant Joint Systems		UL Classification System		
		Joint System	Movement Capability	Joint Width Range
4	Head-to-Wall:	HW	S/D	0000-4999

Movement Capability

D- Allows movement (Dynamic)

Joint Width

0000-0999	Less than or equal to 2 inches
1000-1999	Greater than 2 inches and less than or equal to 6 inches
2000-2999	Greater than 6 inches and less than or equal to 12 inches
3000-3999	Greater than 12 inches and less than or equal to 24 inches
4000-4999	Greater than 24 inches

END OF SECTION

This page intentionally left blank.

SECTION 079100
PREFORMED JOINT SEALS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Precompressed foam joint seals (PFJS-1).
   2. Precompressed foam joint seals with silicone coating (PFJS-2).

B. Related Requirements:
   1. Section 079200 - Joint Sealants: For liquid sealants applied over preformed seals in dual seal systems.

1.2 ACTION SUBMITTALS

A. Product Data: For each product.

B. Shop Drawings: For each joint closure, including plans, elevations, sections, details, attachments to other work.

C. Samples: For each type and color of preformed joint seal required, provide Samples with joint seals in 1/2-inch- wide joints formed between two 6-inch- long strips of material matching the appearance of exposed surfaces adjacent to joint seals.

D. Preformed Joint Seal Schedule: Include the following information:
   1. Joint seal location and designation.
   2. Joint width and movement capability.
   3. Joint seal manufacturer and product name.
   4. Joint seal color.

1.3 QUALITY ASSURANCE

A. Mockups: Install mockups of assemblies specified in other Sections that are indicated to receive preformed joint seals specified in this Section. Use materials and installation methods specified in this Section.

1.4 PROJECT CONDITIONS

A. Joint Substrate Conditions: Do not proceed with joint installation until contaminants capable of interfering with their adhesion are removed from joint substrates.

B. Compatibility and Adhesion Testing: Ascertain joint seal compatibility and adhesion with adjacent materials using laboratory testing procedures.

1.5 WARRANTY

A. Special Warranty: Installer agrees to repair or replace preformed joint seals that do not comply with performance and other requirements specified in this Section within specified warranty period.
   1. Warranty Period: [**Two**] years from date of Substantial Completion.

B. Special Manufacturer's Warranty: Manufacturer agrees to furnish preformed joint seals to repair or replace those that do not comply with performance and other requirements specified in this Section within specified warranty period.
   1. Warranty Period: [**Five**] years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PRODUCT REQUIREMENTS

A. Products and Manufacturers: Provide Basis of Design product or equivalent product as approved by Architect by one of the following manufacturers:

1. Emseal Joint Systems Ltd. (a Sika Company) .
2. Tremco
3. Watson Bowman Acme Corporation (WABO).
4. Construction Specialties.
5. Dayton Superior Specialty Chemicals.
6. Sandell Manufacturing Co., Inc..
7. Schul International, Inc..

B. Compatibility: Provide joint seal and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by manufacturer, based on testing and field experience.

C. Colors: Colors as selected by Architect from manufacturer's standard colors. Acceptance of sealant will depend on range of standard colors available for selection.

REVISION NOTE: Further development of single source requirement is needed.

D. *Single Source: For vertical and horizontal…*

2.2 PREFORMED FOAM JOINT SEALS

2.3 SILICONE-COATED PREFORMED FOAM JOINT SEALS

REVISION NOTE: Further development forthcoming… Product research and verify likeness of each product listed in each category.

A. (PFJS-1) Silicone-Coated Foam Joint Seal, **Seismic**: Multi-faced, silicone-coated, precompressed, primary seal seals both sides of substrate; Primary Vertical Joint Applications. Movement: 100% (± 50%

1. Manufacturers and Products:
   a. Emseal; Seismic Colorseal-DS.
   b. Tremco; Willseal Seismic.
   c. Wabo; WaboSeismic WeatherSeal (SWS).
2. Joint Seal Width: As recommended by joint seal Manufacturer for sealing joints of nominal width as shown and as verified in the field.
3. Color: As selected by Architect from Manufacturer's standard options.

B. (PFJS-2) Silicone-Coated Foam Joint Seal: Flexible profile manufactured from open-cell polyether urethane foam, impregnated with a waterproof polymer sealing compound that meets ASTM 518, ASTM 283 and DIN 18542, with a factory applied Traffic grade silicone membrane coating; designed to provide protection against moisture and water intrusion on horizontal surfaces; capable of providing a minimum of plus or minus 50% building movement and accommodate moderate variations in width of opening, complex directional change transitions and resist ultraviolet degradation.

1. Vertical:
   a. Emseal; Colorseal.
   b. Tremco; Willseal Color Coreseal V.
   c. Wabo; WaboWeatherSeal II (WS).
2. Horizontal:
   a. Emseal; Horizontal Colorseal.
   b. Tremco; Willseal Color Coreseal H.
   c. Tremco; Willseal 250.
   d. Wabo; EH Series
3. Vertical and Horizontal:

a. Emseal; DSM System.

4. Joint Seal Width: As recommended by joint seal Manufacturer for sealing joints of nominal width as shown and as verified in the field.
5. As selected by Architect from Manufacturer's standard options.

2.4 INSTALLATION ACCESSORIES

A. Primer: Material recommended by preformed-joint-seal manufacturer for joint substrates indicated.

B. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to preformed joint seal manufacturer, free of oily residues or other substances capable of staining or harming joint substrates and adjacent nonporous surfaces, and formulated to promote best adhesion to joint substrates.

C. Masking Tape: Nonstaining, nonabsorbent material compatible with preformed joint seals and surfaces adjacent to joints.

D. Splice Adhesive for Foam Gasket Seal: One part urethane wet sealant as recommended by gasket seal manufacturer.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine joints indicated to receive preformed joint seals, with Installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting preformed-joint seal performance.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Surface Cleaning of Joints: Clean out joints immediately before installing preformed joint seals to comply with preformed joint seal manufacturer's written instructions and the following requirements:

1. Remove all foreign material from joint substrates that could interfere with adhesion of preformed joint seal, including dust, paints (except for permanent protective coatings tested and approved for seal adhesion and compatibility by seal manufacturer), old joint sealants, oil, grease, waterproofing, water repellents, water, surface dirt, and frost.
2. Clean porous joint substrate surfaces by brushing, grinding, mechanical abrading, or a combination of these methods to produce a clean, sound substrate capable of developing optimal bond with preformed joint seals. Remove loose particles remaining after cleaning operations above by vacuuming or blowing out joints with oil-free compressed air. Porous joint substrates include the following:
   a. Concrete. Remove laitance and form-release agents from concrete.
   b. Masonry.
   c. Unglazed surfaces of ceramic tile.
   d. Exterior insulation and finish systems.
3. Clean nonporous joint substrate surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues capable of interfering with adhesion of joint seals. Nonporous joint substrates include the following:
   a. Metal.
   b. Glass.
   c. Porcelain enamel.
   d. Glazed surfaces of ceramic tile.

B. Joint Priming: Prime joint substrates where recommended by preformed joint seal manufacturer or as indicated by tests or prior experience. Apply primer to comply with joint seal manufacturer's written instructions. Confine primers to areas of joint seal bond; do not allow spillage or migration onto adjoining surfaces.

C. Masking Tape: Use masking tape where required to prevent contact of adhesive or primer with adjoining surfaces that otherwise would be permanently stained or damaged by such contact or by cleaning methods required to remove smears. Remove tape immediately after tooling without disturbing joint seal.

3.3 INSTALLATION

A. General: Comply with preformed joint seal manufacturer's written installation instructions for products and applications indicated unless more stringent requirements apply.

B. Install each length of seal immediately after removing protective wrapping.

C. Firmly secure compressed joint seals to joint gap side to obtain full bond using exposed pressure-sensitive adhesive or field-applied adhesive as recommended by manufacturer.

D. Do not pull or stretch material. Produce seal continuity at splices, ends, turns, and intersections of joints.

E. For applications at low ambient temperatures, heat foam joint seal material in compliance with manufacturer's written instructions.

3.4 INSTALLED WORK

A. Protect preformed joint seals from damage resulting from construction operations or other causes so seals are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out, remove, and repair damaged or deteriorated seals immediately so installations with repaired areas are indistinguishable from original work.

END OF SECTION

SECTION 079200
JOINT SEALANTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Exterior and interior sealants (SLNT).

B. Related Sections:
   1. Section 078400 - Penetration Firestopping.
   2. Section 078443 - Joint Firestopping.
   3. Section 079100 - Preformed Joint Seals: (PFJS).
   4. Section 088000 - Glazing: Glazing sealant.
   5. Section 092900 - Gypsum Board: Acoustical sealant at gypsum board systems.

1.2 ACTION SUBMITTALS

A. Product Data: For each joint-sealant product.
   1. Submit Manufacturer's certifications that products comply with specified requirements and with local regulations for VOC content.

B. Color Samples:
   1. Samples for Initial Selection: Manufacturer's color charts consisting of actual strips of cured sealants showing the full range of colors available for each product exposed to view.
   2. Samples for Verification: For each kind and color of joint sealant selected, provide Samples with joint sealants in 1/2-inch- wide joints formed between two 6-inch- long strips of material matching the appearance of exposed surfaces adjacent to joint sealants.

C. Product Schedule: Cross-reference locations and applications of SLNT indicated on Drawings with products in Part 2 of this Section. Indicate proposed product, product type and color.

1.3 INFORMATIONAL SUBMITTALS

A. Qualification Data: For qualified testing agency.

B. Sample Warranties: For special warranties.

C. Quality Control Submittals:
   1. Product Test Reports: For each kind of joint sealant.
   2. Preconstruction Laboratory Test Reports: From sealant manufacturer, indicating the following:
   3. Statement of qualification for manufacturers and installers.
   4. Statement of compliance for compatibility of sealant with adjacent materials and coatings.
   5. Field-Adhesion-Test Reports: For each sealant application tested.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: Engage experienced Installer who has completed joint sealant applications similar in material, design, and extent to that indicated for Project that have resulted in construction with record of successful in-service performance.

B. Provide materials for exterior envelope from a single manufacturer.

C. Compatibility: Verify compatibility of silicone sealant with materials in contact with sealant. Provide list of stone materials and verify that silicone sealant will not stain or damage stone work.

D. Mockups: Install sealant in mockups of assemblies specified in other Sections that are indicated to receive joint sealants specified in this Section. Use materials and installation methods specified in this Section.

E. Integrated Mockups: Provide joint sealants for integrated mockups in accordance with Section 014300 - Mockups.

1.5 PRECONSTRUCTION TESTING

A. Preconstruction Field-Adhesion Testing: Before installing sealants, field test their adhesion to Project joint substrates as follows:
   1. Locate test joints where indicated on Project or, if not indicated, as directed by Architect.
   2. Conduct field tests for each kind of sealant and joint substrate.
   3. Notify Architect seven days in advance of dates and times when test joints will be erected.
   4. Arrange for tests to take place with joint-sealant manufacturer's technical representative present.
      a. Test Method: Test joint sealants according to Method A, Field-Applied Sealant Joint Hand Pull Tab, in Appendix X1.1 in ASTM C1193 or Method A, Tail Procedure, in ASTM C1521.
         1) For joints with dissimilar substrates, verify adhesion to each substrate separately; extend cut along one side, verifying adhesion to opposite side. Repeat procedure for opposite side.
   5. Report whether sealant failed to adhere to joint substrates or tore cohesively. Include data on pull distance used to test each kind of product and joint substrate. For sealants that fail adhesively, retest until satisfactory adhesion is obtained.
   6. Evaluation of Preconstruction Field-Adhesion-Test Results: Sealants not evidencing adhesive failure from testing, in absence of other indications of noncompliance with requirements, will be considered satisfactory. Do not use sealants that fail to adhere to joint substrates during testing.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to project site in original unopened containers or bundles with labels informing about manufacturer, product name and designation, color, expiration period for use, pot life, curing time and mixing instructions for multi component materials.

B. Store and handle materials to prevent their deterioration or damage due to moisture, temperature changes, contaminants, or other causes.

1.7 PROJECT CONDITIONS

A. Weather Conditions: Do not proceed with installation of sealant under adverse weather conditions, or when temperatures are below or above manufacturer's recommended limitations for installation.
   1. Proceed with work only when forecasted weather conditions are favorable for proper cure and development of high early bond strength.
   2. Wherever joint width is affected by ambient temperature variation, apply elastomeric sealant only when temperatures are in lower third of manufacturer's recommended installation temperature range, so that sealant will not be subjected to excessive elongation and bond stress at subsequent low temperatures.

B. Joint Width Conditions: Do not proceed with installation of joint sealers when joint widths are less than allowed by joint sealer manufacturer for application indicated.

C. Joint Substrate Conditions: Do not proceed with installation of joint sealers until contaminants capable of interfering with their adhesion are removed from joint substrates.

D. Compatibility and Adhesion Testing: Ascertain sealant compatibility and adhesion with adjacent materials using laboratory testing procedures.

PART 2 - PRODUCTS

2.1 SEALANT, GENERAL

A. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience.

B. Sealant Colors: In accordance with approved sealant color schedule.
   1. Colors as selected by Architect from manufacturer's standard colors. Acceptance of sealant will depend on range of standard colors available for selection.
   2. Custom Color:

2.2 POLYURETHANE SEALANT

A. (SLNT-2) 2-Part Polyurethane Sealant for Horizontal Applications: Self-leveling polyurethane based 2 part elastomeric sealant, complying with FS-TT-S-00227E, Type I, Class A, with shore A hardness of not less than 30 and elongation and compression of not less than 25 percent. ASTM C920, Type M, Class 25, Grade P.
   1. Manufacturers and Products:
      a. Tremco Incorporated: THC900.
      b. Master Builders Solutions: MasterSeal SL-2.
      c. Pecora Corporation: Urexpan NR-200.
   2. Applications:
      a. Joints in horizontal surfaces subject to traffic.
      b. Isolation and contraction joints in cast-in-place concrete slabs.
      c. Joints between plant-precast architectural concrete paving units.
      d. Tile control and expansion joints.
      e. Joints between different materials listed above.
      f. Other joints as indicated.

2.3 SILICONE SEALANT

A. (SLNT-3) Low-Modulus Silicone Rubber Sealant: Silicone rubber based, one part neutral cure elastomeric sealant with plus 50 percent to minus 50 percent movement complying with FS-TT-S-001543, Class A, and recommended by manufacturer for joints.
   1. Manufacturers and Products:
      a. General Electric: Silpruf SCS 2000.
      b. Dow Corning Corporation: 795 Building Sealant.
      c. BASF Building Systems: Sonolastic Omniseal or OmniPlus.
      d. Pecora Corporation: 864 Silicone.
      e. Tremco Construction Division: Spectrem 3.
   2. Applications: Exterior Vertical Surfaces and Horizontal Surfaces Not Subject to Traffic:
      a. Construction joints in cast-in-place concrete.
      b. Control and expansion joints in interior and exterior unit masonry.
      c. Joints between metal panels.
      d. Joints between different materials listed above.
      e. Other joints as indicated.

B. (SLNT-8) Silicone Sealant, Mildew-Resistant: ASTM C 920; Type S; Grade NS; Class 25; Uses NT, G, A, and, as applicable to nonporous joint substrates indicated, O; formulated with fungicide, intended for sealing interior nonporous substrates that are subject to in-service exposures of high humidity and extreme temperatures.
   1. Products and Manufacturers:
      a. Dow Corning Corporation; Dow Corning 786.
      b. GE Silicones; a division of GE Specialty Materials; Sanitary 1700.
      c. Laticrete International, Inc.; Latasil Tile & Stone Sealant.
      d. Pecora Corporation; Pecora 898 Sanitary Silicone Sealant.
      e. Tremco Incorporated; Tremsil 200 White.

2. Applications: Interior joints as follows:
    a. Joints between plumbing fixtures and adjoining walls, floors, and counters.
    b. Tile control and expansion joints where indicated.
    c. Joints subject to water and high moisture areas.

2.4 ACRYLIC SEALANT

A. (SLNT-7) Acrylic Sealants: General purpose, paintable acrylic-emulsion sealant. Caulk with approximately 12-1/2 percent elongation complying with ASTM C834.
    1. Products and Manufacturers:
        a. Tremco Incorporated: Acrylic Latex 834.
        b. Pecora Corporation: AC-20.
    2. Location/Use:
        a. Joints in vertical surfaces and in horizontal surfaces not subject to traffic.
        b. Control and expansion joints on exposed interior surfaces of exterior walls.
        c. Vertical joints on exposed surfaces of interior unit masonry, concrete, walls, and partitions.
        d. Perimeter joints between interior wall surfaces and frames of interior doors, windows and elevator entrances.
        e. Joints between plant-precast structural concrete units.
        f. Other joints as indicated.

B. Acoustic Joint Sealant: Refer to Section 092900 for acoustic sealant in gypsum board assemblies.

2.5 JOINT SEALANT BACKING

A. Joint Sealant Backer Rod Manufacturers:
    1. Denver Foam, Backer Rod Manufacturing, Inc.
    2. Construction Foam Products, Nomaco Inc..

B. General: Provide sealant backings of material that are nonstaining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.

C. Sealant Backing Material: Nonstaining, sealants, primers, and other joint fillers; compatible with joint substrates; and approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.

D. Cylindrical Sealant Backings: ASTM C 1330, Type C (closed-cell material with a surface skin), as approved in writing by joint-sealant manufacturer for joint application indicated, and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.

E. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials or joint surfaces at back of joint. Provide self-adhesive tape where applicable.

2.6 PREPARATORY MATERIALS

A. Joint Primer: Non-staining type recommended by sealant manufacturer to suit application.

B. Joint Cleaner: Non-corrosive type recommended by sealant manufacturer; compatible with joint forming materials.

C. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.

D. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials, free of oily residues or other substances capable of staining or harming joint substrates and adjacent nonporous surfaces in any way, and formulated to promote optimum adhesion of sealants to joint substrates.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine joint surfaces, backing, and anchorage of units forming sealant rabbet, and conditions under which sealant work is to be performed. Do not proceed with sealant work until unsatisfactory conditions have been corrected.

3.2 JOINT SURFACE PREPARATION

A. Preparation: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions.
   1. Joint Priming: Prime joint substrates where recommended by joint-sealant manufacturer or as indicated by preconstruction joint-sealant-substrate tests or prior experience. Apply primer to comply with joint-sealant manufacturer's written instructions. Confine primers to areas of joint-sealant bond; do not allow spillage or migration onto adjoining surfaces.
   2. Masking Tape: Use masking tape where required to prevent contact of sealant or primer with adjoining surfaces that otherwise would be permanently stained or damaged by such contact or by cleaning methods required to remove sealant smears. Remove tape immediately after tooling without disturbing joint seal.

B. Clean joint surfaces immediately before installation of sealant. Remove dirt, insecure coatings, moisture and other substances which would interfere with bond of sealant.

C. Etch concrete and masonry joint surfaces to remove excess alkalinity, unless sealant manufacturer's printed instructions indicate that alkalinity does not interfere with sealant bond and performance. Etch with 5 percent solution of muriatic acid; neutralize with dilute ammonia solution, rinse thoroughly with water and allow to dry before sealant application.

D. Roughen joint surfaces on vitreous coated and similar non-porous materials, wherever sealant manufacturer's data indicates lower bond strength than for porous surfaces. Rub with fine abrasive cloth or steel wool to produce dull sheen.

E. Ensure that joint forming materials are compatible with sealant.

F. Examine joint dimensions and size materials to achieve required width/depth ratios. Use joint filler to achieve required joint depths, to allow sealants to perform properly.

3.3 SEALANT APPLICATION

A. Installation:
   1. Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated, unless more stringent requirements apply.
   2. Sealant Installation Standard: Comply with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.
   3. Install sealant backings of kind indicated to support sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.
   4. Install sealants using proven techniques that comply with the following and at the same time backings are installed:
   5. Tooling of Nonsag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants according to requirements specified in subparagraphs below to form smooth, uniform beads of configuration indicated; to eliminate air pockets; and to ensure contact and adhesion of sealant with sides of joint.

B. Apply sealant in accordance with manufacturer's printed instructions. Perform work in accordance with ASTM C804.

C. Prime or seal joint surfaces. Do not allow primer/sealer to spill or migrate onto adjoining surfaces.

D. Install sealant backer rod for liquid elastomeric sealant, except where recommended to be omitted by sealant manufacturer for application shown.

E. Install bond breaker tape wherever required by manufacturer's recommendations to ensure that elastomeric sealant will perform properly.

F. Employ only proven installation techniques, which will ensure that sealant will be deposited in uniform, continuous ribbons without gaps or air pockets, with complete "wetting" of joint bond surfaces equally on opposite sides.

1. Except as otherwise indicated, fill sealant rabbet to slightly concave surface, slightly below adjoining surfaces. Where horizontal joints are between horizontal surface and vertical surface, fill joint to form slight cove, so that joint will not trap moisture and dirt.

G. Install sealant to depth as shown or, if not shown, as recommended by sealant manufacturer but within following general limitations, measured at center (thin) section of bead:

1. For sidewalks, pavements and similar joints sealed with elastomeric sealant and subject to traffic and other abrasion and indention exposures, fill joints to depth equal to 75 percent of joint width, but not more than 5/8 inch deep nor less than 3/8 inch deep.
2. For normal moving joints sealed with elastomeric sealant, but not subject to traffic, fill joint to depth equal to 50 percent of joint width, but not more than 1/2 inch deep nor less than 1/4 inch deep.

H. Interior joints not subject to movement, these are:

1. Gypsum board to masonry joints.
2. Gypsum board to hollow metal joints.
3. Gypsum board to concrete joints.

I. Do not allow sealant or compounds to overflow or flow onto adjoining surfaces, or to migrate into voids of adjoining surfaces including rough texture surfaces. Use masking tape or other precautionary devices to prevent staining of adjoining surfaces, by either primer/sealer or sealant.

J. Remove excess and spillage of sealant promptly as work progresses. Clean adjoining surfaces by whatever means may be necessary to eliminate evidence of spillage, without damage to adjoining surfaces or finishes.

K. Rope Wicks: Where wicks for weeping masonry cavity occur in sealant, cut wick flush with sealant face and do not seal wick ends.

3.4 PROTECTION AND CLEANING

A. Protect joint sealers during and after curing period from contact with contaminating operations or other causes so that they are without deterioration or damage at time of Substantial Completion.

1. If, despite such protection, damage or deterioration occurs, cut out and remove damaged or deteriorated joint sealers immediately and reseal joints with new materials to produce joint sealer installations with repaired areas indistinguishable from original work.

B. Clean off excess sealant or sealant smears adjacent to joints as work progresses by methods and with cleaning materials approved by manufacturers of joint sealers and of products in which joints occur.

END OF SECTION

SECTION 081113
HOLLOW METAL DOORS & FRAMES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Pressed steel hollow metal doors and frames.
   2. Fire-rated hollow metal doors and frames.
   3. Hollow metal glazed openings, and other hollow metal frames for glass.
   4. Rough bucks, frame reinforcing, door reinforcing, door insulation, closure panels, clip angles and anchorage.
   5. Factory prime paint finish.

1.2 COORDINATION

A. Anchorages: Coordinate installation of anchorages for hollow metal frames. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors. Deliver such items to Project site in time for installation.

B. Preparation for Hardware: Reinforced and machine hollow metal work for hardware specified in Sections 087100 and automatic door operators 087113.
   1. Obtain templates, shop drawings, jigs, or materials, and a copy of the accepted Hardware Schedule from the hardware distributor.
   2. Templates: Door hardware supplier is to furnish templates, template reference number and/or physical hardware to the steel door and frame supplier in order to prepare the doors and frames to receive the finish hardware items.
   3. Reinforcing: Reinforce the work of this Section to meet requirements for anchoring hardware using concealed fasteners.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product. Include construction details, material descriptions, core descriptions, fire-resistance ratings, temperature-rise ratings, and finishes.

B. Shop Drawings: Include the following:
   1. Elevations of each door type.
   2. Details of doors, including vertical- and horizontal-edge details and metal thicknesses.
   3. Frame details for each frame type, including dimensioned profiles and metal thicknesses.
   4. Locations of reinforcement and preparations for hardware.
   5. Details of each different wall opening condition.
   6. Details of anchorages, joints, field splices, and connections.
   7. Details of accessories.
   8. Details of moldings, removable stops, and glazing.
   9. Details of conduit and preparations for power, signal, and control systems.

C. Schedule: Provide a schedule, in electronic PDF format, of hollow-metal work prepared by or under the supervision of supplier, using same reference numbers for details and openings as those on Drawings. Coordinate with final Door Hardware Schedule.

1.4 INFORMATIONAL SUBMITTALS

A. Product Test Reports: For each type of fire-rated hollow-metal door and frame assembly, for tests performed by a qualified testing agency.

B. Oversize Construction Certification: For assemblies required to be fire-rated and exceeding limitations of labeled assemblies.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver hollow-metal work palletized, packaged, or crated to provide protection during transit and Project-site storage. Do not use nonvented plastic.

B. Deliver welded frames with two removable spreader bars across bottom of frames, tack welded to jambs and mullions.

C. Store hollow-metal work vertically under cover at Project site with head up. Place on minimum 4-inch- high wood blocking. Provide minimum 1/4-inch space between each stacked door to permit air circulation.

D. Handle hollow metal with care to prevent damage to hollow metal and to factory-applied primer and galvanized coatings.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Fire-Rated Assemblies: Complying with NFPA 80 and listed and labeled by a qualified testing agency acceptable to authorities having jurisdiction for fire-protection ratings and temperature-rise limits indicated, based on testing at positive pressure according to NFPA 252 (neutral pressure at 40" above sill) or UL 10C.

1. Smoke- and Draft-Control Assemblies: Provide an assembly with gaskets listed and labeled for smoke and draft control by a qualified testing agency acceptable to authorities having jurisdiction, based on testing according to UL 1784 and installed in compliance with NFPA 105. Provide smoke and draft control gasketing applied to frame and on meeting stiles of pair doors.
2. Oversize Fire-Rated Door Assemblies: For door assemblies required to be fire-rated and exceeding sizes of tested assemblies, provide certificate or label from approved independent testing and inspection agency, indicating that door and frame assembly conforms to requirements of design, materials and construction as established by individual listings for tested assemblies.
3. Temperature Rise Rating: At stair enclosures, provide doors with Temperature Rise Rating of 450 degrees F maximum in 30 minutes of fire exposure.

2.2 MANUFACTURERS

A. Source Limitations: Obtain hollow-metal work from single source from single manufacturer.

B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Ceco Door Products; an Assa Abloy Group company.
2. Curries Company; an Assa Abloy Group company.
3. Deansteel Manufacturing.
4. Door Components, Inc..
5. Hollow Metal Xpress.
6. Pioneer Industries, Inc..
7. Republic Doors and Frames.
8. Steelcraft; an Ingersoll-Rand company.

2.3 MATERIALS AND COMPONENTS

A. Recycled Content of Steel Products: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 25 percent.

B. Steel Sheets:

1. Cold-Rolled Steel Sheet: ASTM A1008, Commercial Steel (CS), Type B; suitable for exposed applications.
2. Hot-Rolled Steel Sheet: ASTM A1011, Commercial Steel (CS), Type B; free of scale, pitting, or surface defects; pickled and oiled.
3. Galvanized Steel Sheet: ASTM A653, Commercial Steel (CS), Type B; with minimum G60 or A60 metallic coating.

a. Provide galvanized steel sheets for exterior hollow metal doors, door and window frames, frame anchors and reinforcements, and louvers.

C. Fastenings: Provide fastenings, anchors and clips as required to secure hollow metal work in place. Provide Jackson head screws, or flatter. Dimple metal work to receive screw heads. Set stops and other non-structural fastenings with #8 FHSMS.

D. Mineral-Fiber Insulation: ASTM C665, Type I (blankets without membrane facing); consisting of fibers manufactured from slag or rock wool; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively; passing ASTM E136 for combustion characteristics.

E. Steel Reinforcing: ASTM A36.

2.4 FABRICATION, GENERAL

A. Fabricate hollow-metal work to be rigid and free of defects, warp, or buckle. Accurately form metal to required sizes and profiles, with minimum radius for metal thickness. Where practical, fit and assemble units in manufacturer's plant. To ensure proper assembly at Project site, clearly identify work that cannot be permanently factory assembled before shipment.

B. Construct doors and frames to comply with the standards indicated for materials, fabrication, hardware locations, hardware reinforcement, tolerances, and clearances, and as specified.

1. Refer to Openings Schedule on Drawings for openings and locations.
2. Door Thickness: 1-3/4 inches, unless otherwise indicated.
3. Door Edge Construction: Model 2, Seamless.
4. Minimum Thickness: Construct from base metal without coatings according to NAAMM-HMMA 803 and SDI A250.8. Provide heavier gage if required by details or specific condition. Entire frame and sidelight shall be of same gage.

C. Interior Doors and Frames:

1. Provide Heavy-Duty Doors and Frames: ANSI/SDI A250.8, Level 2; ANSI/SDI A250.4, Level B; 0.042 inch (20 ga.) minimum steel thickness, typical.
2. Provide Maximum-Duty Doors and Frames, ANSI/SDI A250.8, Level 4; ANSI/SDI A250.4, Level A; 0.067 inch (16 ga.) minimum thickness, at the following conditions:
   a. Single Door Openings Exceeding 48 inches Wide.
   b. Pair of Doors with Either Door Exceeding 48 inches Wide.
   c. Openings with Nominal Door Opening Height of 120 inches or more.

2.5 HOLLOW METAL FRAMES

A. General: Provide frames as full profile welded unless otherwise indicated. Where necessary, alternate details will be considered provided design intent is maintained. Consider and provide for erection methods.

1. Clearances: Provide and be responsible for proper clearances at metal frames, including for weatherstripping, sound stripping and smoke gasketing. Glass clearance shall be thickness of glass plus clearance each side (1/8 inch minimum exterior - 1/16 inch minimum interior), adjust for installation, glass thickness to allow for glazing and sealant. Where sealed double glazing is indicated, provide rebates minimum of 3/4 inch and provide 1/4 inch clearance at glass edges. Where units fit around concrete blocks (blocks built into frames) obtain actual dimensions of blocks being used to establish minimum clearances.
2. Fire-Rated and Smoke-Rated Frames: Construct in accordance with requirements for labeled work. Attach proper U.L. label, Warnok Hersey. "B" labeled frames shall be 1-1/2 hour construction.

B. Sidelight and Transom Bar Frames: Provide closed tubular members with no visible face seams or joints, fabricated from same material as door frame. Fasten members at crossings and to jambs by butt welding.

1. Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners unless otherwise indicated.

C. Mullions: Provide mullions, continuously reinforced, straight and without twist, of tubular design. For removable mullions provide fastenings of non-ferrous bolts at bottom, with sleeves at head of frame for mullion to clip over.

D. Stops and Moldings: Provide stops and moldings around glazed lites and louvers where indicated. Form corners of stops and moldings with [butted] [or] [mitered] hairline joints.
   1. Single Glazed Lites: Provide fixed stops and moldings welded on secure side of hollow-metal work.
   2. Multiple Glazed Lites: Provide fixed and removable stops and moldings so that each glazed lite is capable of being removed independently.
   3. Provide fixed frame moldings on outside of exterior and on secure side of interior doors and frames.
   4. Provide loose stops and moldings on inside of hollow-metal work.
   5. Coordinate rabbet width between fixed and removable stops with glazing and installation types indicated.

E. Jamb Anchors:
   1. Masonry Type: Adjustable strap-and-stirrup or T-shaped anchors to suit frame size, not less than 0.042 inch thick, with corrugated or perforated straps not less than 2 inches wide by 10 inches long; or wire anchors not less than 0.177 inch thick.
   2. Stud-Wall Type: Designed to engage stud, welded to back of frames; not less than 0.042 inch thick.
   3. Postinstalled Expansion Type for In-Place Concrete or Masonry: Minimum 3/8-inch- diameter bolts with expansion shields or inserts. Provide pipe spacer from frame to wall, with throat reinforcement plate, welded to frame at each anchor location.

F. Floor Anchors: Formed from same material as frames, not less than 0.042 inch thick, and as follows:
   1. Monolithic Concrete Slabs: Clip-type anchors, with two holes to receive fasteners.
   2. Separate Topping Concrete Slabs: Adjustable-type anchors with extension clips, allowing not less than 2-inch height adjustment. Terminate bottom of frames at finish floor surface.

G. Fasteners:
   1. Inserts, Bolts, and Fasteners: Hot-dip galvanized according to ASTM A153.
   2. Power-Actuated Fasteners in Concrete: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with clips or other accessory devices for attaching hollow-metal frames of type indicated.

2.6 HOLLOW METAL DOORS

A. Flush Doors: Reinforce, stiffen and sound deaden. Provide cut-outs for glass and louvers with stops as shown.
   1. Provide flush steel closure at top of exterior and interior doors and at bottom of exterior doors with drain holes in bottom closure. Following door construction types are acceptable.
   2. Steel-Stiffened Door Cores: Provide minimum thickness 0.026 inch, steel vertical stiffeners of same material as face sheets extending full-door height, with vertical webs spaced not more than 6 inches apart. Spot weld to face sheets no more than 5 inches o.c. Fill spaces between stiffeners with glass- or mineral-fiber insulation.
   3. Seamless Vertical Edges: Construct doors with smooth flush surfaces, without visible joints or seams on exposed faces or stile edges. Tack weld door edge seams, fill with body putty and grind smooth.
   4. Top Edge Closures: Close top edges of doors with flush closures of same material as face sheets.
   5. Bottom Edge Closures: Close bottom edges with end closures or channels of same material as face sheets.
      a. Exterior doors where required for attachment of weather stripping
      b. Interior doors to receive sound gasket.

B. Fire-Rated Doors: Insulate as required by Underwriters Laboratories. Build in special hardware and provide astragals as indicated.

1. Fire Door Cores: As required to provide fire-protection and temperature-rise ratings indicated.

2.7 FINISHES

A. Shop Primer: Manufacturer's standard, fast-curing, lead- and chromate-free primer complying with ANSI/SDI A250.10; recommended by primer manufacturer for substrate; compatible with substrate and field-applied coatings despite prolonged exposure.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine supporting structure and conditions under which hollow metal is to be installed. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Install hollow metal in accordance with reviewed shop drawings and manufacturer's printed instructions. Securely fasten and anchor work in place without twists, warps, bulges or other unsatisfactory or defacing workmanship. Set hollow metal plumb, level, square to proper elevations, true to line and eye. Set clips and other anchors with Ramset "shot" anchors or drill in anchors as approved. Units and trim shall be fastened tightly together, with neat, uniform and tight joints.

B. Placing Frames: Set frames accurately in position, plumbed, aligned, and braced securely until permanent anchors are set. After wall construction is complete, remove temporary braces and spreaders leaving surfaces smooth and undamaged.
   1. At acoustic rated metal stud and gypsum board partitions, install insulation within frames.
   2. Floor Anchors: Provide floor anchors for each jamb and mullion that extends to floor, and secure with post-installed expansion anchors.
   3. Ceiling Struts: Extend struts vertically from top of frame at each jamb to overhead structural supports or substrates above frame unless frame is anchored to masonry or to other structural support at each jamb. Bend top of struts to provide flush contact for securing to supporting construction. Provide adjustable wedged or bolted anchorage to frame jamb members.
   4. Installation Tolerances: Adjust hollow metal door frames for squareness, alignment, twist, and plumb to the following tolerances:
      a. Squareness: Plus or minus 1/16 inch (1.6 mm), measured at door rabbet on a line 90 degrees from jamb perpendicular to frame head.
      b. Alignment: Plus or minus 1/16 inch (1.6 mm), measured at jambs on a horizontal line parallel to plane of wall.
      c. Twist: Plus or minus 1/16 inch (1.6 mm), measured at opposite face corners of jambs on parallel lines, and perpendicular to plane of wall.
      d. Plumbness: Plus or minus 1/16 inch (1.6 mm), measured at jambs at floor.

C. Place fire-rated frames in accordance with NFPA Standard #80.

D. Door Installation: Fit hollow metal doors accurately in their respective frames, within following clearances: Jambs and head 3/32 inch, meeting edges pair of doors 1/8 inch, sill where no threshold or carpet 1/4 inch above finished floor, sill at threshold 3/4 inch maximum above finished floor, sill at carpet 1/4 inch above carpet. Place fire-rated doors with clearances as specified in NFPA Standard #80.
   1. Provide undercut no greater than 3/8-inch at doors equipped with automatic sound seal door bottoms.

3.3 INSTALLED WORK

A. Remove grout and other bonding material from hollow-metal work immediately after installation.

B. Touchup: Sand and clean rusted or abraded surfaces and apply compatible touchup finish:
   1. Primer: Apply air-drying, rust-inhibitive primer.

2. Metallic-Coated Surface: Repair with galvanizing repair paint according to manufacturer's written instructions.
3. Painting: As specified in Section 099000 - Painting.

C. Protection Removal: Immediately before final inspection, remove protective wrappings from doors and frames.

D. Final Adjustments: Check and readjust operating hardware items immediately before final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including hollow-metal work that is warped, bowed, or otherwise unacceptable.

END OF SECTION

SECTION 082000
SLIDING DOOR ASSEMBLIES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Face-of-wall-mounted sliding door assemblies with aluminum-framed glass doors.
   2. Aluminum-framed glass interior partitions.
   3. Assembly includes door tracks, valance, top-hung doors on rolling trucks, side-rolling operation.

1.2 REFERENCES

A. ANSI – American National Standards Institute
   1. ANSI 156.18 Materials and Finishes
   2. ANSI A117.1 Specifications for making buildings and facilities usable by physically handicapped people.

B. BHMA – Builders Hardware Manufacturers Association

C. DHI – Door and Hardware Institute

D. AWS – Architectural Woodwork Standards

1.3 ACTION SUBMITTALS

A. Product Data: Submit manufacturer's product data, including installation instructions.

B. Shop Drawings: Submit manufacturer's shop drawings, including plans, elevations, sections, and details, indicating dimensions, tolerances, materials, components, hardware, finish, options, and accessories. Shop Drawings to show required blocking by others.

C. Samples: Submit manufacturer's samples of the following sliding door components:
   1. Door veneer or laminate sample
   2. Aluminum Frame finish sample

1.4 QUALITY ASSURANCE

A. Product Options: Drawings indicate size, profiles, and dimensional requirements of interior aluminum frames and doors.

B. Source: Obtain sliding aluminum framed doors and hardware from single source.

C. Manufacturer's Qualifications: Manufacturer regularly engaged for past 5 years in manufacture of sliding doors similar to that specified.

1.5 DELIVERY, STORAGE AND PROTECTION

A. Delivery and Acceptance Requirements: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.

B. Notify manufacturer immediately of any shipping damage.

C. Storage and Handling Requirements:
   1. Store and handle materials in accordance with manufacturer's instructions.
   2. Keep materials in manufacturer's original, unopened containers and packaging until installation.
   3. Store materials in clean, dry area indoors.
   4. Protect materials and finish during storage, handling, and installation to prevent damage.

PART 2 - PRODUCTS

BC1

2.1 PRODUCTS (SD-4)

A. Interior Aluminum Framed Top-Hung Sliding Doors:
   1. Basis of Design: ExamSlide High Performance Barn (Sliding) Door System by AD Systems.

B. Operation:
   1. Aluminum perimeter frames with integral acoustic seals.
   2. Soft self-closing mechanism integrated with top track.
   3. Concealed door guide.

C. Frames: Extruded aluminum frames with integral vertical jamb (stile pocket).
   1. Finish: Color Anodic Finish: AAMA 611, AA-M12C22A42/A44, Class I, 0.018 mm or thicker.
   2. Color: As selected by Architect.

D. Frame Profiles: Extruded aluminum frame “wrap” frame with integral vertical jamb (stile pocket). Frames required to complete seal around door leaf. Gasketing required at all frame to door interfacings. Exposed gaskets at jamb to be silicone.

E. Door Panel: All Doors to be factory machined for hardware including pilot and function holes.
   1. **Flush Wood Door**: Reference Spec Section 081400 Wood Doors or other section as applicable.
      a. Door Panel Thickness: 1-3/4" .
      b. Glazing: other glass as specified by architect.
      c. Note: Standard stile widths are 6” with a 10” bottom rail
   2. Glazing: other glass as specified by architect

F. Door Components:
   1. Single Top Track: AD Systems extruded aluminum track by AD Systems
   2. Valances: Standard square valance; extruded aluminum with integral end caps
   3. Top Rollers: Tandem nylon roller sized to match door weight
   4. Concealed Floor Guide: Integral Jamb floor guide.
   5. Soft-Closer: Soft and self-closing damper mechanism at both sides of door leaf
   6. Handles: AD Systems Standard Ladder Pull: 16” long x 1” diameter.
      a. Finish: US32D Satin Stainless Steel
   7. Locks:
      a. As indicated on the Door Hardware Schedule and as specified in Section 087100 Door Hardware.
   8. Self-Closing Spring Mechanism.
   9. Automatic Door Bottom for improved acoustical performance
   10. Power operated, where indicated.

BC1

2.2 PERFORMANCE

A. Steel reinforced aluminum perimeter frames with intumescent seals.

B. Self-closing mechanism integrated with top track.

C. Sill mounted door guide.

D. Self-latching mortise lock with lever.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine wall openings to receive sliding doors for plumb, level, and square. Note: Finish door operation will be affected by out of tolerance framing.

B. Verify dimensions of wall openings.

C. Examine surfaces to receive top and bottom guide.

D. Notify Architect of conditions that would adversely affect installation or subsequent use of sliding doors.

E. Do not begin installation until unacceptable conditions are corrected.

F. Base of door side to be flush or minimal. Rubber Base acceptable.

3.2 INSTALLATION

A. Install sliding doors in accordance with manufacturer's instructions at locations indicated on the Drawings.

B. Install sliding doors plumb, level, square, and in proper alignment.

C. Install sliding doors to close against walls without gaps

D. Install sliding doors to open and close smoothly.

E. Anchor sliding doors securely in place to wood backing in accordance with Manufacturer's warranty requirements.

1. Required: Fire treated 2 x 6 blocking required full length of track.

3.3 INSTALLED WORK

A. Adjusting: Adjust sliding doors for proper operation in accordance with manufacturer's instructions. Adjust sliding doors to operate smoothly without binding.

B. Repairing: Repair minor damages to finish in accordance with manufacturer's instructions and as approved by Architect.

C. Cleaning: Clean sliding doors promptly after installation in accordance with manufacturer's instructions. Do not use harsh cleaning materials or methods that could damage materials or finish.

D. Protecting: Protect installed sliding doors from damage during construction.

END OF SECTION

This page intentionally left blank.

SECTION 087100
DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes:
   1. Commercial door hardware for the following:
      a. Swinging doors.
      b. Sliding doors.
      c. Folding doors.
      d. Other doors to the extent indicated.
   2. Cylinders for doors and locking devices specified in other Sections.
   3. Electrified door hardware.

B. Related Sections:
   1. Section 081113 – Hollow Metal Doors and Frames.
   2. Section 081400 – Wood Doors.
   3. Section 084113 – Aluminum-Framed Entrances and Storefronts
   4. Section 087113 – Automatic Door Operators.
   5. Division 26: Electrical.

1.3 GENERAL REQUIREMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

B. Meet the requirements of CBC Section 716.1
   1. CBC Section 716.2.6.1 Door Closing: Fire doors shall be latching and self – or automatic - closing.
   2. CBC Section 716.2.6.4 Automatic-Closing Fire Door Assemblies: Automatic-closing fire door assemblies shall be self-closing in accordance with NFPA 80

C. Meet requirements of CBC Sections 1010 and 11B.
   1. CBC Sections 1010.1.9: Door Operations shall be provided that affords free egress at all times, does not require a key or prior knowledge for operation and not more than one releasing operation to egress, in accordance with NFPA 101: 7.2.1.5.1,7.2.1.5.3, 7.2.1.5.10.2
   2. CBC Section 1010.1.10: Panic and Exit Hardware.
   3. CBC 11B, Divisions 3 and 4:
      a. 11B-309.4: Operable parts must be operable with one hand not requiring tight grasping, pinching, or twisting of the wrist.
      b. 11B-404.2.5: Thresholds maximum ½-inches high.
      c. 11B-404.2.7: Mount latching hardware 34 inches to 44 inches A.F.F.
      d. 11B-404.2.8.1: Closer Speed from 90 degrees open position to 12 degrees, 5 seconds minimum.
      e. 11B-404.2.9: At interior, exterior, and fire rated doors, 5 lbs., 22.2N maximum opening force.
         1) Increase of opening force at fire rated doors allowable by the appropriate administrative authority not to exceed 15 lbs., 66.7N.
      f. 11B-404.2.10: Swinging doors and gates surfaces within 10 inches of the finish floor or ground measured vertically shall have a smooth surface on the push side extending the full width of the door or gate.
         1)

1.4 COORDINATION

A. Installation Templates: Distribute for doors, frames, and other work specified to be factory prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

B. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.

C. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.

D. Existing Conditions: Where hardware components are reused or where modifications to existing hardware is required, field verify existing conditions and coordinate installation resulting in proper door operation and ensure fire-rating recertification if required.

E. Coordination Meeting: When requested by Architect and/or Owner, the Contractor will schedule a meeting prior to the installation of electrified hardware to review and coordinate functions and connections. Participants to include representatives and–suppliers of all applicable electrified hardware components. Advise Architect/Owner of scheduled date, time, place, and attendees.

1.5 PREINSTALLATION MEETINGS

A. Pre-Installation Conference: Prior to the installation of hardware, manufacturers' representatives must arrange and conduct a jobsite meeting to instruct Installers on the proper installation. A letter of compliance must be sent to the Architect and Owner.

B. Refer to Keying article for keying conference requirements.

1.6 ACTION SUBMITTALS

A. Hardware Schedule: Submit hardware schedule per Section 013300 in vertical format as illustrated by the Sequence of Format for the Hardware Schedule as published by the Door and Hardware Institute. Schedules, which do not comply, will be returned for correction before review. Hardware schedule shall clearly indicate architect's hardware group and manufacturer of each item proposed. The schedule shall be reviewed prior to submission by a certified Architectural Hardware Consultant, who shall affix his or her seal attesting to the completeness and correctness of the schedule.

1. Provide illustrations from manufacturers' catalogs and data in brochure form.
2. Check specified hardware for suitability and adaptability to details and surrounding conditions. Indicate unsuitable or incompatible items and proposed substitutions in the hardware schedule submittal.
3. When requested, provide listing of manufacturers' template numbers for each item of hardware in the hardware schedule submittal.
4. Furnish associated Contractors and Subcontractors with copies of final approved hardware schedule. Submit necessary templates and schedules as soon as possible to hollow metal, wood, aluminum, and other door and frame fabricators in accordance with schedule they require for fabrication.
5. Samples; if requested by Architect, provide for each exposed product in each finish specified, in manufacturer's standard size
   a. Tag Samples with full product description to coordinate Samples with door hardware schedule.
6. List of related door devices specified in other Sections for each door and frame.

B. Closer Mounting: Indicate mounting description for each closer included in the submittal's hardware groups.

C. Existing Hardware Conditions: Refer to Part 1 - Coordination.

1. Advise Hardware Supplier and Architect of any existing conditions which would prevent utilization of specified hardware.

D. Provide keying schedule, prepared by or under the supervision of Installer's Architectural Hardware Consultant, detailing Owner's final keying instructions for locks. Include schematic keying diagram and index each key set to unique door designations that are coordinated with the Contract Documents. Keying schedule to be coordinated with and approved by Owner.

E. Electrified Hardware Coordination:
   1. List all hardware specified in groups and identify items not in your scope as -inchesby Others- inches or other means of identification.
   2. Provide operational descriptions for each electrified hardware group including operation for exit, entry, and fire alarm conditions.
      a. Refer to operational descriptions in electrified hardware groups. Part 3 - Hardware Groups.
   3. Wiring Diagrams: When requested after final approval of the hardware schedule submittal, provide wiring diagrams for each opening that requires electrified hardware.
      a. Exception: groups where only magnetic hold-opens or door position switches are specified.
      b. Approved diagrams to be sent with hardware delivery to the jobsite.

F. Installation Instructions: Provide manufacturer's written installation and adjustment instructions for finish hardware. Send installation instructions to site with hardware.

1.7 QUALITY ASSURANCE

A. Manufacturer: Obtain each type of hardware, i.e. latch and locksets, hinges, closers from single manufacturer, although several may be indicated as offering products complying with requirements.

B. Supplier: Recognized architectural finish hardware supplier, with warehousing facilities, who has been providing hardware for period of not less than 3 years. The supplier shall be, or employ, a certified Architectural Hardware Consultant AHC, who is registered in the continuing education program as administered by the Door and Hardware Institute. The hardware schedule shall be prepared and signed by a certified AHC.

C. Installer: Firm with three years experience in installation of similar hardware to that required for this project, including specific requirements indicated.

D. Regulatory Label Requirements: Provide nationally recognized testing agency label or stamp on hardware for labeled openings. Where UL requirements conflict with drawings or specifications, hardware conforming to UL requirements shall be provided. Conflicts and proposed substitutions shall be clearly indicated in hardware schedule.

E. All electric locking system units that control egress shall be listed in accordance with UL 294.

F. Accessibility Requirements: Doors to stairs, other than exit stairs, loading platforms, boiler rooms, stages and doors serving other hazardous locations shall have knurled or other similar approved marking of door lever handles or cross bars, if required by local building codes.

G. Pre-Installation Conference: Prior to the installation of hardware, manufacturers' representatives for locksets, closers, and exit devices shall arrange and conduct a jobsite meeting to instruct the installing contractor's personnel on the proper installation of their respective products. A letter of compliance, indicating when this meeting is held and who is in attendance, shall be sent to the Architect and Owner. Refer to Keying article for keying conference requirements.

1.8 DELIVERY, STORAGE AND HANDLING

A. Deliver hardware to jobsite in manufacturer's original packaging, marked to correspond with the approved hardware schedule. Do not deliver hardware until suitable locked storage space is available. Check hardware against reviewed hardware schedule. Store hardware to protect against loss, theft, or damage.

B. Deliver hardware required to be installed during fabrication of hollow metal, aluminum, wood, or stainless-steel doors prepaid to the respective manufacturer.

1.9 WARRANTY

A. Guarantee workmanship and material provided against defective manufacture. Repair or replace defective workmanship and material appearing within period of one year after Substantial Completion.

B. Provide a minimum ten-year factory warranty on door closer body against defects in material and workmanship from date of occupancy of Project.

C. Replace shortages and incorrect items with correct material at no additional cost to Owner.

D. At completion of project, qualified factory representative shall inspect closer installations. After this inspection, letter shall be sent to Architect reporting on conditions, verifying that closers have been properly installed and adjusted.

1.10 ATTIC STOCK

A. Coordinate with Owner for products and quantities desired for attic stock.

PART 2 - PRODUCTS

2.1 GENERAL

A. Confirm acceptable manufacturers and models of all hardware products with Owner. Specified products are listed only to establish function and a level of quality.

2.2 BUTTS AND HINGES

A. Acceptable Manufacturers:
   1. Bommer
   2. Hager listed below for design intent only
   3. Ives
   4. McKinney
   5. PBB
   6. Stanley/Best

B. Types per Application:
   1. Exterior Out-Swinging doors: BB1199 x NRP
   2. Exterior in-swinging doors and vestibule doors: BB1168
   3. Interior doors with closers: BB1279/BB1168
   4. Interior doors over 36 inches wide: BB1168
   5. Interior doors 36 inches or less without closer: BB1279
   6. Provide NRP, non-removable pins, at out-swinging doors that are lockable or locked and at other doors when specifically indicated.
   7. Provide hospital tips only when specifically indicated.

C. Size:

1. 2-1/4 inch Doors	5 inch by 5 inch
2. 1-3/4 inch Doors	4-1/2 inch by 4-1/2 inch
3. 1-3/8 inch Doors	3-1/3 inch by 3-1/2 inch

D. Quantity:
   1. 2 – hinges per leaf for openings through 60 inches in height.
   2. 1 – additional hinge per leaf for each additional 30 inches in height or fraction thereof.
   3. 1 – additional hinge per leaf for openings 40 inches wide and wider.
      a. For mineral core doors Refer to Part 2 - Continuous Stainless-Steel Hinges
   4. 4 – hinges for Dutch doors up to 90 inches in height.

E. Drill 5/32 inch hole and use No. 12, 1-1/4 inch steel threaded to the head wood screws for hinges on wood doors.

2.3 ELECTRIC HINGES

A. Acceptable Manufacturers:
   1. Bommer BB5000 Series concealed electric thru-wires
   2. Hager ETW
   3. Ives: TW Series
   4. McKinney CC
   5. PBB EL
   6. Stanley/Best: CE

B. Provide sufficient number of concealed wires to accommodate electrified function of specified hardware.

C. Electric hinges to be located at second hinge from bottom. Where electric hinges are used in conjunction with exit devices, locate hinge nearest to exit device.

D. UL 10C fire tested and listed for labeled doors up to and including Class A.

E. Provide mortar guard for each electric hinge specified.
   1. McKinney MG-16, or equivalent

2.4 ELECTRIC POWER TRANSFERS

A. Acceptable Manufacturers:
   1. ABH: PT Series
   2. Pemko: EL-CEPT
   3. Securitron EPT/EPTL
   4. Von Duprin EPT-2/EPT-10

B. Provide electric power transfer devices as specified in hardware groups or as required by electrified hardware voltage requirements.

C. When specifically indicated, provide surface-mounted armored power transfer loops with length to accommodate door opening conditions.

D. UL 10C fire tested and listed for labeled doors up to and including Class A.

2.5 CONTINUOUS STAINLESS-STEEL HINGES

A. Acceptable Manufacturers:
   1. ABH: A500, A515
   2. McKinney; MCK-FM300, MCK-HG305
   3. Markar; FM 300, HG 305
   4. Ives: 700, 705
   5. Hager; 790-900, 790-905
   6. Select; SL300, SL305
   7. Stanley/Best; 651, 652

B. Provide concealed leaf continuous hinges when specified in the hardware groups. When specifically indicated, provide continuous hinge with door hinge edge protection. Coordinate hinge type requirements with the door and frame suppliers.

2.6 BOLT LOCKS

A. Acceptable Manufacturers:
   1. ABH
   2. Burns
   3. Door Controls International
   4. Hager
   5. Ives listed below for design intent only
   6. Rockwood
   7. Trimco

B. Automatic Flushbolt: FP31/FP41 Series

C. Semi-automatic, constant-latching Flushbolt: FP51/FP61 Series

D. Manual Flushbolt: FB358/FB458 Series

E. Dust Proof Strike: Ives DP2

F. Surface bolts: SB1600 Series

G. Provide flush bolts meeting the requirements of ANSI A156.3, Grade 1, Type 25, conforms to positive pressure standards of UL10C and UBC 7-2 -1997, and is UL listed at fire rated openings.

H. Provide flush bolts for inactive door of pairs as indicated in the hardware groups, as required for metal or wood doors, and per the following conditions, unless indicated otherwise:
   1. At all exterior openings and locking interior openings, provide top and bottom bolt configuration for inactive door of pair, unless indicated otherwise.
   2. At non-locking interior openings, provide top bolt only.
   3. At fire-rated openings utilizing top bolt only configurations, provide appropriate auxiliary fire latch, as required by the door manufacturer to attain the specified fire-rating/label.
   4. Include appropriate strike to receive bolt/pin when projected.
   5. Where bottom bolts are utilized, provide dustproof strike, as required for sill conditions.
   6. Locate centerline of top bolt not more than 78 inches above finished floor – provide rod extensions as necessary.
   7. Only provide manual flushbolts or surface bolts when specifically indicated in the assigned hardware group.

I. Provide surface bolts only where indicated.
   1. Provide bottom panic guard Von Duprin LGO-3/4, Trimco PG8002, or approved equivalent

2.7 LOCKSETS – MORTISE

A. Acceptable Manufacturer and Series: Lever design: Schlage 06A, or equal
   1. Best: 40H
   2. Sargent: 8200
   3. Schlage: L9000

B. Provide mortise locks, unless indicated otherwise, with functions specified in Hardware Groups and with following provisions:
   1. Cylinders: Provide cylinders, as required, to accomplish specified lock function. Refer to Part 2 – KEYING.
   2. Locksets shall meet the requirements of ANSI/BHMA A156.13-1994, Operational Grade 1, and Security Grade 1.
   3. Backsets: 2-3/4 inches.
   4. Strikes: Provide wrought boxes and strikes with proper lip length to protect trim but not to project more than 1/8 inch beyond trim, frame or inactive leaf. Where required, provide open back strike and protected to allow practical and secure operation.
   5. ANSI functions – mortise locks.
      a. Passage – F01
      b. Privacy – F22
      c. Office – F04
      d. Classroom – F05
      e. Storeroom – F07
   6. Where electrified locksets are specified, provide wiring harness and connections from electric lock to electric power transfer.
   7. Provide escutcheons to match existing conditions, where applicable.
   8. Where required by codes, doors which open onto stairways, mechanical rooms, or other spaces where caution is required, shall have levers with tactile markings to alert a visually impaired person of such conditions.

2.8 LOCKSETS – HEAVY-DUTY CYLINDRICAL

A. Acceptable Manufacturer and Series. Lever design: Schlage RHO, or equal
   1. Best: 9K
   2. Sargent: 10-Line
   3. Schlage: ND

B. Provide heavy-duty cylindrical locks unless indicated otherwise with functions specified in Hardware Groups and with the following provisions:
   1. Cylinders: Provide cylinders, as required, to accomplish specified lock function. Refer to Part 2 – KEYING.
   2. Backsets: 2-3/4 inches.
   3. Strikes: Provide wrought boxes and strikes with proper lip length to protect trim but not to project more than 1/8 inch beyond trim, frame or inactive leaf. Where required, provide open back strike and protected to allow practical and secure operation.
   4. ANSI functions – cylindrical locks.
      a. Passage – F75
      b. Privacy – F76
      c. Office – F82
      d. Classroom – F84
      e. Storeroom – F86
   5. Where electrified locksets are specified, provide wiring harness and connections from electric lock to electric power transfer.
   6. Where required by codes, doors which open onto stairways, mechanical rooms, or other spaces where caution is required, shall have levers with tactile markings to alert a visually impaired person of such conditions.

2.9 EXIT DEVICES

A. Provide Heavy-Duty Manufacturers and Models as listed below. Sargent and Von Duprin are included in the hardware groups as a basis of design and function only. Provide only manufacturers and models as listed below.
   1. BEST Precision 2000 Series
   2. Sargent 80-5CH Series
   3. Von Duprin AX-35A/98 Series

B. Provide exit device pushpad armor where required by local jurisdictions: Von Duprin PA or equal

C. Panic hardware shall comply with UBC Standard 10-4 and shall be mounted above 34 inches to 44 inches above finish floor surface. The unlatching force shall not exceed 15 lbs applied in the direction of travel. Panic hardware shall comply with CBC Section 1008.1.10.

D. All exit devices shall be UL listed for panic. Exit devices for labeled doors shall be UL listed as Fire Exit Hardware.

E. Where lever trim is specified, provide lever design to match locksets specified in previous articles.

F. Where exit devices are specified with aluminum storefront doors, verify with Architect if narrow stile exit devices should be scheduled, where not specified with assigned hardware group.

G. Provide cylinder dogging feature for non-rated heavy-duty exit devices with pull or locked lever outside trim.

H. Cylinders: Provide cylinders as required for specified locking function and cylinder dogging. Refer to Part 2 – Keying.

I. When less bottom rod configuration is specified in the assigned hardware group, provide appropriate fire bolts/thermal pins, as required by the door manufacturer to attain the specified fire-rating/label. Also include appropriate strike to receive bolt/pin when projected.

J. Provide keyed removable mullions, including keyed cylinders, as specified in the Hardware Groups.

K. Provide bottom rod and latch protection for surface-mounted vertical rod exit devices specified with bottom rods to provide minimum 10-inch smooth and uninterrupted surface at bottom of push side of doors.
   1. Von Duprin LGO-3/4, Trimco PG8002, or approved equivalent

L. Door supplier to coordinate exit device mounting location to be mounted below half-height glazing to keep exit device from obstructing vision panel.

2.10 ELECTRIC STRIKES

A. Acceptable Manufacturers and Series:
   1. HES 1600 Series; 9500/9600 Series
   2. Folger-Adam 310 Series
   3. Von Duprin 6000 Series

B. Provide electric strikes designed for use with latch/lock type shown at each specified opening.

C. Electric Strikes shall be UL Listed as Burglary-Resistant Electric Door Strikes and, where required, shall be UL Listed as Electric Strikes for Fire Doors and Frames. Provide fail-secure type electric strikes, unless specified otherwise.

D. Provide power supply, transformer, and rectifier for each strike as required, unless indicated otherwise. Verify voltage with electrical contractor.

E. Provide spacer plates and accessories as required for installation to suit details.

F. Ensure fire-rating recertification if required at doors that are modified.

2.11 IN-LINE POWER CONTROLLERS

A. Acceptable Manufacturers and Series:
   1. Best; 8WTCM
   2. Command Access; CRU-3
   3. HES; 2005ME Smart Pac III

B. Provide in-line power controllers for electrified locks, electrified lever trim, and electric strikes where indicated in the hardware group or by modifiers to reduce overheating due to continuous power required to maintain specified lock/unlock function for extended periods of time.

2.12 KEYING

A. Integrate keying of new locks/cylinders with existing key system as directed by Owner. Confirm existing key system manufacturer and keyway. Factory key all cylinders with manufacturer retaining permanent keying records. If requested, provide Owner with copy of bitting list via Owner acceptable delivery method.

B. Contractor shall provide construction masterkeying and keys for the construction period.

C. Authorized local distribution/service shall be available for purchase of additional keys and cylinders to allow for system revisions, expansion, and service, as required.

D. Keying Conference: Conduct conference.
   1. Conference participants shall include Installer's Architectural Hardware Supplier/Consultant, Architect and Owner's security consultant.
   2. Incorporate conference decisions into keying schedule after reviewing door hardware keying system including, but not limited to, the following:
      a. Flow of traffic and degree of security required.
      b. Preliminary key system schematic diagram.
      c. Requirements for key control system.
      d. Requirements for access control.
      e. Address for delivery of keys.

E. If requested, submit proposed keying schedule to Architect and meet with Owner and Architect to review schedule.

F. Provide construction masterkeying. Permanent cylinders/cores shall be installed/activated upon completion of the project.

G. Provide 6 masterkeys for each masterkey set. Provide 3 change keys for each lock. Stamp keys Do Not Duplicate. When interchangeable core cylinders are specified, provide 2 control keys for core removal.

H. All keys shall be delivered to the designated Owner's representative via method determined and agreed upon by the Owner at the keying meeting.

2.13 DOOR TRIM

A. Acceptable Manufacturers and Types:
   1. Burns
   2. Hiawatha listed below for design intent only
   3. Rockwood
   4. Trimco.

B. 6-inch x 16-inch push plate:
   1. Burns 56
   2. Hiawatha 200H
   3. Rockwood 70E
   4. Trimco 1001-9

C. 4-inch x 16-inch push plate:
   1. Burns 54
   2. Hiawatha 200F
   3. Rockwood 70C
   4. Trimco 1001-3

D. 1-inch diameter push bar
   1. Burns 422
   2. Hiawatha 1081LBP
   3. Rockwood 47
   4. Trimco 1741

E. 1-inch Diameter, 10-inch CTC, offset pull
   1. Burns 39C
   2. Hiawatha 658A
   3. Rockwood BF157A
   4. Trimco 1191-3

F. 1-inch Diameter, 10-inch CTC, straight pull
   1. Burns 26C
   2. Hiawatha 536B
   3. Rockwood 111
   4. Trimco 1195-2

G. 3/4-inch diameter, 8-inch CTC, straight pull
   1. Burns 25B
   2. Hiawatha 523A
   3. Rockwood 107
   4. Trimco 1194-2

H. Non-Mortise edge guard bottom rod and latch guard
   1. Burns 301/302
   2. Hiawatha DES-1A/DES-2A
   3. Rockwood 304/305

4. Trimco KE31-1/KE32-1 PG8002

I. Push Plates:
   1. 0.50 inches thick, 4 beveled edges
   2. Where width of door stile prevents use of 6-inch-wide plate, provide push plate one inch less than width of stile centered within stile.

J. Push Bars:
   1. Length:
      a. Stile and rail doors: center of stile to center of stile.
      b. Flush doors: 3 inches less than door width.
   2. Use concealed mounting and mount back-to-back with pulls.

K. Pulls:
   1. Length: 10-inches CTC
      a. 8-inches CTC when used with pull plate.
   2. Use concealed mounting and mount back-to-back with push bars.

L. Door Protection Plates and Edge Guards: Minimum of 0.050 inch thick, stainless-steel, beveled 4 edges.
   1. Kick Plates:
      a. At single doors provide width 1-1/2 inches less than door width on push side.
      b. At pairs of doors provide width 1 inch less than door width on both doors.
      c. Height: 10 inches unless otherwise detailed in Architectural drawings or indicated in hardware groups.
   2. Armor Plates:
      a. Push side Single door: 1-1/2 inches less than door width.
      b. Pull side Single door: 1 inch less than door width.
      c. Pairs of doors: 1 inch less than door width on both doors.
      d. Height: 34 inches, unless otherwise detailed in Architectural drawings or indicated in hardware groups.
   3. Mop Plates, for pull-side mounting:
      a. At single doors provide width 3/4 inches less than door width.
      b. At pairs of doors provide width 1/2 inches less than door width.
      c. Height 4-inches inches
   4. Edge Guards:
      a. Height: 34 inches, unless otherwise detailed in Architectural drawings or indicated in hardware groups.
      b. When edge guards are specified in conjunction with protection plates, coordinate widths of to result in a continuous smooth surface with no more than 1/8-inches between the edge of the edge guard and the edge of the protection plate. Do not overlap.
      c. Coordinate sizing of edge guards with door and frame supplier/manufacturer to ensure that opening clearances prevent binding and/or rubbing of the swinging door.
   5. When door protection plates and edge guards are specified for fire-rated openings, they must be installed in accordance with the listing of the door. Field-installed products must be labeled and installed in accordance with manufacturers' listings.
   6. Do not provide protection plates, or edge guards for impact-resistant doors. Refer to Door Panel type in Opening Schedule or MAT-ID list.

2.14 COORDINATORS

A. Acceptable Manufacturers:
   1. Door Controls International
   2. Hager
   3. Ives.
   4. Trimco, listed below for design intent only
   5. Ives

B. Provide stop-mounted coordinator for labeled pairs of doors equipped with automatic flush bolts and those with vertical rod/mortise lock fire exit device combinations with astragals, unless indicated otherwise.
   1. Trimco 3094 series, or approved equivalent

C. Provide filler bars for total opening width, closer mounting brackets, carry bars, and special preparation for top latches where applicable.

2.15 DOOR CLOSERS

A. Acceptable Manufacturers and Types of Exposed Closers:
   1. Heavy-Duty - cast iron bodies:
      a. LCN 4040/4040XP
      b. Norton 9500
      c. SARGENT 281/281 P-10

B. Provide heavy-duty non-sized closers, unless indicated otherwise in Hardware Groups, adjustable to meet maximum opening force requirements of CBC.
   1. Refer to Part 1 – General Requirements

C. Provide heavy-duty drop plates, brackets, or adapters for arms as required to suit details.

D. Mount closers on room side of corridor doors, inside of exterior doors, and stair side of stairway doors, unless indicated otherwise.

E. Provide back-check for closers.

F. Provide heavy-duty mechanical holder arms where holder function is indicated.

G. Provide closers for doors as noted in Hardware Groups and, in addition, provide closers for labeled doors whether or not specifically noted in group.

H. Provide closers meeting the requirements of UBC 7-2 and UL 10C positive pressure tests.

I.

J. No through bolting of closers will be accepted.

2.16 ELECTRONIC CLOSER/HOLDERS

A. Acceptable Manufacturers and Types of Exposed Electronic Closer/Holders:
   1. Single-point; Multi-point:
      a. LCN 4040SE; 4310ME
      b. Norton 7700PT; 7210MPI
      c. SARGENT 2408 Series; 2900; 351EHT
      d. YALE 400PT; 4210MPI

B. Provide non-sized closers, adjustable to meet maximum opening force requirements of CBC.
   1. Refer to Part 1 – General Requirements

C. Provide drop plates, brackets, or adapters for arms as required to suit details.

D. Mount closers on room side of corridor doors, inside of exterior doors, and stair side of stairway doors.

E. Provide back-check for closers.

F. Provide single-point hold-open arms, unless indicated otherwise.

G. Provide closer/holders meeting the requirements of UBC 7-2 and UL 10C positive pressure tests.

H. Provide overhead stop with a dead stop/non-cushion to avoid damage to closing device.

I. Hold-open devices at fire-rated assemblies must be listed by CSFM for use in a fire alarm system.

2.17 OVERHEAD STOPS

A. Acceptable Manufacturers and Types: BHMA A156.8.
   1. ABH listed below for design intent only
   2. Glynn-Johnson
   3. Rixson
   4. Sargent

B. Standard duty, surface:
   1. ABH 4400
   2. Glynn-Johnson 450
   3. Rixson 10
   4. Sargent 1540

C. Standard duty, concealed:
   1. ABH 4000
   2. Glynn-Johnson 410
   3. Rixson 2
   4. Sargent 1530

D. Heavy duty, surface:
   1. ABH 9000
   2. Glynn-Johnson 90
   3. Rixson 9
   4. Sargent 590

E. Heavy duty, concealed:
   1. ABH 1000
   2. Glynn-Johnson 100
   3. Rixson 1
   4. Sargent 690

F. Provide concealed mounted overhead stops unless indicated otherwise.

G. Provide overhead stops for the following opening conditions.
   1. At doors that swing more than 140 degrees before striking a wall.
      a. Provide a closer stop arm at interior doors with parallel arm closer mountings.
   2. At doors that open against objects, materials, casework, equipment, or other conditions that make wall stops inappropriate.
   3. At doors located 1’-6-inches or more from the wall, unless specifically indicated otherwise.

H. Where overhead stops are required per opening conditions defined above, provide the following.
   1. Provide surface-mounted overhead stops for fire-rated wood doors, exterior hollow metal doors, or where specifically indicated.
   2. Provide heavy-duty overhead stops for doors that are over 39 inches wide and for exterior doors.
      a. A heavy-duty closer compression stop arm is an acceptable option for overhead stops at exterior doors with parallel arm closer mountings.
   3. Provide hold-open function where indicated at non-label doors.
   4. Provide sex bolt attachments for mineral core wood door applications.

2.18 STOPS AND HOLDERS

A. Acceptable Manufacturers:
   1. Burns
   2. Hager
   3. Ives listed below for design intent only
   4. Trimco

B. Wall Bumper: WS406/407CVX; WS406/407CCV

C. Wall Mounted Stops: WS11/WS11X

D. Manual Wall Holder/Stop: WS20/WS20X

E. Automatic Wall Holder: WS45/WS45X

F. Provide wall bumper for each door leaf except where wall mounted stops are specified in the Hardware Groups, or where opening conditions require the use of an overhead stop. Refer to Part 2 – Overhead Stops

1. Provide an overhead stop for doors in which the door face or operating trim on the leading/latch edge does not open against wall or opens against equipment or furniture.

G. Provide base mounted stops at toilet rooms, unless alternate stop is specified: WS11/WS11X.

H. Provide heavy-duty base stop and manual holder function where indicated for non-label doors.

I. Provide heavy-duty automatic wall holder where indicated for non-label doors.

J. Floor or base stops must be used only where specified or absolutely unavoidable.

2.19 FIRE AND SMOKE GASKET

A. Acceptable Manufacturers:

1. Hager
2. National Guard Products
3. Pemko listed below for design intent only
4. Reese Enterprises
5. Zero

B. Refer to drawings for special details. Provide accessories, shims and fasteners.

C. Provide gaskets for doors designated for smoke and draft control as required by local codes and/or door manufacturer. Include astragal and/or gasket as required for meeting edges of pairs. Refer to Architectural Life-Safety plans and/or Opening Schedule.

1. Where smoke gasket is specified or required by fire-rating criteria, provide PK55D, unless detailed otherwise.

D. Provide gaskets for fire labeled doors as required by local codes and/or door manufacturer tested assembly. Also include astragal and/or gasket as required for meeting edges of pairs.

E. Where frame-applied intumescent seals are required by the wood door manufacturer, provide gaskets that comply with NFPA 252 and UL-10C positive-pressure testing.

1. Must meet CBC 716.2.1.2

F. Door Gasketing: BHMA A156.22; air leakage not to exceed 0.50 cfm per foot of crack length for gasketing other than for smoke control, as tested according to ASTM E 283; with resilient or flexible seal strips that are easily replaceable and readily available from stocks maintained by manufacturer.

2.20 SPECIAL GASKET

A. Acceptable Manufacturers:

1. Hager
2. National Guard Products
3. Pemko listed below for design intent only
4. Reese Enterprises
5. Zero

B. Refer to drawings for special details. Provide accessories, shims and fasteners.

1. Provide self-tapping fasteners for product, if required, being applied to hollow metal doors and frames.
2. Cutting or notching of gasket for stop-mounted hardware on frame shall not be permitted. Provide special brackets, as required by actual frame conditions, for specified stop-mounted hardware.

a. Use Zero 770SPB as example for basis of design
3. Adjust backset of lockset, as required to accommodate special stop-mounted gasket and to avoid conflict between lock trim and special gasket.

C. Where gasket is assigned by hardware group modifier "**G**", provide the following:
1. At fire rated assemblies
a. Provide gasketing as required by door manufacturer's tested assemblies. Refer to PART 2 - Fire and Smoke Gasket.
2. At non-fire-rated assemblies:
a. Jambs and Head, self-adhesive: Pemko S88D.
b. Astragal:
1) SPLIT-type; both doors active, brush-type: 18041_NB
2) OVERLAPPING-type at active/inactive and double-egress pairs: S88D applied to fixed astragal by door supplier. Matching wood material at wood doors, flat bar steel at hollow metal doors, unless specifically indicated otherwise.

2.21 DOOR POSITION SWITCHES

A. Acceptable Manufacturers and Types:
1. Ademco ADI 800-233-6261: 944SP-WH 3/4-in recessed white
2. Detex: MS-2049F
3. SARGENT: 3287
4. Sentrol: 1078

B. Provide model to accommodate door and frame materials and mounting conditions.

C. Coordinate door and frame preparations with door and frame suppliers.

D. Switches shall be installed in frame head approximately 4-inches from latching edge of door, unless detailed otherwise.

2.22 KEY CABINET

A. Provide key cabinets by:
1. Lund Equipment
2. Telkee Incorporated
3. Key Control

B. Basis of design shall be Lund Deluxe wall type cabinet, Series 1200, unless indicated otherwise.

C. G.

D. Provide cabinet with one hook for each lock or cylinder plus at least 50 percent extra hooks.

E. Provide each hook with one non-removable security key tag and one snap-on link duplicate key tag.

F. Provide tools, instruction sheets and accessories required to complete installation.

G. Owner will place keys in key cabinet and complete index cards furnished with key system.

2.23 FASTENERS

A. Including, but not limited to; wood or machine screws, special screws, bolts, special bolts, nuts, expansion shields, anchors, and other accessory items of proper type, material, and finish required for complete operational installation of hardware.

B. Use phillips head for exposed screws. Do not use aluminum screws to attach hardware.

C. Provide self-tapping, TEC, screws for attachment of sweeps and stop-applied weatherstripping.

2.24 TYPICAL FINISHES AND MATERIALS

A. Finishes, unless otherwise specified: Satin Stainless Steel 32D [*recommended for lab spaces*]
1. Butts, Out-swinging Exterior Doors: US32D/BHMA 630 on Stainless-Steel.

2. Butts, Interior Doors and In-swinging Exterior Doors: US32D/BHMA 630
3. Continuous Geared Hinges: US28/BHMA 628 on Aluminum.
4. Continuous Stainless Steel: US32D/BHMA 630on Stainless-Steel.
5. Pivots: US32D/BHMA 626 on Brass or Bronze
6. Flush Bolts: US26D/BHMA 626 on Brass or Bronze.
7. Exit Devices: US32D/BHMA 630 on Stainless-Steel
8. Locks and Latches: US32D/BHMA 626 on Brass or Bronze
9. Push Plates, Pulls and Push Bars: US32D/BHMA 630 on Stainless-Steel.
10. Coordinators: USP/BHMA 600 on Steel.
11. Kick Plates, Armor Plates, and Edge Guards: US32D/BHMA 630 on Stainless-Steel.
12. Overhead Stops and Holders: US26D/BHMA 626 on Brass or Bronze.
13. Closers - Surface mounted. Sprayed Lacquer or Powder Coat to Match.
14. Latch Protectors: US32D/BHMA 630 on Stainless Steel.
15. Miscellaneous Hardware: US26D/BHMA 626 on Brass or Bronze.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine doors, frames, and related items for conditions that would prevent the proper application of finish hardware. Do not proceed until defects are corrected.

3.2 INSTALLATION

A. Install finish hardware in accordance with reviewed hardware schedule and manufacturer's printed instructions. Prefit hardware before finish is applied, remove and reinstall after finish is completed. Install hardware so that parts operate smoothly, close tightly and do not rattle.

B. Installation of hardware shall comply with the current NFPA 80 and NFPA 101 requirements or as amended by state and local building codes.

C. Set units level, plumb and true to line and location. Adjust and reinforce attachment to substrate as necessary for proper installation and operation.

D. Screws for hinges and lock fronts in wood doors shall have pilot holes pre-drilled to avoid splitting doors. Do not over-drill pilot holes or over-torque installation of screws.

E. Drill and countersink units which are not factory-prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.

F. For doors with door pulls and push plates, install door pulls with through bolted fasteners countersunk and flush with door face. Then install push plates over countersunk through bolts so they are concealed by push plate.

3.3 FIELD QUALITY CONTROL

A. After installation has been completed, provide services of qualified hardware consultant to check Project to determine proper application of finish hardware according to schedule. Also check operation and adjustment of hardware items.

B. Adjust door control devices to compensate for final operation of heating and ventilating equipment.

3.4 ADJUSTING AND CLEANING

A. At final completion, hardware shall be left clean and free from disfigurement. Make final adjustment to door closers and other items of hardware. Where hardware is found defective repair or replace or otherwise correct as directed.

B. Adjust door closers to meet opening force requirements of Uniform Federal Accessibility Standards.
   1. Force Requirements:
      a. Interior hinged doors and gates: 5 pounds maximum.
      b. Sliding or folding doors: 5 pounds maximum.

2. Adjust door closers to meet opening force requirements of and opening force and closing speed requirements of ADA and CBC 11B-404.2.9 .
3. Force Requirements:
   a. Interior hinged doors and gates: 5 pounds, 22.2 N maximum.
   b. Sliding or folding doors: 5 pounds, 22.2 N maximum.
   c. Required fire doors: the minimum opening force allowable by the appropriate administrative authority, not to exceed 15 pounds, 66.7N.
   d. Exterior hinged doors: 5 pounds, 22.2 N maximum.
4. These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door or gate in a closed position.

C. Final Adjustment: Wherever hardware installation is made more than one month prior to acceptance or occupancy of space or area, return to work during week prior to acceptance or occupancy, and make final check and adjustment of hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors.

D. Instruct Owner's personnel in proper adjustment and maintenance of door hardware and hardware finishes.

E. Clean adjacent surfaces soiled by hardware installation.

3.5 PROTECTION

A. Provide for proper protection of hardware items until the Owner accepts Project as complete.

3.6 HARDWARE GROUP MODIFIERS

A. Hardware Group modifiers added to numeric hardware group assignments on the schedule of openings indicate a variation to the group as defined below.

"**A**" – Add armor plate to push side of doors and edge guards to hinge and latch edges, both leaves of pairs and both sides of double-acting doors, omit kickplate if previously scheduled. Refer to Part 2 - Door Trim. Confirm compliance with any/all fire-ratings. Where surface vertical rod exit devices are also specified, provide bottom rod and latch protection.
Frame protection, if applicable is provided by Section 102600.

"**D**" – Add delayed-action feature to specified closers, if required to attain specified delay time. Set delay for specified closers to 5 – 7 seconds, unless indicated otherwise.
NOTE: Do not exceed 10-second delay, unless specifically indicated otherwise.

"**G**" – Provide gasket seal for jambs, heads, and meeting edges of pairs. Refer to Part 2 – Special Gasket.

"X" – New door, existing frame, existing hardware to remain / be reused; remove existing hardware that does not contribute to the new function and return to Owner.
- Field verify all hardware to remain is in good condition and functions as manufacturer originally intended. Replace as required with product and manufacturers listed within this specification.
- Field verify existing mounting and prep locations on frame and coordinate with new door.
- Patch and repair frame as required to match adjacent material and finish.
- Confirm maintenance of existing fire-labels/ratings with installation of new hardware. Any modifications to existing fire-rated assemblies must be performed by certified installers.
- Balance of existing hardware to remain / be reused.

"Y" – New door, new hardware, existing frame to remain; remove existing hardware and return to Owner.
- Field verify existing mounting and prep locations on frame and coordinate with new door and hardware.
- Prep frame for new hardware and electronic connections.
- Patch and repair frame as required to match adjacent material and finish.
- Confirm maintenance of existing fire-labels/ratings with installation of new hardware. Any modifications to existing fire-rated assemblies must be performed by certified installers.

3.7 HARDWARE GROUPS

A. Provide all required door hardware for each specified opening to comply with requirements of this section in its entirety. Included are desired/intended functions, acceptable manufacturers and models, systems coordination, etc. for a complete installed opening.

B. Refer to the openings schedule for hardware group and modifiers assigned to each door opening. Ignore hardware groups and modifiers not assigned on the openings schedule.

C. All electrified hardware groups listed below, assigned to doors in the project, provide free egress at all times, complying with code requirements for door operations, sensor release of electrically locked egress doors and door hardware release of electrically locked egress doors.

GROUP 7.02 –Surface Sliding Door Assembly, with latching lever and cylinder
1 each Cylinder, For lockset/deadbolt provided by 087100
Balance of hardware by door assembly manufacturer including but not limited to:
1 each Top Track
2 each Hangers
1 set Floor Guides
2 each Soft Close Stops
1 each Self-Latching Lever Lockset
Function: Keyed cylinder outside or thumbturn inside throws and retract bolt. Push & pull operation when bolt is retracted.
OPERATIONAL DESCRIPTION: Door is manually slid opened and closed. Latchbolt is locked and unlocked by key or thumbturn.
NOTE: Door is to room with less than 10 occupants.
NOTE: G.C. to coordinate weight of door panel with assembly manufactures hardware to ensure smooth operation per manufactures recommendations, including provision and installation of products.

GROUP 10 – Single, passage, no closer
Hinges
1 each Latchset: Passage Function
Function: Latchbolt is retracted by lever on either side. Free egress at all times.
1 each Stop, as required by opening conditions

GROUP 11.02 – Single, mortise privacy latchset with occupancy indicator, no closer
Hinges
1 each Mortise Privacy Latchset with OCC/VAC Indicator
Function: Latchbolt is retracted by lever on either side unless inside thumb turn lever locks outside lever. Operating inside lever or closing door unlocks outside lever. Outside indicator indicates occupancy when door is locked. Outside emergency release unlocks outside lever. Free egress at all times.
1 each Stop, as required by opening conditions

GROUP 30 – Single, Passage lever with closer
Hinges
1 each Latchset: Passage Function
Function: Latchbolt is retracted by lever on either side. Free egress at all times.
1 each Closer
1 each Kickplate
1 each Stop, as required by opening conditions

GROUP 31.02 – Single, mortise privacy latchset with occupancy indicator, closer
Hinges
1 each Mortise Privacy Latchset with OCC/VAC Indicator
Function: Latchbolt is retracted by lever on either side unless inside thumb turn lever locks outside lever. Operating inside lever or closing door unlocks outside lever. Outside indicator indicates occupancy when door is locked. Outside emergency release unlocks outside lever. Free egress at all times.
1 each Closer
1 each Kickplate

1 each Stop, as required by opening conditions

GROUP 32 – Office with closer
Hinges
1 each Lockset: Office function
Function: Latchbolt is retracted by lever on either side unless outside lever is locked by inside turn button, cylindrical or toggle on lock front, mortise. Key outside retracts latchbolt. Deadlocking latchbolt. Free egress at all times.
1 each Closer
1 each Kickplate
1 each Stop, as required by opening conditions

GROUP 34 – Single, Storeroom lock with closer
Hinges
1 each Lockset: Storeroom Function
Function: Latchbolt is retracted by inside lever only. Outside lever is always locked. Key outside retracts latchbolt. Deadlocking latchbolt. Free egress at all times.
1 each Closer
1 each Kickplate
1 each Stop, as required by opening conditions

GROUP 211.01 –Single Storeroom lock with electronic access control system via electric strike, closer
Hinges
1 each Lockset: Storeroom, mechanical
Function: Latchbolt is retracted by lever inside only. Outside lever is always locked. Key outside retracts latchbolt. Deadlocking latchbolt.
1 each Electric Strike, fail-secure
1 each Closer
1 each Kickplate
1 each Stop, as required by opening conditions
1 each Door Position Switch/Contact
Electronic access control system/devices, power supply for electric strike, request-to-exit device and monitoring/alarms are provided with Security System. Contractor to coordinate the provision and installation of products. Refer to documents with Security information for locations and types of controls. Connection by Electrical.
OPERATIONAL DESCRIPTION: Door is normally closed and mechanically locked on the outside. Electronic access control device releases and secures electric strike for predetermined periods of time to control entry.
Interruption of power and/or fire-alarm event, at fire-rated openings secures electric strike to positively latch door.

END OF SECTION

SECTION 087113
AUTOMATIC DOOR OPERATORS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Furnish and install electro-mechanical/hydraulic low-energy automatic swing door operators,. Also provide control system including actuator switches/controls and related accessories.
   2. Supplier shall coordinate and interface automatic operators with electronic door hardware and security systems to ensure specified door operation.
   3. Provide fasteners and anchors for materials provided.

1.2 REFERENCES

A. American National Standards Institute, ANSI:
   1. ANSI A156.19: Power Assist and Low Energy Operated Doors.
   2. ANSI A117.1: Accessible and Usable Buildings and Facilities.

B. National Fire Protection Association:
   1. NFPA 80: Standard for Fire Doors and Windows.
   2. NFPA 101: Code for Safety to Life from Fire in Buildings and Structures.

C. Underwriters Laboratories, Inc. UL:
   1. UL Building Materials Directory.
   2. UL 325 Electrical Door, Drapery, Gate, Louver and Window Operators and Systems.

D. Americans with Disabilities Act, ADA, 2010 ADA Standards

E. California Building Code, 2022 CBC Section 11B-404

1.3 SYSTEM DESCRIPTION

A. Performance Requirements:
   1. Open door to 90 degrees by forces transmitted to drive shaft and maintain a constant engagement throughout opening cycle.
   2. Function as a manual door closer if power fails.
   3. Force required to open door in event of a power failure shall not exceed 15 pounds of pressure applied 1-inch from latch edge of door.
   4. Provide adjustment for opening, closing, and latch speed.
   5. Operators to be activated or de-activated by controls as indicated.
   6. Comply with ANSI A156.19,

1.4 SUBMITTALS

A. Comply with Section 013300, unless otherwise indicated.

B. Product Data**:** Manufacturer's specifications and technical data including the following.
   1. Detailed specification of construction and fabrication.
   2. Manufacturer's installation instructions.

C. Shop Drawings**:** Indicate dimensions, descriptions of materials and finishes, general construction, specific modifications, component connections, anchorage methods, hardware, and installation procedures, including specific requirements indicated.

D. Contract Close-out Submittals: Comply with Section 017800.
   1. Operating and maintenance manuals: Include name, telephone number, and address of nearest service representative.

1.5 QUALITY ASSURANCE

A. Manufacturer's Qualifications: Not less than 5 years experience in the actual production of specified products.

B. Manufacturer: Obtain automatic operators from a single manufacturer throughout the project if subdividing into multiple contracts.

C. Installer's Qualifications: Firm experienced in installation or application of systems similar in complexity to those required for this project, including specific requirements indicated.
   1. Acceptable to or licensed by manufacturer.
   2. AAADM certified for compliance with current ANSI/BHMA 156.19 standards with not less than 3 years experience with systems.
   3. Authorized service representative of the door operating equipment manufacturer must be located near enough to Site to ensure a repairperson would be on Site with tools and ready to work within 24 hours after receiving a request for service.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Packing and Shipping: Deliver products in original unopened packaging with legible manufacturer's identification.

B. Storage and Protection: Comply with manufacturer's recommendations.
   1. Store in a cool, dry place out of direct sunlight.
   2. Protect from the elements and from damage.

PART 2 - PRODUCTS

2.1 OPERATORS

A. Electro-Mechanical Operators, low-energy, heavy-duty: Surface-mounted electro-mechanical door operators, power open/ spring close, enclosed in an extruded aluminum case, microprocessor control and solenoids and switches to synchronize for complete operation with the hardware as specified. Include power supply and connection for operation of electric strikes when included in specified hardware group in Section 087100. Provide full frame width extruded aluminum case for pairs of doors.
   1. Mount operators on corridor side of openings, unless indicated or drawn otherwise.
   2. Finish: Color anodized finish.
   3. Acceptable manufacturers and models: For 3'-0" - 4'-0" wide x 9'-0" high doors
      a. Besam: SW200i
      b. LCN Dor-O-Matic Senior-Swing.
      c. Horton: 4000LE Series.
      d. Stanley: Magic-Force-LE.
      e. Record 8100 Series.
   4. When specifically indicated, provide safety sensors to prevent doors from opening or closing when detection zone is occupied.

B. Provide a terminal strip in an enclosed box near or above door that indicates connections for security and fire alarm equipment and for electrified hardware items associated with proper door operation, as indicated by hardware group operational description.

C. Smoke Detection: At all labeled assemblies provide fire alarm connection, or smoke detectors, as required by local codes to de-activate automatic mode upon activation of fire alarm, or smoke detector.

D. Hold-open option at fire-rated assemblies must be listed by CSFM for use in a fire alarm system.

E. Battery back up per 2022 CAC11B-404.2.9 exception b.

2.2 CONTROLS

A. When control device is activated, doors shall swing 90 degrees to open position. Provide adjustable delay from 5 – 60 seconds to begin closing cycle. Doors shall be manually operable in event of power failure. Each operator shall be adjustable for opening, closing and latch speed.

B. Actuation Devices:
   1. Wall Plate Actuator switch: Provide momentary contact push button switches with low voltage hard-wired connections to control boxes and 6-inch diameter stainless steel or aluminum push plates having an engraved and painted ISA, International Symbol of Accessibility logo, lettering - Push To Open, and arrow indicating direction of travel, unless indicated otherwise.
   2. Basis of design: WIKK Industries S-6R-3
      a. Where indicated on plans, provide narrow style jamb-mounted actuator switches.
      b. Where specifically indicated, utilize electronic access control devices to actuate automatic operator after presenting authorization, omit manual wall actuator switch in this application. Refer to assigned hardware group, to Operational Description, and to all notes related to specific door indicated.
      c. Where specifically indicated provide touchless actuator switches.
         1) Square: WIKK S-4x4-NoTouch square with lettering No Touch.
         2) Single gang: WIKK S-SG-NoTouch, with lettering stating No Touch.
      d. Where specifically indicated provide radio-frequency controlled actuators: WIKK Industries S-NAR-3
      e. Where specifically indicated, provide momentary contact switches with low voltage hard-wired connections for interior and exterior vertical bar type Actuator switches Wikk Ingressr I36-3 or I36NAR-3 or approved equivalent: Provide engraved and painted ISA, International Symbol of Accessibility logo, lettering - Push To Open, and arrow indicating direction of travel, unless indicated otherwise.

C. Where indicated on floor plan, provide standard 6” square bollards with finish to match doors and frames, and prepared for 4 ½ inch square actuators to be located at 38" centerline above finished floor.
   1. Basis of design: Wikk BPS SM-PREP 36 aluminum
   2. Surface-mount including anchoring base, anchors, and instructions, or in-ground mount one foot minimum recess with instructions as indicated on plan or required by mounting conditions.
   3. Also accommodate access control devices, if indicated and/or specified.
   4. In California in lieu of square actuators prep bollard for bar type actuators.

D. Where round bollards are indicated, provide square switch adapter cuffs.
   1. Basis of design: Wikk aluminum No. BP4X4 ADT RFBLK, or equivalent

E. Provide connections and integration with other specified electronic hardware components to achieve the specified operational description.

F. Where specifically indicated, provide presence/safety sensors on approach side for swinging doors with automatic door operators for doors indicated with low energy automatic door operators as defined by ANSI A156.19..
   1. Basis of design: BEA SuperScan, door-mounted

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verification of Conditions: Examine areas and conditions under which Work is to be performed and identify conditions detrimental to proper or timely completion.
   1. Do not proceed until satisfactory conditions have been corrected.

3.2 INSTALLATION

A. Comply with manufacturer's instructions.

B. Locate controls as indicated.

3.3 FIELD QUALITY CONTROL

A. Manufacturer's Field Services: Inspect installation of assembly and confirm that installation is in compliance with manufacturer's installation procedures.

3.4 ADJUSTING

A. Adjust automatic operators for smooth and quiet operation.

3.5 DEMONSTRATIONS

A. Instruct Owner on automatic operation and procedure.

3.6 HARDWARE

A. Refer to Section 087100 – DOOR HARDWARE.

END OF SECTION

SECTION 088100
INTERIOR GLAZING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Glass and glazing for interior locations (GL).

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: Show fabrication and installation details. Include the following:
   1. Size and location of penetrations.
   2. Glazing method.
   3. Mounting method.
   4. Attachments to other work.

C. Samples: For each glass type (GL) specified.

1.3 FIELD CONDITIONS

A. Handling, Storage and Protection: Protect glazing materials according to manufacturer's written instructions. Prevent damage to glass and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.

B. Environmental Limitations: Do not proceed with glazing when ambient and substrate temperature conditions are outside limits permitted by glazing material manufacturers and when glazing channel substrates are wet from rain, frost, condensation, or other causes.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. General Performance: Installed glazing systems shall withstand normal thermal movement and impact loads (where applicable) without failure, including loss or glass breakage attributable to the following: defective manufacture, fabrication, or installation; deterioration of glazing materials; or other defects in construction.

B. Safety Glazing: Where safety glazing is indicated, provide glazing that complies with 16 CFR 1201, Category II.

2.2 MANUFACTURERS

A. Single Source Responsibility: Provide materials obtained from one source for each type of insulating glass and glazing product indicated.

B. Manufacturers:
   1. AFG Industries.
   2. ACH.
   3. Guardian Industries.
   4. Pilkington.
   5. Vitro Glass.

2.3 GLASS TYPES

A. Monolithic Glass, General:
   1. Specified glass thickness and thickness of individual glass plies are minimum.
   2. Provide heat-strengthened as required for wind pressure or thermal stress.

3. Provide fully-tempered complying with ASTM C1048, Kind FT (fully tempered), as required to comply with safety code requirements and as indicated with “T” in the Material Identification Abbreviation.
4. Provide safety glazing labeling, as applicable.

B. (GL-1T) Clear Fully-Tempered Float Glass: 1/4-inch minimum thickness; ASTM C1036, Type I (transparent glass, flat), Class 1 (clear), Quality q3 (glazing select), and heat-treated to comply with ASTM C1048, Kind FT (fully tempered).

2.4 ACCESSORIES

A. Framing for Butt Glazing: Aluminum or stainless steel angles as indicated. Anchor to ceiling and floor substrates with appropriate fasteners in locations as indicated.

B. Provide silicone sealant at vertical butt-joint glazing.
1. Product: NuFlex, 319 Glazing Silicone Sealant, Clear.
2. Install per manufacturer’s recommendations.
3. Provide sample installation for Architect’s approval prior to final installation.

C. Setting Blocks: Neoprene, 80 to 90 shore "A" durometer hardness, chemically compatible with glazing sealant or compound, length as recommended by glass manufacturer.

D. Spacers and Shims: Neoprene, 40 to 50 shore "A" durometer hardness, chemically compatible with glazing sealant or compound, length as recommended by glass manufacturer.

E. Glazing Tape: Butyl or silicone preshimmed tape similar to Tremco 440 Tape.

F. High-Bond Tape: B23F, 4991 VHB Tape by 3M. Unless otherwise recommended by fabricator. Application temperature is 70 deg F per tape manufacturer. See Fabrication and Installation.
1. Color: As selected by Architect.

2.5 FABRICATION

A. Heat-Treated Float Glass: ASTM C 1048. Fabricate using horizontal roller heating process only. Roll wave distortion parallel to bottom edge of glass as installed. Deviation from flatness at any peak (peak to valley deviation): shall not exceed 0.003 inches in the center of a lite and shall not exceed 0.008 inches within 10.5 inches of the leading or trailing edge.

B. Fully tempered (FT) glass shall be heat soak tested to eliminate the potential of spontaneous breakage due to nickel-sulfite inclusions or other defects that can affects glass performance in place.

C. Butt-Glazed Glass: Clean-cut or flat-grind vertical edges of butt-glazed monolithic lites to produce square edges with slight chamfers at junctions of edges and faces.

PART 3 - EXECUTION

3.1 EXAMINATION AND PREPARATION

A. Examine framing members, with Installer present, for compliance with the following:
1. Manufacturing and installation tolerances, including those for size, squareness, and offsets at corners.
2. Minimum required face or edge clearances.
3. Effective sealing between joints of decorative-glass framing members.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

C. Clean glazing channels and other framing members receiving glass immediately before glazing. Remove coatings not firmly bonded to substrates.

3.2 GLAZING, GENERAL

A. Orientation:

1. Set glass units in each series true in line with uniform orientation, pattern, draw, bow, and similar characteristics.
2. Set glass lites with proper orientation so that each outer surface faces the direction indicated on Drawings and as approved by Architect.

B. Install glass with hardware and accessories according to hardware manufacturer's written instructions. Attach hardware securely to mounting surfaces and building structure.

C. Comply with combined written instructions of manufacturers of glass, gaskets, sealants, tapes, and other glazing materials unless more stringent requirements are indicated, including those in referenced glazing publications.

D. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass is glass with edge damage or other imperfections that, when installed, could weaken glass and impair performance and appearance.

E. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction testing.

F. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.

G. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.

H. Provide spacers for glass lites where length plus width is more than 50 inches.

1. Locate spacers directly opposite each other on both inside and outside faces of glass. Install correct size and spacing to preserve required face clearances, unless gaskets and glazing tapes are used that have demonstrated ability to maintain required face clearances, and to comply with system performance requirements.
2. Provide 1/8-inch- minimum bite of spacers on glass and use thickness equal to sealant width. With glazing tape, use thickness slightly less than final compressed thickness of tape.

I. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and according to requirements in referenced glazing publications.

3.3 GASKET GLAZING (DRY)

A. Cut compression gaskets to lengths recommended by gasket manufacturer to fit openings exactly, with allowance for stretch during installation.

B. Insert soft compression gasket between glass and frame or fixed stop so it is securely in place with joints miter cut and bonded together at corners.

C. Installation with Drive-in Wedge Gaskets: Center glass lites in openings on setting blocks, and press firmly against soft compression gasket by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.

D. Installation with Pressure-Glazing Stops: Center glass lites in openings on setting blocks, and press firmly against soft compression gasket. Install dense compression gaskets and pressure-glazing stops, applying pressure uniformly to compression gaskets. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.

E. Install gaskets so they protrude past face of glazing stops.

3.4 INSTALLED WORK

A. Immediately after installation, remove nonpermanent labels and clean surfaces.

B. Protect glass from contact with contaminating substances resulting from construction operations. If, despite such protection, contaminating substances do come into contact with glass, remove substances immediately as recommended in writing by glass manufacturer.

C. Remove and replace glass that is damaged during construction period.

END OF SECTION

SECTION 088700
GLASS SURFACE FILM

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Surface-applied film overlay (WF-1).

B. Related Sections:
   1. Section 088000 - Glazing.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: Show fabrication and installation details.

C. Samples: For each type of film overlay on glass substrate, 12 inches square.

1.3 CLOSEOUT SUBMITTALS

A. Maintenance Data: For each type of decorative film overlay, to include in maintenance manuals.

1.4 FIELD CONDITIONS

A. Environmental Limitations: Do not proceed with application of film when ambient and substrate temperature conditions are outside limits permitted by manufacturer, or are wet from frost, condensation, or other causes.

PART 2 - PRODUCTS

2.1 GLASS SURFACE FILM

A. Manufacturers:
   1. Llumar.
   2. 3M.
   3. Avery Dennison Graphics.
   4. DesignTex.
   5. FDC Graphic Films, Inc..
   6. Solar Gard.
   7. Solyx.

B. (WF-1) Decorative Film Overlays: Dimensionally stable, cast **PVC** film, 2 mils minimum thickness, with pressure-sensitive, clear adhesive backing.
   1. Basis of Design: As indicated on Material Identification List.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Examine glass substrate and surfaces receiving film overlay. Confirm that substrate condition and temperature, as well as ambient temperature and relative humidity are in accordance with requirements of film manufacturer's instructions.

B. Clean and treat glass surfaces in accordance with film manufacturer's written instructions.

C. Application: Prepare glass surface and apply film in accordance with Manufacturers written instructions. Apply in single sheet completely overlaying , squarely aligned to glass edges, uniformly smooth, and free from tears, air bubbles, wrinkles, and rough edges.

D. Protection: Protect film from contact with contaminating substances. If, despite such protection, contaminating substances do come into contact with glass, remove substances immediately as recommended in writing by glass manufacturer. Remove and replace film that is damaged during construction period.

END OF SECTION

SECTION 091330
CONCRETE SURFACE TREATMENTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Surface-applied treatments for existing slabs or new slabs to be left exposed as finished floor.
   1. Clear, film-forming acrylic sealer (CST-1).

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product indicated.

B. Samples for Initial Selection: Submit 4 samples, each 12-inches by 12-inches, demonstrating range of concrete mixes and colors.

1.3 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Applicator.

B. Product Certificates: For each type of product.
   1. Include manufacturer's printed statement of VOC content.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance Manual: Submit installer’s maintenance manual, including maintenance and cleaning instructions for polished concrete floor system.

1.5 QUALITY ASSURANCE

A. Applicator Qualifications: An employer of workers trained and approved by manufacturer.

B. Field Sample Panels: After approval of verification sample and before casting concrete, produce field sample panels to demonstrate the approved range of selections made under Sample submittals. Produce a minimum of three sets of full-scale panels, approximately 48 by 48 inches minimum, to demonstrate the expected range of finish, color, and appearance variations.
   1. Locate panels as indicated or, if not indicated, as directed by Architect.
   2. Maintain field sample panels during construction in an undisturbed condition as a standard for judging the completed Work.
   3. Demolish and remove field sample panels when directed.

C. Mockups: Provide mockup of CST applied to typical vertical concrete surface, in accordance with Section 014300 - Mockups. Prepare mockups of each required water repellent on each type of substrate required to demonstrate aesthetic effects,[for preconstruction testing,] and to set quality standards for materials and execution.
   1. Size: 10 sq. ft. each.
   2. Locate mockups on existing surfaces where directed by Architect in locations that enable viewing under same conditions as the completed Work.
   3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.

1.6 SITE CONDITIONS

A. Environmental Limitations: Comply with manufacturer’s written instructions for substrate temperature and moisture content, ambient temperature and humidity, ventilation and other conditions affecting installation performance.

B. Slab Protection: Protect areas to receive concrete finish at all times during construction; prior to, during, and after polishing procedures.

PART 2 - PRODUCTS

2.1 PRODUCT REQUIREMENTS

A. Compatibility: Provide products that are compatible with one another and substrates indicated under conditions of service and application, as demonstrated by manufacturer of chemicals based on testing and field experience.

B. Source Limitations: System must consist of components produced by a single manufacturer, or as recommended by primary system manufacturer, and as approved by the Architect.

1. Provide materials that are consistent from the same lot and batch for the entire project.
2. Do not use calcium chloride additives.

2.2 ACRYLIC SEALER

A. (CST-1) Clear, Acrylic Sealer: ASTM C309 Type 1, Class A&B and containing not less than 30 percent solids, non-yellowing.

1. Basis of Design:
   a. Dayton Superior Corp.: Safe Cure and Seal (J-19)
   b. Euclid Chemical Co.: Super-Diamond Clear VOX.
   c. L&M Construction Chemicals: Dress and Seal WB 30

2.3 AUXILLIARY MATERIALS

A. Joint Filler: Rapid setting, 100% solids, flexible, two-part polyurea joint filler.

1. Product: CreteFill Pro 75 Polyurea Joint Filler by Curecrete Distribution, Inc.
2. Color: Manufacturer's standard gray, or as determined by architect
3. Performance Criteria:
   a. Tensile Strength: ASTM D412 - 740psi
   b. Shore "A" Hardness: ASTM D2240 - 75-77
   c. Elongation: ASTM D412 - 290%

PART 3 - EXECUTION

3.1 EXAMINATION

A. With Applicator present, examine concrete slab for compliance with requirements, installation tolerances and other conditions affecting performance.

1. Notify Architect of conditions that would adversely affect installation or subsequent use.
2. Repair or otherwise correct unsatisfactory conditions.
3. Proceed with finishing procedures only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Slab Repair: Employ same repair methods as demonstrated on mockup and approved by Architect.

1. Mix patching compound or grout material with dust created by grinding operations, manufacturer’s tint, or sand to match color of adjacent concrete surfaces.
2. Fill surface imperfections including, but not limited to, holes, surface damage, small and micro cracks, air holes, pop-outs, and voids with grout to eliminate micro pitting in finished work.
3. Work compound and treatment until color differences between concrete surface and filled surface imperfections are not reasonably noticeable when viewed from 10 feet away under lighting conditions that will be present after construction.

B. Substrate Cleaning: Remove dirt, dust, rust, debris, oil, grease, curing agents, bond breakers, paint, coatings, and other surface contaminants which could adversely affect installation of floor finish system.

1. Remove dirt, stains, measurement markings, oversprayed materials, tread marks and footprints that would remain visible in final Work.
2. Verify that floor and joints are dry and free of debris and excessive dirt, dust, clay, sand and gravel

C. Adjacent Surfaces: Protect adjacent surfaces as required to prevent damage by finishing procedures.

3.3 SEALER APPLICATION

A. Apply concrete sealer in accordance with Manufacturer's requirements.

3.4 CHEMICAL STAIN AND SEALER APPLICATION

A. Concrete surfaces shall be dry and properly prepared as described above. Protect surrounding areas from over-spray, run-off and tracking. If applicable, divide surfaces into small work sections using wall, joint lines, or other stationary breaks as natural stopping points.

B. Stain Application: Apply chemical stains full strength (undiluted) at the coverage rate recommended by the manufacturer and use application equipment described in the manufacturer's printed technical literature.
1. Transfer chemical stain to the substrate by brush or spray and immediate scrub into surface.
2. When multiple coats of one or more colors are required, washing and drying between colors.
3. After the final coat of chemical stain has remained on the surface for a minimum of four hours, remove all residue by wet scrubbing with commercial grade detergent. Rinse surfaces after scrubbing until rinse water is completely clean. Protect adjacent areas from rinse run-off.

C. Sealer Application:
1. Concrete substrate shall be completely dry.
2. Test surface for proper PH level prior to applying sealer.
3. Apply sealer according to manufacturer's written instructions at a rate of 300 to 500 square feet per gallon per coat.
4. Maintain a wet edge at all times.
5. Allow sealer to completely dry before applying additional coats.
6. Apply second coat of sealer at 90 degrees to the direction of the first coat using the same application method and rates.
7. Seal horizontal joints in areas subject to pedestrian or vehicular traffic.

3.5 JOINT TREATMENT

A. Fill construction joints and cracks with filler products as specified in accordance with manufacturer's instructions colored to match with concrete color as specified by architect.

B. Scoring: Score decorative jointing in concrete surfaces 1/16 inch deep with diamond blades to match pattern indicated. Rinse until water is clear.
1. Joint Width: As selected by Architect.

3.6 INSTALLED WORK

A. Repair: Repair damaged areas of completed concrete floor system to satisfaction of Architect.

B. Clean: Immediately remove mortar splatter, spilled liquids, oil, grease, paint, coatings, and other surface contaminants which could adversely affect completed concrete floor system.

C. Slab Protection: Protect areas to receive concrete finish at all times during construction; prior to, during, and after procedures. Prevent oils, dirt, metal, excessive water and other potentially damaging materials from affecting the finished concrete surface.

END OF SECTION

This page intentionally left blank.

SECTION 092200
NON-STRUCTURAL METAL FRAMING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Non-structural metal framing systems for interior assemblies, including:
   1. Interior partitions.
   2. Interior suspended ceiling and soffit systems.
   3. Shaft wall systems.

1.2 COORDINATION

A. Preinstallation Conference: Convene a pre-installation meeting at the beginning of the project to review acoustically-rated construction requirements and to coordinate penetrations.
   1. Architect, Contractor, Owner's representative and each trade that may need to penetrate acoustically rated construction or will be involved in construction of acoustically rated partitions and related systems must attend.
   2. Review layouts and routing for potential penetrating items, discuss reducing or eliminating penetrating items by considering alternate routing, review construction requirements, details and specifications for acoustically rated construction.
   3. A follow-up meeting should be scheduled as needed.
   4. This meeting can occur in conjunction with a regular construction progress meeting.
   5. Publish meeting minutes highlighting topics discussed, actions items and decision made.

1.3 ACTION SUBMITTALS

A. Product Data: For each product, including installation accessories. Include the following for metal framing submittals:
   1. Submit statement indicating that metal stud manufacturer has reviewed Project documents and that framing supplied conforms to specified requirements.
   2. Submit list of completed projects of similar project type and similar wall loading where specific product recommended has been used.
   3. Submit material test reports from a qualified testing agency indicating and interpreting test results for compliance with requirements indicated.
   4. Evaluation Reports: ICC-ES reports for metal studs and tracks, indicating compliance with specified requirements and building code in effect.

B. Shop Drawings:
   1. Indicate on plans and elevations the locations of all metal backing.
      a. Construction details, sizes of metal sections, thickness of metals, attachments and dimensions.
      b. Welding: Indicate welded connections, both shop and field, using standard AWS welding symbols. Indicate net weld lengths.

C. Code-Compliance Certification of Studs and Tracks: Provide documentation that framing members are certified according to the product-certification program of the Certified Steel Stud Association the Steel Framing Industry Association or the Steel Stud Manufacturers Association.

1.4 INFORMATIONAL SUBMITTALS

A. Shop Drawings: Indicating light gauge framing system. Indicate by plan and elevation, stud framing (spacing, sizes, thicknesses and types), openings, bracing and blocking, fastening and anchorage, strapping, bridging, connection details and reinforcement.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Design framing systems in accordance with American Iron and Steel Institute *AISI Standard S220-11 North American Specification for the Design of Cold-Formed Steel Framing - NonStructural Members*, except as otherwise shown or specified.

B. Fire-Test-Response Characteristics: For fire-resistance-rated assemblies that incorporate non-load-bearing metal framing, provide materials and construction identical to those tested in assembly indicated, according to ASTM E 119 by an independent testing agency.

C. STC-Rated Assemblies: For STC-rated assemblies, provide materials and construction identical to those tested in assembly indicated, according to ASTM E 90 and classified according to ASTM E 413 by an independent testing agency.

D. Shaft Wall Assemblies: Provide stud shaft wall system designed and tested by manufacturer to withstand lateral loading (air pressure) of 10 lbs per sq ft for maximum wall height required, and with deflection limited to 1/240 of partition height. Refer to Section 092900 - Gypsum Board for shaft wall construction.

2.2 FRAMING SYSTEMS

A. Framing Members, General: Comply with ASTM C754 for conditions indicated.
   1. Provide framing type, weight, grade and finish of materials in accordance with Manufacturer's recommendations, except where otherwise required by governing regulations and applicable standards.
   2. Provide clips, fasteners, ties, reinforcing, flat strap and backing plates, stiffeners, shoes, tracks, hangers, brackets, anchors, accessories, and trim as recommended by Manufacturer for application indicated.
   3. Steel Sheet Components: ASTM C 645, fabricated of steel meeting requirements of ASTM A1003.
   4. Protective Coating (Minimum): ASTM A653, G40 hot-dip galvanized zinc coating or coating with G40 equivalent corrosion resistance.
   5. Recycled Content of Steel Products: Provide products with average recycled content of steel products such that postconsumer recycled content plus one-half of preconsumer recycled content is not less than 25 percent.

B. (MET STUD-1) Metal Studs and Runners: ASTM C645, and meeting or exceeding flexural strength, allowable bending moment, and screw pull-out of a standard 33 mil thick stud.

C. (MET STUD-2) Shaft Wall Metal Studs: ASTM C645, steel C-H, C-T or I studs hot-dipped galvanized.

D. Double-Runners: ASTM C645 slip-type head joint; inside runner with 2-inch-deep flanges, and outer runner sized to friction fit inside runner.

E. Deflection Track: Steel sheet top runner manufactured to prevent cracking of finishes applied to interior partition framing resulting from deflection of structure above; in thickness not less than indicated for studs and in width to accommodate depth of studs.

F. Firestop Track: Top runner manufactured to allow partition heads to expand and contract with movement of the structure while maintaining continuity of fire-resistance-rated assembly indicated; in thickness not less than indicated for studs and in width to accommodate depth of studs.

G. Furring and Bracing Members: Provide members with protective galvanized coating, in depths as indicated.
   1. (MET FURG-1) Hat-Shaped, Rigid Furring Channels: ASTM C645; with minimum base-metal thickness of 0.033 inch
   2. (MET FURG-2) Z-Shaped Furring: With slotted or nonslotted web; with minimum base-metal thickness of 0.027 inch.

H. Galvanized Flat Strap and Backing Plate at Interior Stud Walls: Steel sheet for blocking and bracing in length and width indicated.

1. Minimum Base-Metal Thicknesses:
   a. Typical: 0.054 inch.
   b. For Heavy Equipment and Grab Bar Locations: 0.068 inch.
2. Where Wood Backing and Blocking is Indicated: Refer to Section 061000 for wood requirements. Provide fire-resistant treatment.

2.3 SUSPENSION SYSTEMS

A. General: Comply with ASTM C754 for conditions indicated.

B. Metal Studs and Furring Channels: As specified above.

C. Tie Wire: ASTM A641, Class 1 zinc coating, soft temper, 0.0625 inch diameter wire, or double strand of 0.0475 inch diameter wire.

D. Hanger Attachment to Anchors in Concrete: Fabricated from corrosion-resistant materials with holes or loops for attaching hanger wires and capable of sustaining, without failure, a load equal to 5 times that imposed by construction as determined by testing according to ASTM E488 by a qualified independent testing agency.
   1. Cast-in-place anchor, designed for attachment to concrete forms.
   2. Postinstalled, chemical anchor.
   3. Postinstalled, expansion anchor.

E. Wire Hangers: ASTM A641, Class 1 zinc coating, soft temper, 0.162 inch diameter.

F. Rod Hangers: ASTM A510, mild carbon steel; ASTM A153, hot-dip galvanized; 0.25 inch diameter.

G. Manufactured Suspension Grid System for Ceilings and Soffits: ASTM C 645, direct-hung system composed of main beams and cross-furring members that interlock.
   1. Products and Manufacturers:
      a. Drywall Grid Systems by Armstrong World Industries, Inc..
      b. Drywall Grid Systems by Chicago Metallic Corporation.
      c. Drywall Suspension System by USG Corporation.

2.4 AUXILIARY MATERIALS

A. Fasteners: Galvanized steel fasteners of type, size, corrosion resistance, holding power, and other properties required to fasten steel members to substrates; and of length suitable for adequate penetration of substrate

B. Isolation Strip: Provide one of the following:
   1. Asphalt-Saturated Organic Felt: ASTM D 226, Type I (No. 15 asphalt felt), nonperforated.
   2. Foam Gasket: Adhesive-backed, closed-cell vinyl foam strips that allow fastener penetration without foam displacement, 1/8 inch thick, in width to suit steel stud size.

C. Acoustic Sealant: In accordance with Section 092900 - Gypsum Board.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas and substrates, with Installer present, and including welded hollow-metal frames, cast-in anchors, and structural framing, for compliance with requirements and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Suspended Assemblies: Coordinate installation of suspension systems with installation of overhead structure to ensure that inserts and other provisions for anchorages to building structure have been installed to receive hangers at spacing required to support the Work and that hangers will develop their full strength.
   1. Furnish concrete inserts and other devices indicated to other trades for installation in advance of time needed for coordination and construction.

B. Coordination with Sprayed Fire-Resistive Materials on Steel:
   1. Before sprayed fire-resistive materials are applied, attach offset anchor plates or ceiling runners (tracks) to surfaces indicated to receive sprayed fire-resistive materials. Where offset anchor plates are required, provide continuous plates fastened to building structure not more than 24 inches o.c.
   2. After sprayed fire-resistive materials are applied, remove them only to extent necessary for installation of non-load-bearing steel framing. Do not reduce thickness of fire-resistive materials below that required for fire-resistance ratings indicated. Protect adjacent fire-resistive materials from damage.

3.3 INSTALLATION, GENERAL

A. Installation Standards: ASTM C 754.
   1. Gypsum Board Assemblies: Also comply with requirements in ASTM C 840 that apply to framing installation.
   2. **Portland Cement Plaster** Assemblies: Also comply with requirements in ASTM C 1063 that apply to framing installation.
   3. **Gypsum Plaster** Assemblies: Also comply with requirements in ASTM C 841 that apply to framing installation.
   4. **Gypsum Veneer Plaster** Assemblies: Also comply with requirements in ASTM C 844 that apply to framing installation.

B. Install supplementary framing, and blocking to support fixtures, equipment services, heavy trim, grab bars, toilet accessories, furnishings, or similar construction. Install bracing at terminations in assemblies.

C. Do not bridge building control and expansion joints with non-load-bearing steel framing members. Frame both sides of joints independently.

D. Sound and Vibration Control Components (SVC): Install in accordance with manufacturer's instructions and as specified in Section 134833.

E. Installation Tolerance: Install each steel framing and furring member so fastening surfaces vary not more than 1/8 inch from plane formed by faces of adjacent framing.

3.4 FRAMING INSTALLATION

A. Framing Installation, General:
   1. Partition Heights: Extend partition stud system through suspended ceilings to structural support above, except where indicated to terminate at ceiling.
      a. Provide additional bracing for partitions extending above ceiling where indicated.
      b. Continue framing around ducts penetrating partitions above ceiling.
   2. Coordinate erection of studs with installation of service utilities. Align stud web openings. Coordinate installation of bucks, anchors, blocking, electrical and mechanical work which is to be placed in or behind partition framing. Allow such items to be installed after framing is complete.
   3. Isolate stud system from transfer of structural loading to system, both horizontally and vertically. Provide slip or cushioned joints to attain lateral support and avoid axial loading.

4. Reinforce stud partitions and provide additional metal studs as indicated and required for installation of wall cabinets, wall mounted equipment, wall mounted mechanical and electrical fixtures, accessories, shelves and shelf standards. Provide thick steel plate to span minimum of 3 studs for installation of mirrors, toilet accessories or grab bars.
5. Fire-Resistance-Rated Partitions: Install framing to comply with fire-resistance-rated assembly indicated and support closures and to make partitions continuous from floor to underside of solid structure.
6. Sound-Rated Partitions: Install framing to comply with sound-rated assembly indicated on Drawings. Do not fasten or bridge inner and outer tracks at nested track construction. Verify that tracks are free of all bridging elements.

B. Runners and Tracks: Secure runner tracks to floor and ceiling construction, and to structure above ceilings as recommended by manufacturer, with fastener spacing not to exceed 24 inches o.c.
1. Runner Tracks: Provide continuous track sized to match studs. Align runner tracks accurately to partition layout at both floor and ceiling. Provide fasteners at corners and ends of runner tracks.
2. Slip-Type Head Joints: Where framing extends to overhead structural supports, install to produce joints at tops of framing systems that prevent axial loading of finished assemblies.
3. Firestop Track: Where indicated, install to maintain continuity of fire-resistance-rated assembly indicated.
4. Door Openings: Screw vertical studs at jambs to jamb anchor clips on door frames; install runner track section (for cripple studs) at head and secure to jamb studs.

C. Metal Studs: Install studs vertically at 16 inches o.c., unless otherwise indicated, and not more than 2 inches from abutting construction, each side of openings, and at corners.
1. Install metal studs in floor and ceiling runner tracks. Secure studs to runners. Anchor light gauge screw-type partition studs to runner tracks by screwing opposite flanges top and bottom, except screw end studs to both tracks at both flanges.
2. Where studs are installed directly against exterior masonry walls or dissimilar metals at exterior walls, install isolation strip between studs and exterior wall.
3. Provide additional studs at exterior corners and 2 inches from inside corners, terminations of partitions, and both sides of control joints.
4. Where partitions abut other construction, provide vertical runner track securely attached to construction.
5. Use full length studs between runner tracks.
6. Stud Splicing: Not permitted.

D. Door Openings:
1. Frame door openings with vertical studs attached to each jamb of door frame.
2. Provide additional studs 2 inches from jamb studs.
3. Frame head of door with horizontal section of runner track attached to jamb studs and provide vertical studs cut to fit between head and ceiling tracks and attach to tracks.
4. Provide 3/4 inch cold-rolled steel channel stiffener at 6 inches above door head extending at least 2 stud spaces beyond jamb studs, and attach to studs.
5. Fit runners under and above openings, secure intermediate studs at spacing of wall studs. Brace stud framing system and make rigid.

E. Other Framed Openings: Frame openings other than door openings the same as required for door openings, unless otherwise indicated. Install framing below sills of openings to match framing required above door heads.

F. Wall Furring Installation:
1. Erect wall furring directly attached to concrete block and concrete walls.
2. Erect furring channels horizontally or vertically as indicated. Secure in place on alternate channel flanges at maximum 24 inches on center.
3. Space furring channels maximum 24 inches on center, not more than 4 inches from floor and ceiling lines or abutting walls.
4. Erect freestanding metal stud framing by means of adjustable furring brackets in accordance with manufacturer's directions.

5. Splicing Members: Lap furring members 8 inches and runner channels 12 inches and wire-tie near each end of lap.

3.5 SHAFT WALL INSTALLATION

A. Shaft Wall Installation, General: Install gypsum board shaft wall assemblies to comply with requirements of fire-resistance-rated assemblies indicated, manufacturer's written installation instructions, and ASTM C 754 other than stud-spacing requirements.
   1. Anchor components to comply with ratings and performance requirements, and with governing regulations.
   2. Isolate shaft system from transfer of structural loading to system, both horizontally and vertically. Provide slip or cushioned type joints to attain lateral support and avoid axial loading.
   3. Do not bridge building expansion joints with shaft wall assemblies; frame both sides of expansion joints with furring and other support.

B. Supplementary Framing: Install supplementary framing in gypsum board shaft wall assemblies around openings and as required for blocking, bracing, and support of gravity and pullout loads of fixtures, equipment, services, heavy trim, furnishings, wall-mounted door stops, and similar items that cannot be supported directly by shaft wall assembly framing.

C. Penetrations: At penetrations in shaft wall, maintain fire-resistance rating of shaft wall assembly by installing supplementary steel framing around perimeter of penetration and fire protection behind boxes containing wiring devices, elevator call buttons, elevator floor indicators, and similar items.

D. Sprayed Fire-Resistive Materials: Coordinate gypsum board shaft system work with sprayed-on fireproofing of structure, so that both remain complete and undamaged. Patch or replace sprayed-on fireproofing removed or damaged during installation of shaft framing system.

3.6 SUSPENSION SYSTEM INSTALLATION

A. Suspended Assemblies, General: ASTM C 754.
   1. Install ceiling framing independent of walls, columns, and above ceiling work.
   2. Do not bridge building expansion joints with support system.
   3. Installation Tolerances: Install steel framing components for suspended ceilings so members for panel attachment are level to within 1/8 inch in 12 feet measured lengthwise on each member transversely between parallel members.

B. Hangers: Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structural or suspension system. Splay hangers only where required to miss obstructions and offset resulting horizontal forces by bracing, countersplaying, or other equally effective means.
   1. Wire Hangers: Secure by looping and wire tying, either directly to structures or to inserts, eye screws, or other devices and fasteners that are secure and appropriate for substrate, and in a manner that will not cause hangers to deteriorate or otherwise fail.
      a. Space hanger wires 48 inches o.c. along carrying channels and within 6 inches of ends of channel run. Anchor hanger wires to supporting structure. Do not attach hangers to metal deck tabs.
   2. Flat Hangers: Secure to structure, including intermediate framing members, by attaching to inserts, eye screws, or other devices and fasteners that are secure and appropriate for structure and hanger, and in a manner that will not cause hangers to deteriorate or otherwise fail.
   3. Coordinate location of hangers with other work.
      a. Do not attach hangers to steel roof deck.
      b. Do not attach hangers to permanent metal forms. Furnish cast-in-place hanger inserts that extend through forms.
      c. Do not attach hangers to rolled-in hanger tabs of composite steel floor deck.
      d. Do not connect or suspend steel framing from ducts, pipes, or conduit.

C. Carrying Channels: Position channels at proper height and level, and secure with hanger wires.

1. Space main carrying channels at maximum 48 inches on center, not more than 6 inches from perimeter walls.
2. Lap splices minimum 12 inches and secure together 2 inches from each end of splice. Provide clearance between channels and abutting walls or partitions.

D. Furring Channels: Comply with Gypsum Association GA-203.
1. Place furring channels perpendicular to carrying channels at 16 inches on center not more than 6 inches from perimeter walls.
2. Lap splices minimum 8 inches and secure together one inch from each end of splice.
3. Provide clearance between furring and abutting walls or partitions. Secure furring to carrying channels with clips.
4. Frame both sides of joints with furring and other supports.
5. Fire-Resistance-Rated Assemblies: Wire tie furring channels to supports.

E. Lateral Bracing: Laterally brace entire suspension system where required. Reinforce openings in ceiling suspension system which interrupt main carrying channels or furring channels, with lateral channel bracing. Extend bracing minimum 24 inches past each end of openings.

F. Manufactured Suspension Grid Systems: Install in accordance with Manufacturer's instructions.
1. Attach perimeter wall track or angle where grid suspension systems meet vertical surfaces.
2. Install main beams and cross tees at the on center spacing required for ceiling loading, and location of in-ceiling services.
3. Mechanically join main beam and cross-furring members to each other and butt-cut to fit into wall track.
4. Provide additional bracing as required by code.

END OF SECTION

This page intentionally left blank.

SECTION 092900
GYPSUM BOARD

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Interior gypsum board (GYP BD).
   2. Acoustic insulation (INSUL-40) and sealant.
   3. Gypsum assembly accessories (GYPA).

1.2 DEFINITIONS

A. Gypsum Board Terminology: Refer to ASTM C11 for definitions of terms for gypsum board assemblies not defined in this Section or in other referenced standards.

1.3 PREINSTALLATION MEETINGS

A. Pre-installation Conference: Convene a pre-installation meeting at the beginning of the project to review acoustically rated construction requirements and to coordinate penetrations.
   1. Architect, Contractor, Owner's representative and each trade that may need to penetrate acoustically rated construction or will be involved in construction of acoustically rated partitions and related systems must attend.
   2. Review layouts and routing for potential penetrating items, discuss reducing or eliminating penetrating items by considering alternate routing, review construction requirements, details and specifications for acoustically rated construction.
   3. A follow-up meeting should be scheduled as needed.
   4. This meeting can occur in conjunction with a regular construction progress meeting.
   5. Publish meeting minutes highlighting topics discussed, actions items and decision made.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Samples: For accessories exposed to view in final installation.
   1. Trim Accessories: Full-size Sample in 12-inch- long length for each trim accessory indicated.

1.5 QUALITY ASSURANCE

A. Mockups: Before beginning gypsum board installation scheduled to receive Level 5 Finish, install panel mockup, 48 inches wide by 96 inches tall, demonstrating at least 2 vertical and 2 horizontal joints, for Architects review of aesthetic effects workmanship.
   1. Apply or install final finish indicated, including painting, on exposed surfaces for review of mockups.
   2. Simulate finished lighting conditions for review of mockups.
   3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Store materials inside under cover and keep them dry and protected against weather, condensation, direct sunlight, construction traffic, and other potential causes of damage.
   1. Stack panels flat and supported on risers on a flat platform to prevent sagging.

1.7 PROJECT CONDITIONS

A. Environmental Limitations: Comply with ASTM C 840 requirements and recommendations of gypsum board manufacturer, for environmental conditions before, during and after application of gypsum board.

B. Do not install paper-faced gypsum panels until installation areas are enclosed and conditioned.
   1. Cold Weather Protection: When ambient outdoor temperatures are below 55 degrees F maintain continuous, uniform, comfortable building working temperatures of not less than 55 degrees F for minimum period of 48 hours prior to, during and following application of gypsum board and joint treatment materials or bonding of adhesives.
   2. Ventilation: Ventilate building spaces as required to remove water in excess of that required for drying of joint treatment material immediately after its application. Avoid drafts during dry, hot weather to prevent too rapid drying.

C. Damaged Materials: Do not install panels that are wet, moisture damaged, and mold damaged.
   1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
   2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Fire-Test-Response Characteristics: For gypsum board assemblies with fire-resistance ratings, provide materials and construction identical to those tested in assembly indicated according to ASTM E119 by an independent testing and inspecting agency acceptable to authorities having jurisdiction.
   1. Fire-Resistance-Rated Assemblies: Indicated by design designations from UL's "Fire Resistance Directory." GA-600, "Fire Resistance Design Manual."

B. STC-Rated Assemblies: For STC-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E 90 and classified according to ASTM E 413 by an independent testing agency.
   1. STC-Rated Assemblies: Indicated by design designations from GA-600, "Fire Resistance Design Manual."

C. Shaft Wall Assemblies: Provide gypsum board shaft wall system design and tested by manufacturer to withstand lateral loading (air pressure) of 10 lbs per sq ft for maximum wall height required, and with deflection limited to 1/240.
   1. Refer to Section 092200 - Non-Structural Metal Framing for shaft wall studs.

2.2 GYPSUM PANEL PRODUCTS

A. Manufacturers:
   1. United States Gypsum.
   2. National Gypsum Company.
   3. Georgia-Pacific.
   4. CertainTeed Corporation.
   5. Temple-Inland.

B. Gypsum Board Products, General: In accordance with ASTM C 1396, and other specified requirements, and as follows:
   1. Provide products that do not contain asbestos.
   2. Provide products in accordance with recommendations of GA 216 - Application and Finishing of Gypsum Panel Products.
   3. Provide products in maximum lengths and widths available to minimize joints and to correspond with support system indicated.

C. (GYP BD-1) Fire-Rated Board: Type X, 5/8 inch thick.

D. (GYP BD-2) Moisture- and Mold-Resistant Board, Type X: With moisture- and mold-resistant paper surfaces and core. Provide mold and water-resistant gypsum board as required by local building code and as indicated
   1. Thickness: 5/8 inch.
   2. Mold Resistance: ASTM D 3273, score of 10.
   3. Products and Manufacturers:
      a. ProRoc M2Tech by CertainTeed.
      b. ToughRock Mold-Guard by Georgia-Pacific.
      c. Sheetrock Mold Tough Firecode by United States Gypsum (USG).

E. (GYP BD-21) Gypsum Shaft Liner: One inch thick shaft wall liner panel with moisture resistant paper facing. Square edges designed for installation into I, C-H, E, or H metal studs.
   1. Acceptable Manufacturer, Paper Faced: ASTM C1396.
      a. United States Gypsum Company: SHEETROCK Brand Gypsum Liner Panels.
      b. National Gypsum Company: Gold Bond Brand Fire-Shield Shaftliner.
      c. G-P Gypsum Corp.: ToughRock Shaftliner.
   2. Acceptable Manufacturer, Moisture and Mold Resistant Paper Faced, ASTM D3273 score of 10:
      a. United States Gypsum Company: SHEETROCK Brand Mold Tough Gypsum Liner Panels.
      b. National Gypsum Company: Gold Bond Brand Fire-Shield Shaftliner XP.
      c. CertainTeed Corp.: M2Tech Shafliner Type X.
   3. Acceptable Manufacturer, Glass Mat Faced, ASTM C1658:
      a. CertainTeed Corp.: GlasRock Shaftliner Type X.
      b. G-P Gypsum Co.: DensGlass Shaftliner.
      c. National Gypsum Company: eXP Shaftliner.
      d. United States Gypsum Company: SHEETROCK Brand Glass-Mat Liner Panels.

F. (GYP BD-38) Abuse-Resistant Mold-Resistant Board: ASTM C1396, ASTM D3272 score of 10 and ASTM C1629 for abuse resistance, manufactured to produce greater resistance to surface abrasion and indentation than standard gypsum panels.
   1. Products:
      a. National Gypsum Company; Gold Bond Brand Hi-Abuse XP Gypsum Board.
      b. United States Gypsum Co.; SHEETROCKBrand Mold Tough Abuse-Resistant Firecode X Panels.
      c. CertainTeed Corp.: AirRenew Extreme Abuse Gypsum Board.
   2. ASTM C1629: Surface Abrasion Level 3, Indentation Level 1, Soft Body Impact Level 2.
   3. Core: 5/8 inch, Type X.
   4. Long Edges: Tapered.

2.3 TILE BACKER BOARDS

A. General: Provide mold- and water-resistant tile backer boards specified.
   1. Mold Resistance Requirement: ASTM D 3273, score of 10 as rated according to ASTM D 3274.
   2. Provide cementitious tile backer boards for tile installation at showers and other high-moisture areas, and as indicated on Drawings.
   3. Contractor's Option: Provide water-resistant gypsum backing boards in lieu of cementitious backer boards for applications other than showers or high-moisture areas, and as submitted to and accepted by Architect.

B. (GYP BD-25) Fire-Rated, Glass-Fiber-Faced, Water-Resistant Gypsum Board: ASTM C1178, fire-rated mold- and water-resistant gypsum wallboard, with coated glass-fiber mat at both faces and at long edges, with moisture retarding acrylic coating on one face.
   1. Core: 5/8 inch thick, Type X.
   2. Edges: Square.
   3. Manufacturers and Products:
      a. DensShield Fireguard Type X Tile Backer Board by G-P Gypsum Corporation.

b. GlasRoc Diamondback Tile Backer Type X Board by CertainTeed Corporation.
c. eXP Tile Backer Fire-Shield Type X by National Gypsum Company
d. Durock Glass-Mat Tile Backerboard Type X by United States Gypsum Corp.

C. Tile Backer Board Accessories:
1. Fasteners: As recommended by backer board manufacturer.
2. Tile-Setting Mortar for Joint Treatment: As specified with Section 093000 - Tiling.
3. Joint Tape: Alkali-resistant fiberglass mesh tape, 2-inches wide, or as recommended by backer board manufacturer.
4. Sealants: As specified in Section 079200 - Joint Sealants.

2.4 JOINT TREATMENT MATERIALS

A. General: Comply with ASTM C 475.

B. Corner Trim, Edge Trim, Inside Corner Trim for Abuse Resistant Gypsum Board:
1. Provide fully bonded paper faced and joint tape backed copolymer tapered plastic trim at abuse resistant gypsum board.
2. Provide corner trim as recommended by manufacturer for each condition.
3. Manufacturer: Drywall Systems International No-Coat.

C. Joint Tape:
1. Interior Gypsum Wallboard: Paper.
2. Tile Backing Panels: As recommended by panel manufacturer.

D. Joint Compound for Interior Gypsum Wallboard: For each coat use formulation that is compatible with other compounds applied on previous or for successive coats.
1. Prefilling: At open joints, rounded or beveled panel edges, and damaged surface areas, use setting-type taping compound.
2. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use setting-type taping compound.
a. Use setting-type compound for installing paper-faced metal trim accessories.
3. Fill Coat: For second coat, use drying-type, all-purpose compound.
4. Finish Coat: For third coat, use drying-type, all-purpose compound.
5. Skim Coat: For final coat of Level 5 finish, use setting-type, sandable topping compound, or high-build interior coating product designed for application by airless sprayer and to be used instead of skim coat compound to produce Level 5 finish.

2.5 ACCESSORIES

A. General: Provide auxiliary materials and accessories that comply with referenced installation standards and manufacturer's written instructions.

B. Trim Accessories: ASTM C 1047; galvanized or aluminum-coated steel sheet, rolled zinc, plastic, or paper-faced galvanized steel sheet; in the following shapes as required:
1. Cornerbead.
2. Bullnose bead.
3. LC-Bead: J-shaped; exposed long flange receives joint compound.
4. L-Bead: L-shaped; exposed long flange receives joint compound.
5. U-Bead: J-shaped; exposed short flange does not receive joint compound.
6. Expansion (control) joint.
7. Curved-Edge Cornerbead: With notched or flexible flanges.

C. Fasteners and Anchorages: GA 216, type and size as recommended by board manufacturer.

D. Fasteners: Use self-tapping or appropriate threaded fastener, compatible with all materials fasteners will contact with and not causing galvanic corrosion.

E. Steel Drill Screws: ASTM C 1002, unless otherwise indicated.
1. Use screws complying with ASTM C 954 for fastening panels to steel members from 0.033 to 0.112 inch thick.

2. For fastening cementitious backer units, use screws of type and size recommended by panel manufacturer.

F. Laminating Adhesive: Joint compound or adhesive as recommended by gypsum board manufacturer for laminating gypsum board face layer to gypsum board base layer.
   1. Approved Product for Use at Noise Critical Spaces: Green Glue by Certainteed.

G. Joint Sealant (Non-Acoustic): As specified in Section 079200 - Joint Sealants.

2.6 ACOUSTICAL INSULATION

A. Acoustic Insulation, General:
   1. Insulation is required to be formaldehyde-free or GreenGuard Indoor Air Quality Certified.
   2. Flamespread: Maximum flame-spread and smoke-developed indexes of 25 and 50, respectively, per ASTM E 84; passing ASTM E 136 for combustion characteristics.

B. (INSUL-40) Glass-Fiber Acoustic Insulation: ASTM C 665, Type I; unfaced fiberglass batts or blankets, free of formaldehyde and GreenGuard Indoor Air Quality Certified.
   1. Basis of Design:
      a. CertainTeed; NoiseReducer (FF)
      b. Johns Manville: Formaldehyde-Free and Unfaced Sound Control Batts.

2.7 ACOUSTICAL SEALANT

A. (SLNT) Provide acoustical joint-sealant products that effectively reduce airborne sound transmission through perimeter joints and openings in building construction, as demonstrated by testing representative assemblies according to ASTM E 90.
   1. Provide permanently resilient, non-hardening, non-bleeding silicone or polyurethane caulking material. Use polyurethanes for joints that will be painted and silicone or polyurethane for unpainted joints. Do not use latex, siliconized latex, or siliconized acrylic sealants for acoustic purposes, unless the product is specifically listed below.
   2. Product Requirements:
      a. Elongation: 100 percent, minimum.
      b. Shore "A" Hardness: 45, maximum.
      c. Movement Capability: 30% or higher.
      d. Class: 35 or higher per ASTM C920.

B. Acoustical Sealant for Exposed Joints: Manufacturer's standard nonsag, non-hardening, non-skinning, paintable, nonstaining latex acoustical sealant complying with ASTM C 834.

C. Acoustical Sealant for Concealed Joints: Manufacturer's standard nonsag, nondrying, nonhardening, nonskinning, nonstaining, gunnable, synthetic-rubber acoustical sealant.

2.8 ARCHITECTURAL TRIM

A. (GYPA) Extruded Aluminum Profile Trim, Reveals, and Moldings: Alloy 6063-T5, ASTM B 221.
   1. Basis of Design: As indicated on Material Identification List.
   2. Finish: Prefinished or field-painted as indicated on Material Identification List.

B. Manufacturers of Decorative Trim: Provide specified products or equivalent products by one of the following:
   1. Gordon Incorporated.
   2. Fry Reglet Corporation.
   3. Pittcon Industries.

PART 3 - EXECUTION

3.1 GYPSUM BOARD INSTALLATION

A. Install and finish gypsum board and accessories in accordance with manufacturer's printed instructions and comply with recommendations of GA 216 and ASTM C840, including appendixes. Verify control joint locations at walls and ceilings with Architect.

B. Minimize butt joints by using gypsum board of maximum length possible. If cut butt joints are unavoidable, locate end butt joints as far from center of walls or ceilings as possible and stagger not less than 12 inches in alternate courses of board.

C. Do not install imperfect, damaged, damp or wet gypsum board.

D. Abut boards together for light contact at edges or ends with not more than 1/16 inch open space between boards. Do not force into place.

E. Locate edges and joints over supports or back-blocking except in horizontal applications. Position gypsum board so that both tapered edge joints and cut edges abut. Do not place tapered edges against cut edges or ends. Stagger vertical joints over different studs on opposite sides of partition/walls.
   1. Form curved surfaces by carefully bending and fastening board to smooth even curve, free of flat or distorted areas and other imperfections. Comply with manufacturer's instructions for dampening of sheets or scoring of back face, if required to form to radius shown.
   2. Hold gypsum board 1/4 inch above floor at each type of partition.

F. Install solid and semisolid drywall partitions made-up of coreboard or gypsum board studs with face courses of exposed gypsum board, laminated with both adhesive and screws.

G. Isolate gypsum surfaces with control joints or other stress relief where:
   1. Partition or furring abuts structural element (except floor) or dissimilar wall or ceiling.
   2. Ceiling abuts structural element, dissimilar wall or partition or other vertical penetration.
   3. Construction changes within plane of partition or ceiling.
   4. Partition or furring run exceeds 30 feet.
   5. Ceiling dimensions exceed 30 feet in either direction.
   6. Wings of "L", "U" and "T" shaped ceiling areas are joined.
   7. Expansion joints occur in exterior wall if expansion joints are not used.
   8. Where control joint is near a door opening, locate and align control joint with edge of door frame.
      a. Ceiling height door frames may be used as control joints.
      b. Where door frames are less than ceiling height, extend control joints to ceiling from both corners
   9. Review location of joints with Architect.

H. Cover both faces of steel stud partition framing with gypsum panels in concealed spaces (above ceilings, etc.), except in chases braced internally.
   1. Unless concealed application is indicated or required for sound, fire, air, or smoke ratings, coverage may be accomplished with scraps of not less than 8 sq. ft. in area.
   2. Fit gypsum panels around ducts, pipes, and conduits.
   3. Where partitions intersect open concrete coffers, concrete joists, and other structural members projecting below underside of floor/roof slabs and decks, cut gypsum panels to fit profile formed by coffers, joists, and other structural members; allow 1/4- to 3/8-inch- wide joints to install sealant.

I. Provide perimeter isolation where non-load-bearing partitions abut structural decks or ceilings, or vertical structural elements. Allow not less than 1/4 inch, or more than 1/2 inch gap between gypsum and structure. Finish edges of face layer with casing bead. Seal space between casing bead and structure with continuous acoustical sealant bead. Do not attach board directly to tracks.

J. Cutting, Fitting and Trimming: Accurately measure and precut gypsum drywall units prior to installation. Make cuts from face side by scoring and snapping away from face side or by sawing. Completely cut paper on back face; do not break paper by tearing. Maintain close tolerances for accurate fit at joints between sheets and at framed openings, and allow for covering of edges of cut-outs with plates and escutcheons. Cut edges smooth as required for neat and accurate fit.

K. Begin fastening from center portion of sheet and work toward edges and ends. Ensure contact of drywall with supports by applying pressure on surface adjacent to fastener being driven. Do not locate fasteners closer than 3/8 inch from edges or ends of sheets. Drive with shank approximately perpendicular to drywall surface.

L. Drive screws with power screwdriver recommended by drywall manufacturer. Do not hammer drive screws. Set screw heads slightly below surface of drywall, but do not break or strip paper face around screw. Stagger screws on edges and ends of adjacent sheets.

M. For fire-rated Walls: Fasten to metal framing and furring with screws. Comply with drywall manufacturer's instructions and UL requirements for fastening, but do not exceed 8 inches on center at perimeter and 12 inches on center spacing at the field. Space fasteners not less than 1/4 inch from edges and ends of gypsum drywall.

1. For Non-rated Walls: Fasten perimeter and field at 12 inches on center.
2. For multilayer fire-rated walls: Comply with UL requirements.
3. For Acoustical Walls: Comply with fire-rated wall UL requirements.

N. Multilayer Application on Partitions/Walls: Apply gypsum board indicated for base layers and face layers vertically (parallel to framing) with joints of base layers located over stud or furring member and face-layer joints offset at least one stud or furring member with base-layer joints, unless otherwise indicated or required by fire-resistance-rated assembly. Stagger joints on opposite sides of partitions.

1. Z-Furring Members: Apply base layer vertically (parallel to framing) and face layer either vertically (parallel to framing) or horizontally (perpendicular to framing) with vertical joints offset at least one furring member. Locate edge joints of base layer over furring members.

O. Multilayer Fastening Methods: Fasten base layers and face layers separately to supports with screws.

3.2 ACOUSTICALLY RATED PARTITIONS

A. Where acoustically rated partitions are shown, provide complete air tight, acoustical rated assembly meeting or exceeding requirements of Sound Transmission Class (STC) ratings per manufacturer’s requirements and GA 600 for sound control requirements.

B. Do not penetrate acoustically rated partitions without authorization from Architect.

C. Stagger joints between layers of gypsum board and install gypsum board to be continuous between adjacent rooms.

D. Fit gypsum board tightly around structural elements.

E. Install continuous acoustical sealant at:

1. Entire perimeter of wall on each side of top, bottom and side of walls.
2. Intersection at change of plane and change of material.
3. Gaps between service outlets and gypsum board
4. Each penetration.
5. Structural elements.
6. All penetrations of partition, wall, and floor construction by ductwork, conduit, piping, or structure.
7. All termination of partitions enclosing Noise Critical Spaces to abutting construction (e.g. partitions, structure, etc.)
8. Both sides of door frames to abutting construction where doors are scheduled to have acoustical seals.
9. Both sides of window frames to adjacent construction.

10. Perimeter of and penetrations through sound isolating ceilings, roof systems, and floor systems.

F. Seal entire back of service boxes.

G. Seal gaps around penetrations as follows:
   1. One inch or less gap filled tightly with batt insulation and apply sealant.
   2. One inch or greater gap fill with acoustical insulation and moldable putty.

H. Acoustical Sealant Installation: Provide acoustical sealant at the following locations:
   1. At penetrations of partition, wall, and floor construction by ductwork, conduit, piping, or structure.
   2. At termination of partitions enclosing Noise Critical Spaces to abutting construction (e.g. partitions, structure, etc.)
   3. At both sides of door frames to abutting construction where doors are scheduled to have acoustical seals.
   4. At both sides of window frames to adjacent construction
   5. At perimeter of and penetrations through sound isolating ceilings, roof systems, and floor systems.
   6. Provide backer rod at all acoustical sealant joints..

3.3 INSTALLATION OF TILE BACKER BOARD

A. Comply with manufacturer's written instructions for installation and finishing.
   1. Cementitious Backer Boards: ANSI A108.11.
   2. Install backerboard, leaving a 1/8-inch to 3/16-inch gap at all joints and corners. Stagger board joints with those of adjacent rows.
   3. Fasten backerboard every8-inches o.c. along framing members.
   4. Fill gaps solid with latex Portland cement mortar and embed 2-inch alkali resistant fiberglass tape.

B. Tape joints in backer board as recommended by board manufacturer. Seal ends, cut-edges and penetrations of each piece with tile setting mortar or water-resistant adhesive, and then immediately imbed tape and level joints.

C. Where tile backing panels abut other types of panels in same plane, shim surfaces to produce a uniform plane across panel surfaces.

D. Installation Tolerances: Board faces shall not vary from plane greater than 1/8-inch in 10 feet.

E. Comply with backer board manufacturer's written instructions for installation and finishing, and as specified herein.
   1. Coordinate with Section 079200 - Joint Sealants and Section 093000 - Tiling.
   2. Where tile backing panels abut other types of panels in same plane, shim surfaces to produce a uniform plane across panel surfaces.

F. Cementitious Tile Backer Boards: Install in accordance with ANSI A108.11.
   1. Stagger board joints with those of adjacent rows.
   2. Place panels with 1/8-inch to 3/16-inch gap at all joints and corners.
   3. Drive nails or screws flush with surface. Do not countersink fasteners.
   4. Do not use drywall nails or screws. Do not use drywall joint tape or joint compound.
   5. Apply sealant to penetrations around pipes and fixtures.
   6. Grout solid all gaps with tile-setting mortar.
   7. Treat joints and corners with alkali-resistant mesh tape, embedded in skim coat of tile-setting mortar.

G. Glass-Fiber-Faced Water-Resistant Gypsum Tile Backing Boards: Install in accordance with ASTM C840.
   1. Do not use water-resistant gypsum backing boards at showers or other high-moisture installations, or at exterior installations.
   2. Stagger board joints with those of adjacent rows.

3. Drive nails or screws flush with surface. Do not countersink fasteners.
4. Apply sealant to all cut edges of board and all fastener penetrations.
5. Apply sealant to penetrations around pipes and fixtures.
6. Grout solid all gaps with tile-setting mortar.
7. Treat joints and corners with alkali-resistant mesh tape, embedded in skim coat of tile-setting mortar.

3.4 ACCESSORIES INSTALLATION

A. Acoustical Insulation: Install blankets in accordance with manufacturer's printed instructions, with tight joints in blanket units. Use tape, adhesive or staples to hold blankets in place.
   1. Place acoustical insulation in partitions tight within spaces, around cut openings, behind and around electrical and mechanical items within or behind partitions and tight to items passing through partitions.

B. Drywall Sealant: Seal perimeter of sound-rated partitions by filling open space between drywall and floor or ceiling construction with continuous bead of sealant. Fill open spaces between drywall and fixtures, cabinets and other flush or penetrating items with continuous bead of sealant. Seal sides and back of electrical boxes to completely close up openings and joints. Seal perimeter of wallboard shaft wall where it abuts other work.
   1. Apply joint sealant in accordance with Section 079200 - Joint Sealants.

C. Adhesive Application: Use adhesive recommended by manufacturer for type of substrate indicated. Prepare substrate and laminate wallboard in accordance with manufacturer's printed instructions. Provide temporary fasteners or bracing as recommended until adhesive sets.

D. Reinforce external corners of drywall with metal corner bead. Securely fasten metal corner beads, edge trim casing beads and control joints.

3.5 SHAFT WALL INSTALLATION

A. Anchor and fasten materials and components to comply with ratings and performance requirements, and to comply with governing regulations.

B. Coordinate gypsum board shaft system work with sprayed-on fireproofing of structure, so that both remain complete and undamaged. Patch or replace sprayed-on fireproofing removed or damaged during installation of shaft system.

C. Seal perimeter of each section of gypsum board shaft work where it abuts other work. Install second bead of acoustical sealant in location and manner which will prevent dislocation by air pressure differential between shaft and external spaces. Seal joints and penetrations in work; comply with manufacturer's instructions.

D. General: Install gypsum board shaft wall assemblies to comply with requirements of fire-resistance-rated assemblies indicated, manufacturer's written installation instructions, and ASTM C 754 other than stud-spacing requirements.

E. Do not bridge building expansion joints with shaft wall assemblies; frame both sides of expansion joints with furring and other support.

F. Install supplementary framing in gypsum board shaft wall assemblies around openings and as required for blocking, bracing, and support of gravity and pullout loads of fixtures, equipment, services, heavy trim, furnishings, wall-mounted door stops, and similar items that cannot be supported directly by shaft wall assembly framing.
   1. Elevator Hoistway: At elevator hoistway-entrance door frames, provide jamb struts on each side of door frame.
   2. Reinforcing: Where handrails directly attach to gypsum board shaft wall assemblies, provide galvanized steel reinforcing strip with [**0.033-inch**] <**Insert dimension**> minimum thickness of base metal (uncoated), accurately positioned and secured behind at least one layer of face panel.

G. Penetrations: At penetrations in shaft wall, maintain fire-resistance rating of shaft wall assembly by installing supplementary steel framing around perimeter of penetration and fire protection behind boxes containing wiring devices, elevator call buttons, elevator floor indicators, and similar items.

H. Isolate perimeter of gypsum panels from building structure to prevent cracking of panels, while maintaining continuity of fire-rated construction.

I. Firestop Tracks: Where indicated, install to maintain continuity of fire-resistance-rated assembly indicated.

J. Control Joints: Install control joints [**at locations indicated on Drawings**] [**according to ASTM C 840 and in specific locations approved by Architect**] while maintaining fire-resistance rating of gypsum board shaft wall assemblies.

K. Sound-Rated Shaft Wall Assemblies: Seal gypsum board shaft walls with acoustical sealant at perimeter of each assembly where it abuts other work and at joints and penetrations within each assembly.

L. Cant Panels: At projections into shaft [**exceeding 4 inches**] [**where indicated**], install 1/2- or 5/8-inch- thick gypsum board cants covering tops of projections.
   1. Slope cant panels at least 75 degrees from horizontal. Set base edge of panels in adhesive and secure top edges to shaft walls at 24 inches o.c. with screws fastened to shaft wall framing.
   2. Where steel framing is required to support gypsum board cants, install framing at 24 inches o.c. and extend studs from the projection to shaft wall framing.

M. Installation Tolerance: Install each framing member so fastening surfaces vary not more than 1/8 inch from the plane formed by faces of adjacent framing.

3.6 FINISHING

A. Finish exposed drywall surfaces with joints, corners and exposed edges reinforced or trimmed and with joints, fastener heads, trim accessory flanges and surface defects filled with joint compound in accordance with drywall manufacturer's recommendations for smooth, flush surface. Form true, level or plumb lines, without joints, fastener heads, flanges of trim accessories or defects visible after application of field-applied decoration. Exposed metal trim (not filled) will not be acceptable.

B. Use joint tape to reinforce joints formed by tapered edges or butt ends of drywall units and at interior corners and angles. Set tape in joint compound and apply skim coat over tape in one application. Do not use topping or finishing compounds for setting of tapes.

C. Apply joint compound to joint. Apply joint compound to fill holes left from removal of screws at intermediate studs. Finish gypsum drywall thereafter, including sanding of final coat, in accordance with ASTM C840.

D. Where open spaces of more than 1/16 inch width occur between abutting drywall units, except at control joints, prefill joints with joint compound and allow prefill to dry before application of joint tape.

E. Finish Levels of Joints in Interior Gypsum Board Work:
   1. Level 0: No taping, finishing, or accessories required.
      a. Use above suspended ceilings and within other concealed spaces, unless assembly is fire rated, sound rated, sound or smoke controlled, or unless space serves as air plenum.
   2. Level 1: At joints and interior angles embed tape in joint compound. Leave surface free of excess joint compound. Tool marks and ridges are acceptable.
   3. Level 2: At joints and interior angles embed tape in joint compound with one separate coat of joint compound applied over joints, angles, fastener heads, and accessories.
      a. Use for mold and water resistant gypsum board indicated for use as a substrate for ceramic tile.
      b. Use for gypsum board indicated for use as a substrate for wood paneling or acoustical panels.
      c. Use above suspended ceilings and within other concealed spaces if gypsum board assembly is fire rated, sound rated, sound or smoke controlled, or space serves as air plenum.

4. Level 3: At joints and interior angles embed tape in joint compound with 2 separate coats of joint compound applied over joints, angles, fastener heads, and accessories. Apply joint compound smooth and free of tool marks and ridges.
    a. Use where heavy grade wall covering is final decoration.
    b. Use where gypsum board is base for acoustical ceiling tile.
5. Level 4: At joints and interior angles embed tape in joint compound with 3 separate coats of joint compound applied over joints, angles, fastener heads, and accessories. Apply joint compound smooth and free of tool marks and ridges.
    a. Use for all locations, except those indicated for other finish levels.
6. Level 5: At joints and interior angles embed tape in joint compound with 3 separate coats of joint compound applied over joints, angles, fastener heads, and accessories. Apply thin skim coat, as specified in Joint Treatment Materials Article above, to entire surface. Leave surface smooth and free of tool marks and ridges.
    a. Use where semi-gloss or gloss finish coatings are final decoration.
    b. Use for 2 story walls with direct natural day lighting (Lobbies, Entries, Rooms with large day lighting and long walls perpendicular to windows).
    c. Use at ceilings in Lobbies, assembly areas with direct natural day lighting.
    d. Use where skim coat finish is indicated.
    e. On surfaces scheduled to receive wall coverings.

F. Cementitious Backer Units: Finish according to manufacturer's written instructions.

G. Glass-Mat, Water-Resistant Backing Panels: Finish according to manufacturer's written instructions.

3.7 FIELD QUALITY CONTROL

A. Above-Ceiling Observation: Before Contractor installs gypsum board ceilings, Architect will conduct an above-ceiling observation and report deficiencies in the Work observed. Do not proceed with installation of gypsum board to ceiling support framing until deficiencies have been corrected.
    1. Notify Architect seven days in advance of date and time when Project, or part of Project, will be ready for above-ceiling observation.
    2. Before notifying Architect, verify installation of mechanical, electrical and other facility services work and Installation of ceiling support framing in areas to receive gypsum board ceilings.

3.8 INSTALLED WORK

A. Protect adjacent surfaces from drywall compound and promptly remove from floors and other non-drywall surfaces. Repair surfaces stained, marred, or otherwise damaged during drywall application.

B. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period.

C. Remove and replace panels that are wet, moisture damaged, and mold damaged.
    1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
    2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

END OF SECTION

This page intentionally left blank.

SECTION 093000
TILING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Ceramic tile.
   2. Setting Materials.
   3. Waterproofing and Crack Isolation Membrane
   4. Tiling Accessories.
   5. Installation Procedures.

1.2 ACTION SUBMITTALS

A. Product Data: For each product specified.

B. Shop Drawings: Indicate tile patterns and accessory locations; width and locations of control, isolation, contraction and expansion joints in tile surface.

C. Samples: For color selection and appearance acceptance.
   1. Full-size units of each type and size of tile and for each color and finish.
   2. Grout color samples.
   3. Full-size units of each type of ceramic tile accessory (CTA). Provide linear trim and profiles, 6 inches long.

1.3 INFORMATIONAL SUBMITTALS

A. Qualification Data: For qualified Installer.

B. Material Test Reports: For each tile-setting and -grouting products.

1.4 CLOSEOUT SUBMITTALS

A. Furnish extra materials that match and are from same production runs as products installed and that are packaged with protective covering for storage and identified with labels describing contents.
   1. Tile and Trim Units: Furnish quantity of full-size units equal to 3 percent of amount installed for each type, composition, color, pattern, and size indicated.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: Engage installer who has minimum 5 years' experience and who has completed tile installations similar in material, design, and extent to that indicated for this Project and with record of successful in-service performance.

B. Pre-Installation Conference: At least three weeks prior to commencing the work attend a meeting at the jobsite to discuss conformance with requirements of specification and job site conditions. Representatives of owner, architect, general contractor, tile subcontractor, Tile Manufacturer, Installation System Manufacturer and any other parties who are involved in the scope of this installation must attend the meeting

C. Mockups: Build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
   1. Mockup to demonstrate tile layout, and installation tolerances, lippage, grout joint color and width.
   2. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.6 PROJECT CONDITIONS

A. Provide sufficient heat and ventilation in areas where work of this section is being performed, so as to allow ceramic tile to properly set. Take precautionary measures necessary to ensure that excessive temperature changes do not occur.

B. Environmental Limitations: Do not install tile until construction in spaces is complete and ambient temperature and humidity conditions are maintained at the levels indicated in referenced standards and manufacturer's written instructions.

1.7 WARRANTY

A. Mortar and Grout Warranty: Provide 20-year materials and installation.

PART 2 - PRODUCTS

2.1 TILE MATERIALS

A. Source Limitations for Tile: Obtain tile of each type and color or finish from one source or producer, and from same production run and of consistent quality in appearance and physical properties for each contiguous area.

B. ANSI Ceramic Tile Standard: Provide tile that complies with ANSI A137.1 for types, compositions, and other characteristics indicated.

1. Factory-Mounting: For factory-mounted tile, provide back- or edge-mounted tile assemblies as standard with manufacturer unless otherwise indicated.
    a. Where tile is indicated for installation in wet areas, do not use back- or edge-mounted tile assemblies unless tile manufacturer specifies in writing that this type of mounting is suitable for installation indicated and has a record of successful in-service performance.

C. Factory Blending: For tile exhibiting color variations within ranges, blend tile in factory and package so tile units taken from one package show same range in colors as those taken from other packages and match approved Samples.

D. Ceramic Tile: Standard Grade complying with ANSI A137.1. All-purpose porcelain type units with manufacturer's standard back-mounting.

1. Refer to Material Identification List for product selections and product information such as colors, finishes, and accessories. General product type and materials information as specified herein.
    a. (CTF) Ceramic Floor Tiles.
    b. (CTW) Ceramic Wall Tiles.
    c. (CTB) Ceramic Wall Base Tiles.
    d. (LB) Glass Liner Bar.
2. Tile Trim and Special Shapes: Rounded external corners and trim shapes at head, jamb and sills of openings.
3. Slip-Resistant Units: Abrasive-surfaced tile with aluminum oxide abrasive uniformly distributed on face of tile to achieve minimum coefficient of friction of 0.60, ASTM C1028. Provide where indicated.

2.2 SETTING MATERIALS

A. Tile-Setting System Manufacturer: Provide complete tile-setting system consisting of materials by a single Manufacturer. Obtain ingredients of a uniform quality for each mortar, adhesive, and grout component from one manufacturer and each aggregate from one source or producer. Provide tile setting system by one of the following:

1. Custom Building Products.
2. LATICRETE International Inc..
3. MAPEI Corporation.

B. ANSI Standards for Tile Installation Materials: Provide materials complying with ANSI A108.02, ANSI standards referenced in other Part 2 articles, ANSI standards referenced by TCA installation methods specified in tile installation schedules, and other requirements specified.

C. Setting Materials at Terrazzo Tiling (TER): Laticrete 254R Platinum Rapid.

D. Portland Cement Mortar (Thickset) Installation Materials: ANSI A108.02.
   1. Cleavage Membrane: Asphalt felt, ASTM D 226, Type I (No. 15); or polyethylene sheeting, ASTM D 4397, 4.0 mils thick.
   2. Reinforcing Wire Fabric: Galvanized, welded wire fabric, 2 by 2 inches by 0.062-inch diameter; comply with ASTM A 185 and ASTM A 82 except for minimum wire size.
   3. Latex Additive: Manufacturer's standard water emulsion, serving as replacement for part or all of gaging water, of type specifically recommended by latex-additive manufacturer for use with field-mixed portland cement and aggregate mortar bed.

E. Latex-Portland Cement Mortar (Thin Set): ANSI A118.4, consisting of the following:
   1. Prepackaged dry-mortar mix containing dry, redispersible, ethylene vinyl acetate additive to which only water must be added at Project site.
   2. Prepackaged dry-mortar mix combined with styrene-butadiene-rubber liquid-latex additive.
      a. For wall applications, provide nonsagging mortar that complies with Paragraph F-4.6.1 in addition to the other requirements in ANSI A118.4.
   3. Flexible Latex-Cement Mortar: Add flexible latex additive to dry mortar mix as recommended by porcelain tile manufacturer.

F. Mortar for Large Format Floor Tile: Polymer modified portland cement mortar, designed for large format tile for thin-bed or medium-bed applications, complying with ANSI A118.4 and ANSI A118.11, and "Extra Heavy" rating using ASTMC-627 Robinson Floor Test.
   1. Basis of Design:
      a. Laticrete International, Sure-Set.
      b. Mapei, comparable product.
      c. ProLite Tile and Stone Mortar by Custom Building Products.

G. Polymer-Modified Cement Grout: ANSI A118.7. Provide Either ethylene vinyl acetate, in dry, redispersible form, prepackaged with other dry ingredients; or acrylic resin or styrene-butadiene rubber in liquid-latex form for addition to prepackaged dry-grout mix. Color as indicated.
   1. Color: As selected by Architect from manufacturer's full range to match tile.

H. Sanded Polymer-Modified Portland Cement Grout: ANSI A118.6 and ANSI 118.7; and meeting the requirements of ISO 13007 Classification CG2WAF.
   1. Product and Manufacturer: Ultracolor Plus by Mapei.
   2. Use sanded polymer-modified cement grout for setting (CTW-1/-2) and (LB-1).
   3. Color: Custom colors as selected by Architect.

I. Epoxy Grout:
   1. Water-Cleanable, Tile-Setting and -Grouting Epoxy: ANSI A118.3.
   2. Chemical-Resistant, Water-Cleanable, Tile-Setting and -Grouting Epoxy: ANSI A118.3.
   3. Color: As selected by Architect from manufacturer's full range to match tile.
   4. At floor, provide 2-part epoxy grout type (not epoxy-additive type).

2.3 ACCESSORIES

A. Fluid-Applied Waterproofing and Crack Isolation Membrane System: Provide continuous and seamless waterproofing and crack isolation system, including premixed or single-component self-curing liquid-latex rubber or elastomeric-polymer membrane; complying with ANSI A118.10 for waterproofing and ANSI 118.12 for crack isolation; ASTM C627 Extra Heavy Service rating; IAPMO-approved as shower pan liner; and recommended by the manufacturer for the application indicated.
   1. Products and Manufacturers:
      a. Redgard Waterproofing and Crack Prevention Membrane by Custom Building Products
      b. Hydro Ban by Laticrete International, Inc..
      c. Mapelastic AquaDefense by Mapei Corporation.

2. Pre-treat control joints and cracks in accordance with membrane manufacturer's instructions.
3. Provide reinforcement and accessories as recommended by manufacturer for complete system.

B. (CTA-#) Ceramic Tile Trim and Transition Strips: Basis of Design as indicated on Material Identification List.
   1. Basis of Design: As indicated on Material Identification List.

C. (TS-2) Solid Polymer Thresholds: Made from homogeneous solid sheets of filled plastic resin complying with material and performance requirements in ANSI Z124.3, for Type 5 or Type 6, without precoated finish. Fabricate to sizes and profiles indicated or required to provide transition between adjacent floor finishes.
   1. Basis of Design: As indicated on Material Identification List.

D. Sealant: Provide sealants, primers, backer rods, and other sealant accessories that comply with the following requirements and with the applicable requirements in Section 079200 - Joint Sealants.
   1. Use sealants that have a VOC content of 250 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
   2. Use primers, backer rods, and sealant accessories recommended by sealant manufacturer.
   3. Provide sanded elastomeric joints to match sanded grout joints.

E. Adhesives: As recommended by tile manufacturer and complying with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

F. Sealant and Backer Rod: As specified in Section 079200 - Joint Sealants.

2.4 MIXING MORTARS AND GROUT

A. Mix mortars and grouts to comply with referenced standards and mortar and grout manufacturers' written instructions.

B. Add materials, water, and additives in accurate proportions.

C. Obtain and use type of mixing equipment, mixer speeds, mixing containers, mixing time, and other procedures to produce mortars and grouts of uniform quality with optimum performance characteristics for installations indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions where tile will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of installed tile.
   1. Verify that substrates for setting tile are firm, dry, clean, free of coatings that are incompatible with tile-setting materials including curing compounds and other substances that contain soap, wax, oil, or silicone; and comply with flatness tolerances required by ANSI A108.01 for installations indicated.
   2. Verify that concrete substrates for tile floors comply with surface finish requirements in ANSI A108.01 for installations indicated.
      a. Verify that surfaces that received a steel trowel finish have been mechanically scarified.
      b. Verify that protrusions, bumps, and ridges have been removed by sanding or grinding.
   3. Verify that installation of grounds, anchors, recessed frames, electrical and mechanical units of work, and similar items located in or behind tile has been completed.
   4. Verify that joints and cracks in tile substrates are coordinated with tile joint locations; if not coordinated, adjust joint locations in consultation with Architect.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Prepare surfaces to receive tile as recommended by mortar or adhesive manufacturer; and in compliance with TCA's "Handbook for Ceramic Tile Installation".
   1. Roughen surfaces that are glossy or which have loose surface material by sanding or scarifying.
   2. Remove surface material that is not compatible with adhesive.
   3. Use primer when recommended by adhesive manufacturer.
   4. Clean thoroughly to remove oil, dirt and dust.

3.3 WATERPROOFING INSTALLATION

A. Waterproofing Installation: Install waterproofing membrane to comply with ANSI A108.13, ANSI A108.17 and manufacturer's written instructions to produce waterproof membrane of uniform thickness and bonded securely to substrate.
   1. Do not install tile or setting materials over waterproofing membrane until membrane has cured and been tested to determine that it is watertight.
   2. Pre-treat control joints and cracks in accordance with membrane manufacturer’s instructions.
      a. Apply extra fabric-reinforcing at control joints and cracks.
   3. Apply liquid waterproofing membrane full height of shower walls.

B. At Showers: Apply two separate layers. Apply first layer to cover base floor substrate below mortar bed continuous from drain and covering entire wall surface to ceiling on each wall. Second layer is applied over the mortar bed and is continuous overlapping into drain and extending 2 feet above water line onto vertical wall surface.

C. Field Quality Control: Upon completion of waterproof membrane work and prior to tile installation, plug drain or dam areas and fill with water. After 24 hours, inspect for leakage. Make necessary adjustments to stop leakage and re-test until watertight.

D. Where indicated, prepare substrates to receive waterproofing by applying a reinforced mortar bed that complies with ANSI A108.1A and is sloped 1/4 inch per foot toward drains.
   1. Provide waterproofing membrane CTA-1 at shower floor and full-height of shower walls.

E. Crack Isolation Membrane: Install to isolate and suppress substrate cracks according to manufacturer's written instructions. Prepare and prefill substrate cracks with membrane material. Install membrane to produce full substrate coverage in areas to receive terrazzo tiling.

3.4 TILE INSTALLATION

A. Comply with TCA's "Handbook for Ceramic Tile Installation" for TCA installation methods specified in tile installation schedules. Comply with parts of the ANSI A108 Series "Specifications for Installation of Ceramic Tile" that are referenced in TCA installation methods, specified in tile installation schedules, and apply to types of setting and grouting materials used.
   1. Achieve 100 percent bond in tile work. Back butter units 12 inch by 12 inch and larger.

B. Extend tile work into recesses and under equipment and fixtures, to form complete covering without interruptions. Terminate work neatly at obstructions, edges and corners without disruption of pattern or joint alignment.

C. Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Grind cut edges of tile abutting trim, finish or built-in items for straight, aligned joints.
   1. Fit tile closely to electrical outlets, piping and fixtures so that plates, collars or covers overlap tile.

D. Perimeter: Provide for expansion at perimeter with non-grouted and non-sealed perimeter expansion joint.

E. Expansion Joints: Locate expansion joints and other sealant filled joints, including control, contraction and isolation joints, where indicated, or if not indicated, at spacings and locations recommended in TCA Handbook for Ceramic Tile Installation, and approved by Architect.

1. Width of expansion joints in tile to match width of aligned joints in substrate slab.

F. Grout Jointing Pattern: Unless otherwise shown, lay ceramic tile in grid pattern. Align joints when adjoining tiles on floor, base, walls and trim are same size. Layout tile work and center tile fields both directions in each space or on each wall area.
   1. Adjust to minimize tile cutting. Provide uniform joint width.
   2. Joint Widths: Unless otherwise indicated, install tile with the following joint widths:
      a. Ceramic Mosaic Tile: 1/8 inch.
      b. Quarry Tile: 1/4 inch.
      c. Glazed Wall Tile: 1/8 inch.
      d. Porcelain Tile: 1/8 inch.

G. Grout Sealer: Apply grout sealer as recommended by sealer and grout material manufacturers.

H. Tile Accessories: Install at locations indicated, in accordance with Manufacturer's recommendations.

3.5 INSTALLED WORK

A. Cleaning: On completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter.
   1. Remove grout residue from tile as soon as possible.
   2. Clean grout smears and haze from tile according to tile and grout manufacturer's written instructions but no sooner than 10 days after installation. Use only cleaners recommended by tile and grout manufacturers and only after determining that cleaners are safe to use by testing on samples of tile and other surfaces to be cleaned. Protect metal surfaces and plumbing fixtures from effects of cleaning. Flush surfaces with clean water before and after cleaning.
   3. Remove temporary protective coating by method recommended by coating manufacturer and that is acceptable to tile and grout manufacturer. Trap and remove coating to prevent drain clogging.

B. Protection: Protect installed tile work with heavy covering during construction period to prevent damage and wear.
   1. Prohibit foot and wheel traffic from tiled floors for at least seven days after grouting is completed.
      a. Setting materials for large format tile require longer curing time.
   2. Before final inspection, remove protective coverings and rinse neutral protective cleaner from tile surfaces.

END OF SECTION

SECTION 095100
ACOUSTICAL CEILINGS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Acoustical panel ceilings and exposed suspension system (SAT).
   2. Acoustical panel perimeter trim (ACTR).

1.2 COORDINATION

A. Coordinate layout and installation of acoustical panels and suspension system with other construction that penetrates ceilings or is supported by them, including light fixtures, HVAC equipment, fire-suppression system, and partition assemblies.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product indicated.

B. Coordination Drawings: Reflected ceiling plans drawn to scale and coordinating penetrations and ceiling-mounted items. Show the following:
   1. Ceiling suspension members.
   2. Method of attaching hangers to building structure.
   3. Ceiling-mounted items including lighting fixtures, diffusers, grilles, speakers, sprinklers, access panels, and special moldings.
   4. Minimum Drawing Scale: 1/8 inch equals 1 foot.

C. Samples: For each component indicated and for each exposed finish required, prepared on Samples of size indicated below.
   1. Acoustical Panel: Set of manufacturers standard size samples of each type, color, pattern, and texture.
   2. Suspension System Members, Moldings, and Trim: Set of 12 inch long samples of each type, finish, and color.

1.4 INFORMATIONAL SUBMITTALS

A. Evaluation Reports per ICC-ES: For each seismically qualified acoustical tile ceiling suspensions system used in lieu of the industry standard design.

1.5 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
   1. Acoustical Ceiling Units: Full-size panels equal to 2 percent of quantity installed.
   2. Suspension-System Components: Quantity of each exposed component equal to [**2**] percent of quantity installed.
   3. Hold-Down Clips: Equal to 2 percent of quantity installed.
   4. Impact Clips: Equal to 2 percent of quantity installed.

1.6 QUALITY ASSURANCE

A. Installer's Qualifications: Firm experienced in application or installation of systems similar in complexity to those required for this Project, including specific requirements indicated; acceptable to or certified by manufacturer

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver acoustical panels, suspension system components, and accessories to Project site in original, unopened packages and store them in a fully enclosed, conditioned space where they will be protected against damage from moisture, humidity, temperature extremes, direct sunlight, surface contamination, and other causes.

B. Before installing acoustical panels, permit them to reach room temperature and a stabilized moisture content.

C. Handle acoustical panels carefully to avoid chipping edges or damaging units in any way.

1.8 SITE CONDITIONS

A. Environmental Limitations: Do not install acoustical panel ceilings until spaces are enclosed and weatherproof, wet work in spaces is complete and dry, work above ceilings is complete, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

1. Install ceiling tile after carpeting and other interior materials that off-gas has been installed and odors and VOC fumes have dissipated.
2. Permit wet work to dry prior to commencement of installation.

B. Maintain uniform temperatures of minimum 60 degrees F and humidity as recommended by acoustical ceiling manufacturer prior to, during and after installation.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Seismic Design Requirements: Design and construction ceiling system, including attachments to structure, to withstand seismic forces in any direction.

B. Seismic Standard: Provide acoustical panel ceilings designed and constructed in accordance with the following industry or seismic certification standard:

1. ASTM E580: “Standard Practice for Installation of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Subject to Earthquake Ground Motions,” Section 5 – Seismic Design Category E.
2. Seismically qualified in accordance with the International Code Council – Evaluation Services – AC 156 Acceptance Criteria for Seismic Qualification Testing of Non-structural Components, acceptable to the authority having jurisdiction and approved by the Structural Engineer of Record.

C. Surface-Burning Characteristics: Comply with ASTM E 84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

1. Flame-Spread Index: Class A according to ASTM E 1264.
2. Smoke-Developed Index: 50 or less.

2.2 PRODUCTS AND MANUFACTURERS

A. Source Limitations for Ceiling Units and Suspension Systems: Obtain each acoustical ceiling panel and suspension system from one source with resources to provide products of consistent quality in appearance and physical properties without delaying Work.

B. Products and Manufacturers: Provide specified Basis of Design or approved equivalent product by one of the following:

1. Armstrong World Industries, Inc.;
2. USG Interiors, Inc.;
3. Ecophon CertainTeed, Inc.;
4. Chicago Metallic Corporation;

C. (SAT) Panel and Grid Configurations and Basis-of-Design: As indicated on the Material Identification List.

2.3 SUSPENDED ACOUSTICAL TILES

A. Acoustical Panel Standard: Provide manufacturer's standard panels of configuration indicated that comply with ASTM E 1264 classifications as designated by types, patterns, acoustical ratings, and light reflectance, unless otherwise indicated.
   1. Recycled Content: Provide acoustical panels with recycled content such that postconsumer recycled content plus one-half of pre-consumer recycled content constitutes a minimum of 40 percent by weight.
   2. Surface-Burning Characteristics: Provide acoustical panels with surface-burning characteristics complying with ASTM E 1264 for Class A materials with flame spread of 0-25, as determined by testing identical products per ASTM E 84.

B. Broad Spectrum Antimicrobial Fungicide and Bactericide Treatment: Provide acoustical panels treated with manufacturer's standard antimicrobial formulation that inhibits fungus, mold, mildew, and gram-positive and gram-negative bacteria and showing no mold, mildew, or bacterial growth when tested according to ASTM D 3273 and evaluated according to ASTM D 3274 or ASTM G 21.

C. Metal Suspension System: Provide manufacturer's standard direct-hung metal suspension systems of types, structural classifications, and finishes indicated that comply with applicable requirements in ASTM C 635.
   1. Double-Web, Exposed Steel Suspension System: Main and cross runners roll formed from cold-rolled steel sheet, prepainted, electrolytically zinc coated, or hot-dip galvanized according to ASTM A 653, not less than G30 coating designation, with prefinished metal caps on flanges.
      a. Structural Classification: Heavy-duty system.
      b. Face Design: Flat, flush.
      c. Cap Material: Steel cold-rolled sheet.
      d. Face Width: As indicated on Material Identification list.
   2. Wire for Hangers and Ties: ASTM A 641, Class 1 zinc coating, soft temper, pre-stretched, with a yield stress load of at least time three design load, but not less than 12 gauge.

D. Accessories: Provide stabilizer bars, furring clips, splices, edge moldings and hold down clips as required to complete and complement suspended ceiling grid system.
   1. Attachment Devices: Size for five times design load indicated in ASTM C 635, Table 1, Direct Hung unless otherwise indicated.
   2. Edge Moldings and Trim: Provide Roll-formed sheet metal type in profile indicated or, if not indicated, manufacturer's standard moldings for edges and penetrations, [formed from sheet metal of same material, finish, and color as that used for exposed flanges of suspension system runners, and complying with seismic design requirements.
   3. Touch-up Paint: Manufacturer’s touch-up paint for field cut tegular or other reveal edge tiles.

E. Carrying Channels and Hangers: Primed steel, size and type to suit application and to rigidly secure complete acoustic unit ceiling system, with maximum deflection of 1/360.

F. Finishes and Colors, General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes. Provide manufacturer's standard factory-applied finish for type of system indicated.

G. Seismic Struts: Manufacturer's standard compression struts designed to accommodate lateral forces.

H. Seismic Clips: Manufacturer's standard seismic clips designed and spaced to secure acoustical panels in-place.

I. Seismic Separation Joints: For ceiling areas exceeding 2,500 sqft in accordance with ASTM E580

2.4 METAL EDGE MOLDINGS AND TRIM

A. Roll-Formed, Sheet-Metal Edge Moldings and Trim: Type and profile indicated or, if not indicated, manufacturer's standard moldings for edges and penetrations that comply with seismic design requirements; formed from sheet metal of same material, finish, and color as that used for exposed flanges of suspension-system runners.
   1. (ACTR-1) Basis of Design: Axiom by Armstrong. See Material Identification List for more information.
   2. Provide manufacturer's edge moldings that fit acoustical panel edge details and suspension systems indicated and that match width and configuration of exposed runners unless otherwise indicated.
   3. For circular penetrations of ceiling, provide edge moldings fabricated to diameter required to fit penetration exactly.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and structural framing to which ceiling system attaches or abuts, with Installer present, for compliance with requirements specified in this and other sections that affect installation and anchorage of ceiling system. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Measure each ceiling area and establish layout of acoustical units to balance border widths at opposite edges of each ceiling. Avoid use of less-than-half-width units at borders, and comply with reflected ceiling plans.

3.3 SUSPENSION GRID INSTALLATION

A. General: Install acoustical panel ceilings to comply with ASTM C636 [**and seismic requirements indicated**], per manufacturer's written instructions and CISCA's "Ceiling Systems Handbook."

B. Suspend ceiling hangers from building's structural members and as follows:
   1. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structure or of ceiling suspension system.
   2. Splay hangers only where required to miss obstructions; offset resulting horizontal forces by bracing, countersplaying, or other equally effective means.
   3. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with location of hangers at spacings required to support standard suspension system members, install supplemental suspension members and hangers in form of trapezes or equivalent devices. Size supplemental suspension members and hangers to support ceiling loads within performance limits established by referenced standards and publications.
   4. Secure wire hangers to ceiling suspension members and to supports above with a minimum of three tight turns. Connect hangers directly either to structures or to inserts, eye screws, or other devices that are secure and appropriate for substrate and that will not deteriorate or otherwise fail due to age, corrosion, or elevated temperatures.
   5. Do not support ceilings directly from permanent metal forms or floor deck. Fasten hangers to cast-in-place hanger inserts, post-installed mechanical or adhesive anchors, or power-actuated fasteners that extend through forms into concrete.
   6. Do not attach hangers to steel deck tabs.
   7. Do not attach hangers to steel roof deck. Attach hangers to structural members.
      a. Provide alternate framing method if structural members are spaced too far apart.
   8. Space hangers not more than 48 inches o.c. along each member supported directly from hangers, unless otherwise indicated; provide hangers not more than 8 inches from ends of each member.

9. Secure flat, angle, channel, and rod hangers to structure, including intermediate framing members, by attaching to inserts, eye screws, or other devices that are secure and appropriate for both structure to which hangers are attached and type of hanger involved. Install hangers in a manner that will not cause them to deteriorate or fail due to age, corrosion, or elevated temperatures.

C. Install edge moldings and trim of type indicated at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical panels.
   1. Apply acoustical sealant in a continuous ribbon concealed on back of vertical legs of moldings before they are installed.
   2. Screw attach moldings to substrate at intervals not more than 16 inches o.c. and not more than 3 inches from ends, leveling with ceiling suspension system to a tolerance of 1/8 inch in 12 feet. Miter corners accurately and connect securely.
   3. Do not use exposed fasteners, including pop rivets, on moldings and trim.

D. Install suspension system runners so they are square and securely interlocked with one another. Remove and replace dented, bent, or kinked members.

E. Tolerances: Erect ceiling system level within 1/8 inch in 12'-0" in any direction.

3.4 ACOUSTICAL PANEL INSTALLATION

A. Fit acoustic lay-in panels in place, free from damaged edges or other defects detrimental to appearance and function. Lay directional patterned tile one way with pattern parallel to shortest room axis.
   1. Scribe and cut panels at borders and penetrations to provide a neat, precise fit.
   2. Field recess units with tegular or reveal edge at border or ceiling edge.
   3. Paint cut edges of panel remaining exposed after installation; match color of exposed panel surfaces using coating recommended in writing for this purpose by acoustical panel manufacturer.

B. Install lay-in panels level, in uniform plane and free from twist, warp and dents with straight joints, edges in alignment, and edges and corners flush.

3.5 INSTALLED WORK

A. Adjusting: Adjust sags or twists that develop in ceiling systems and replace part which is damaged or faulty.

B. Cleaning: Clean exposed surfaces of acoustical ceilings, including trim, edge moldings, and suspension members; comply with manufacturer's instructions for cleaning and touch-up of minor finish damage.

C. Replace: Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION

This page intentionally left blank.

SECTION 096001
FLOORING TRANSITION STRIPS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Floor transition strips (FTRS).

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Samples for Initial Selection: For each type of transition strip indicated.

C. Product Schedule & Layout: Use same designations indicated on Drawings.

1.3 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
   1. Resilient Transition Strips: Furnish not less than 10 percent of total length installed, for each profile type and color.

1.4 COORDINATION & FIELD CONDITIONS

A. Coordinate installation of floor transitions strips with installation of associated floor finishes. Install flooring after other finishing operations, including painting, have been completed. Close spaces to traffic during installation.

PART 2 - PRODUCTS

2.1 FLOORING TRANSITION STRIPS

A. (FTRS) Flooring Transition Strips: As indicated on Material Identification List.

2.2 INSTALLATION MATERIALS

A. Trowelable Leveling and Patching Compounds: Latex-modified, portland-cement-based or blended hydraulic-cement-based formulation provided or approved by flooring manufacturer for applications indicated.

B. Adhesives: Water-resistant type recommended by product manufacturers to suit flooring and substrate conditions indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
   1. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resilient sheet flooring.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

C. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound; remove bumps and ridges to produce a uniform and smooth substrate.

END OF SECTION

SECTION 096500
RESILIENT FLOORING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Resilient sheet flooring (RF).
   2. Integral wall base (IB).
   3. Resilient wall base (RB).
   4. Resilient flooring accessories.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product indicated.

B. Samples: For each exposed product and for each color and texture specified, not less than 12 inches long.

1.3 INFORMATIONAL SUBMITTALS

A. Slab Moisture Content and Calcium Chloride Test Results.

B. Compatibility Certification: Submit approval documentation by both flooring manufacturer and adhesive manufacturer as compatible with substrate, flooring, project conditions, use, expected traffic, equipment loads and surface conditions including alkalinity, moisture emission levels, slab relative humidity, and other factors that may affect flooring and adhesive performance.

C. Maintenance Instructions: Submit manufacturer's written instructions for recommended maintenance practices for each type of resilient flooring.

D. Product Test Reports: For static-control resilient flooring, for tests performed by a qualified testing agency.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance Materials (Attic Stock): Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
   1. Sheet Floor Covering: Furnish not less than 10 linear ft. for every 500 linear ft., or fraction thereof, in roll form and in full roll width for each color, pattern, and type of sheet floor covering installed.
   2. (RB) Resilient Base: Furnish not less than 5 percent of total linear feet installed.
   3. Other Replacement Materials: Furnish not less than one percent of total project quantity of each type, size and color of material to Owner for replacement materials. Clearly identify each container of replacement materials.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: A qualified installer who employs workers for this Project who are competent in techniques required by manufacturer for floor covering installation.

1.6 FIELD CONDITIONS

A. Deliver resilient flooring materials in manufacturer's protective packaging. Store and handle flooring with care to prevent damage.

B. Maintain ambient temperatures within range recommended by manufacturer, but not less than 70 deg F or more than 95 deg F, in spaces to receive floor coverings during the following time periods:
   1. 72 hours before installation.

2. During installation.
3. 72 hours after installation.

C. Until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer, but not less than 55 deg F or more than 95 deg F.

D. Install floor coverings after other finishing operations, including painting, have been completed.

E. Close spaces to traffic during floor covering installation and for 72 hours after floor covering installation.

F. General Contractor shall be responsible for conducting one calcium chloride test for every 1,000 square feet (minimum of 3 tests) to insure concrete moisture emissions do not exceed 5.0 lbs per 1,000 square feet within a 24-hour period.

PART 2 - PRODUCTS

2.1 RESILIENT PRODUCTS

A. Products, General:
1. Basis of Design: Refer to Material Identification List for product selections and product information such as colors, finishes, and accessories.
2. Single Source: Provide each type of resilient flooring produced by single manufacturer, single run.
3. [Slip Resistance of Flooring Materials: Provide materials with 0.6 coefficient of friction or greater when tested in accordance with ASTM 2047.]

2.2 VINYL FLOORING

A. (RF) Vinyl Sheet Flooring: ASTM F1913 Installed with heat-welded seams, if applicable.
1. Refer to Material ID.

2.3 WALL BASE

A. (RB-1) Rubber Wall Base: ASTM F 1861, Type TS, Group 1, Styles A and B. Provide in 120-feet long rolls. Provide standard top-set cove base, except provide straight base at carpet.
1. Basis of Design: As indicated on Material Identification Codes List.
2. ASTM E 84; Class B rating with smoke density of 150-200.

B. (IB-1) Integral Wall Base: Refer to Material ID.

2.4 ACCESSORIES

A. Heat-Welding Bead: Solid-strand product of linoleum floor covering manufacturer.
1. As selected by Architect from manufacturer's full range.

B. Integral-Flash-Cove-Base Accessories:
1. Cove Strip: 1-inch radius provided or approved by manufacturer.
2. Cove-Base Cap Strip: Square metal, provided or approved by manufacturer.

2.5 INSTALLATION ACCESSORIES

A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement based or blended hydraulic-cement-based formulation provided or approved by manufacturer for applications indicated.

B. Skim Coat: Portland cement-based, trowel-applied skim coat intended for thin application over rough or abrasive surfaces to create a smooth prepared surface to receive resilient flooring.
1. Extent: At stair treads and landings in P1, P2 and P3.
2. Primer: As recommended by and manufactured by concrete topping Manufacturer.

3. Aggregate: Well washed, graded, fine gravel or larger aggregate as recommended by Manufacturer.

C. Adhesives: Water-resistant type recommended by manufacturer to suit resilient products and substrate conditions indicated.

D. Floor Polish: Provide protective liquid floor polish products as recommended by manufacturer.

E. Sealer and Wax: Type recommended by resilient flooring material manufacturer for material type and location.

F. Accessories for Sheet Vinyl Flooring **at Showers**: Provide accessories for seamless installation with integral coved base at showers.
   1. Sloped Mortar Bed: As specified in Section 093000 - Tiling.
   2. Adhesive: Manufacturer's two-part urethane adhesive.
   3. Joint Treatment: As recommended by flooring Manufacturer.
   4. Heat-Welding Bead: Manufacturer's solid-strand product for heat welding seams.
      a. Color: As selected by Architect from manufacturer's full range.
   5. Integral-Flash-Cove-Base Accessories:
      a. Cove Strip: ¾ inch radius provided or approved by resilient sheet flooring manufacturer.
      b. Cap Strip: Square metal strip provided or approved by resilient sheet flooring manufacturer.
      c. Corners: Metal inside and outside corners and end stops provided or approved by resilient sheet flooring manufacturer.
   6. Transition Strips: Manufacturer's Gulley Angle type sheet termination. Color and finish as selected by Architect.
   7. Sealant: As specified in Section 079200 - Joint Protection.

G. Floor Polish: Provide protective, static-control liquid floor polish products recommended in writing by floor-covering manufacturer.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
   1. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of floor tile.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of floor coverings.

B. Concrete Substrates: Prepare according to ASTM F 710.
   1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
   2. Remove substrate coatings and other substances that are incompatible with floor covering adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.
   3. Alkalinity and Adhesion Testing: Perform tests recommended by manufacturer. Proceed with installation only after substrates pass testing.
   4. Moisture Testing: Perform tests recommended by manufacturer and as follows. Proceed with installation only after substrates pass testing.
      a. Perform anhydrous calcium chloride test, ASTM F 1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. (1.36 kg of water/92.9 sq. m) in 24 hours.

b. Perform relative humidity test using in situ probes, ASTM F 2170. Proceed with installation only after substrates have maximum 75 percent relative humidity level measurement.

C. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound and remove bumps and ridges to produce a uniform and smooth substrate.

D. Do not install floor coverings until they are same temperature as space where they are to be installed. Move floor coverings and installation materials into spaces where they will be installed at least 72 hours in advance of installation.

E. Sweep and vacuum clean substrates to be covered by floor coverings immediately before installation.

3.3 INSTALLATION, GENERAL

A. Comply with manufacturer's written instructions for installing floor coverings.

B. Scribe and cut floor coverings to butt neatly and tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings.

C. Extend floor coverings into toe spaces, door reveals, closets, and similar openings.

D. Maintain reference markers, holes, or openings that are in place or marked for future cutting by repeating on floor coverings as marked on subfloor. Use chalk or other nonpermanent marking device.

E. Adhere floor coverings to substrates using a full spread of adhesive applied to substrate to produce a completed installation without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, and other surface imperfections.

3.4 RESILIENT SHEET FLOORING INSTALLATION

A. Comply with manufacturer's written instructions for installing resilient sheet flooring.

B. Unroll resilient sheet flooring and allow it to stabilize before cutting and fitting.

C. Lay out resilient sheet flooring as follows:
   1. Maintain uniformity of flooring direction.
   2. Minimize number of seams; place seams in inconspicuous and low-traffic areas, at least 6 inches away from parallel joints in flooring substrates.
   3. Match edges of flooring for color shading at seams.
   4. Avoid cross seams.

D. Scribe and cut resilient sheet flooring to butt neatly and tightly to vertical surfaces and permanent fixtures including built-in furniture, cabinets, pipes, outlets, and door frames.

E. Extend resilient sheet flooring into toe spaces, door reveals, closets, and similar openings.

F. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on resilient sheet flooring as marked on substrates. Use chalk or other nonpermanent marking device.

G. Adhere resilient sheet flooring to substrates using a full spread of adhesive applied to substrate to produce a completed installation without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, and other surface imperfections.

3.5 INSTALLED WORK

A. Comply with manufacturer's written instructions for cleaning and protection of floor coverings.

B. Perform the following operations immediately after completing floor covering installation:
   1. Remove adhesive and other blemishes from exposed surfaces.
   2. Sweep and vacuum surfaces thoroughly.
   3. Damp-mop surfaces to remove marks and soil.

C. Protect floor coverings from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.

D. Floor Polish: Remove soil, visible adhesive, and surface blemishes from floor coverings before applying liquid floor polish.

END OF SECTION

This page intentionally left blank.

SECTION 099000
PAINTING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Painting and finishing of new and existing materials (P)
   2. Preparation of surfaces for painting and finishing.
   3. Repainting and refinishing of existing surfaces as indicated and as specified in Section 017329 - Cutting and Patching. Preparation of existing surfaces for repainting and refinishing.
   4. Wall-identification signs for fire and smoke assemblies.

1.2 ACTION SUBMITTALS

A. Product Data: For each paint system specified, all coats, including block fillers and primers.
   1. Submit Manufacturer's certifications that products comply with specified requirements and with local regulations for VOC content.

B. Samples: Submit three 4 inch by 6 inch samples of each specified finish to be reviewed for color and sheen. Architect reserves right to select color or finish from any manufacturer, herein specified, as necessary to achieve desired color or finish.

C. Product Schedule: Cross-reference to paint system and locations of application areas. Use same designations indicated on Drawings and in schedules. Include color designations and cross-reference each material by manufacturer’s catalog number and general classification.

1.3 CLOSEOUT SUBMITTALS

A. Maintenance Materials (Attic Stock): Furnish extra paint materials from the same production run as the materials applied and in the quantities described below. Package with protective covering for storage and identify with labels describing contents. Deliver extra materials to Owner.
   1. Quantity: Furnish Owner with extra paint materials in quantities indicated below:
      a. Interior, Paint: **3 gal.** of each color applied.

1.4 QUALITY ASSURANCE

A. Coordination of Work: Review other sections in which primers are provided to ensure compatibility of total systems for various substrates. On request, furnish information on characteristics of finish materials to ensure use of compatible primers.

B. Applicator Qualifications: Engage experienced applicator who has completed painting system applications similar in material and extent to that indicated for this Project with record of successful in-service performance.

C. Mockups: Apply mockups of each paint system indicated and each color and finish selected to verify preliminary selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
   1. Architect will select one surface to represent surfaces and conditions for application of each paint system.
      a. Vertical and Horizontal Surfaces: Provide samples of at least 100 sq. ft. (9 sq. m).
      b. Other Items: Architect will designate items or areas required.
   2. Final approval of color selections will be based on mockups.
      a. If preliminary color selections are not approved, apply additional mockups of additional colors selected by Architect at no added cost to Owner.
   3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.

4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.5 DELIVERY, STORAGE AND HANDLING

A. Deliver paint materials in sealed original labeled containers, bearing manufacturer's name, type of paint, brand name, color designation and instructions for mixing or reducing.

B. Provide adequate storage facilities. Store paint materials at minimum ambient temperature of 45 degrees F in well ventilated area. Restrict storage to paint materials and related equipment.

C. Take precautionary measures to prevent fire hazards and spontaneous combustion. Comply with health and fire regulations.

1.6 PROJECT CONDITIONS

A. Environmental Requirements: Comply with manufacturer's recommendations as to environmental conditions under which painting and finishing can be applied. Do not apply finish in areas where dust is being generated.

B. Measure moisture content of surfaces using electronic moisture meter. Do not apply finishes unless moisture contents of surfaces are below following maximums:

1. Gypsum Wallboard: 12 percent.
2. Masonry, Concrete and Concrete Block: 12 percent.
3. Interior Wood: 15 percent.

C. Ensure surface temperature and surrounding air temperature is above 40 degrees F before applying finishes. Minimum application temperature for latex paints for interior work shall be 45 degrees F and 50 degrees F for exterior work. Minimum application temperature for transparent finish shall be 65 degrees F, or surface and air temperature shall be 5 degrees above dew point.

D. Provide adequate continuous ventilation and sufficient heating facilities to maintain temperatures above 45 degrees F for 24 hours before, during and 48 hours after application of finishes.

E. Provide minimum 25 foot candles of lighting on surfaces to be finished.

PART 2 - PRODUCTS

2.1 PRODUCT REQUIREMENTS

A. Manufacturers:

1. Sherwin-Williams Company
2. Benjamin Moore & Co.
3. ICI Paints
4. Mythic Paint
5. PPG Industries
6. Hirshfield’s Inc.
7. Diamond Vogel Paints.
8. Rust-Oleum.
9. Valspar.

B. Compatibility: Provide block fillers, primers, and finish-coat materials that are compatible with one another and with the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.

C. Single-Source Responsibility: Provide primers and undercoat coating produced by same manufacturer as finish coats. No Exceptions.

D. Material Quality: Provide manufacturer's best-quality paint material of the various coating types specified that are factory formulated and recommended by manufacturer for application indicated. Paint-material containers not displaying manufacturer's product identification will not be acceptable.

E. Painting and Finishing Schedules: Refer to Painting and Finishing Schedules in Part 3 of this Section.

1. Proprietary Names: Use of manufacturer's proprietary product names to designate colors or materials is not intended to imply that products named are required to be used to the exclusion of equivalent products of other manufacturers. Furnish manufacturer's material data and certificates of performance for proposed substitutions.
2. Sheen: When one of following terms is used to denote specific sheen for coating listed, following index shall apply:
   a. Flat: Less than 15 units based on 85 degrees of sheen.
   b. Eggshell: 5 to 20 units based on 60 degrees of sheen.
   c. Satin/Low Lustre: 15 to 35 units based on 60 degrees of sheen.
   d. Semi-gloss: 30 to 65 units based on 60 degrees of sheen.
   e. Gloss: Above 65 units based on 60 degrees of sheen.

F. (P), (EP), (SP) Paint Colors: Provide specified color in paint type as scheduled in this Section
1. Refer to Material Identification List for color selections.
2. Mixing and Tinting: Deliver paints ready-mixed to job site. Job mixing and job tinting is not acceptable.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine surfaces to receive paint and transparent finishes for conditions that would adversely affect execution, permanence or quality of work and which cannot be put into acceptable condition through preparatory work. Do not proceed with surface preparation or coating application until conditions are suitable.

3.2 PREPARATION OF SURFACES

A. Perform preparation and cleaning procedures in accordance with paint manufacturer's instructions and as specified, for each particular substrate condition.
1. Remove mildew, by scrubbing with solution of detergent, bleach and warm water. Rinse with clean water and allow surface to dry completely.
2. Provide barrier coats over incompatible primers or remove and reprime as required. Notify Architect in writing of anticipated problems in using specified coating systems with substrate primed by others.

B. Remove hardware, hardware accessories, plates, lighting fixtures, and similar items in-place and not to be finish painted, or provide surface-applied protection prior to surface preparation and painting operations. Remove, if necessary, for complete painting of items and adjacent surfaces. Following completion of painting of each space or area, reinstall removed items by workmen skilled in trades involved.

C. Clean surfaces to be painted before applying paint or surface treatment. Remove oil and grease with clean cloths and cleaning solvents prior to mechanical cleaning. Program cleaning and painting so that dust and other contaminants from cleaning process will not fall in wet, newly painted surfaces.
1. Remove dirt, grease and oil from canvas and cotton insulated coverings.

D. Cementitious Surfaces: Prepare cementitious surfaces of concrete, concrete block and cement plaster to be painted by removing efflorescence, chalk, dust, dirt, grease, oils, and by roughening as required to remove glaze. Determine alkalinity and moisture content of surfaces to be painted by performing appropriate tests. If surfaces are found to be sufficiently alkaline to cause blistering and burning of finish paint, correct this condition before application of paint.
1. Remove contamination, acid etch and rinse new concrete floors with clear water. Ensure required acid alkali balance is achieved. Allow to thoroughly dry. Repeat procedure if necessary to achieve a medium sandpaper-like profile.
2. Remove dirt, loose mortar, scale, powder and other foreign matter from concrete and concrete block surfaces which are to be painted or to receive clear seal. Remove oil and grease with solution of trisodium phosphate, rinse well and allow to thoroughly dry.

3. Remove stains from concrete and concrete block surfaces caused by weathering of corroding metals with solution of sodium metasilicate after being thoroughly wetted with water. Allow to thoroughly dry.

E. Gypsum Wallboard: Remove contamination from gypsum wallboard surfaces and prime to show defects, if any. Paint after defects have been remedied.

F. Plaster Surfaces: Fill hairline cracks, small holes and imperfections on plaster surfaces with patching plaster. Smooth off to match adjacent surfaces. Wash and neutralize high alkali surfaces where they occur.

G. Galvanized Surfaces: Clean free of oil and surface contaminates with acceptable non-petroleum based solvent.

H. Ferrous Metals: Clean non-galvanized, ferrous surfaces that have not been shop-coated of oil, grease, dirt, loose mill scale and other foreign substances by solvent or mechanical cleaning, complying with Steel Structures Painting Council (SSPC)-SP3.
   1. Touch-up shop-applied prime coats which have damaged or bare areas. Wire-brush, solvent-clean, and touch-up with same primer as shop coat.
   2. Clean unprimed steel surfaces by washing with solvent. Apply treatment of phosphoric acid solution, ensuring weld joints, bolts and nuts are similarly cleaned. Prime surfaces to indicate defects, if any. Paint after defects have been remedied.
   3. Sand and scrape shop primed steel surfaces to remove loose primer and rust. Feather out edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Prime steel including shop primed steels.

I. Wood: Clean wood surfaces to be painted of dirt, oil, or other foreign substances with scrapers, mineral spirits, and sandpaper, as required. Sandpaper smooth those finished surfaces exposed to view, and dust off.
   1. Prime or seal wood required to be job painted immediately upon delivery to job. Prime edges, ends, faces, undersides, and backsides of such wood.
   2. After priming, fill holes and imperfections in finish surfaces with putty or plastic wood-filler. Sandpaper smooth when dried.

J. Existing Surfaces to be Repainted or Refinished: Wash surfaces to remove grease, oil, soil or other matter which will interfere with proper bond of new materials. Scrape and wire brush loose or flaking paint. Fill cracks, voids or other defects.

3.3 MATERIALS PREPARATION

A. Mix and prepare painting materials and transparent finish materials in accordance with manufacturer's directions.

B. Store materials not in actual use in tightly covered containers. Maintain containers used in storage, mixing, and application of paint in clean condition, free of foreign materials and residue.

C. Stir materials before application to produce mixture of uniform density, and as required during application of materials. Do not stir any film that may form on surface into material. Remove film and, if necessary, strain material before using.

3.4 APPLICATION

A. Application Procedures: Apply paints and coatings by brush, roller, spray, or other applicators according to manufacturer's written instructions.
   1. Brushes: Use brushes best suited for type of material applied. Use brush of appropriate size for surface or item being painted.
   2. Rollers: Use rollers of carpet, velvet-back, or high-pile sheep's wool as recommended by manufacturer for material and texture required.
   3. Spray Equipment: Use airless spray equipment with orifice size as recommended by manufacturer for material and texture required.
   4. Apply each coat at proper consistency.

5. Each coat of paint shall be slightly darker than preceding coat unless otherwise approved by Architect.
6. Provide finish coats which are compatible with prime paints used.

B. Do not apply succeeding coats until previous coat has completely dried. Sand between each enamel or varnish coat application with fine sandpaper, or rub surfaces with pumice stone where required to produce even, smooth surface in accordance with coating manufacturer's directions.
   1. Allow each coat of finish to dry before following coat is applied, unless directed otherwise by manufacturer.

C. Apply additional coats when undercoats, stains, or other conditions show through final coat of paint, until paint film is of uniform finish, color and appearance. Give special attention to insure that surfaces, including edges, corners, crevices, welds, and exposed fasteners receive film thickness equivalent to that of flat surfaces.

D. Finish doors on tops, bottoms, and side edges same as exterior faces, unless otherwise indicated.

E. Film Thickness: Apply materials in accordance to paint manufacturer’s recommendations and spreading rates to provide total dry film thickness as recommended.
   1. Apply paint materials no thinner than manufacturer's recommended spreading rate to achieve dry film thickness indicated
   2. Use precision instruments designed for measuring and evaluation wet and dry films of paints and coatings.
   3. Results measuring less than recommended thickness will require additional material application.
   4. Use of poor hiding colors may require application of additional coats in order to achieve proper coverage and hiding.

F. Apply first-coat material to surfaces that have been cleaned, pre-treated or otherwise prepared for painting as soon as practicable after preparation and before subsequent surface deterioration.

G. Allow sufficient time between successive coatings to permit proper drying. Do not recoat until paint has dried to where it feels firm, does not deform or feel sticky under moderate thumb pressure, and application of another coat of paint does not cause lifting or loss of adhesion of undercoat.

H. Prime Coats: Recoat primed and sealed walls and ceilings where there is evidence of suction spots or unsealed areas in first coat, to assure finish coat with no burn-through or other defects due to insufficient sealing.

I. Transparent Finish: On exposed portions, use multiple coats to produce glass-smooth surface film continuity of even luster. Provide finish free of laps, cloudiness, color irregularity, runs, brush marks, orange peel, nail holes, or other surface imperfections. Provide satin finish for final coats, unless otherwise indicated.

J. Painting and Repainting of Existing Surfaces: Where repainting of existing surfaces is required, repaint wall and ceiling surfaces in their entirety, patch or spot painting is not acceptable.

K. Paint surfaces behind movable equipment or furniture same as similar exposed surfaces. Paint surfaces behind permanently-fixed equipment or furniture with prime coat only.

L. Completed Work: Match approved samples for color, texture, and coverage. Remove, refinish, or repaint work not complying with requirements.

3.5 MECHANICAL AND ELECTRICAL EQUIPMENT

A. Refer to mechanical and electrical documents with respect to field painting and finishing requirements. Painting of mechanical and electrical work is not required in pipe chases, tunnels, and mechanical rooms with unpainted walls.

B. Remove grilles, covers and access panels for mechanical and electrical systems from location and paint separately.

C. Finish paint primed equipment to color selected.

D. Prime and paint insulated and bare pipes, conduits, boxes, insulated and bare ducts, hangers, brackets, collars and supports, except where items are plated or covered with prefinished coating, or where they are not in finished space or room.

E. Paint interior surfaces of air ducts, convector and baseboard heating cabinets that are visible through grilles and louvers before installation of equipment with 1 coat of flat black paint, to limit of sight line. Paint dampers exposed immediately behind louvers, grilles, convector and baseboard cabinets to match face panels.

F. Paint exposed piping, insulated piping and conduit occurring in finished areas. Color and texture to match adjacent surfaces.

G. Paint both sides and edges of plywood backboards for electrical equipment before installing backboards and mounting equipment on them.

3.6 CLEANING

A. As work proceeds and upon completion, promptly remove paint where spilled, splashed or spattered. Touch up and restore damaged or defaced painted areas.

B. During progress of work keep premises free from unnecessary accumulation of tools, equipment, surplus materials and debris. Remove at end of each workday.

C. Upon completion of work clean window glass and other paint-spattered surfaces and leave premises neat and clean, to satisfaction of Architect.

3.7 PROTECTION

A. Adequately cover or otherwise protect finished work of other trades and other surfaces from paint and damage. Repair damage as result of inadequate or unsuitable protection as acceptable to Architect.

1. Furnish sufficient drop cloths, shields and protective equipment to prevent spray or droppings from fouling surfaces not being painted and in particular, surfaces within storage and preparation area.

B. Place cotton waste, cloths and material which may constitute fire hazard in closed metal containers and remove daily from site.

C. Remove electrical plates, surface hardware, fittings and fastenings, prior to painting operations. These items shall be carefully stored, cleaned and replaced on completion of work in each area. Do not use solvent to clean hardware that may remove permanent lacquer finish.

D. Provide "Wet Paint" signs as required to protect newly painted finishes. Remove temporary protective wrappings provided by others for protection of their work after completion of painting operations.

3.8 INTERIOR PAINTING AND FINISHING SCHEDULE

A. Interior Ferrous and Non-Ferrous Metal Surfaces:

1. Surfaces Included:
   a. Prime painted hardware.
   b. Fire extinguisher cabinet trim.
   c. Radiator, convector and other heating unit covers.
   d. Uninsulated piping and ductwork.
   e. Metal access panels.
   f. Metal louvers and grilles.
   g. Electric panels (over factory finish).
   h. Metal supports for counters, benches and shelves.
   i. Exposed and miscellaneous metals.
   j. Other exposed to view interior ferrous metals not factory finished.
2. Waterborne Low VOC, Low-Odor System: Zero-VOC, Low-Odor Acrylic over Waterborne Metal Primer:
   a. VOC Content:<50g/L

b. Primer: Acrylic Concrete & Masonry Primer
   1) 1 coat S-W Pro Industrial Pro-Cryl Universal Acrylic Primer, B66-1300 Series
c. Finish: Water-based, 100 percent acrylic.
   1) 2 coats S-W Pro Industrial Acrylic Matte, B66-670 Series
   2) 2 coats S-W Pro Industrial Acrylic Eg-Shel, B66-1661 Series
   3) 2 coats S-W Pro Industrial Acrylic Semi-Gloss, B66-650 Series.
   4) 2 coats S-W Pro Industrial Acrylic Gloss, B66-600 Series.

B. Interior Ferrous and Non-Ferrous Metal Enamel:
1. Surfaces Include:
   a. Metal handrails, guardrails, ladders, stairs.
   b. Hollow metal doors and frames.
2. Water-Based Alkyd Urethane Enamel System:
   a. VOC Content:<50g/L
   b. Primer: Acrylic metal primer.
      1) 1 coat S-W Pro Industrial Pro-Cryl Universal Acrylic Metal Primer, B66-1300 Series.
   c. Finish: Acrylic gloss enamel.
      1) 2 coats S-W Pro Industrial Waterbased Alkyd Urethane Enamel Low Sheen (Eg-Shel), B53-2250 Series .
      2) 2 coats S-W Pro Industrial Waterbased Alkyd Urethane Enamel Semi-Gloss, B53-1150/2150 Series
      3) 2 coats S-W Pro Industrial Waterbased Alkyd Urethane Enamel Gloss, B53-2050 Series

C. Interior Galvanized Metal Enamel:
1. Surfaces Include:
   a. Galvanized.
   b. Hollow metal doors and frames.
2. Water-Based Alkyd Urethane Enamel System:
   a. VOC Content:<50g/L
   b. Primer: .
      1) 1 coat S-W Pro Industrial Pro-Cryl Universal Acrylic Metal Primer, B66-1300 Series.
   c. Finish: Acrylic gloss enamel.
      1) 2 coats S-W Pro Industrial Waterbased Alkyd Urethane Enamel Low Sheen (Eg-Shel), B53-2250 Series .
      2) 2 coats S-W Pro Industrial Waterbased Alkyd Urethane Enamel Semi-Gloss, B53-1150/2150 Series
      3) 2 coats S-W Pro Industrial Waterbased Alkyd Urethane Enamel Gloss, B53-2050 Series

D. Interior Ferrous Aluminum & Stainless-Steel Metal:
1. Surfaces Include:
   a. Stainless steel & aluminum.
   b. Hollow metal doors and frames.
2. Water-Based Alkyd Urethane Enamel System:
   a. VOC Content:<100g/L
   b. Primer:
      1) 1 coat S-W DTM Wash Primer, B71Y00001
   c. Finish: Water-Based Alkyd Urethane Enamel.
      1) 2 coats S-W Pro Industrial Waterbased Alkyd Urethane Enamel Low Sheen (Eg-Shel), B53-2250 Series .
      2) 2 coats S-W Pro Industrial Waterbased Alkyd Urethane Enamel Semi-Gloss, B53-1150/2150 Series
      3) 2 coats S-W Pro Industrial Waterbased Alkyd Urethane Enamel Gloss, B53-2050 Series

E. Gypsum Wallboard, Gypsum Plaster and Gypsum Veneer Plaster Surfaces:
1. Surfaces Included:
   a. Gypsum wallboard, including over skim coat of joint compound.
   b. Apply additional coat of primer under deep tone finish paint.
   c. Veneer plaster.
2. Sheens, General: Unless noted otherwise on Room Finish Schedule.

a. Walls: Eggshell
b. Ceilings and Soffits: Flat
c. Walls where indicated on Room Finish Schedule: Semi-gloss.

3. Waterborne Zero-VOC, Low-Odor System: Zero-VOC, Low-Odor Acrylic Finish over Zero-VOC, Low-Odor Acrylic Primer - not more than 50 grams VOCs per liter, not less than 35 percent solids, ammonia free coating.
4. Acrylic with Air Purify or Sanitizing Technology System:
   a. VOC Content: <50g/L
   b. Primer:
      1) S-W ProMar 200 Zero VOC Interior Latex Primer, B28W2600
   c. Finish: Water-based, premium quality acrylic latex with Air Purifying Technology,
      1) 2 coats S-W SuperPaint Air Purify Interior Latex Flat, A86-60 Series.
      2) 2 coats S-W SuperPaint Air Purify Interior Latex Satin, A87-60 Series.
      3) 2 coats S-W SuperPaint Air Purify Interior Latex Semi-Gloss, A88-60 Series.
      4) 2 coats S-W SuperPaint Interior Latex Satin with Sanitizing Technology
5. Zero VOC Vinyl Acrylic System:
   a. VOC Content: 0g/L
   b. Primer: Water-based vinyl acrylic primer and sealer.
      1) S-W ProMar 200 Zero VOC Interior Latex Primer, B28W2600
   c. Finish: Water-based acrylic, not less than 35 percent solids, ammonia free.
      1) 2 coats S-W ProMar 200 Zero VOC Interior Latex Flat, B30-2600 Series.
      2) 2 coats S-W ProMar 200 Zero VOC Interior Latex Eg-Shel, B20-2600 Series.
      3) 2 coats S-W ProMar 200 Zero VOC Interior Latex Semi-Gloss, B31-2600 Series.
6. Water Based Polyamine Epoxy System:
   a. VOC Content: <50g/L
   b. Primer:
      1) 1 coat S-W ProMar 200 Zero VOC Interior Latex Primer, B28W2600
      2) 2 coats S-W Pro Industrial Water Based Epoxy Eg-Shel, B73-300 Series.
      3) 2 coats S-W Pro Industrial Water Based Epoxy Gloss, B73-300 Series.
7. Metallic or Pearlescent Low VOC Acrylic w Water-Based Polyurethane Finish.
   a. VOC Content: <50g/L Acrylic, <100g/L Polyurethane
   b. Primer:
      1) 1 coat S-W ProMar 200 Zero VOC Interior Latex Primer, B28W2600
   c. Finish
      1) 2 coats S-W supplier Crescent Bronze Acrylic Metallic 10503 Series
         (a) Color selection per finish schedule
   d. High Performance Water-based Polyurethane *Optional for increased durability
      1) 1 coat S-W Pro Industrial Acrolon 100 Polyurethane Gloss, B65 Series.

F. Non-Metal Ceilings and Soffits:
1. Surfaces Included:
   a. Gypsum board assemblies.
   b. Plaster assemblies.
   c. Spray fireproofing (SFRM)
2. Dry Fall Spray-Applied Waterborne System: Waterborne Multi-Surface Acrylic with Dryfall attributes over Waterborne Bonding Primer.
   a. Primer (touch up if pre-primed): 1 coat S-W Extreme Bond Primer B51W01150 or S-W Multi-Purpose Interior-Exterior Latex Primer-Sealer, B51-450 Series.
   b. Finish:
      1) 1-2 coats S-W Pro Industrial Multi-Surface Acrylic Matte, B66W01570 Series
      2) 1-2 coats S-W Pro Industrial Multi-Surface Acrylic Eg-Shel, B66W01560 Series
      3) 1-2 coats S-W Pro Industrial Multi-Surface Acrylic Semi-Gloss, B66W01550 Series
      4) 1-2 coats S-W Pro Industrial Multi-Surface Acrylic Gloss, B66W01500 Series

3.9 SPECIAL SURFACES

A. Insulation-Wrapped Piping and Equipment:
1. Surfaces Included: Piping, ducts, tanks, and equipment.

2. Waterborne System: Premium Quality Acrylic Latex finish over -Acrylic Primer.
    a. Primer: 1 coat S-W Moisture Vapor Barrier Primer, B72W1.
    b. Finish: 2 coats S-W ProMar 200 Zero-VOC Interior Latex Eg-Shel, B20-2600 Series.

B. Black Enamel Finish:
1. Surfaces Included: Duct throats for visible distance but not less than approximately 24 inches behind supply or return air grilles, registers, louvers.
    a. Wood blocking exposed at reveals.
2. Water-Based Systems, Low-VOC: Acrylic Latex Finish.
    a. Finish: 1 coat S-W ProMar 400 Latex Flat Black, B30W400 Series.

C. Plastic and Fiberglass Fabrication Substrates: Insulation-wrapped piping, and miscellaneous plastics.
1. (PT) Latex System:
    a. Prime Coat: Primer, bonding, water-based.
        1) Valspar, Interior/Exterior Bonding Primer, 11289 Series.
    b. Intermediate Coat: Latex, exterior, matching topcoat.
    c. Topcoat: Latex, exterior, flat.
        1) Valspar, Perennial 100% Acrylic Latex House Paint.
        2) Valspar, Emblem Exterior Flat.
        3) Valspar, Professional Exterior Latex Flat House Paint.

3.10 REPAINTING OF EXISTING SURFACES

A. Existing Surfaces:
1. Surfaces Included:
    a. Existing surfaces where indicated to be repainted.
    b. Existing metal lockers (casework) (metal toilet compartments) where indicated to be repainted.
2. Low-VOC Latex System:
    a. Primer/Finish: 2 coats paint similar to type listed above.
3. Electrostatic System:
    a. Primer/Finish: 2 coats electrostatic paint finish.

3.11 SMOKE AND FIRE PARTITIONS

A. Stenciling: Fire walls, fire barriers, fire partitions, smoke barriers and smoke partitions to be stenciled with the appropriate Hour-rating/Minute rating, i.e., "SMOKE and/or FIRE (1 HR /2 HR) – Protect All Openings," etc. as indicated on the Life Safety Plan, above ceilings on both sides of walls in letters not less than 3 inches high and 3/8 inch wide stroke. Refer to IBC Article 703 for additional information.
1. Stenciling shall be located above every door and no more than fifteen feet on center.
2. Stencil every change in direction of rated walls.
3. Indicate the end of a rated wall with a 2-inch vertical red line with an arrow pointing to the direction of the rated wall.

B. Latex Primer/Finish System: Provide red semi-gloss paint. S-W 0 VOC Acrylic Semi-Gloss, B66-650 Series.

C. Stenciling: Smoke and Fire partitions shall be stenciled with the appropriate Hour-rating/Minute rating, i.e., "SMOKE and/or FIRE (1 HR /2 HR)," etc., above ceilings on both sides of walls in letters not less than 2-1/2 inches high.
1. Stenciling shall be located above every door and no more than ten feet on center.
2. Stencil every change in direction of rated walls.
3. Indicate the end of a rated wall with a 2-inch vertical red line with an arrow pointing to the direction of the rated wall.

D. Latex System:
1. Primer/Finish: Provide red semi-gloss paint. S-W 0 VOC Acrylic Semi-Gloss, B66-650 Series.

3.12 MARKING FIRE AND SMOKE ASSEMBLIES

A. Wall-Identification Sign: Sign applied directly on indicated substrate to identify fire and smoke assemblies, including preparatory treatment as required.

1. Sign Material: Stenciled-on [**alkyd**] [**latex**] [**or**] [**VOC-compliant spray-applied**] paint or preprinted, self-adhesive decals.
2. Font: Minimum **3 inches** high characters in a contrasting color, with minimum **0.375-inch**wide strokes.
3. Text:
   a. "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS."
   b. "1-HOUR FIRE BARRIER - PROTECT ALL OPENINGS."
   c. "2-HOUR FIRE BARRIER - PROTECT ALL OPENINGS."
   d. "SMOKE BARRIER - PROTECT ALL OPENINGS."

B. Wall-Identification Signs: Permanently identify both sides of each fire and smoke assembly indicated on Drawings. Place signs in accessible, concealed floor, floor-ceiling, or attic space at maximum **15 feet** from end of wall and at maximum intervals of **30 feet**, measured horizontally along the assembly. Locate signs for greatest visibility in the space.

END OF SECTION

SECTION 102123
HOSPITAL TRACKS & CUBICLE CURTAINS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Fabric curtains and mesh cloth (CC-1).
   2. Curtain tracks and carriers.

B. Related Sections:
   1. Section 055000 - Metal Fabrications: Above ceiling supports for track.
   2. Section 095100 - Acoustical Ceilings.

1.2 ACTION SUBMITTALS

A. Product Data: For each product specified.

B. Shop Drawings:
   1. Show layout and types of cubicles, sizes of curtains, number of carriers, anchorage details, and conditions requiring accessories. Indicate dimensions taken from field measurements.
   2. Include details on blocking.

C. Samples: For each exposed product and for each color and texture specified, 12 inches in size.
   1. Track: Submit 12 inch length of curtain track including wall and ceiling hanger and escutcheon.
   2. Curtain: Submit 12 inch by 12 inch sample patch of curtain cloth with representative hem stitch detail, heading with reinforcement, carrier attachment to curtain header.

1.3 CLOSEOUT SUBMITTAL

A. Operation and Maintenance Data: For curtains, track, and hardware to include in operation and maintenance manuals.

B. Maintenance Materials (Attic Stock): Furnish extra materials described below, before installation begins, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
   1. Curtain Carriers and Track End Caps: Full-size units equal to [**3**] percent of amount installed[**for each size indicated**], but no fewer than [**10**] units.
   2. Curtains: Full-size units equal to [**10**] percent of amount installed[**for each size indicated**], but no fewer than [**two**] units.

1.4 QUALITY ASSURANCE

A. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects[**and set quality standards for materials and execution**].
   1. Build mockup of typical cubicle, complete with track, curtain[**, and IV hanger**], as shown on Drawings.
   2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
   3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

PART 2 - PRODUCTS

2.1 HOSPITAL TRACKS (CC-1)

A. Manufacturers:

1. Refer to Material Identification Code.

2.2 CUBICAL CURTAINS (CC-1)

A. Curtains: Provide curtain fabrics with the following characteristics: Refer to Material ID.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Install curtain track secure and rigid, true to ceiling line. Provide track to support vertical test load of 50 lbs without visible deflection of track or damage to supports. Do not suspend track from suspended ceiling system.

B. Install curtains on carriers ensuring smooth operation.

3.3 INSTALLATION

A. General: Install tracks level and plumb, according to manufacturer's written instructions.

B. Up to 20 feet in length, provide track fabricated from single, continuous length.
   1. Curtain Track Mounting: As indicated on Drawings.

C. Surface-Track Mounting: Fasten tracks to ceilings at intervals recommended by manufacturer. Fasten tracks to structure at each splice and tangent point of each corner. Center fasteners in track to ensure unencumbered carrier operation. Attach track to ceiling as follows:
   1. Mechanically fasten directly to bottom of concrete deck with post-installed anchors.
   2. Mechanically fasten directly to finished ceiling with toggle bolts.
   3. Mechanically fasten to furring through suspended ceiling with screw and tube spacer.
   4. Mechanically fasten to suspended ceiling grid with screws.
   5. Attach track to suspended ceiling grid with manufacturer's proprietary clip.

D. Suspended-Track Mounting: Install track with manufacturer's standard tubular aluminum suspended supports at intervals and with fasteners recommended by manufacturer. Fasten supports to structure. Provide supports at each splice and tangent point of each corner. Secure ends of track to wall with flanged fittings or brackets.

E. Track Accessories: Install splices, end caps, connectors, end stops, coupling and joining sleeves, and other accessories as required for a secure and operational installation.

F. Curtain Carriers: Provide curtain carriers adequate for 6-inch spacing along full length of curtain plus an additional carrier.

G. Curtains: Hang curtains on each curtain track. Secure with curtain tieback.

END OF SECTION

SECTION 102600
WALL & DOOR PROTECTION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Wall corner guards (CG).
   2. Wall guards (WGS) and (WP).
   3. Wall rails (HR).

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product. Include construction details, material descriptions, impact strength, dimensions of individual components and profiles, and finishes.

B. Shop Drawings: For each type of wall and door protection showing locations and extent.

C. Samples: For each type of impact-resistant wall-protection unit indicated, in each color and texture specified. Include Samples of accent strips and accessories to verify color selection.

1.3 DELIVERY, STORAGE AND HANDLING

A. Deliver wall and corner guards in manufacturer's protective covering. Handle finished surfaces with care to prevent damage.

PART 2 - PRODUCTS

2.1 PETG PRODUCTS

A. Manufacturers Products:
   1. InPro Corporation.
   2. Tepromark International Inc..
   3. Construction Specialties (C/S Group).
   4. Pawling Corporation, Standard Products Division.
   5. Korogard Wall Protection Systems.
   6. Institutional Products Corporation, IPC.
   7. ConWall, Division of Iowa Paint Manufacturing.

B. PETG Material: PVC-free thermoplastic polyester, Textured, chemical and stain resistant, high-impact, thickness as indicated.
   1. Fire performance characteristics when tested in accordance with ASTM E84 for Class A/1 characteristics listed below:
      a. Flame spread: 25 or less.
      b. Smoke development: 450 or less.

C. (WP), (WGS), and (WPG) Wall Guard: Refer to Material Identification List.
   1. Size: As indicated on Drawings.

D. (CG-1/-2) Wall Corner Guard: Surface mounted guards consisting of a continuous retainer with snap-on 0.078 inch thick PETG cover and color matched end caps.
   1. Refer to Material Identification List for colors and other information.

E. (HR-1) Wall Rail: Surface, bumper, or extended mounted assembly
   1. Refer to Material ID.

F. PETG Product Accessories
   1. Attachment Hardware: As recommended by manufacturer for wall construction type.

2. Aluminum Retainers: Extruded 6063-T6 alloy aluminum retainers. Minimum strength and durability properties complying with ASTM B221.
3. Trim and Accessories: Edge and corner trim as required for a complete finished installation as approved by Architect.

2.2 INSTALLATION ACCESSORIES

A. Fasteners: Non-corrosive and compatible with aluminum retainers, supplied by wall protection manufacturer.

B. Adhesives: As recommended by signage manufacturer for use with material being adhered to substrate indicated and as follows:
   1. Adhesive and Sealant VOC Limits: In accordance with South Coast Air Quality Management District Rule 1168 and GS-36 for aerosols.
   2. VOC Limits: As tested using U.S. EPA Reference Test Method 24 and as defined by South Coast Air Quality Management District Rules SCAQMD Rule 1168, Adhesive and Sealant Applications.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Examination: Examine areas and conditions in which wall surface protection components and wall protection systems will be installed. Do not proceed with installations until unsatisfactory conditions have been corrected.

B. Installation: Install wall protection and corner guards and accessories in accordance with reviewed shop drawings and manufacturer's printed instructions. Install true, plumb and level, securely and rigidly anchored to substrate.

C. Cleaning: Clean metal components in accordance with manufacturer's recommendations. Remove excess adhesive using methods and materials recommended by manufacturer.

END OF SECTION

SECTION 102813
TOILET & BUILDING ACCESSORIES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Washroom accessories.
   2. Shower accessories.
   3. Healthcare accessories.
   4. Installation of Owner-furnished accessories (OFCI).

B. Section Includes:
   1. Coat Hooks (CH).
   2. Washroom Accessories:
      a. Grab Bars (GB)
      b. Mirrors (MIR).
      c. Paper Towel Cabinets (PTD).
      d. Soap Dispenser (SDISP).
      e. Toilet Paper Holder (TPH).
      f. Utility Shelf (US).
   3. Shower Accessories:
      a. Shower Curtain (SC).
      b. Shower Curtain Rod (SHCR).
      c. Shower Seat (SHFS).
      d. Shower Pan (SHPN).
      e. Towel Bar (TB).

   4. Installation of Owner-furnished accessories (OFCI).

1.2 COORDINATION

A. Coordinate accessory locations with other work to prevent interference with clearances required for access by people with disabilities, and for proper installation, adjustment, operation, cleaning, and servicing of accessories.

B. Deliver inserts and anchoring devices set into concrete or masonry as required to prevent delaying the Work.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product indicated.

B. Samples:
   1. Finish Samples: Submit samples of each exposed finish type.
   2. Unit Samples: Full size, for each accessory item to verify design, operation, and finish requirements. Approved full-size Samples will be returned and may be used in the Work.

1.4 INFORMATIONAL SUBMITTALS

A. Product Schedule: Indicating types, quantities, sizes, and installation locations by room of each accessory required.
   1. Identify locations using room designations indicated.
   2. Identify products using designations indicated.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: For toilet and bath accessories to include in maintenance manuals.

1.6 DELIVERY, STORAGE AND HANDLING

A. Do not deliver accessories to site until rooms in which they are to be installed are ready to receive them.

B. Pack accessories individually in manner to protect accessory and its finish.

1.7 WARRANTY

A. General Warranty: Special warranty specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

B. Special Mirror Warranty: Manufacturer's standard form in which manufacturer agrees to replace mirrors that develop visible silver spoilage defects and that fail in materials or workmanship within specified warranty period.

1. Warranty Period: 15 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PRODUCT REQUIREMENTS

A. Product Options: Accessory requirements, including those for materials, finishes, dimensions, capacities, and performance, are established by specified Basis of Design products.

1. Products of other manufacturers listed in Part 2 with equal characteristics, as judged solely by Architect, may be provided.
2. Do not modify aesthetic effects, as judged solely by Architect, except with Architect's approval. Where modifications are proposed, submit comprehensive explanatory data to Architect for review.

B. Names and labels are not permitted on exposed faces of accessories. On interior surface not exposed to view or on back surface of each accessory, provide printed, waterproof label or stamped nameplate indicating manufacturer's name and product model number.

C. Source Limitations: For products listed together in the same Part 2 articles, obtain products from single source from single manufacturer.

D. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

E. Products and Manufacturers: Subject to compliance with specified requirements, provide Basis of Design products as indicated in Product Schedule, or approved equivalent products by one of the following manufacturers:

1. Washroom Equipment:
   a. Bobrick Washroom Equipment Inc.
   b. American Specialties Inc.
   c. Bradley Corporation
   d. GAMCO
   e. Tork

2.2 SCHEDULE OF CUSTODIAL AND TOILET ACCESSORIES

A. Schedule: Subject to compliance with specified requirements, provide Basis of Design products as indicated on Material Identification List or equivalent products, as approved by Architect.

1. CH COAT HOOK
2. GB GRAB BARS
3. MIR MIRROR (Framed)
4. PTD PAPER TOWEL CABINETS
5. SDISP SOAP DISPENSER
6. SHCR SHOWER CURTAIN ROD, RINGS AND CURTAIN

7. SHFS SHOWER SEAT
8. SHPN SHOWER PAN
9. TB TOWEL BAR
10. TPH TOILET PAPER HOLDER
11. US UTILITY SHELF

2.3 GENERAL ACCESSORIES

A. Coat Hooks:
   1. (CH-2) Double Hook: Stainless steel, satin finish.
      a. Refer to Material ID.

2.4 WASHROOM ACCESSORIES

A. (GB) Grab Bars: In accordance with requirements of 2019 California Building Code (CBC), capable of withstanding load of 250 lbf applied in any direction and at any point on the grab bar, fastener, mounting device or supporting device; in accordance with ASTM F 446.
   1. Basis of Design:
      a. Bobrick B-6806 Series.
      b. Bradley 812 Series
   2. Material and Finish: Type 304 stainless steel pipe, 18 ga., 1-1/2” outer diameter, with satin finish on ends and slip-resistant texture in grip area.
   3. Mounting: Flanges with concealed fasteners and gasketed stainless steel escutcheon.
   4. Configurations: As indicated on Drawings. Refer to grab bar schedule in Drawings.

B. Mirrors:
   1. (MIR-1/-2) Framed Mirror No Shelf:
      a. Bobrick B-290 Series.
      b. Bradley 780 Series.
      c. Sizes: Refer to Material ID.

C. Automatic Paper Towel Dispenser Cabinets:
   1. (PTD-1) Paper Towel Cabinet: Touchless auto dispenser;
      a. Basis of Design: Refer to Material ID.

D. Soap Dispensers:
   1. (SDISP-1) Soap Dispensers: Refer to Material ID.

E. Toilet Paper Holders:
   1. (TPH-5) Toilet Tissue (Roll) Dispenser: Refer to Material ID.

F. Utility Shelves:
   1. (US-1) Stainless Steel Shelf: surface-mounted.
      a. Bobrick B-298. 8” deep x 18” long.
      b. Bradley 758-036.

G. Waste Receptacles:
   1. (WAST-1) Waste Receptacles: recessed with 4 inch projection
      a. Bobrick B-3644.

2.5 SHOWER ACCESSORIES

A. [Refer to the Material Identification List for products.]

B. Shower Curtains and Hooks:
   1. (SC-1) Shower Curtain: Refer to Material ID.

C. Shower Curtain Rod:
   1. (SHCR-1) Shower Curtain Rod:
      a. Basis of Design: Bobrick B-6047 (Extra Heavy Duty).

b. Description: 1-inch OD; fabricated from nominal 1.0 mm thick stainless steel.
c. Mounting Flanges: Stainless-steel flanges designed for exposed fasteners.
d. Finish: No. 4 (satin).

D. Shower Folding Seats:
1. (SHFS-1) Folding Shower Seat: Refer to Material ID.

E. Shower Pan: Refer to Material ID for size and criteria.
1. Model P26331A, V2, by Best Bath Systems, Inc.

F. Towel Bars:
1. (TB-2) Towel Bars: heavy duty type.
a. Bobrick 6806 x 18" long.

2.6 HEALTHCARE ACCESSORIES

A. Hand Sanitizer Dispenser:
1. (HSD-1).
a. Owner-Furnished, Contractor-Installed (OFCI).

B. Healthcare Waste Receptacles:
1. (HCWR-2): Surface-mounted, plastic.
a. Owner-Furnished, Owner-Installed (OFOI).

C. Glove Dispensers.
1. (GDISP-1) Surface-mounted stainless steel
a. Owner-Furnished, Contractor-Installed (OFCI).

2.7 MATERIALS

A. Stainless Steel: ASTM A 666, Type 304, with No. 4 finish (satin), in 0.0312-inch minimum nominal thickness, unless otherwise indicated..

B. Steel Sheet: ASTM A 1008, Designation CS (cold rolled, commercial steel), 0.036-inch minimum nominal thickness.

C. Steel Sheet: ASTM A 366, cold rolled, commercial quality, 0.0359-inch minimum nominal thickness; surface preparation and metal pretreatment as required for applied finish.

D. Galvanized Steel Sheet: ASTM A 653, G60.

E. Chrome Plating: ASTM B 456, Service Condition Number SC 2 (moderate service).

F. ABS Plastic: Acrylonitrile-butadiene-styrene resin formulation.

G. Mirror Glass: ASTM C 1036, Type I, Class 1, Quality q2, nominal 6.0 mm thick, with silvering, electroplated copper coating, and protective organic coating complying with FS DD-M-411.
1. Mirrors: ASTM C 1503, Mirror Glazing Quality, clear-glass mirrors, nominal 6.0 mm thick.

H. Fasteners and Mounting Devices: Provide concealed fasteners where possible.
1. Where fasteners remain exposed to view, provide tamper-resistant and theft-resistant fasteners, of material and finish to match accessory unit.
2. Screws, bolts, and other devices of same material as unit and tamper-and-theft resistant where exposed, and of galvanized steel where concealed.
3. Galvanized Steel Mounting Devices: ASTM A 153, hot-dip galvanized after fabrication

I. Fasteners, Screws, and Bolts: Hot dip galvanized.

J. Expansion Shields: Fiber, lead or rubber as recommended by accessory manufacturer for component and substrate. Provide exposed fasteners with finish to match accessories.

K. Adhesive: Epoxy type contact cement

2.8 FABRICATION

A. General:
   1. Fabricate units with tight seams and joints, and exposed edges rolled. Hang doors and access panels with full-length, continuous hinges. Equip units for concealed anchorage and with corrosion-resistant backing plates.
   2. Shop assemble components and package complete with anchors and fittings.
   3. Keys: Provide universal keys for internal access to accessories for servicing and resupplying.

B. General: Names or labels are not permitted on exposed faces of accessories. On interior surface not exposed to view or on back surface of each accessory, provide printed, waterproof label or stamped nameplate indicating manufacturer's name and product model number.

C. Surface-Mounted Toilet Accessories: Unless otherwise indicated, fabricate units with tight seams and joints, and exposed edges rolled. Hang doors and access panels with continuous stainless-steel hinge. Provide concealed anchorage where possible.

D. Recessed Toilet Accessories: Unless otherwise indicated, fabricate units of all-welded construction, without mitered corners. Hang doors and access panels with full-length, stainless-steel hinge. Provide anchorage that is fully concealed when unit is closed.

E. Framed Glass-Mirror Units: Fabricate frames for glass-mirror units to accommodate glass edge protection material. Provide mirror backing and support system that permits rigid, tamper-resistant glass installation and prevents moisture accumulation.

F. Provide galvanized steel backing sheet, not less than 0.034 inch and full mirror size, with non-absorptive filler material. Corrugated cardboard is not an acceptable filler material.

G. Mirror-Unit Hangers: Provide mirror-unit mounting system that permits rigid, tamper- and theft-resistant installation, as follows:
   1. One-piece, galvanized steel, wall-hanger device with spring-action locking mechanism to hold mirror unit in position with no exposed screws or bolts.
   2. Heavy-duty wall brackets of galvanized steel, equipped with concealed locking devices requiring a special tool to remove.

H. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of six keys to Owner's representative.

PART 3 - EXECUTION

3.1 PREPARATION

A. Deliver inserts and rough-in frames to jobsite at appropriate time for building-in. Provide templates and rough-in measurements as required.

B. Before starting work notify Architect in writing of conflicts detrimental to installation or operation of units.

C. Verify exact location of accessories with Architect. Verify blocking is in place prior to gypsum board installation.

D. Accessory Locations: Coordinate accessory locations with other work to avoid interference and to assure proper operation and servicing of accessory units.

3.2 INSTALLATION

A. Install fixtures, accessories and items in accordance with manufacturer's printed instructions.

B. Install true, plumb and level, securely and rigidly anchored to substrate and sealed to protect structural elements of wall from moisture.

C. Use tamper proof (security) type fasteners.

3.3 INSTALLED WORK

A. Adjust toilet accessories for proper operation and verify that mechanisms function smoothly. Replace damaged or defective items.

B. Clean and polish exposed surfaces in accordance with manufacturer's recommendations after removing labels and protective coatings.

END OF SECTION

SECTION 105113
METAL LOCKERS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Welded metal locker units with hinged doors (LKR-1).
   2. Base, top and filler panels.
   3. Hooks, latches, and hardware.
   4. Attachment hardware.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of metal locker.
   1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of metal locker and bench.

B. Shop Drawings: For metal lockers.
   1. Include plans, elevations, sections, details, and attachments to other work.
   2. Show locker trim and accessories.
   3. Include locker identification system and numbering sequence.

C. Samples: For each exposed finish type..

1.3 QUALITY ASSURANCE

A. Installer Qualifications: Engage experienced Installer who is authorized representative of metal locker manufacturer for installation of type of lockers required for this Project.

1.4 DELIVERY, STORAGE AND HANDLING

A. Do not deliver lockers until spaces to receive them are clean, dry and ready for locker installation.

B. Protect lockers from damage during delivery, handling, storage, and installation.

C. Deliver master keys, control keys, and combination control charts to Owner.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Source Limitations: Obtain metal lockers, locker benches, and accessories from single source from single locker manufacturer.
   1. Obtain locks from single lock manufacturer.

B. Manufacturers: Provide Basis of Design or approved equal by one of the following manufacturers:
   1. ASI
   2. Republic Steel.
   3. Hallowell.
   4. Interior Medart.
   5. Lyon Metal Products.
   6. Penco Products.
   7. List Industries.

2.2 METAL LOCKERS

A. Metal Lockers: Welded corridor lockers, prefinished, on continuous zee base, with sloped tops and vented doors.

1. Basis of Design: Refer to Material ID.
2. (LKR-1) Configuration: 5-tiered, 12 inches wide by 18 inches deep by 72 inches high.

B. Continuous Zee Base: Fabricated in manufacturer's standard thickness, but not less than 0.060-inch nominal-thickness steel sheet, height as shown on Drawings. Provide matching end caps.

C. Cold-Rolled Steel Sheet: ASTM A 1008, Commercial Steel (CS), Type B, suitable for exposed applications.

D. Factory-Finish: Baked enamel or powder coat.

1. Color: Custom color as indicated on Material Identification List (PT).

E. Doors: One piece; fabricated from 0.075-inch nominal-thickness steel sheet; formed into channel shape with double bend at vertical edges and with right-angle single bend at horizontal edges.

1. Reinforcement: Manufacturer's standard reinforcing angles, channels, or stiffeners for doors more than 15 inches wide; welded to inner face of doors.
2. Door Style: Unperforated panel.

F. Body: Assembled by welding body components together. Fabricate from unperforated steel sheet with thicknesses as follows:

1. Tops, Bottoms, and Sides: 0.060-inch nominal thickness.
2. Backs: 0.048-inch nominal thickness.
3. Shelves: 0.060-inch nominal thickness, with double bend at front and single bend at sides and back.

G. Frames: Channel formed; fabricated from 0.060-inch nominal-thickness steel sheet; lapped and factory welded at corners; with top and bottom main frames factory welded into vertical main frames. Form continuous, integral, full-height door strikes on vertical main frames.

H. Hinges: Manufacturer's standard, steel, continuous or knuckle type. Welded to door and attached to door frame with no fewer than two factory-installed rivets per hinge that are completely concealed and tamper resistant when door is closed; fabricated to swing 180 degrees.

I. Projecting Door Handle and Latch: Finger-lift latch control designed for use with either built-in combination locks or padlocks; positive automatic latching, chromium plated; pry and vandal resistant.

1. Latch Hooks: Equip doors 48 inches and higher with three latch hooks and doors less than 48 inches high with two latch hooks; fabricated from 0.105-inch nominal-thickness steel sheet; welded or riveted to full-height door strikes; with resilient silencer on each latch hook.
2. Latching Mechanism: Manufacturer's standard, rattle-free latching mechanism and moving components isolated to prevent metal-to-metal contact, and incorporating a prelocking device that allows locker door to be locked while door is open and then closed without unlocking or damaging lock or latching mechanism.

J. Identification Plates: Manufacturer's standard, etched, embossed, or stamped aluminum plates, with numbers and letters at least 3/8 inch high. Provide each locker with an identification plate.

K. Hooks: Manufacturer's standard ball-pointed type, aluminum or steel; zinc plated. Provide one double-prong ceiling hook and two single-prong wall hooks for each locker.

L. Combination Padlocks: Provided by Owner or User.

M. Continuous Sloping Tops: Fabricated from nominal 18 ga. steel sheet, with a pitch of approximately 20 degrees. Finish into inside corners and provide vertical exposed endcaps.

N. Boxed End Panels: Fabricated from 0.048-inch nominal-thickness steel sheet.

O. Filler Panels: Fabricated from 0.048-inch nominal-thickness steel sheet; 2 inch filler at endwalls, and inside corners.

2.3 INSTALLATION ACCESSORIES

A. Fasteners: Zinc- or nickel-plated steel, slotless-type, exposed bolt heads; with self-locking nuts or lock washers for nuts on moving parts.

B. Anchors: Material, type, and size required for secure anchorage to each substrate.
   1. Provide nonferrous-metal or hot-dip galvanized anchors and inserts on inside face of exterior walls, and elsewhere as indicated, for corrosion resistance.
   2. Provide toothed-steel or lead expansion sleeves for drilled-in-place anchors.

2.4 FABRICATION

A. Welded Construction: Factory preassemble metal lockers by welding all joints, seams, and connections; with no bolts, nuts, screws, or rivets used in assembly of main locker groups. Factory weld main locker groups into one-piece structures. Grind exposed welds flush.

B. Fabricate metal lockers square, rigid, without warp, and with metal faces flat and free of dents or distortion. Make exposed metal edges safe to touch and free of sharp edges and burrs.
   1. Form body panels, doors, shelves, and accessories from one-piece steel sheet unless otherwise indicated.
   2. Provide fasteners, filler plates, supports, clips, and closures as required for complete installation.

C. Fabricate each metal locker with an individual door and frame; individual top, bottom, and back; and common intermediate uprights separating compartments. Factory weld frame members of each metal locker together to form a rigid, one-piece assembly.

D. Accessible Lockers: Fabricate as follows:
   1. Locate bottom shelf no lower than 15 inches above the floor.
   2. Where hooks, coat rods, or additional shelves are provided, locate no higher than 48 inches above the floor.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine walls, floors, and support bases, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. General: Install lockers level, plumb, and true; shim as required, using concealed shims.
   1. Anchor locker runs at ends and at intervals recommended by manufacturer, but not more than 36 inches o.c. Using concealed fasteners, install anchors through backup reinforcing plates, channels, or blocking as required to prevent metal distortion.

B. Welded Lockers: Connect groups together with standard fasteners, with no exposed fasteners on face frames.

C. Identification Plates: Identify metal lockers with identification indicated on Drawings.
   1. Attach plates to each locker door, near top, centered, with at least two aluminum rivets.
   2. Attach plates to upper shelf of each open-front metal locker, centered, with a least two aluminum rivets.

D. Trim: Fit exposed connections of trim, fillers, and closures accurately together to form tight, hairline joints, with concealed fasteners and splice plates.
   1. Attach recess trim to recessed metal lockers with concealed clips.
   2. Attach filler panels with concealed fasteners. Locate filler panels where indicated on Drawings.
   3. Attach sloping-top units to metal lockers, with closures at exposed ends.

E. Freestanding Locker Benches: Place benches in locations indicated on Drawings.

3.3 INSTALLED WORK

A. Repair: Touch up marred finishes, or replace metal lockers that cannot be restored to factory-finished appearance. Use only materials and procedures recommended or furnished by locker manufacturer.

B. Adjusting: Clean, lubricate, and adjust hardware. Adjust doors and latches to operate easily without binding.

C. Protection: Protect metal lockers from damage, abuse, dust, dirt, stain, or paint. Do not permit use during construction.

END OF SECTION

SECTION 115200
AUDIO-VISUAL EQUIPMENT

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Brackets for flat screen displays (AV EQ-1)

1.2 COORDINATION

A. Coordinate layout and installation of projection screens with adjacent construction, including ceiling suspension systems, light fixtures, HVAC equipment, fire-suppression system, and partitions.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product indicated.

B. Shop Drawings: Show layouts and types of front-projection screens. Include the following:
   1. Drop lengths.
   2. Location of seams in viewing surfaces.
   3. Location of screen centerline relative to ends of screen case.
   4. Anchorage details, including connection to supporting structure for suspended units.
   5. Details of juncture of exposed surfaces with adjacent finishes.
   6. Location of wiring connections for electrically operated units.
   7. Wiring diagrams for electrically operated units.
   8. Accessories.

C. Samples for Initial Selection: For finishes of surface-mounted screen cases.

1.4 QUALITY ASSURANCE

A. Installer Qualifications:

1.5 DELIVERY, STORAGE AND HANDLING

A. Deliver projection screens in manufacturer's protective covering. Handle finished surfaces with care to prevent damage.

B. Environmental Limitations: Do not deliver or install projection screens until spaces are enclosed and weathertight, wet work in spaces is complete and dry, and temporary HVAC system is operating and maintaining ambient temperature and humidity conditions at occupancy levels during the remainder of the construction period.

C. Pack miscellaneous specialties individually in manner to protect accessory and its finish. Replace damaged units.

PART 2 - PRODUCTS

2.1 GENERAL PRODUCT REQUIREMENTS

A. Source Limitations for Projection Screens: Obtain each type of projection screen from single manufacturer. Obtain accessories, including necessary mounting hardware, from screen manufacturer.

B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

C. UL-Listed Products: Provide projection screens that are UL-listed and bear re-examination markers of UL.

2.2 BRACKETS FOR FLAT SCREEN DISPLAYS

A. General:
   1. Products and Manufacturers: Subject to compliance with specified requirements, provide Basis of Design product or approved equal.
   2. Provide all hardware and accessories as recommended by bracket manufacturer for complete bracket assembly installation.

B. (AV EQ-1) Wall-Mounted Brackets for Flat Screen Display: Low-profile mounting bracket assembly; with pre-wire in-wall box and all hardware and accessories for complete installation; and in compliance with the following:
   1. Basis of Design: LSTU by Chief, a division of Milestone AV Technologies; or approved equal.
   2. Certifications: UL Approved
   3. Weight Capacity: 125 lbs..
   4. Solution Type: Universal
   5. Finish: Baked-on-powder coating in Black color.

PART 3 - EXECUTION

3.1 PREPARATION

A. Deliver inserts and rough-in frames to job site at appropriate time for building-in. Provide templates and rough-in measurements as required.

B. Before starting work notify Architect in writing of conflicts detrimental to installation or operation of units.

C. Verify with Architect exact location of accessories.

3.2 INSTALLATION

A. Install wall bracket in accordance with reviewed shop drawings and manufacturer's printed instructions.

B. Install true, plumb and level, securely and rigidly anchored to substrate.

C. Adjust installed unit for smooth operation.

3.3 DEMONSTRATION

A.

END OF SECTION

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

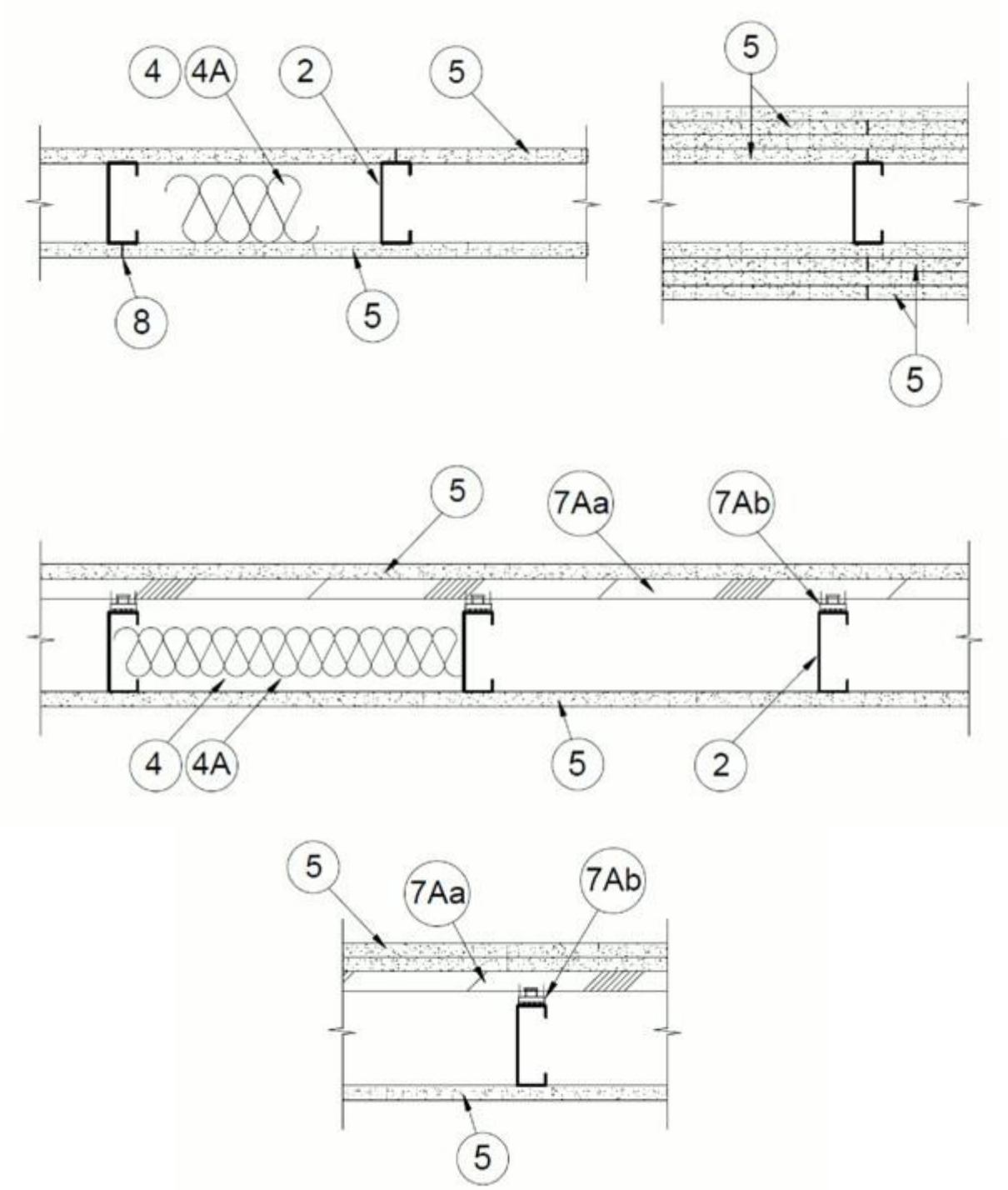
See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. **U419**

June 14, 2024

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5J)
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Floor and Ceiling Runners —** (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

CEMCO, LLC — Viper25™ Track

CRACO MFG INC — SmartTrack25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper25™ Track

1B. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CEMCO, LLC — Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

1C. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — In lieu of Item 1 — Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

1D. **Floor and Ceiling Runners —** (Not Shown) — For use with Item 2A — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1E. **Framing Members* — Floor and Ceiling Runners —** (Not Shown, As an alternate to Item 1) — For use with Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.
CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1F. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
SUPER STUD BUILDING PRODUCTS — The Edge

1G. **Framing Members* — Floor and Ceiling Runner —** For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max.
STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. **Floor and Ceiling Runners —** (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.018 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

1I. **Framing Members* — Floor and Ceiling Runners —** (Not Shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.
TELLING INDUSTRIES L L C — TRUE-TRACK™

1J. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

1K. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1L. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-1/2 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
RESCUE METAL FRAMING, L L C — AlphaTRAK

1M. **Framing Members* — Floor and Ceiling Runners —** Not Shown — As an alternate to Item 1 — For use with Item 2O, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD — Rondo Wall Track

1N. **Framing Members* — Floor and Ceiling Runners —** Not Shown — As an alternate to Item 1 — For use with Item 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
OEG BUILDING MATERIALS — OEG Track

1O. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2Q, proprietary channel shaped runners, min width to accommodate stud size, fabricated from min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.
CEMCO, LLC — Viper X Track

1P. **Framing Members* — Floor and Ceiling Runner —** (Not Shown — Alternate to Item 1) — For use with Item 2R, channel shaped runners pre-equipped with proprietary attachment clips. Min. 3-5/8 in. wide. Legs of top runners minimum 3-1/4 in. wide. Legs of bottom runners minimum 1-1/2 in. wide. Runners attached to floor and ceiling with fasteners 24 in. OC max.

HYPERFRAME INC - Hypertrack

1Q. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2S , proprietary channel shaped runners, min width to accommodate stud size, fabricated from min. 20 EQ/22 mils. (min. 0.0221 in. thick) galvanized steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

JJC INTERNATIONAL DISTRIBUTORS — Non-structural Tracks 3-5/8″ and 6″.

1R. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2T, proprietary channel shaped runners ,min width to accommodate stud size, fabricated from min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max

IRONLINE METALS LLC — Bantam Track.

2. **Steel Studs —** Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. **Steel Studs —** (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J or Type ULIX) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2B. **Framing Members* - Steel Studs —** (As an alternate to Item 2, For use with Items 5C, 5I or Type ULIX) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.
CEMCO, LLC — Viper25™

CRACO MFG INC — SmartStud25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™

IMPERIAL MANUFACTURING GROUP INC — Viper25™

2C. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
CEMCO, LLC — Viper20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2D. **Framing Members* — Steel Studs —** In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

2E. **Framing Members* — Steel Studs —** (Not Shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or Type ULIX only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2F. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.
SUPER STUD BUILDING PRODUCTS — The Edge

2G. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in less than the assembly height.
STUDCO BUILDING SYSTEMS — CROCSTUD

2H. **Framing Members* — Steel Studs —** (Not Shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
TELLING INDUSTRIES L L C — TRUE-STUD™

2I. **Framing Members* — Steel Studs —**

2J. **Framing Members* — Metal Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights

2K. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
EB METAL INC — NITROSTUD

2L. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
OLMAR SUPPLY INC — PRIMESTUD

2M. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2N. **Framing Members*— Steel Studs —** As an alternate to Item 2 — proprietary channel shaped steel studs, min depth 3-1/2 in. and as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in length than assembly height.
RESCUE METAL FRAMING, L L C — AlphaSTUD

2O. **Framing Members* — Steel Studs —** As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD — Rondo Lipped Wall Stud

2P. **Framing Members* — Steel Studs —** As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, min 25 MSG galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
OEG BUILDING MATERIALS — OEG Stud

2Q. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1O, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
CEMCO, LLC — Viper X

2R. **Framing Members* — Steel Studs —** (Not Shown — Alternate to Item 2, For use with Item 1P) — Channel shaped steel studs with attachment clips at top and bottom, min 3-5/8 in. depth, spaced a max of 24 in. OC. Studs clipped into floor and ceiling runners (Item 1P). Max 2-3/8 in. extension reveal from top of stud to inside of ceiling runner.

HYPERFRAME INC— Hyperstud

2S. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1Q, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min. 20 EQ/22 mils. (min. 0.0221 in. thick) galvanized steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

JJC INTERNATIONAL DISTRIBUTORS — Non-structural Studs 3-5/8" and 6".

2T. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1R, proprietary channel shaped steelstuds, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

IRONLINE METALS LLC — Bantam Stud.

3. **Wood Structural Panel Sheathing —** (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.

4. **Batts and Blankets* —** (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5.
See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

4A. **Batts and Blankets* —** (Optional – as an alternate to item 4) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.
See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

4B. **Fiber, Sprayed* —** (Optional – as an alternate for items 4 or 4A, for use with Type ULIX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See **Fiber, Sprayed** (CCAZ).
AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

4C. **Foamed Plastic* —** (As an alternate for items 4, 4A or 4B, for use with Item 5K) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

CARLISLE SPRAY FOAM INSULATION — Types SealTite ONE, SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

4D. **Foamed Plastic* —** (As an alternate for items 4, 4A or 4B, for use with Item 5K) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

BASF CORP - Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite HP+, FE137®, FE158®, Spraytite® 158, Spraytite® SP, Spraytite® 81205, Spraytite® Comfort XL, Walltite® XL, Walltite® MAX, Walltite® LWP, Walltite® Plus and Enertite® Max

5. **Gypsum Board* —** Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) with Type ULIX need not be staggered. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2, 2C, 2D, 2F, 2G, 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Type C and 5/8 in. thick Type SCX

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, ULIX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, **Steel Framing Members***, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. **Gypsum Board* —** (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.
CGC INC — Type SHX.

UNITED STATES GYPSUM CO — Type FRX-G, SHX.

USG MEXICO S A DE C V — Type SHX.

5B. **Gypsum Board* —** (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12).
RAY-BAR ENGINEERING CORP — Type RB-LBG

5C. **Gypsum Board* —** (For Use With Item 2B) — Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.
CGC INC — Type SCX, ULIX.

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX

UNITED STATES GYPSUM CO — Type SCX, SGX, ULIX.

USG BORAL DRYWALL SFZ LLC — Type SCX

USG MEXICO S A DE C V — Type SCX

5D. **Gypsum Board* —** (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.
CGC INC — Type USGX

UNITED STATES GYPSUM CO — Type USGX

USG BORAL DRYWALL SFZ LLC — Type USGX

USG MEXICO S A DE C V — Type USGX

5E. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and

staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelco

5F. **Gypsum Board* —** (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX

UNITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX, ULIX

USG BORAL DRYWALL SFZ LLC — 5/8 in. thick Type SCX, SGX

5G. **Gypsum Board* —** (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Item 2E	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR;, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX or 3/4 in. thick Types IP-X3 or ULTRACODE

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Types C and 5/8 in. thick SCX

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2, IPC-AR, ULIX; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

5H. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel

screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A).
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

5I. **Gypsum Board* —** (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.
CGC INC — Type ULIX, ULX

UNITED STATES GYPSUM CO — Type ULIX, ULX

USG MEXICO S A DE C V — Type ULX

5J. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5K. **Gypsum Board* —** (As an alternate to Item 5 when Foam Plastic insulation (Items 4C or 4D) is used) **—** Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to studs over inner layer with the 1-7/8 in. long steel screws spaced 8 in. OC.

6. **Fasteners —** (Not Shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Single layer system with Type ULIX:** 1 in. long, spaced 12 in. OC in the field and perimeter, when panels are applied horizontally or vertically.**Two layer systems:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer.**Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

7. **Furring Channels —** (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A.

7A. **Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in

Item 6. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

7B. **Framing Members* —** (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.
KINETICS NOISE CONTROL INC — Type Isomax

7C. **Framing Members* —** (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
PLITEQ INC — Type GENIECLIP

7D. **Steel Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

7E. **Steel Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 7Eb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

7F. **Steel Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — Resilient channels and Steel Framing Members as described below:
a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 5. Not for use with Item 5A and 5E.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 7Fa) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

7G. **Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ga) to studs (Item 2). Clips spaced max. 48 in. OC. Clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips.
CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

8. **Joint Tape and Compound —** Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

9. **Siding, Brick or Stucco —** (Optional, Not Shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

10. **Caulking and Sealants* —** (Optional, Not Shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.
UNITED STATES GYPSUM CO — Type AS

11. **Lead Batten Strips —** (Not Shown, For Use With Item 5B) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations. Required behind vertical joints.

11A. **Lead Batten Strips —** (Not Shown, For Use With Item 5H) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations.

12. **Lead Discs or Tabs —** (Not Shown, For Use With Item 5B) — Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads

or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

12A. **Lead Discs —** (Not Shown, for use with Item 5H) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

13. **Lead Batten Strips —** (Not Shown, For Use With Item 5E) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations.

14. **Lead Tabs —** (Not Shown, For Use With Item 5E) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

15. **Barrier Mesh —** (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh Clips spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel Studs less than 0.033 inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 5) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with the long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in. on center.
CLARKDIETRICH BUILDING SYSTEMS — Barrier Mesh, Barrier Mesh Clips

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2024-06-14

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

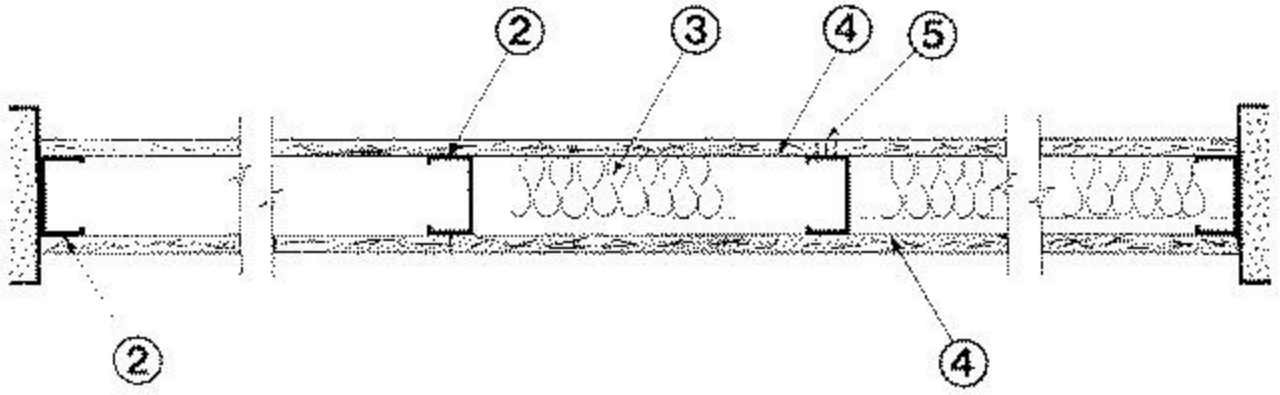
See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. **U465**

June 14, 2024

Nonbearing Wall Rating — 1 HR.
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Floor and Ceiling Runners —** (Not Shown) — Channel shaped runners, 3-5/8 in. deep (min), 1-1/4 in. legs, formed from min No. 25 MSG galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1A. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 — Channel shaped, min 3-5/8 in. deep, attached to floor and ceiling with fasteners 24 in. OC. max.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

1B. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CEMCO, LLC — Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

1C. **Floor and Ceiling Runners —** (Not Shown) — For use with Item 2C — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1D. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Items 1 through 1C — For use with Item 2D and 4G only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1E. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Items 1 through 1D — For use with Item 2E and 4I only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
TELLING INDUSTRIES L L C — TRUE-TRACK™

1F. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Items 1 through 1E — For use with Item 2, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 25 MSG steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
KIRII (HONG KONG) LTD — Type KIRII

1G. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Items 1 through 1F — For use with Item 2, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide, attached to floor and ceiling with fasteners spaced 24 in. OC max.
STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. **Floor and Ceiling Runners —** (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.02 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

1I. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Item 1 — For use with Item 2H, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

1J. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Items 1 — For use with Item 2 L, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
RESCUE METAL FRAMING, L L C — AlphaTRAK

1K. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Item 1 — For use with Item 2M, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep, fabricated from min 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.
CEMCO, LLC — Viper X Track

1L. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CRACO MFG INC — SmartTrack20™

1M. **Framing Members* - Floor and Ceiling Runners –** Not shown – In lieu of Items 1 through 1L – For use with Item 2O, proprietary channel shaped runners, min 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 20 MSG galv steel (0.0329 in. min bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.

PANEL REY S A – SUPRA Track 20/33 mil

1N. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 – For use with Item 2P, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-5/8 in. deep fabricated from min 0.019 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

PANEL REY S A – SUPRA Track 20EQ/19 mil

1O. **Framing Members* — Floor and Ceiling Runner —** (Not Shown — Alternate to Item 1) — For use with Item 2Q, channel shaped runners pre-equipped with proprietary attachment clips. Min. 3-5/8 in. wide. Legs of top runners minimum 3-1/4 in. wide. Legs of bottom runners minimum 1-1/2 in. wide. Runners attached to floor and ceiling with fasteners 24 in. OC max.

HYPERFRAME INC - Hypertrack

1P. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 – For use with Item 2R, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-5/8 in. deep fabricated from min. 20 EQ/22 mils. (min. 0.0221 in. thick) galvanized steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

JJC INTERNATIONAL DISTRIBUTORS — Non-structural Tracks 3-5/8" and 6".

1Q. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Items 1 — _For use with Item 2R, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

IRONLINE METALS LLC — Bantam Track.

2. **Steel Studs —** Channel shaped, 3-5/8 in. deep (min), formed from min No. 25 MSG galv steel spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height.

2A. **Framing Members* — Steel Studs —** As an alternate to Item 2 — Channel shaped studs, min 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

2B. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1B, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.
CEMCO, LLC — Viper20™

CRACO MFG INC — SmartStud20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2C. **Steel Studs —** (As an alternate to Item 2, For use with Item 1C) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height. See materials in Item(s) 4 that require Item 2C studs.

2D. **Framing Members* — Steel Studs —** As an alternate to Items 2 through 2C — For use with Item 1D and 4G only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.
CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2E. **Framing Members* — Steel Studs —** As an alternate to Items 2 through 2D — For use with Item 1E and 4I only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.
TELLING INDUSTRIES L L C — TRUE-STUD™

2F. **Framing Members* — Steel Studs —** As an alternate to Items 2 through 2E — For use with Item 1F, channel shaped studs, min 3-5/8 in. wide fabricated from min 25 MSG steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.
KIRII (HONG KONG) LTD — Type KIRII

2G. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 through 2F — For use with Item 1G. Proprietary channel shaped studs, minimum 3-5/8 in. wide, Studs to be cut 1/2 in. less than the assembly height.
STUDCO BUILDING SYSTEMS — CROCSTUD

2H. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1I, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

2I. **Framing Members* — Steel Studs —** In lieu of Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 3-5/8 in. deep (min), spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height.
EB METAL INC — NITROSTUD

2J. **Framing Members* — Steel Studs —** In lieu of Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 3-5/8 in. deep (min), spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height.
OLMAR SUPPLY INC — PRIMESTUD

2K. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1B (3-5/8 in. wide track), channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 1-1/4 in. wide by 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2L. **Framing Members* — Steel Studs —** As an alternate to Items 2 — For use with Item 1J, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
RESCUE METAL FRAMING, L L C — AlphaSTUD

2M. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1K, proprietary channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/4 in. less in length than assembly height.
CEMCO, LLC — Viper X

2N. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1L, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.
CRACO MFG INC — SmartStud20™

2O. **Framing Members* - Steel Studs –** Not Shown – In lieu of Items 2 through 2N – For use with Item 1M, proprietary channel shaped steel studs, min 1-5/8 in. wide by min 3-5/8 in. deep fabricated from min 20 MSG galv steel (0.0329 in. min bare metal thickness) spaced 24 in. OC max. Studs cut 3/4 in. less in length than assembly height.

PANEL REY S A – SUPRA Stud 20/33 mil

2P. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 – For use with Item 1N, proprietary channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep with 1/4 in. return lips fabricated from min 0.019 in. thick galv steel, spaced 24 in. OC max. Studs cut 3/4 in. less in length than assembly height.

PANEL REY S A – SUPRA Stud 20EQ/19 mil

2Q. **Framing Members* — Steel Studs —** (Not Shown — Alternate to Item 2, For use with Item 1O) — Channel shaped steel studs with attachment clips at top and bottom, min 3-5/8 in. depth, spaced a max of 24 in. OC. Studs clipped into floor and ceiling runners (Item 1O). Max 2-3/8 in. extension reveal from top of stud to inside of ceiling runner.

HYPERFRAME INC— Hyperstud

2R. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 – For use with Item 1P, proprietary channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min. 20 EQ/22 mils. (min. 0.0221 in. thick) galvanized steel, spaced 24 in. OC max. Studs cut 3/4 in. less in length than assembly height.

JJC INTERNATIONAL DISTRIBUTORS — Non-structural Studs 3-5/8" and 6".

2R. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 – For use with Item 1Q, proprietary channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min. min. 0.018 in. thick galvanized steel, spaced 24 in. OC max. Studs cut 3/4 in. less in length than assembly height.

IRONLINE METALS LLC — Bantam Stud.

3. **Batts and Blankets* —** (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity.
See **Batts and Blankets** (BZJZ) category for names of Classified companies.

ROCKWOOL — Type AFB, min. density 1.69 pcf / 27.0 kg/m^3

ROCKWOOL MALAYSIA SDN BHD — Type Acoustical Fire Batts

3A. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft^3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft^3, in accordance with the application instructions supplied with the product.
Applegate Greenfiber Acquisition LLC — Insulmax and SANCTUARY for use with wet or dry application.

3B. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.

NU-WOOL CO INC — Cellulose Insulation

3C. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft^3.

INTERNATIONAL CELLULOSE CORP — Celbar-RL

3D. **Batts and Blankets* —** For use with Item 8. Nom 3 in. thick, minimum 3.4 pcf mineral wool batts, friction fit between the studs and floor and ceiling runners.

See **Batts and Blankets** (BZJZ) category for names of manufacturers.

3E. **Batts and Blankets* —** For use with Item 4R and 4S. Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.

See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

3F. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) — Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft^3.

Applegate Greenfiber Acquisition LLC— Applegate Advanced Stabilized Cellulose Insulation

3G. **Foamed Plastic*** — As an alternate to Batts and Blankets (Items 3-3F), for use with Item 4U — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with min. 20 MSG thickness.

CARLISLE SPRAY FOAM INSULATION — Types SealTite ONE, SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

3H. **Foamed Plastic*** — As an alternate to Batts and Blankets (Items 3-3F), for use with Item 4U — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with min. 20 MSG thickness.

BASF CORP - Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite® HP+, FE137®, FE158®, Spraytite® 158, Spraytite® SP, Spraytite® 81205, Spraytite® Comfort XL, Walltite® XL, Walltite® MAX, Walltite® LWP, Walltite® Plus and Enertite® Max.

4. **Gypsum Board* —** 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When Steel Framing Members* (Item 6 or any alternate clips) are used, gypsum board is screw attached to furring channels with 1 in. long, Type S steel screws spaced 12 in. OC.

AMERICAN GYPSUM CO — Types AG-C, AGX-1, M-Glass, LightRoc

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CABOT MANUFACTURING ULC — Type X, 5/8 Type X, Type Blueglass Exterior Sheathing

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

CERTAINTEED GYPSUM INC — Types EGRG, GlasRoc, Type X-1, Type C, 5/8" Easi-Lite Type X, Easi-Lite Type X-2, Type LWTX

CERTAINTEED GYPSUM INC — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD, LGLLX

GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6, LS, Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, TG-C, GreenGlass Type X, Type X ComfortGuard Sound Deadening Gypsum Board, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type-DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSMR-C, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSW-8, FSL, RSX.

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-C, PG-9, PG-11, PGS-WRS, PGI

PANEL REY S A — Types GREX, GRIX, PRC, PRC2, PRX, RHX, MDX, ETX, PRX2

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

THAI GYPSUM PRODUCTS PCL — Type X and Type C, M2Tech Type C

UNITED STATES GYPSUM CO — Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC, WRX, (Joint tape and compound, Item 5, optional for use with Type USGX)

USG BORAL DRYWALL SFZ LLC — Types C, SCX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX)

USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

4A. **Gypsum Board* —** (As alternate to Item 4) — Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally. When using ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter.

CERTAINTEED GYPSUM INC — Type X-1, Type C, Type EGRG/ GlasRoc, GlasRoc-2, Type SilentFX, Easi-Lite Type X-2

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

CERTAINTEED GYPSUM INC — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD

GEORGIA-PACIFIC GYPSUM L L C — Types DAP, DAPC, DGG, DS

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

THAI GYPSUM PRODUCTS PCL — Type X and Type C, M2Tech Type C

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC, WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

USG BORAL DRYWALL SFZ LLC — Types C, SCX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX)

USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

4B. **Gypsum Board* —** (As an alternate to Items 4 or 4A) — Nom 3/4 in. thick, 4 ft wide, installed as described in Item 4A with screw length increased to 1-1/4 in.

CGC INC — Types AR, IP-AR

UNITED STATES GYPSUM CO — Types AR, IP-AR

USG MEXICO S A DE C V — Types AR, IP-AR

4C. **Gypsum Board* —** As an alternate to Items 4, 4A, and 4B — Nom. 5/8 in. thick gypsum panels, with square edges, applied horizontally. Gypsum panels fastened to framing with 1 in. long bugle head steel screws spaced a max 8 in. OC, with last 2 screws 3/4 in. and 4 in. from each edge of board. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs on interior walls need not be staggered or backed by steel framing.
GEORGIA-PACIFIC GYPSUM L L C — Type DGG, GreenGlass Type X

4D. **Gypsum Board* —** As an alternate to Items 4, 4A, 4B, 4C, 4G — Nom. 5/8 in. thick gypsum panels applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Gypsum panels fastened to framing with 1 in. long Type S steel screws 12 in. OC along vertical edges and in the field, and12 in. along the top and bottom of the wall. When used in widths other than 48 in., gypsum panels to be installed horizontally. When studs (Item 2) spaced a max 16 in. OC, 5/8 in. thick gypsum panels applied vertically or horizontally, 1 in. long spaced 16 in. OC along vertical edges and in the field, and 16 in. OC along top and bottom of wall.
NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSMR-C

4E. **Gypsum Board* —** (As an Alternate to Items 4 through 4D) – Installed as described in item 4. 5/8 in. thick, 4 ft wide, applied vertically only and fastened to the studs and plates with 1 in. long Type S steel screws spaced 12 in. OC. When studs (Item 2) spaced a max 16 in. OC, 5/8" in. thick gypsum panels applied vertically or horizontally with 1 in. long Type S steel screws spaced 16 in. OC along vertical edges and in the field, and 16 in. OC along top and bottom of wall.
NATIONAL GYPSUM CO — Type SBWB

4F. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.
RAY-BAR ENGINEERING CORP — Type RB-LBG

4G. **Gypsum Board* —** (As an alternate to Items 4 through 4F) — For use with Items 1D and 2D only, 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When using Types eXP-C, FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSMR-C and ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter.
CGC INC — Type SCX, ULIX

CERTAINTEED GYPSUM INC — Type LGFC6A, LGFC-C/A

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, and FSMR-C

UNITED STATES GYPSUM CO — Type SCX, ULIX

USG BORAL DRYWALL SFZ LLC — Type SCX

4H. **Gypsum Board* —** (As an alternate to Items 4 through 4G) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES

4I. **Gypsum Board* —** (As an alternate to Items 4 through 4F) — 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When using ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter. When using ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter.
CGC INC — Types SCX, ULIX

UNITED STATES GYPSUM CO — Types SCX, ULIX

USG BORAL DRYWALL SFZ LLC — Type SCX

4J. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A).
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4K. **Gypsum Board* —** (As an alternate to Item 4 and 4A, not for use with Items 1D, 1E, 2D and 2E) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 4 and 4A.
CGC INC — Type ULX

UNITED STATES GYPSUM CO — Type ULX

USG MEXICO S A DE C V — Type ULX

4L. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

4M. **Gypsum Board* —** (For use with Item 8) — 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 8) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 8). Secured to outermost studs and floor and ceiling runners with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound.
AMERICAN GYPSUM CO — Type AG-C

CERTAINTEED GYPSUM INC — Type C

CGC INC — Types C, IP-X2, IPC-AR

CERTAINTEED GYPSUM INC — Type LGFC-C/A

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

NATIONAL GYPSUM CO — Types eXP-C, FSK-C, FSW-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C

PANEL REY S A — Types PRC, PRC2

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

THAI GYPSUM PRODUCTS PCL — Type C, M2Tech Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

4N. **Wall and Partition Facings and Accessories* —** (As an alternate to Item 4) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527

4O. **Gypsum Board* —** As an alternate to Items 4, 4A, 4B, and 4C — Two layers Nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Horizontal joints on the same side need not be staggered. When applied horizontally, both layers of gypsum board fastened to each side of framing with 1 in. long Type S steel screws spaced 8 in. OC and staggered 4 in. OC between layers. When applied vertically, both layers of gypsum board fastened to each side of framing with 1 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field, staggered 4 in. OC between layers. Screws spaced a max 12 in. along the top and bottom edges of the wall.
NATIONAL GYPSUM CO — Type FSW

4P. **Gypsum Board* —** As an alternate to Item 4. Nom 5/8 in. thick, 4 ft wide, Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and runners with 1 in. long Type S steel screws spaced 12 in. OC when applied horizontally or vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally.
CGC INC — Type ULIX

UNITED STATES GYPSUM CO — Types ULIX

4Q. **Gypsum Board* —** 3/4 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track as described in Item 4 with screw length increased to min. 1- 1/8 in.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-13

4R. **Gypsum Board* —** As an alternate to Item 4D. For use with Item 3E, **Batts and Blankets*** — 5/8 in. thick, 4 ft wide, installed as described in Item 4. When studs (Item 2) spaced a max 16 in. OC, 5/8 in. thick gypsum panels applied vertically or horizontally, 1 in. long spaced 16 in. OC along vertical edges and in the field, and 16 in. OC along top and bottom of wall.
NATIONAL GYPSUM CO — Type FSLX.

4S. **Gypsum Board* —** As an alternate to Item 4. For use with Item 3E, **Batts and Blankets*** — 5/8 in. thick, 4 ft wide, installed as described in Item 4A.

CERTAINTEED GYPSUM INC — Type CLLX.

4T. **Wall and Partition Facings and Accessories* —** (As an alternate to 5/8 in. thick board as outlined in Item 4) — Nominal 1-3/8 in. thick, 4 ft wide panels, applied vertically or horizontally. Fastened with #6 x 2 in. long drywall screws spaced 8 in. OC along the perimeter and 12 in. OC in the field.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 545

4U. **Gypsum Board*—** (As an alternate to Item 4 when Foam Plastic insulation Items 3G or 3H is used) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 4 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to studs over inner layer with the 1-7/8 in. long steel screws spaced 8 in. OC.

4V. **Gypsum Board* —** (As an alternate to Item 4, for 1 hr. rating) — Nom. 5/8 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Gypsum panels fastened to framing with 1 in. long Type S steel screws 12 in. OC along vertical edges and in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall for both vertical and horizontal applications.

CERTAINTEED GYPSUM INC — Type X-1, SilentFX, GlasRoc, Type C

5. **Joint Tape and Compound —** Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.

6. **Resilient Channel —** (Optional — Not Shown) — 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws. May not be used with Item 4F, 4J or 4L.

6A. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Not for use with Items 4F, 4J, or 4L.

b. **Framing Members* —** Used to attach furring channels (Item a) to studs (Item 2). Clips spaced 48 in. OC., and secured to studs with 1-5/8 in. wafer or hex head Type S steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75)

6B. **Framing Members* —** — (Optional on one or both sides, Not Shown, As an alternate to Item 6) — Furring channel and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Ba) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

PLITEQ INC — Type Genie Clip

6C. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Ca) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

6D. **Steel Framing Members* —** (Optional, Not Shown As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6Db. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

b. **Steel Framing Members* —** UUsed to attach furring channels (Item 6Da) to studs. Clips spaced 48 in. OC, and secured to studs with No.8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

6E. **Steel Framing Members* —** (Optional, Not Shown As an alternate to Item 6) — Resilient channels and Steel Framing Members as described below:
a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 6Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

6F **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
a **Furring Channels —** Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 4.

b **Steel Framing Members* —** Used to attach furring channels (Item 6Fa) to studs. Clips spaced maximum 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

6F. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Fa) to studs. Clips spaced 48 in. OC., and secured to studs with No. 10 x 2 in. screw through the center hole. Furring channels are friction fit into clips.
MASON INDUSTRIES INC — Type CWC-50

7. **Wall and Partition Facings and Accessories* —** (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the steel framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510

8. **Mineral and Fiber Board* —** (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board layer (Item 4M) is to be installed over the Mineral and Fiber Boards. Batts and Blankets, Item 3D, and Adhesive, Item 11, are required.
HOMASOTE CO — Homasote Type 440-32

8A. **Mineral and Fiber Board —** (Optional, Not Shown) — For optional use as an additional layer on one side of wall - Nom 1/2 in. thick, 4 ft wide, square edge fiber boards applied vertically to studs on one side of the wall in between the wood studs and the UL Classified Gypsum Board (Item 4). Fiber boards installed with 1-1/4 in. long, Type S steel screws spaced 12 in. OC max, with the last screws spaced 2 in. and 6 in. from edge of board. Gypsum board (Item 4) installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. Not evaluated for use with Item 4M.
BLUE RIDGE FIBERBOARD INC — SoundStop

8B. **Mineral and Fiber Board* —** (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board layer is to be installed over the Mineral and Fiber Boards and secured to studs with length of fasteners increased by 1/2 in. over the length specified for installation of the gypsum boards. Batts and Blankets, Item 3, are optional unless otherwise required. Not for use with Items 4F, 4J, 4L, and 4M.
HOMASOTE CO — Homasote Type 440-32

9. **Lead Batten Strips —** (Not Shown, For Use With Item 4E) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum board (Item 4E) and optional at remaining stud locations. Required behind vertical joints.

9A. **Lead Batten Strips —** (Not Shown, for use with Item 4J) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of

the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4J) and optional at remaining stud locations.

10. **Lead Discs or Tabs —** (Not Shown, For Use With Item 4E) — Used in lieu of or in addition to the lead batten strips (Item 8) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4E) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

10A. **Lead Discs —** (Not Shown, for use with Item 4J) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

11. **Adhesive —** Not Shown — (For use with Item 8) — Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 8).

12. **Wall and Partition Facings and Accessories* —** (CLBV) (Optional, Not Shown) — For use with Items 1 to 1I, Items 2 to 2J, Item 3, Items 4 to 4I, Item 5 and Item 6. For maximum fire rating of 1 hour. On one side of the wall, over the first layer of Gypsum Board (Item 4 to Item 4I), install RefleXor membrane with the gold side facing outwards. Membrane installed with T50 staples spaced 12 inches on center in both directions as per manufacturer's instructions, seams in membrane to be overlapped by 2 inches. When RefleXor membrane is used an additional layer of Gypsum Board that is identical to the one used in the first layer and as specified in Item 4 to Item 4I shall be installed over the membrane. The additional layer of Gypsum Board to be installed through the membrane to the stud as specified in Item 4 to Item 4I except the fastener length shall be increased by a minimum of 5/8 inch. Install Batts and Blankets in the stud cavity as per Item 3.

On the other side of the wall, prior to the installation of the Gypsum Board, install Resilient Channels as per Item 6. Over the Resilient Channels install 3/4 inch thick SONOpan panel secured to the Resilient Channels with min. 1-1/4 in. long drywall screws and washers spaced at 16 in. OC on the perimeter of the panel and 8 in. OC in the field of the panel. Over the SONOpan panel install the same Gypsum Board as specified in Item 4 to Item 4I with the fastener length increased by minimum 3/4 inch. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

Alternately, on the other side of the wall prior to the installation of the Gypsum Board, install 3/4 in. thick SONOpan panels, secured to one side of studs either horizontally or vertically. Panels secured to each stud with min. 1-1/4 in. long drywall screws spaced 12 in. OC. Over the SONOpan, install 25 MSG galv steel, Resilient Channels, spaced vertically 24 in. OC. Resilient Channels fastened through panels to each stud with min. 2 in. long drywall screws or self-tapping screws. Over the Resilient Channels install Gypsum Board as specified in Item 4 to Item 4I with the specified drywall screws. Panels not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

MSL — RefleXor membrane, SONOpan panel

13. **Barrier Mesh —** (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh Clips spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel Studs less than 0.033 inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 4) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with the long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in. on center.

CLARKDIETRICH BUILDING SYSTEMS — Barrier Mesh, Barrier Mesh Clips

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2024-06-14

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHBN - Joint Systems

XHBN7 - Joint Systems Certified for Canada

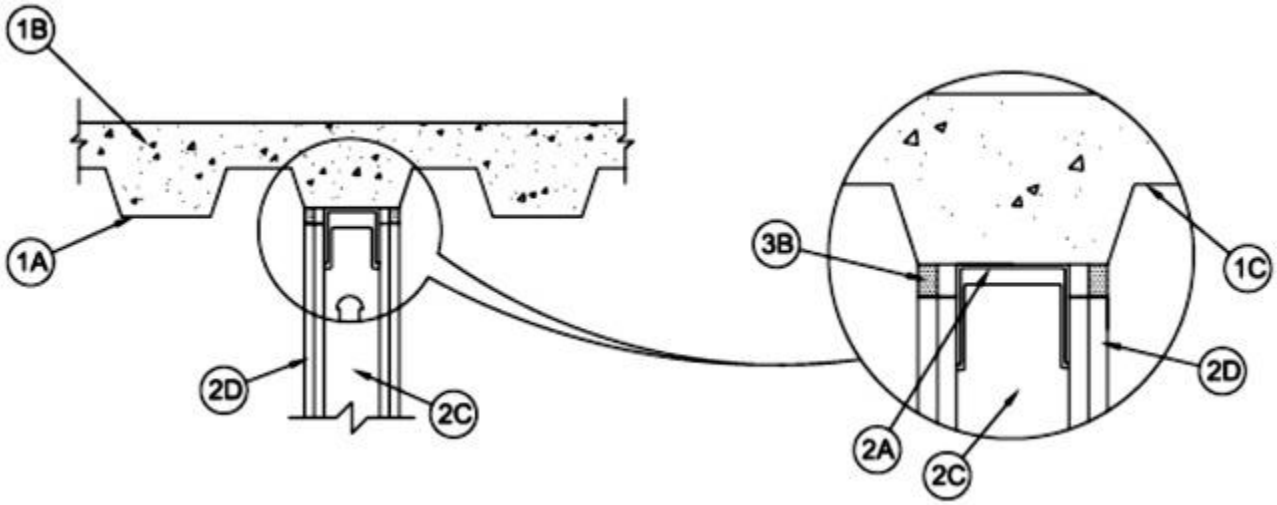
See General Information for Joint Systems

See General Information for Joint Systems Certified for Canada

System No. HW-D-0084

June 22, 2023

ANSI/UL2079	CAN/ULC S115
Assembly Rating — 1 and 2 Hr (See Items 2 & 3)	F Rating — 1 and 2 Hr (See Items 2 & 3)
Nominal Joint Width — 3/4 In.	FT Rating — 1 and 2 Hr (See Items 2 & 3)
Class II Movement Capabilities — 33% Compression or Extension	FH Rating — 1 and 2 Hr (See Items 2 & 3)
	FTH Rating — 1 and 2 Hr (See Items 2 & 3)
	Nominal Joint Width — 3/4 In.
	Class II Movement Capabilities — 33% Compression or Extension



1. **Floor Assembly —** The fire-rated fluted steel floor unit/concrete assembly floor assembly shall be constructed of the materials and in the manner described in the individual D700 or D900 Series Floor-Ceiling Design in the Fire Resistance Directory and shall include the following construction features:
A. **Steel Floor and Form Units* —** Max 3 in. (76 mm) deep galv. steel fluted floor units.

B. **Concrete —** Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

C. **Spray-Applied Fire Resistive Materials —** (Optional, Not Shown) — Prior to or after the installation of the ceiling runner and Fill, Void or Cavity Materials (Item 3), the steel floor units may be sprayed with a min 5/16 in. (8 mm) thickness to a max 11/16 in. (17 mm) thickness of fire resistive material.
GCP APPLIED TECHNOLOGIES INC — Type MK-6/HY

1A. **Roof Assembly —** (Not Shown) — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:
A. **Steel Roof Deck —** Max 3 in. (76 mm) deep galv steel fluted roof deck.

B. **Roof Insulation —** Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the floor units.

1B. **Roof Assembly —** As an alternate to Items 1 and 1A, a fire rated protected fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:
A. **Steel Roof Deck —** Max 3 in. (76 mm) deep galv steel fluted roof deck.

B. **Spray—Applied Fire Resistive Materials* —** (Not Shown)—Prior to or after the installation of the steel ceiling runners, Forming Material and Fill, Void or Cavity Material (Items 2A, 3A, 3B), the roof assembly shall be sprayed with the type and thickness of fire resistive material indicated in the individual P700 Series design.

2. **Wall Assembly —** The 1 or 2 h fire-rated gypsum board /steel stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
A. **Steel Floor and Ceiling Runners —** Floor and ceiling runners of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2C). Ceiling runner to be provided with min. 2 in. (51 mm) flanges. Ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, and secured with steel masonry anchors, steel fasteners or welds spaced 24 in. (610 mm) OC. before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material.

A1. **Light Gauge Framing*-Slotted Ceiling Runner —** As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2C). Slotted ceiling runner installed parallel

to direction of fluted steel deck, centered beneath valley, secured with steel masonry anchors, steel fasteners or welds spaced 24 in. (610 mm) OC. before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material.
CEMCO, LLC — CST

CLARKDIETRICH BUILDING SYSTEMS — Type SLT, SLT-H

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Type SLT

METAL-LITE INC — The System

RAM SALES L L C — RAM Slotted Track

SCAFCO STEEL STUD MANUFACTURING CO

TELLING INDUSTRIES L L C — True-Action Deflection Track

A2. **Light Gauge Framing*-Vertical Deflection Ceiling Runner —** As an alternate to the ceiling runners in Items 2A and 2A1, vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips, provided with step bushings, for permanent fastening of steel studs. Flanges sized to accommodate steel studs (Item 2C). Vertical deflection ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, and secured with steel masonry anchors, steel fasteners or welds spaced 24 in. (610 mm) OC. before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material.
THE STEEL NETWORK INC — VertiTrack VTD250, VTD362, VTD400, VTD600 and VTD800

A3. **Light Gauge Framing* - Notched Ceiling Runner —** As an alternate to the ceiling runners in Items 2A through 2A3, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2C). Notched ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, and secured with steel masonry anchors, steel fasteners or welds spaced 24 in. (610 mm) OC. before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material.
OLMAR SUPPLY INC — Type SCR

B. **Steel Attachment Clips —** (Optional - Not Shown) - When spray applied fireproofing is used ceiling runner may be secured to deck with Z-shaped clips formed from min. 1 in. (25 mm) long strips of min 20 ga galv steel. Length of clips should not exceed the width (thickness) of the wall. Clips to be sized to extend through the thickness of the spray-applied fire-resistive material on the bottom of the steel deck with 1-1/2 or 2 in. (38 or 51 mm) long upper and lower legs. Legs of clips fastened to valleys of steel deck (prior to application of spray-applied fire-resistive materials) and top of ceiling runner with masonry anchors, steel fasteners or welds. Clips spaced max 24 in. (610 mm) OC.

C. **Studs —** Steel studs to be min 2-1/2 in. (64 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. Stud spacing not to exceed 24 in. (610 mm) OC. When vertical deflection ceiling runner (Item 2A2) is used, steel studs secured to slotted vertical deflection clips, through the bushings, with steel screws at midheight of each slot. Stud spacing not to exceed 24 in. (610 mm) OC.

D. **Gypsum Board* —** Gypsum board installed to a min total thickness 5/8 or 1-1/4 in. (16 or 32 mm) on each side of wall, for 1 or 2 hr fire resistance rated walls, respectively. Wall to be constructed as specified in the individual U400 or V400 Series Design in the UL Fire Resistance Directory, except that a max 3/4 in. (19 mm) gap shall be maintained between the top of gypsum board and bottom of steel deck. The screws attaching the gypsum board to the studs at the top of the first layer shall be located 4 in. (102 mm) from the steel deck valleys. The screws attaching the second layer to the steel studs shall be installed into the studs 3-1/2 in. (89 mm) below the valleys of the steel deck. **The hourly fire rating of the joint system is dependent on the hourly ratings of the walls.**

3. **Fill, Void or Cavity Material* - Sealant — Max separation between the bottom of floor or roof and top of wall is 3/4 in. (19 mm). The joint system is designed to accommodate a max 33 percent compression or extension from its installed width**. Fill material installed on each side of wall between the top of the gypsum board and the bottom of the steel deck. Min 5/8 in. (16 mm) thickness plus a 1/4 in. (6 mm) crown required for 1 hr fire rated system. Min 1-1/4 in. (32 mm) thickness installed flush with surface of wall required for 2 Hr fire rated system.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP601S Elastomeric Firestop Sealant or CFS-S SIL GG Sealant

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2023-06-22

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHBN - Joint Systems

XHBN7 - Joint Systems Certified for Canada

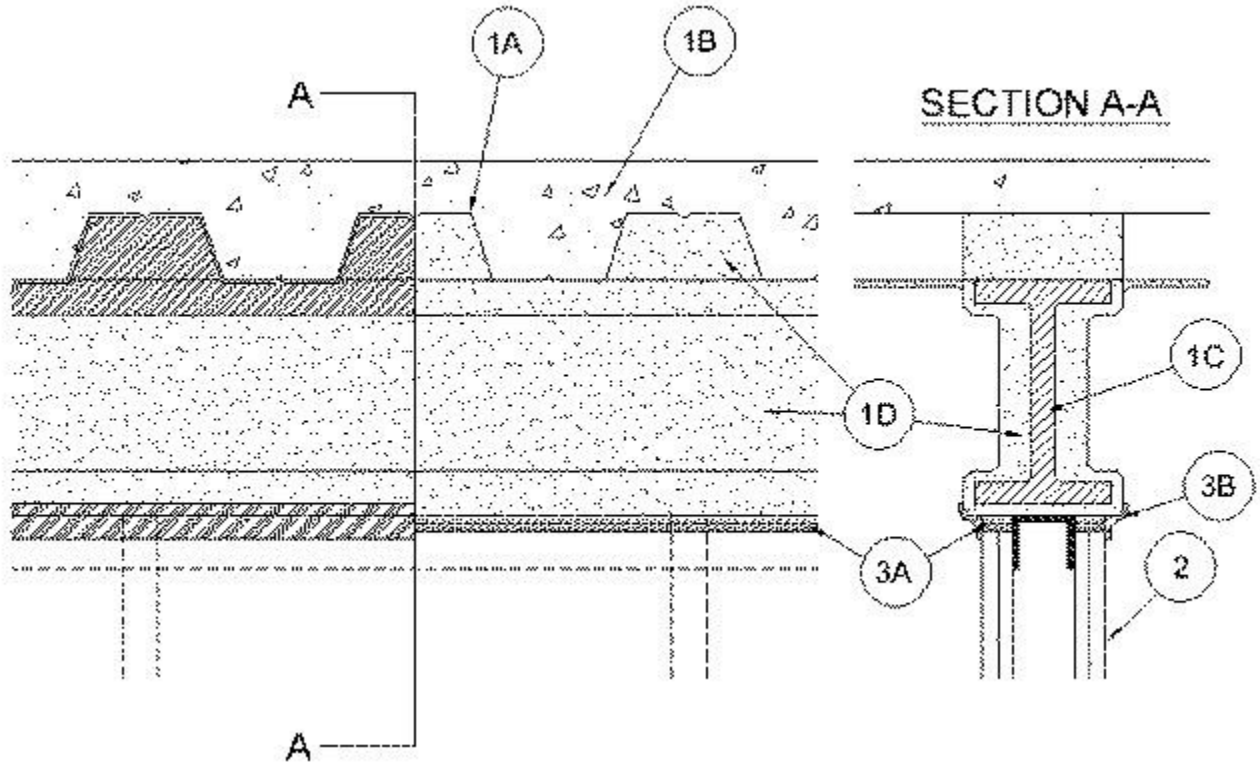
See General Information for Joint Systems

See General Information for Joint Systems Certified for Canada

System No. HW-D-0259

June 23, 2023

ANSI/UL2079	CAN/ULC S115
Assembly Ratings — 1 and 2 Hr (See Items 1 and 2)	F Ratings — 1 and 2 Hr (See Items 1 and 2)
Nominal Joint Width - 1-1/2 In.	FT Ratings — 1 and 2 Hr (See Items 1 and 2)
Class II Movement Capabilities — 50% Compression or Extension	FH Ratings — 1 and 2 Hr (See Items 1 and 2)
L Rating At Ambient — Less Than 1 CFM/lin ft	FTH Ratings — 1 and 2 Hr (See Items 1 and 2)
L Rating At 400 F — Less Than 1 CFM/lin ft	Nominal Joint Width - 1-1/2 In.
	Class II Movement Capabilities — 50% Compression or Extension
	L Rating At Ambient — Less Than 1 CFM/lin ft
	L Rating At 400 F — Less Than 1 CFM/lin ft



1. **Floor Assembly —** The fire-rated fluted steel floor unit/concrete floor assembly shall be constructed of the materials and in the manner described in the individual Floor-Ceiling Design in the Fire Resistance Directory and shall include the following construction features:

A. **Steel Floor and Form Units* —** Max 3 in. (76 mm) deep galv steel fluted floor units.

B. **Concrete —** Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

C. **Structural Steel Support —** Steel beam, as specified in the individual D700 or D900 Series Floor-Ceiling Design, used to support steel floor units. Structural steel support centered over and parallel with wall assembly.

D. **Spray-Applied Fire Resistive Material* —** Steel floor units and structural steel beam to be sprayed with the thickness of material specified in the individual D700 Series Design or the structural steel supports to be sprayed in accordance with the specifications in the individual D900 Series Design. The flutes of the steel floor units are to be filled with material across the entire top flange of the steel beam. Additional material shall be applied to the web of the steel beam on each side of the wall. **For a 1 hr Assembly Rating, the total thickness of material applied to each side of the steel beam web shall be min 13/16 in. (21 mm). For a 2 hr Assembly Rating, the total thickness of material applied to each side of the steel beam web shall be min 1-3/8 in. (35 mm).**
GCP APPLIED TECHNOLOGIES INC — Types MK-6-HY or MK-10HB

D1. **Spray-Applied Fire Resistive Material* —** Steel floor units and structural steel support to be sprayed with the min thickness of material specified in the individual D700 or D900 Series Design. The flutes of the steel floor units are to be filled with material across the entire top flange of the steel beam. **Additional material shall be applied to the web of the steel beam on each side of the wall. For a 1 hr Assembly Rating, the total thickness of material applied to each side of the steel beam web shall be min 11/16 in. (18 mm). For a 2 hr Assembly Rating, the total thickness of material applied to each side of the steel beam web shall be min 1-1/2 in. (38 mm).**
ISOLATEK INTERNATIONAL — Type 300, Type 400

2. **Wall Assembly* —** The 1 or 2 h fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Steel Floor and Ceiling Runners —** Floor and ceiling runners of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2B). Flange height of ceiling runner shall be min 1/4 in. (6 mm) greater than max extended joint width. Ceiling runner centered beneath and parallel with steel beam (Item 1C). Ceiling runner secured to steel beam through spray-applied fire resistive material with steel fasteners spaced max 24 in. (610 mm) OC.

A1. **Light Gauge Framing* —** Slotted Ceiling Runner As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Slotted ceiling runner centered beneath and parallel with steel beam (Item 1C). Slotted ceiling runner secured to steel beam with steel fasteners, steel fasteners or welds spaced max 24 in. (610 mm) OC.
CEMCO, LLC — CST, CST325

CLARKDIETRICH BUILDING SYSTEMS — Type SLT, SLT-H

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Type SLT

RAM SALES L L C — RAM Slotted Track

SCAFCO STEEL STUD MANUFACTURING CO

TELLING INDUSTRIES L L C — True-Action Deflection Track

A2. **Light Gauge Framing* —** Vertical Deflection Ceiling Runner As an alternate to the ceiling runners in Item 2A and 2A1, vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips, provided with step bushings, for permanent fastening of steel studs. Flanges sized to accommodate steel studs (Item 2B). Vertical deflection ceiling runner centered beneath and parallel with steel beam (Item 1C). Vertical Deflection ceiling runner secured to steel beam with steel fasteners, steel fasteners or welds spaced max 24 in. (610 mm) OC.

A3. **Light Gauge Framing*- Notched Ceiling Runner —** As an alternate to the ceiling runners in Items 2A through 2A2, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2B). Notched ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC.
OLMAR SUPPLY INC — Type SCR

A4. **Light Gauge Framing* — Slotted Ceiling Runner —** As an alternate to the ceiling runner in Item 2A through 2A3, ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Flange height of slotted ceiling runner shall be 3-1/4 in. (83 mm) with 2 in. (51 mm) deep slots. Slotted ceiling runner centered beneath and parallel with steel beam (Item 1C). Slotted ceiling runner secured to steel beam with steel fasteners or welds spaced max 24 in. (610 mm) OC.
SCAFCO STEEL STUD MANUFACTURING CO — Slotted Track-Type SDLT

B. **Studs —** Steel studs to be min 3-1/2 in. (89 mm) wide. Studs cut 3/4 in. to 1-1/4 in. (19 to 32 mm) less in length than assembly height with bottom nesting in, resting on and fastened to the floor runner and with top nesting in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. When vertical deflection runner (Item 2A2) is used, studs secured to vertical clip through slip bushing, supplied, with No.8 by 1/2 in. (13 mm) steel screws at mid-height of slot of each slot. Stud spacing not to exceed 24 in. (610 mm) OC. When slotted ceiling runner (Item 2A4) is used, steel studs cut in lengths 3/4 to 1-3/4 in. (19 to 44 mm) less than floor to ceiling height and secured to slotted ceiling runner with No. 8 by 1/2 (13 mm) long wafer head steel screws at +/- 3/16 in. (5 mm) of the mid-height of slot on each side of wall.

C. **Gypsum Board* —** 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, number of layers an sheet orientation shall be as specified in the individual U400 or V400 Series Design in the Fire Resistance Directory, except that a max 1-1/2 in. (38 mm) gap shall be maintained between top edge of the gypsum board and the spray applied fire resistive material on the structural steel support. The top row of screws shall be installed into the studs 1-1/2 in. (38 mm) below the bottom of the ceiling runner.

D. **Steel Attachment Clips —** (Optional - Not Shown) - As an alternate to steel fasteners, ceiling runner secured to steel beam with Z-shaped clips formed from min 1 in. (25 mm) long strips of min 20 ga galv steel. Length of clips should not exceed the width (thickness) of the wall. Clips to be sized to extend through the thickness of the spray-applied fire-resistive material on the bottom flange of the steel beam with 1-1/2 or 2 in. (38 or 51 mm) long upper and lower legs. Legs of clips fastened to bottom of beam (prior to application of spray-applied fire-resistive materials) and top of ceiling runner with steel fasteners or welds. Clips spaced max 24in. (610 mm) OC.
The hourly ratings of the joint system are dependent on the hourly rating of the wall.

3. **Joint System — Max separation between bottom of spray-applied fire resistive material on beam and top of gypsum board at time of installation is 1-1/2 in. (38 mm). The joint system is designed to accommodate a max 50 percent compression or extension from its installed width.** The joint system consists of a forming material and a fill material between the top of the gypsum board and the bottom of the spray-applied fire resistive material on the beam, as follows:

A. **Forming Material* —** Nominal 4 pcf (64 kg/m^3) mineral wool forming material cut into strips to fill the gap between top of the gypsum board and bottom of beam. Width of the strips shall be equal to the total thickness of the gypsum board. The strips of mineral wool shall be compressed 50 percent in thickness and firmly packed into the gap between the top of gypsum board and bottom of beam.

ROCK WOOL MANUFACTURING CO — Delta Board

ROCKWOOL — SAFE

THERMAFIBER/OWENS CORNING — Type SAF

A1. **Forming Material* - Strips —** (Optional) - Nom 5/8 in. (16 mm) and 1-1/4 in. (32 mm) wide by 2 in. (51 mm) high precut mineral wool strips for 1 and 2 hr rated assemblies respectively. The strips are compressed 50 percent and firmly packed, cut edge first, into the gap between the top of the gypsum board and bottom of the steel floor units on both sides of the wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 767 Speed Strips

B. **Fill, Void or Cavity Material* —** Min 1/16 in. (1.6 mm) dry thickness (min 1/8 in. or 3.2 mm wet thickness) of fill material sprayed or troweled on each side of wall to completely cover mineral wool forming material and to overlap 1/2 in. (13 mm) onto gypsum board and 2 in. (51 mm) onto spray-applied fire resistive material on the structural steel support.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP672 Firestop Spray or CFS-SP WB Firestop Joint Spray

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2023-06-26

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHBN - Joint Systems

See General Information for Joint Systems

System No. HW-D-0299

October 21, 2015

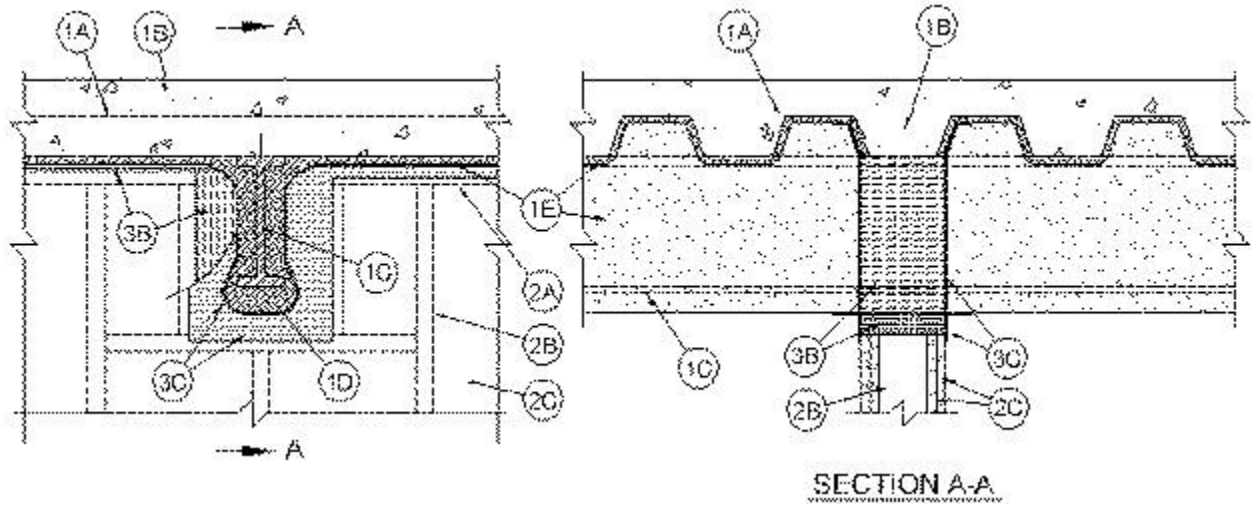
Assembly Ratings — 1 and 2 Hr (See Item 2)

Nominal Joint Width — 1 and 2 In. (See Item 3)

Class II Movement Capabilities — 25% Compression or Extension

L Rating At Ambient - Less Than 1 CFM/Lin Ft

L Rating At 400 F - Less Than 1 CFM/Lin Ft



1. **Floor Assembly —** The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D900 or D700 Series Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Steel Floor and Floor Units* —** Max 3 in. (76 mm) deep galv steel fluted floor units.

B. **Concrete —** Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

C. **Structural Steel Support —** (Optional) - Steel beam or open-web steel joist, as specified in the individual D700 Series Floor-Ceiling Design, used to support steel floor units. Structural steel support oriented perpendicular to wall assembly. Where open-web steel joists pass through the fire rated wall, 3/8 in. (10 mm) diamond mesh expanded steel lath having a nom weight of 1.7 to 3.4 lb per sq yd (0.92-1.84 kg/m^2) shall be secured to one side of each joist with steel tie wire and the lath shall be fully covered with spray-applied fire resistive material with no min thickness requirement.

D. **Spray-Applied Fire Resistive Material* —** After installation of the ceiling runner (Item 2A) or deflection channel (Item 3A, if used), steel floor units and structural steel supports to be sprayed in accordance with the specifications in the individual D700 Series Design. For D900 Series Designs structural steel supports only to be sprayed in accordance with the specifications in the individual D900 Series Design.
ISOLATEK INTERNATIONAL — Type 300

GCP APPLIED TECHNOLOGIES INC — Type MK-6/HY, MK-6/HY ES, MK-6S and RG

1A. **Roof Assembly (Not Shown) —** As an alternate to the floor assembly, a fire-rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 or P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction details:

A. **Steel Roof Deck —** Max 3 in. (76 mm) deep galv steel fluted roof deck.

B. **Roof Insulation —** For P900 Series Designs, min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the roof deck. For P700 Series Designs, as specified in the individual P700 Series Design.

C. **Spray - Applied Fire Resistive Materials* —** Prior to the installation of the Forming Material and Fill, Void or Cavity Material (Items 3B and 3C, respectively), the steel roof deck shall be sprayed with the thickness of material specified in the individual P700 Series Design. For P900 Series Designs structural steel supports only to be sprayed in accordance with the specifications in the individual P900 Series Design.
ISOLATEK INTERNATIONAL — Type 300

GCP APPLIED TECHNOLOGIES INC — Type MK-6/HY, MK-6/HY ES, MK-6S and RG

2. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Steel Floor and Ceiling Runners —** Floor and ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2B). Ceiling runner to be provided with min 2 in. (51 mm) to max 3 in. (76 mm) flanges. When deflection channel (Item 3A) is used, the ceiling runner is to nest within the deflection channel with a 1/2 in. (13 mm) to 1 in. (25 mm) gap maintained between the top of the ceiling runner and the top of the deflection channel. When deflection channel is not used, ceiling runner to be provided with min 2 in. (51 mm) flanges and secured to steel floor units (Item 1A) with steel fasteners or welds spaced max 24 in. (610 mm) OC. Ceiling runner to be centered beneath and parallel with valley of steel floor unit or roof deck. A clearance of 1 in. (25 mm) shall be maintained between the end of the ceiling runner or deflection channel and the spray applied fire resistive material on the structural steel support members.

A1. **Light Gauge Framing* - Slotted Ceiling Runner —** As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Slotted ceiling runner installed parallel to direction of fluted steel floor units and secured to valleys with steel fasteners spaced max 24 in. (610 mm) OC. When slotted ceiling runner is used, deflection channel (Item 3A) shall not be used.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Type SLT

A2. **Light Gauge Framing* - Clipped Ceiling Runner —** As an alternate to the ceiling runner in Items 2A and 2A1, clipped runner to consist of galv steel channel with clips preformed in track flanges which positively engage the inside flange of the steel studs (Item 2B). Track sized to accommodate steel studs (Item 2B). Track flanges to be min 2-1/2 in. (64 mm). Clipped ceiling runner installed parallel to direction of fluted steel floor units and secured to valleys with steel fasteners spaced max 24 in. (610 mm) OC. When clipped ceiling runner is used, deflection channel (Item 3A) shall not be used.
TOTAL STEEL SOLUTIONS L L C — Snap Trak

A3. **Light Gauge Framing* - Vertical Deflection Ceiling Runner —** As an alternate to the ceiling runner in Items 2A, 2A1 or 2A2, vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips, provided with step bushings, for permanent fastening of steel studs. Vertical deflection ceiling runner installed parallel to direction of fluted steel floor or roof deck and secured to valleys with steel fasteners spaced max 24 in. (610 mm) OC. When slotted ceiling runner is used, deflection channel (Item 3A) shall not be used.
THE STEEL NETWORK INC — VertiTrack VTD250, VTD362, VTD400, VTD600 and VTD800

B. **Studs —** Steel studs to be min 3-1/2 in. (89 mm) wide. Studs cut 1/2 in. (13 mm) to 3/4 in. (19 mm) less in length than assembly height with bottom nesting in and secured to floor runner. When deflection channel (Item 3A) is used, steel studs attached to ceiling runner (Item 2A) with sheet metal screws located 1/2 in. (13 mm) below the bottom of the deflection channel. When deflection channel is not used, studs to nest in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. When vertical deflection ceiling runner (Item 2A3) is used, steel studs secured to slotted vertical deflection clips, through bushings, with steel screws at midheight of each slot. A framed opening shall be constructed around each structural steel support member. A min clearance of 1 in. (25 mm) to a max clearance of 3 in. (76 mm) shall be maintained between the framing and the spray applied fire resistive material on the two sides of the structural support member. The clearance between the framing and the spray applied fire resistive material on the bottom of the structural steel support member shall be max 1 in. (25 mm).

C. **Gypsum Board* —** Gypsum board sheets installed to a min total 5/8 in. (16 mm) or 1-1/4 in. (32 mm) thickness on each side of wall for 1 and 2 hr fire rated assemblies, respectively. Wall to be constructed as specified in the individual U400 Series Design in the UL Fire Resistance Directory, except that a max 1 in. (25 mm) gap shall be maintained between the top of the gypsum board and the spray applied fire resistive material on the steel floor units and between the top edge of the gypsum board and the spray applied fire resistive material on the structural steel support member. For D900 and P900 Series Designs, max separation between bottom of the steel floor units or roof deck and top of gypsum board (at time of installation of joint system) is 2 in. (51 mm). For D700 and P700 Series Designs, max separation between bottom of the spray applied fire resistive material on the steel floor units or roof deck and top of gypsum board (at time of installation of joint system) is 1 in. (25 mm). The screws attaching the gypsum board to studs at the top of the wall shall be located 1 in. (25 mm) below the bottom of the deflection channel, when deflection channel is used. When deflection channel is not used, the screws attaching the gypsum board to studs at the top of the wall shall be located 1 in. (25 mm) below the bottom of the ceiling runner.
The hourly fire rating of the joint system is equal to the hourly fire rating of the wall.

3. **Joint System — Max separation between spray applied fire resistive material on bottom of structural support member and framed opening in top of wall is 1 in. (25 mm). For D700 and P700 series Designs, max separation between bottom of the spray applied fire resistive material on the steel floor units or roof deck and top of gypsum**

board (at time of installation of joint system) is 1 in. (25 mm). For D900 and P900 Series Designs, max separation between bottom of steel floor units or roof deck and top of gypsum board (at time of installation of joint system) is 2 in. (51 mm). The joint system is designed to accommodate a max 25 percent compression or extension from it's installed width as measured between the spray applied fire resistive material on the steel floor units or roof deck and the top of the gypsum board. The joint system shall consist of forming and fill materials, with or without a deflection channel (Item 3A), as follows:

A. **Deflection Channel —** (Optional, Not Shown) - Min 24 gauge galv steel channel, 3 in. (76 mm) deep, sized to accommodate ceiling runner (Item 2A). Deflection channel to be centered beneath and parallel with valley of steel floor unit and secured to steel floor unit or roof deck with steel fasteners or welds spaced max 24 in. (610 mm) OC. The ceiling runner (Item 2A) is installed within the deflection channel to maintain a 1/2 in. (13 mm) to 1 in. (25 mm) gap between the top of the ceiling runner and the top of the deflection channel. A clearance of 1 in. (25 mm) shall be maintained between the end of the deflection channel and the spray applied fire resistive material on the structural steel support members. The ceiling runner nests inside the deflection channel without attachment.

B. **Forming Material* —** Nom 4 pcf (64 kg/m^3) mineral wool batt insulation cut to a length approx the same as the overall thickness of wall and inserted cut edge first into the spaces between the spray-applied fire resistive material on the structural steel member and the framed notch at the top of the wall, flush with the gypsum board surface on both sides of the wall. The thickness of forming material shall be sufficient to attain a min compression of 33 percent between the sides of the framed notch and the protected structural steel member and a min compression of 50 percent between the bottom of the framed notch and the bottom of the protected structural steel member. Additional sections of mineral wool batt insulation are compressed 50 percent in thickness and are installed cut edge first to completely fill the gap above the top of the gypsum board, flush with both surfaces of wall.
INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Safing

JOHNS MANVILLE — Safing

ROCK WOOL MANUFACTURING CO — Delta Safing Board

ROCKWOOL MALAYSIA SDN BHD — SAFE

ROCKWOOL — SAFE

THERMAFIBER/OWENS CORNING — SAF

C. **Fill, Void or Cavity Material* - Sealant —** Min 1/8 in. (3.2 mm) wet thickness or 1/16 in. (1.6 mm) dry wet thickness of fill material sprayed or brushed over the forming material on each side of the wall. Fill material to overlap a min of 1 in. (25 mm) onto the gypsum board and a min 2 in. (51 mm) onto the spray applied material (Item 1D) on the steel floor unit or roof deck and on the structural steel support member on both sides of wall.
RECTORSEAL — FlameSafe FS3000, Metacaulk 1200, 1500 or Biostop 750, 800 Spray

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2015-10-21

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHBN - Joint Systems

XHBN7 - Joint Systems Certified for Canada

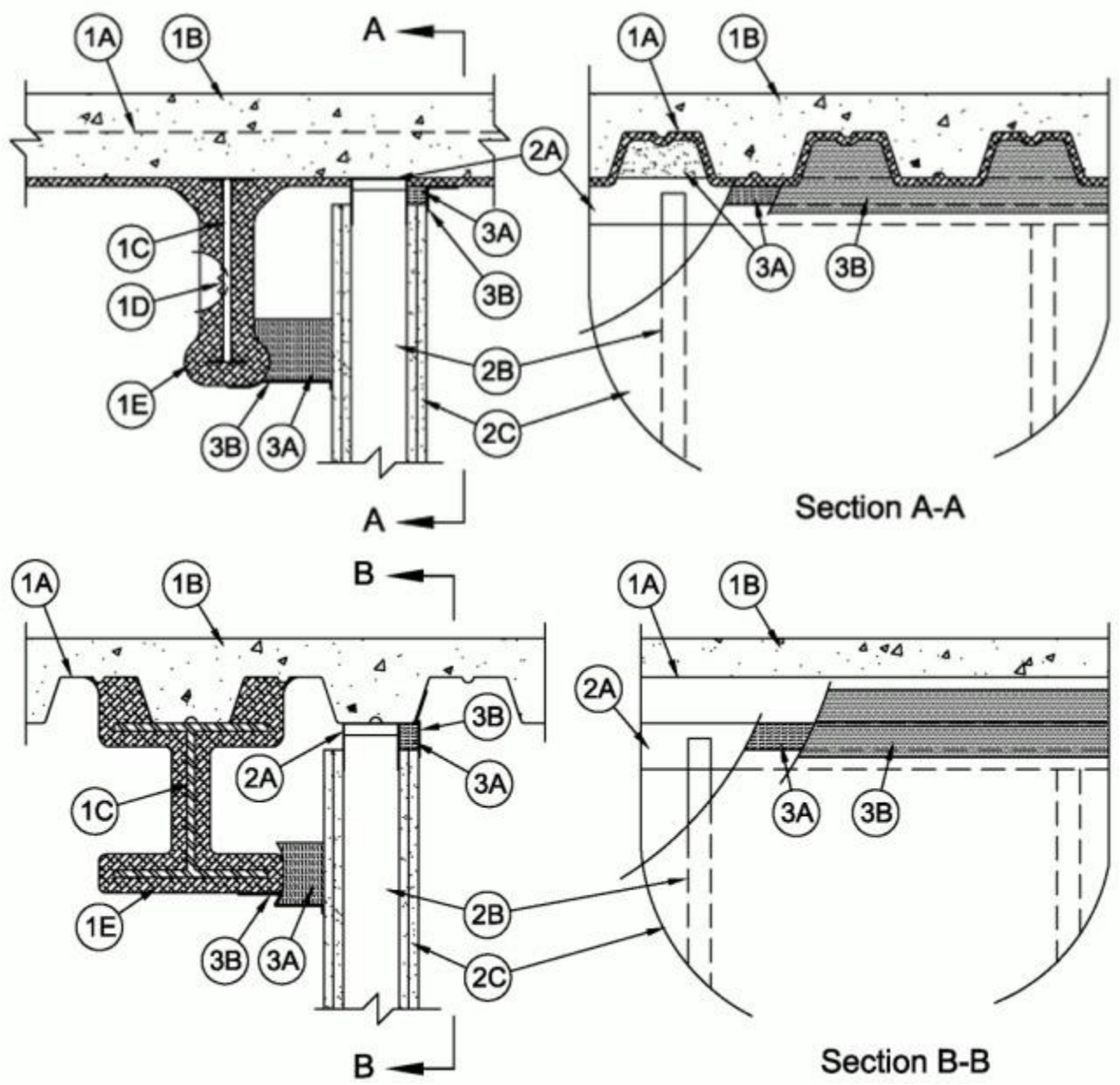
See General Information for Joint Systems

See General Information for Joint Systems Certified for Canada

System No. HW-D-0388

September, 05 2024

ANSI/UL2079	CAN/ULC S115
Assembly Ratings — 1 and 2 Hr (See Item 2)	F Ratings — 1 and 2 Hr (See Item 2)
Nominal Joint Width - 1-1/2 In.	FT Ratings — 1 and 2 Hr (See Item 2)
Class II Movement Capabilities — 50% Compression or Extension	FH Ratings — 1 and 2 Hr (See Item 2)
L Rating At Ambient — Less Than 1 CFM/lin ft	FTH Ratings — 1 and 2 Hr (See Item 2)
L Rating At 400 F — Less Than 1 CFM/lin ft	Nominal Joint Width - 1-1/2 In.
	Class II Movement Capabilities — 50% Compression or Extension
	L Rating At Ambient — Less Than 1 CFM/lin ft
	L Rating At 400 F — Less Than 1 CFM/lin ft



1. **Floor Assembly —** The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 or D900 Series Floor-Ceiling Design in the UL Fire Resistance Directory. The hourly fire rating of the floor assembly shall be equal to or greater than the hourly fire rating of the wall assembly. The floor assembly shall include the following construction features:

A. **Steel Floor and Floor Units* —** Max 3 in. (76 mm) deep galv steel fluted floor units.

B. **Concrete —** Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

C. **Structural Steel Support —** Steel beam or open-web steel joist, as specified in the individual D700 or D900 Series Floor-Ceiling Design, used to support steel floor units. Structural steel support oriented parallel to and 1 to 6 in. (25 to 152 mm) from wall assembly.

D. **Steel Lath —** When structural steel support (Item 1C) consists of open-web steel joists, 3/8 in. (10 mm) diamond mesh expanded steel lath having a nom weight of 1.7 to 3.4 lb per sq yd (0.9 to 1.8 kg/m^2) shall be installed to completely cover one side of each joist which is located within 6 in. (152 mm) of wall assembly. The lath shall be secured with steel tie wire and shall be fully covered with spray applied fire resistive material.

E. **Spray-Applied Fire Resistive Material* —** After installation of the ceiling runner (Item 2A), steel floor units and structural steel supports to be sprayed with the thickness of material specified in the individual D700 Series Design or the structural steel supports to be sprayed in accordance with the specifications in the individual D900 Series Design. The flutes of the steel floor units above the structural steel supports and above the ceiling runner (Item 2A) shall be filled with spray-applied fire resistive material. As an alternate,

the spray-applied fire resistive material in the flutes above the ceiling runner may be applied to follow the contour of the steel floor units. Excess material shall be removed from the flanges of the ceiling runner beyond the required thickness of spray-applied fire resistive material on the steel floor units.
ISOLATEK INTERNATIONAL — Type 300, Type 400

GCP APPLIED TECHNOLOGIES INC — Type MK-6/HY, MK-6/HY ES, MK-6s, RG, MK-10HB

1A. **Roof Assembly —** (Not Shown) — As an alternate to the floor assembly (Item 1), a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 or P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly fire rating of the roof assembly shall be equal to or greater than the hourly fire rating of the wall assembly. The roof assembly shall include the following construction features:
A. **Steel Roof Deck —** Max 3 in. (76 mm) deep galv steel fluted roof deck.

B. **Roof Insulation —** Mineral and Fiber Board* — Min 3/4 in. (19 mm) thick boards applied in one or more layers directly over steel roof deck or over gypsum board sheathing laid atop steel roof deck.

C. **Roof Covering* —** Hot-mopped or cold-application materials compatible with mineral and fiber board insulation.

D. **Structural Steel Support —** Steel beam or open-web steel joist, as specified in the individual P700 or P800 or P900 Series Roof-Ceiling Design, used to support steel deck. Structural steel support oriented parallel to and 1 in. to 6 in. (25 to 152 mm) from wall assembly.

E. **Steel Lath —** When structural steel support (Item 1D) consists of open-web steel joists, 3/8 in. (10 mm) diamond mesh expanded steel lath having a nom weight of 1.7 to 3.4 lb per sq yd (0.9 to 1.8 kg/m^2) shall be installed to completely cover one side of each joist which is located within 6 in. (152 mm) of wall assembly. The lath shall be secured with steel tie wire and shall be fully covered with spray applied fire resistive material.

F. **Spray-Applied Fire Resistive Material* —** After installation of the ceiling runner (Item 2A), steel roof deck (P700 Series Roof-Ceiling design) and structural steel supports to be sprayed with a thickness of spray applied fire resistive material as specified in the individual Roof-Ceiling design. In addition, the flutes of the steel deck above the structural steel supports and above the ceiling runner (Item 2A) shall be filled with spray-applied fire resistive material. As an alternate, the spray-applied fire resistive material in the flutes above the ceiling runner may be applied to follow the contour of the steel roof deck. Excess material shall be removed from the flanges of the ceiling runner beyond the required thickness of spray-applied fire resistive material on the steel roof deck.
ISOLATEK INTERNATIONAL — Type 300, Type 400

GCP APPLIED TECHNOLOGIES INC — Type MK-6/HY, MK-6/HY ES, MK-6s, RG, MK-10HB

2. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
A. **Steel Floor and Ceiling Runners —** Floor and ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2B). Flange height of ceiling runner to be 3/4 in. (19 mm) greater than max extended joint width. Ceiling runner is secured to steel floor units (Item 1A) with steel fasteners or welds spaced max 24 in. (610 mm) OC. Ceiling runner to be installed parallel with structural steel support and located such that a max clearance of 4 in. (102 mm) is present between the finished wall and the spray-applied fire resistive material at the lowest elevation of the structural steel support.

A1. **Light Gauge Framing* — Slotted Ceiling Runner —** As an alternate to the ceiling runner in Item 2A, ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Ceiling runner secured to valleys with steel fasteners spaced max 24 in. (610 mm) OC.
CEMCO, LLC — CST, CST325

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Type SLT

A2. **Light Gauge Framing* — Clipped Ceiling Runner —** As an alternate to the ceiling runner in Items 2A and 2A1, clipped runner to consist of galv steel channel with clips preformed in track flanges which positively engage the inside flange of the steel studs (Item 2B). Track sized to accommodate steel studs (Item 2B). Track flanges to be min 2-1/2 in. (64 mm). Clipped ceiling runner secured with steel fasteners spaced max 24 in. (610 mm) OC.
TOTAL STEEL SOLUTIONS L L C — Snap Trak

A3. **Light Gauge Framing*- Notched Ceiling Runner —** As an alternate to the ceiling runners in Items 2A through 2A2, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2B). Notched ceiling runner secured to valleys with steel masonry anchors spaced max 24 in. (610 mm) OC.
OLMAR SUPPLY INC — Type SCR

A4. **Light Gauge Framing* — Slotted Ceiling Runner —** As an alternate to the ceiling runner in Item 2A, ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Flange height of slotted ceiling runner shall be 3-1/4 in. (83 mm) with 2 in. (51 mm) deep slots. Ceiling runner secured to valleys with steel fasteners or welds spaced max 24 in. (610 mm) OC.
SCAFCO STEEL STUD MANUFACTURING CO — Slotted Track-Type SDLT

B. **Studs —** Steel studs to be min 3-1/2 in. (89 mm) wide. Studs cut 3/4 in. to 1 in. (19 to 25 mm) less in length than assembly height with bottom nesting in and secured to floor runner. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 (13 mm) long wafer head steel screws at mid-height of slot on each side of wall. When slotted ceiling runner (Item 2A4) is used, steel studs cut in lengths 3/4 to 1-3/4 in. (19 to 44 mm) less than floor to ceiling height and secured to slotted ceiling runner with No. 8 by 1/2 (13 mm) long wafer head steel screws at +/- 3/16 in. (5 mm) of the mid-height of slot on each side of wall.

C. **Gypsum Board* —** Gypsum board sheets installed to a min total 5/8 in. (16 mm) or 1-1/4 in. (32 mm) thickness on each side of wall for 1 and 2 hr fire rated assemblies, respectively. Wall to be constructed as specified in the individual U400, V400 or W400 Series Design in the UL Fire Resistance Directory except that a max 1-1/2 in. (38 mm) gap shall be maintained between the top of the gypsum board and the bottom plane of the spray applied fire resistive material on the steel deck when D700 series assembly is used or between the top of gypsum board and the steel floor units when D900 series assembly is used, on both sides of the wall assembly. The screws attaching the gypsum board to the studs along the top of the wall shall be located 1 to 1-1/2 in. (25 to 38 mm) below the bottom of the ceiling runner. No gypsum board attachment screws shall be driven into the ceiling runner. Where the top of the wall assembly is inaccessible above the lowest elevation of the structural steel support, the gypsum board attachment screws may be omitted.

The hourly fire rating of the joint system is equal to the hourly fire rating of the wall.

3. **Joint System — Max separation between bottom of the spray applied fire resistive material on the steel floor units and top of gypsum board (at time of installation of joint system) is 1-1/2 in. (38 mm) when D700 series assembly is used. Max separation between bottom of the steel floor units and top of gypsum board (at time of installation of joint system) is 1-1/2 in. (38 mm) when D900 series assembly is used. Max separation between spray applied fire resistive material on structural support member and surface of wall is 4 in. (102 mm).** The joint system is designed to accommodate a max 50 percent compression or extension from its installed width as measured between the bottom plane of the steel floor units or spray-applied fire resistive material on the steel floor units and the top of the gypsum board. The joint system shall consist of forming and fill materials, as follows:
A. **Forming Material* —** Nom 4 pcf (64 kg/m^3) density mineral wool batt insulation. Sections of mineral wool batt cut to a width of 4 in. (102 mm) and stacked to attain a thickness which is 50 percent greater than the width of the linear gap between the spray applied fire resistive material on the structural steel member and the surface of the wall assembly. Stacked sections of mineral wool compressed 33 percent in thickness and installed cut edge first into linear gap until the bottom edge is flush with or extend max 1-1/2 in. (38 mm) below the bottom surface of the spray applied fire resistive material on the structural steel member. When the spray-applied fire resistive material in the flutes above the wall follows the contour of the steel deck, sections of mineral wool batt cut to the shape of the fluted deck and installed in the flutes of the steel floor or roof deck between the top of the ceiling runner and the spray-applied fire resistive material. The mineral wool batt insulation is to be installed flush with the gypsum board surface on the side of the wall opposite the structural steel support. Additional sections of mineral wool batt insulation are compressed 50 percent in thickness and are installed cut edge first to completely fill the gap above the top of the gypsum board.
INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Safing

JOHNS MANVILLE — Safing

ROCK WOOL MANUFACTURING CO — Delta Board

ROCKWOOL MALAYSIA SDN BHD — SAFE

ROCKWOOL — SAFE

THERMAFIBER/OWENS CORNING — Type SAF

A1. **Forming Material* — Plugs —** (Optional, Not Shown) - Preformed mineral wool plugs, formed to the shape of the fluted deck, friction fit to completely fill the flutes. The plugs shall be flush with both wall surfaces. Additional forming material, described in Item 3A, to be used in conjunction with the plugs to fill the gap between the top of the wall and bottom of steel deck.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP777 Speed Plugs

B. **Fill, Void or Cavity Material* — Sealant —** Min 1/8 in. (3.2 mm) wet thickness or 1/16 in. (1.6 mm) dry thickness of fill material spray or brush applied over the forming material on each side of the wall. Fill material to overlap a min of 1/2 in. (13 mm) onto the gypsum board and a min 2 in. (51 mm) onto the steel floor units or spray-applied fire resistive material on the steel floor units and on the structural steel support member.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-SP WB Firestop Joint Spray

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2024-09-05

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHBN - Joint Systems

XHBN7 - Joint Systems Certified for Canada

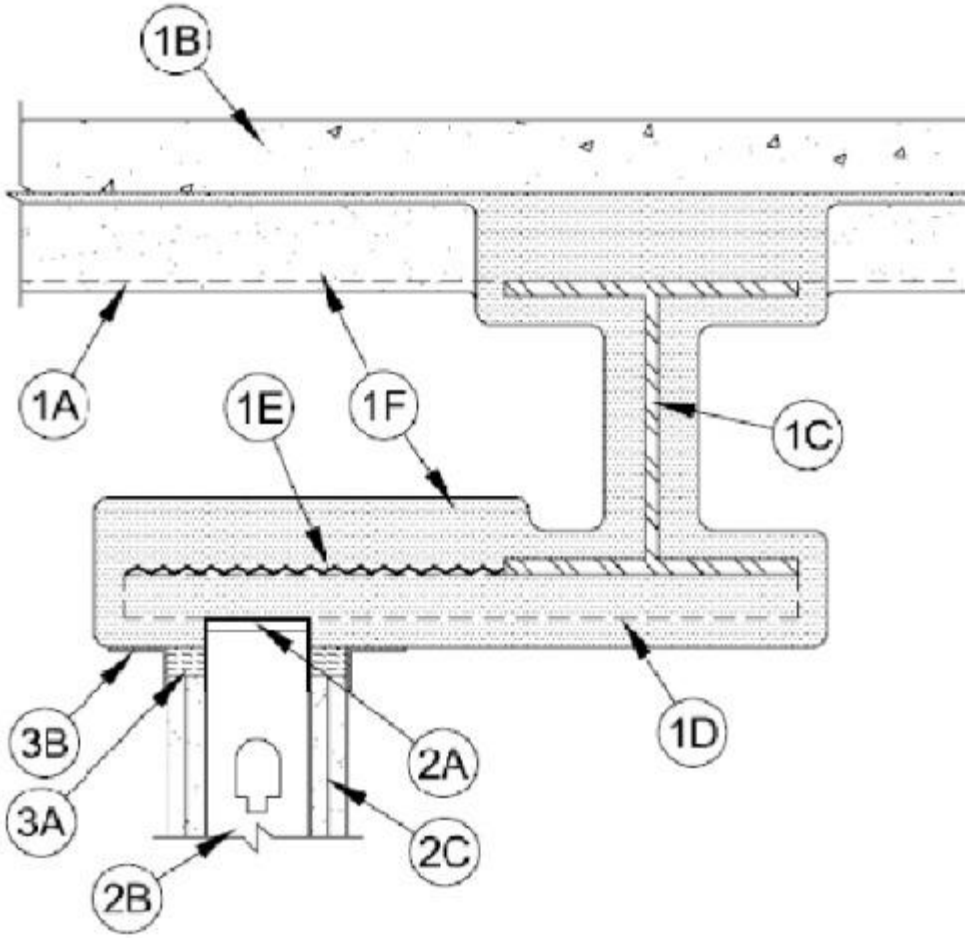
See General Information for Joint Systems

See General Information for Joint Systems Certified for Canada

System No. HW-D-0634

June 22, 2023

ANSI/UL2079	CAN/ULC S115
Assembly Rating — 1 and 2 Hr (See Items 1 and 2)	F Rating — 1 and 2 Hr (See Items 1 and 2)
Nominal Joint Width — 1-1/2 In.	FT Rating — 1 and 2 Hr (See Items 1 and 2)
Class II or III Movement Capabilities — 50% Compression or Extension	FH Rating — 1 and 2 Hr (See Items 1 and 2)
L Rating At Ambient — Less Than 1 CFM/sq ft	FTH Rating — 1 and 2 Hr (See Items 1 and 2)
L Rating At 400 F — Less Than 1 CFM/sq ft	Nominal Joint Width — 1-1/2 In.
	Class II or III Movement Capabilities — 50% Compression or Extension
	L Rating At Ambient — Less Than 1 CFM/sq ft
	L Rating At 400 F — Less Than 1 CFM/sq ft



1. **Floor Assembly —** The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 or D900 Series Floor-Ceiling Design in the UL Fire Resistance Directory and as noted below. The hourly fire rating of the floor assembly shall be equal to or greater than the hourly fire rating of the wall assembly. The floor assembly shall include the following construction features:

A. **Steel Floor and Floor Units* —** Max 3 in. (76 mm) deep galv steel fluted floor units.

B. **Concrete —** Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

C. **Structural Steel Support —** Steel beam, as specified in the individual D700 or D900 Series Floor-Ceiling Design, used to support steel floor units. Structural steel support oriented parallel to and max 12 in. (305 mm) from wall assembly.

D. **Steel Furring —** Z-shaped bars or channels, located to span from steel beam to min 1 in. (25 mm) beyond face of wall and spaced max 24 in. (610 mm) on center. Z-shaped bars are nom 1-1/2 to 2 in. (38 to 51 mm) deep and formed from min 16 gauge painted or galvanized steel. Channels are nom 1-1/2 in. (38 mm) or 2 in. (51 mm) deep and formed from min 16 gauge painted or galvanized steel. Each bar or channel welded or fastened with steel fasteners to steel beam and welded, bolted or screwed to ceiling runner of wall. Each bar or channel shall be fully covered with spray applied fire resistive material to the minimum thickness of material required on the flanges of the steel beam.

E. **Steel Lath —** Nom 3/8 in. (10 mm) diamond mesh expanded steel rib lath having a nom weight of 3.4 lb/yd^2 (1.8 kg/m^2) shall be installed over and attached to the steel furring bars or channels (Item 1D) to completely cover the exposed area from the flange tip of the steel beam to the end of the bar/channel framing extending beyond the wall surface. The lath shall be secured with steel fasteners or tie wire and shall be fully covered with spray applied fire resistive material (see Item 1F).

F. **Spray-Applied Fire Resistive Material* —** After installation of ceiling runner, steel floor units (as applicable) and structural steel beam to be sprayed with the thickness of material specified in the individual D700 or D900 Series Design. The flutes of the steel floor units above the structural steel beam shall be filled with spray-applied fire resistive material across the entire top flange of the steel beam. Each bar or channel furring member (Item 1D) shall be fully covered with spray applied fire resistive material to the minimum thickness of material required on the flanges of the steel beam. The thickness of material applied to the expanded steel lath shall be

sufficient to completely fill the spaces between the bar/channel furring above the wall. Additional spray-applied fire resistive material shall be applied to the web of the steel beam on each side of the wall. **For a 1 hr Assembly Rating, the thickness of material applied to each side of the steel beam web shall be 13/16 in. (21 mm). For a 2 hr Assembly Rating, the thickness of material applied to each side of the steel beam web shall be 1-3/8 in. (35 mm). In addition, the thickness of material applied to the expanded steel lath shall cover the top surface of the lath with a minimum 1-5/8 in. (41 mm) of material for the 1 hr Assembly Rating and 2-5/8 in. (67 mm) of material for the 2 hr Assembly Rating.** For D700 floors, the remainder of the steel floor units shall be sprayed as specified in the individual D700 design.
GCP APPLIED TECHNOLOGIES INC — Type MK-6/HY, MK-6/HY ES, MK-6s, RG, MK-10HB

F1. **Spray-Applied Fire Resistive Material* —** After installation of ceiling runner, steel floor units (as applicable) and structural steel support to be sprayed with the min thickness of material specified in the individual D700 or D900 Series Design. The flutes of the steel floor units above the structural steel beam shall be filled with spray-applied fire resistive material across the entire top flange of the steel beam. Each bar or channel furring member (Item 1D) shall be fully covered with spray applied fire resistive material to the minimum thickness of material required on the flanges of the steel beam. The thickness of material applied to the expanded steel lath shall be sufficient to completely fill the spaces between the bar/channel furring above the wall. **Additional material shall be applied to the web of the steel beam on each side of the wall. For a 1 hr Assembly Rating, the thickness of material applied to each side of the steel beam web shall be 11/16 in. (18 mm). For a 2 hr Assembly Rating, the thickness of material applied to each side of the steel beam web shall be 1-1/2 in. (38 mm). In addition, the thickness of material applied to the expanded steel lath shall cover the top surface of the lath with a minimum 1-5/8 in. (41 mm) of material for the 1 hr Assembly Rating and 2-5/8 in. (67 mm) of material for the 2 hr Assembly Rating.** For D700 floors, the remainder of the steel floor units shall be sprayed as specified in the individual D700 design.
ISOLATEK INTERNATIONAL — Type 300, Type 400

2. **Wall Assembly —** The 1 or 2 hr fire rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
A. **Steel Floor and Ceiling Runners —** Floor and ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2B). Flange height of ceiling runner shall be min 1/4 in. greater than max extended joint width. Ceiling runner is secured to steel furring (Item 1D) with steel fasteners or welds spaced max 24 in. (610 mm) OC. Ceiling runner to be installed parallel with structural steel support and located such that a max clearance of 12 in. (305 mm) is present between the finished wall and the flange of the steel beam (Item 1C).

A1. **Light Gauge Framing* — Slotted Ceiling Runner —** As an alternate to the ceiling runner in Item 2A, ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Flange height of slotted ceiling runner shall be 3-1/4 in. (83 mm) with 2 in. (51 mm) deep slots. Slotted ceiling runner is secured to steel furring (Item 1D) with steel fasteners or welds spaced max 24 in. (610 mm) OC. Slotted ceiling runner to be installed parallel with structural steel support and located such that a max clearance of 12 in. (305 mm) is present between the finished wall and the flange of the steel beam (Item 1C).
SCAFCO STEEL STUD MANUFACTURING CO — Slotted Track-Type SDLT

A2. **Light Gauge Framing* — Slotted Ceiling Runner —** As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with 3-1/4 in. (83 mm) high slotted flanges sized to accommodate steel studs (Item 2B). Slotted ceiling runner is secured to steel furring (Item 1D) with steel fasteners or welds spaced max 24 in. (610 mm) OC. Slotted ceiling runner to be installed parallel with structural steel support and located such that a max clearance of 12 in. (305 mm) is present between the finished wall and the flange of the steel beam (Item 1C).
CEMCO, LLC — CST 325

B. **Studs —** Steel studs to be min 3-1/2 in. (89 mm) wide. Studs cut 1/2 in. to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in and secured to floor runner. Studs to nest in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs cut in lengths 3/4 to 1-3/4 in. (19 to 44 mm) less than floor to ceiling height and secured to slotted ceiling runner with No. 8 by 1/2 (13 mm) long wafer head steel screws at +/- 3/16 in. (5 mm) of the mid-height of slot on each side of wall

C. **Gypsum Board* —** Gypsum board sheets installed to a min total 5/8 in. (16 mm) or 1-1/4 in. (32 mm) thickness on each side of wall for 1 and 2 hr fire rated assemblies, respectively. Wall to be constructed as specified in the individual U400 or V400 Series Design in the UL Fire Resistance Directory except that a max 1-1/2 in. (38 mm) gap shall be maintained between the top of the gypsum board and the bottom plane of the spray applied fire resistive material on the steel furring (Item 1D) on both sides of the wall assembly.

The hourly fire rating of the joint system is equal to the hourly fire rating of the wall.

3. **Joint System —** Max separation between bottom plane of spray-applied fire resistive material on the steel attachment clip (Item 1D) and the top of the gypsum board is 1-1/2 in. (38 mm). The joint system is designed to accommodate a max 50 percent compression or extension from its installed width. The joint system shall consist of forming and fill materials, as follows:
A. **Forming Material* —** Nom 4 pcf (64 kg/m^3) density mineral wool batt insulation. Sections of mineral wool batt cut to a thickness equal to the overall thickness of gypsum board and compressed a min of 50 percent into the gap between the top of the gypsum board and the bottom plane of the spray applied fire resistive material on the steel furring (Item 1D) on both sides of the wall assembly.
ROCK WOOL MANUFACTURING CO — Delta Board

ROCKWOOL — SAF Mineral Wool

THERMAFIBER/OWENS CORNING — Type SAF

A1. **Forming Material* — Strips —** As an alternate to Item 3A, the strips are stacked to a height twice larger than the distance between the top of the gypsum board and the bottom of the steel floor unit. Strips compressed 50 percent and installed within ceiling runner above top of liner panel flush with the inside surface of the panel. Strips compressed and installed on finished side of the wall between the top of the gypsum board and the bottom of the steel floor units, flush with the surface of the wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 767 Speed Strips

B. **Fill, Void or Cavity Material* — Sealant —** Min 1/16 in. (1.6 mm) dry thickness (1/8 in. or 3.2 mm wet thickness) fill material sprayed or troweled on each side of wall to completely cover mineral wool forming material and to overlap min 1/2 in. (13 mm) onto wall and min 2 in. (51 mm) onto spray-applied fire resistive material.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP672 Firestop Spray or CFS-SP WB Firestop Joint Spray

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2023-06-22

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHBN - Joint Systems

XHBN7 - Joint Systems Certified for Canada

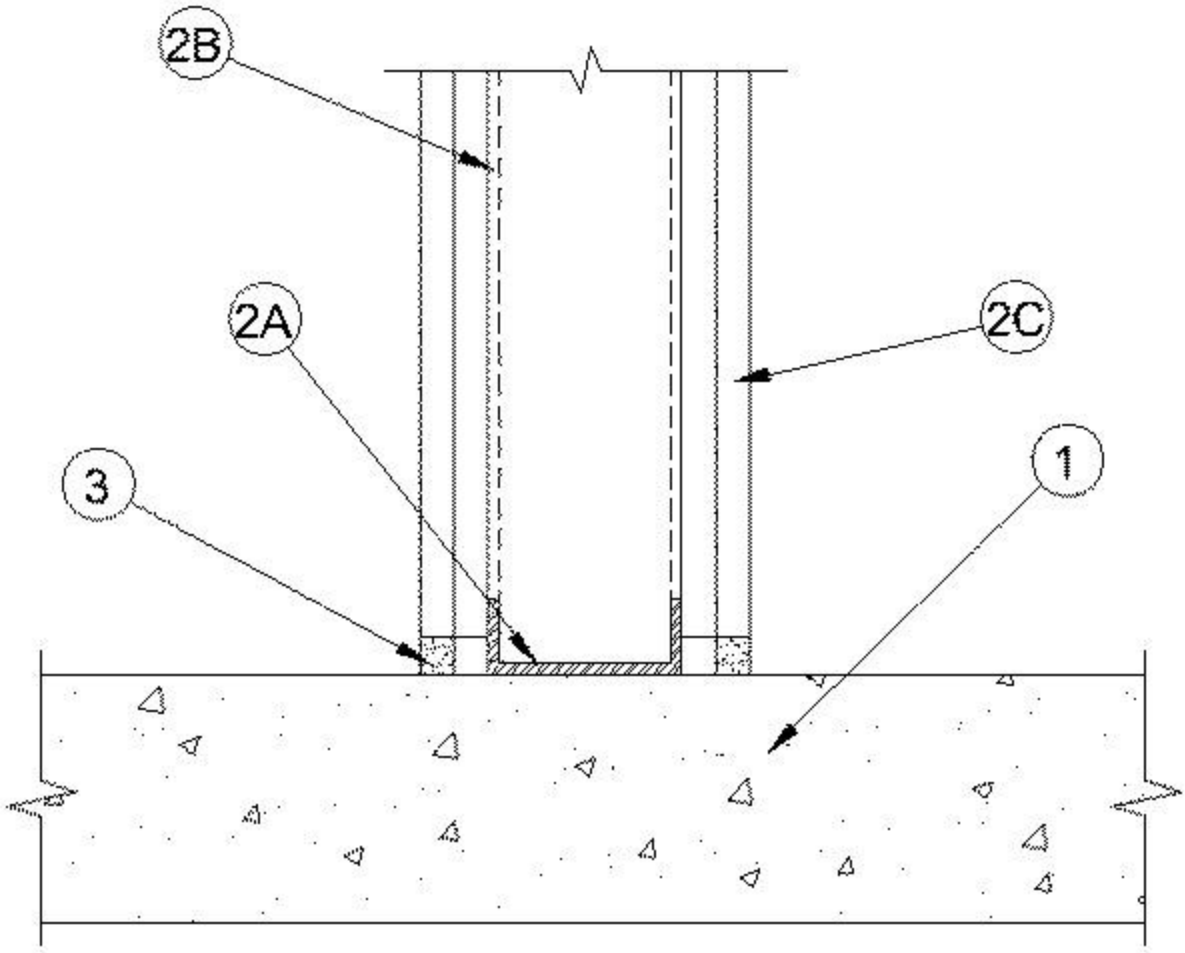
See General Information for Joint Systems

See General Information for Joint Systems Certified for Canada

System No. BW-S-0002

October 7, 2022

ANSI/UL2079	CAN/ULC S115
Assembly Ratings — 1, 2, 3 and 4 Hr (See Item 2)	F Ratings — 1, 2, 3 and 4 Hr (See Item 2)
Nominal Joint Width - 7/8 or 1 In. (See Item 3)	FT Ratings — 1, 2, 3 and 4 Hr (See Item 2)
L Rating at Ambient — Less than 1 CFM/Lin Ft	FH Ratings — 1, 2, 3 and 4 Hr (See Item 2)
L Rating at 400°F — Less than 1 CFM/Lin Ft	FTH Ratings — 1, 2, 3 and 4 Hr (See Item 2)
	Nominal Joint Width - 7/8 and 1 In. (See Item 3)
	L Rating at Ambient — Less than 1.55 L/s/m
	L Rating at 204°C — Less than 1.55 L/s/m



1. **Floor Assembly —** Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) structural concrete. Floor may also be constructed of any 6 in. (152 mm) thick UL Classified hollow-core **Precast Concrete Units***. See **Precast Concrete Units** category in the Fire Resistance Directory for names of manufactures.

1A **—** (Not Shown, Alternate) For 1-hr and 2-hr fire ratings only, The fire-rated fluted steel floor unit/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 or D900 Series Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Steel Floor and Form Units* —**Max 3 in. (76 mm) deep galv steel fluted units.

B. **Concrete —**Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

2. **Wall Assembly —** The 1, 2, 3 or 4 hr fire-rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400, V400 or W400 Series Wall or Partition Design in the UL Fire Resistance Directory. In addition, the wall may incorporate a head-of-wall joint system as specified in the HW Series Joint Systems in the UL Fire Resistance Directory. The wall shall include the following construction features:

A. **Steel Floor Runners —** Floor runners of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2B). Floor runners to be provided with 1-1/4 in. (32 mm) flanges. Runners secured with steel fasteners spaced 12 in. (305 mm) OC.

B. **Studs —** Steel studs to be min 3-1/2 in. (89 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in, resting on and fastened to floor runner with sheet metal screws. Stud spacing not to exceed 24 in. (610 mm) OC.

C. **Gypsum Board* —** One, two, three or four layers of 5/8 in. (16 mm) thick gypsum board for 1, 2, 3 and 4 hr rated assemblies, respectively, Wall to be constructed as specified in the individual U400, V400 or W400 Series Design in the UL Fire Resistance Directory, except that a max 1 in. (25 mm) gap for 1 and 2 hr rated assemblies or a max 7/8 in. gap for 3 and 4 hr rated assemblies shall be maintained between the bottom of gypsum board and top of concrete floor. **The hourly fire rating of the joint system is equal to the hourly fire rating of the wall.**

3. **Fill, Void or Cavity Material* Sealant — Max separation between top of floor and bottom of gypsum board wall sheathing is 1 in. (25 mm) for 1 and 2 hr rated assemblies or 7/8 in. (22 mm) for 3 and 4 hr rated assemblies.** Min 5/8 in. (16 mm) thickness of fill material for 1 and 2 hr rated assemblies, min. 1 in. (25 mm) thickness of fill material for 3 and 4 hr rated assemblies, installed on each side of the wall between the bottom of the gypsum board and the top of the concrete floor, flush with each surface of the wall. For 1 and 2 hr rated assemblies only, and when forming material, (Item 4) is used, the fill material thickness may be reduced to a min. 1/4 in. (6.4 mm).

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 605 Bottom of Wall Firestop Sealant, CP601S Elastomeric Firestop Sealant, CP606 Flexible Firestop Sealant, CFS-S SIL GG or FS-ONE MAX Intumescent Sealant.

4. **Forming Material —** (Optional, Not Shown) - Mineral wool insulation, fiberglass batt insulation or polyurethane/polyethylene foam backer rod. Forming material to be recessed from both surfaces of the 2, 3 and 4 hr fire rated wall to accommodate the required thickness of fill material.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2022-10-07

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

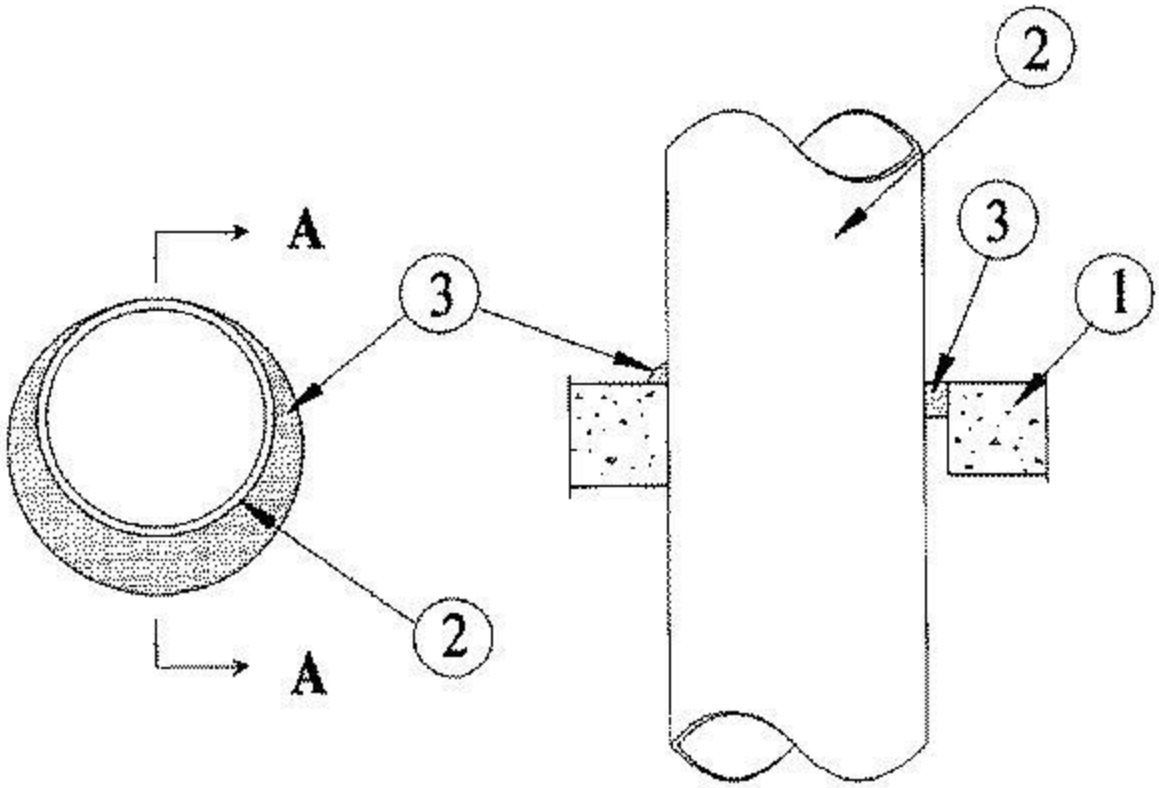
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. C-AJ-1291

January 07, 2015

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 2 Hr
	FTH Rating — 0 Hr



SECTION A-A

1. **Floor or Wall Assembly —** Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks*.** Max diam of opening is 30-7/8 in. (784 mm).
See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Through-Penetrant —** One metallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe or conduit and periphery of opening shall be min 0 in. to max 7/8 in. (22 mm). Pipe or conduit to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or conduits may be used:

A. **Steel Pipe —** Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.

C. **Copper Pipe —** Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

D. **Copper Tubing —** Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

E. **Conduit —** Nom 6 in. (152 mm) diam (or smaller) steel conduit.

F. **Conduit —** Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT).

3. **Fill, Void or Cavity Material* — Sealant —** Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. At the point contact location between pipe and concrete, a min 1/4 in. (6 mm) diam bead of fill material shall be applied at the concrete/pipe interface on the top surface of floor and on both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2015-01-07

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems

XHEZ7 - Through-penetration Firestop Systems Certified for Canada

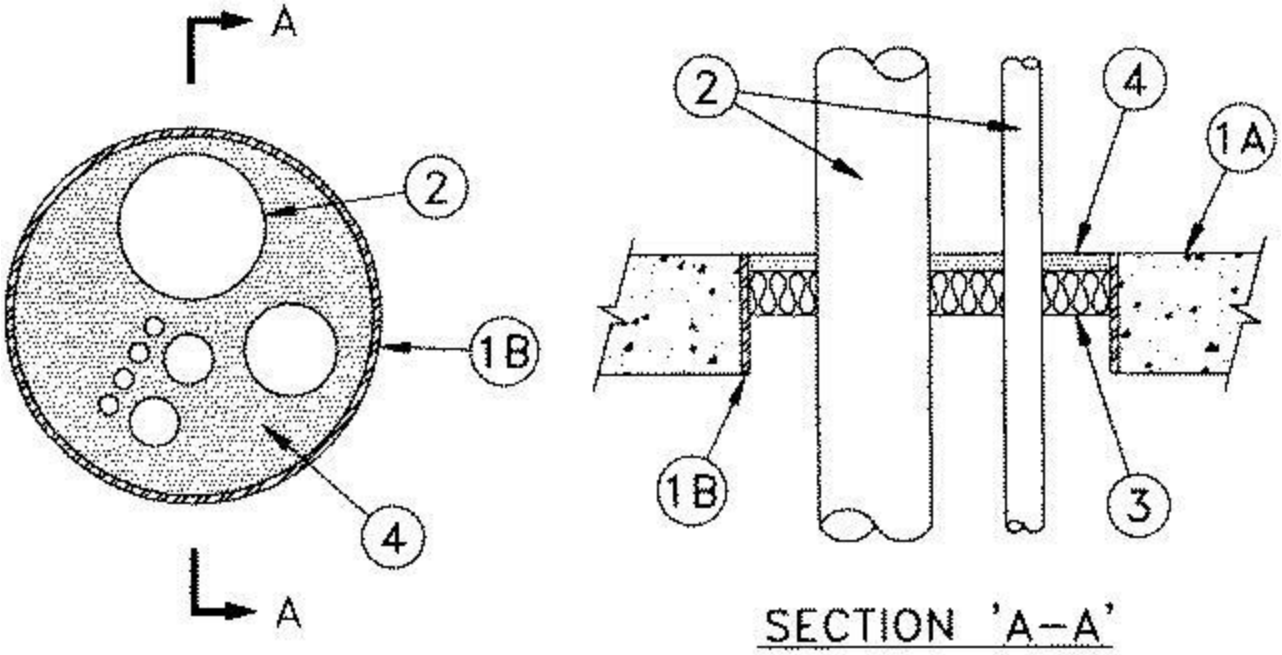
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. C-AJ-1406

July 03, 2024

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 2 Hr
	FTH Rating — 0 Hr
L Rating at Ambient - Less than 1 CFM/sq ft	L Rating At Ambient — Less Than 5.1 L/s/m²
L Rating at 400° F - Less than 1 CFM/sq ft	L Rating At 204° C — Less Than 5.1 L/s/m²



1A. **Floor or Wall Assembly —** Min 2-1/2 in (64 mm) thick floor or 3 in. (76 mm) thick wall of reinforced light weight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 15-1/4 in. (387 mm).
See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

1B. **Metallic Sleeve (Optional) —** Nom 15-1/4 in. (387 mm) diam (or smaller), Schedule 30 (or heavier) steel pipe sleeve, cast or grouted into floor or wall assembly, flush with floor or wall surfaces.

2. **Through Penetrants - —** A max of eight pipes, conduits or tubing to be installed within the opening. The space between pipes, conduits or tubing shall be min 1/2 in. (13 mm) to max 3 in. (76 mm). The space between pipes, conduits or tubing and periphery of opening shall be min 1/2 in. (13 mm) to max 5 in. (127 mm). Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
A. **Steel Pipe —** Nom 6 in. (152 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.

B. **Conduit —** Nom 2 in. (51 mm) diam (or smaller) electrical metallic tubing.

C. **Copper Tubing —** Nom 3/4 in. (19 mm) diam (or smaller) Type L (or heavier) copper tubing.

D. **Copper Pipe —** Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. **Packing Material —** Min 2 in. (51 mm) thick mineral wool insulation of min 4 pcf (64 kg/m^3) firmly pressed into opening as a permanent form. Insulation material to be recessed by min depth of 1/2 in. (13 mm) from top surface of floor or both surfaces of wall.

4. **Fill, Void, or Cavity Materials* - Caulk —** Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or both surfaces of wall.
RECTORSEAL — Metacaulk MC 150+

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2024-07-03

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

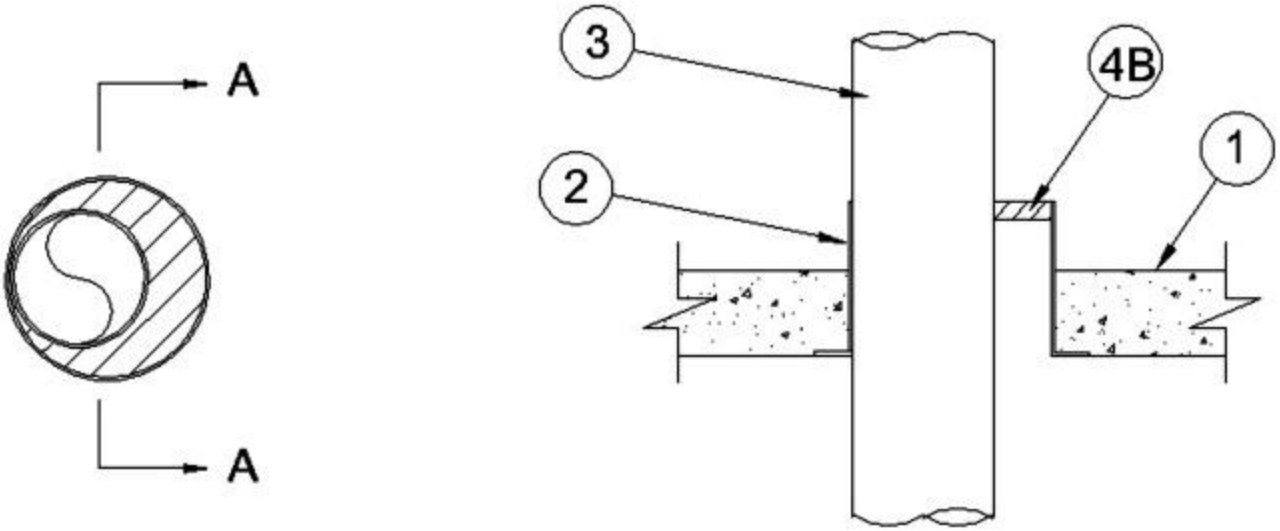
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. C-AJ-1575

February 20, 2015

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 2 and 3 Hr (See Item 4B)	F Ratings — 2 and 3 Hr (See Item 4B)
T Rating — 0 Hr	FT Rating — 0 Hr
W Rating — Class 1 (See Item 4)	FH Ratings — 2 and 3 Hr (See Item 4B)
	FTH Rating — 0 Hr



SECTION A-A

1. **Floor or Wall Assembly —** Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow core **Precast Concrete Units***. Max diam of opening is 30-7/8 in. (784 mm) when concrete floor or wall is used and max 7 in. (178 mm) when precast concrete units are used.

See **Concrete Blocks** (CAZT) and **Precast Concrete Units** (CFTV) categories in the Fire Resistance Directory for names of manufacturers.

1A. **Floor Assembly - (Optional - Not Shown) —** The fire rated unprotected concrete and steel floor assembly shall be constructed of the materials and in the manner specified in the individual D900 Series designs in the UL Fire Resistance Directory and as summarized below:

A. **Concrete —** Min 2-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete.

B. **Steel Floor and Form Units* —** Composite or non-composite max 3 in. (76 mm) deep galv steel fluted units as specified in the individual Floor-Ceiling Design.

2. **Steel Sleeve —** See Table in Item 4B for when sleeve is required. Also not required for hollow core precast concrete floors. Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max of 8 in. (203 mm) above top of floor or beyond either surface of wall. As an alternate, in floors only, min 26 gauge galvanized sheet steel sleeve provided with a min. 26 gauge galvanized steel square flange spot welded to the bottom of the sleeve and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sheet metal sleeve is to be cast in place and may extend a max of 2 in. (51 mm) above the top surface of the concrete floor, except that when sleeve is greater than nom 13 in. (330 mm) diam, sleeve shall be installed flush with both surfaces of floor.

3. **Through-Penetrants —** One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening or sleeve shall be min 0 in. (point contact). See Table in Item 4B for max annular space. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. **Steel Pipe —** Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.

C. **Conduit —** Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.

D. **Conduit —** Nom 4 in. (102 mm) diam (or smaller) electrical metallic tubing (EMT).

E. **Copper Tubing —** Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

F. **Copper Pipe —** Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.

4. **Firestop System —** The firestop system shall consist of the following:

A. **Packing Material —** (Not Shown.) - Min 1 in. (25 mm) thickness of polyethylene backer rod, mineral wool batt or glass fiber insulation firmly packed into opening as a permanent form. Packing material to be recessed from top or bottom surface of floor/sleeve or from both surfaces of wall/sleeve to accommodate the required thickness of fill material (Item 4B). Packing material is required as specified in Table below.

A1. **Forming Materials* —** (Optional, Not Shown) As an alternate to Item 4A, min 1 in. (25 mm) thickness of forming material to be foamed into the opening as a permanent form. Forming material to be recessed from top or bottom surface of floor/sleeve or from both surfaces of wall/sleeve to accommodate the required thickness of fill material (Item 4B).
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CF812 or CF-AS CJP Foam Sealant

A2. **Packing Material —** (Not Shown.) - For W Rating, floors only, min 4 in. thick, min 4 pcf (64 kg/m^3) mineral batt insulation tightly packed into sleeve and recessed from top of sleeve to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Materials* — Sealant —** Applied to fill the annular space flush with top or bottom surface of floor/sleeve. In hollow core precast concrete floors, fill material to be installed flush with the bottom of the floor. Fill material may optionally be installed flush with the top of the assembly. In wall assemblies, fill material to be installed symmetrically on both sides of wall or floor, flush with wall/sleeve or floor surface. In wall assemblies, an additional bead of fill material shall be applied at the point contact location between penetrant and sleeve or between penetrant and concrete, at top surface of floor/sleeve and at both surfaces of wall/sleeve. The bead shall be min 1/2 in. (13 mm) diam and shall extend over the point contact location to the 1/4 in. (6 mm) annular space. **For W Rating, fill material to be installed flush with top of sleeve only and an additional min 1/2in. (13 mm) bead of sealant shall be applied at the sleeve/concrete interface on the top surface of the floor.** The min required fill material thickness and the location of the sealant at top or bottom of floor opening are dependent upon a number of parameters, as shown in the table below.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

Note: W Rating applies only when FS-ONE MAX Intumescent Sealant is used.

Min Floor or Wall Thick, In. (mm)	Nom Diam of Copper Pipe or Tube In. (mm)	Nom Diam of Steel/Iron Pipe or Conduit In. (mm)	Max Annular Space In. (mm)	Min Sealant Thick. In. (mm)	Sealant Flush with Top or Bottom	Sleeve	Packing Matl	F Rating Hr
2-1/2 (64)	1/2-4 (13-102)	1/2-30 (13-762)	7/8 (22)	1/2(13)	Top	No	No	2
2-1/2 (64)	1/2-4 (13-102)	1/2-8 (13-203)	2-7/8 (73)	1 (25)	Top	Yes	No	2
2-1/2 (64)	1/2-4 (13-102)	1/2-8 (13-203)	1-7/8 (48)	1/2(13)	Top	Yes	No	2

2-1/2 (64)	1/2-4 (13-102)	1/2-12 (13-305)	7/8 (22)	1 (25)	Bottom	Yes	No	2
2-1/2 (64)	1/2-4 (13-102)	1/2-8 (13-203)	2-7/8 (73)	1 (25)	Top	Optional	Yes	2
2-1/2 (64)	1/2-6 (13-152)	1/2-30 (13-762)	2-7/8 (73)	1 (25)	Top	Yes	Yes	2
4-1/2 (114)	1/2-4 (13-102)	1/2-10 (13-254)	3-1/4 (83)	1 (25)	Top or Bottom	No	No	3
4-1/2 (114)	1/2-4 (13-102)	1/2-30 (13-762)	7/8 (22)	1/2(13)	Top	No	No	3
4-1/2 (114)	1/2-4 (13-102)	1/2-8 (13-203)	1-7/8 (48)	1/2(13)	Bottom	No	No	2

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

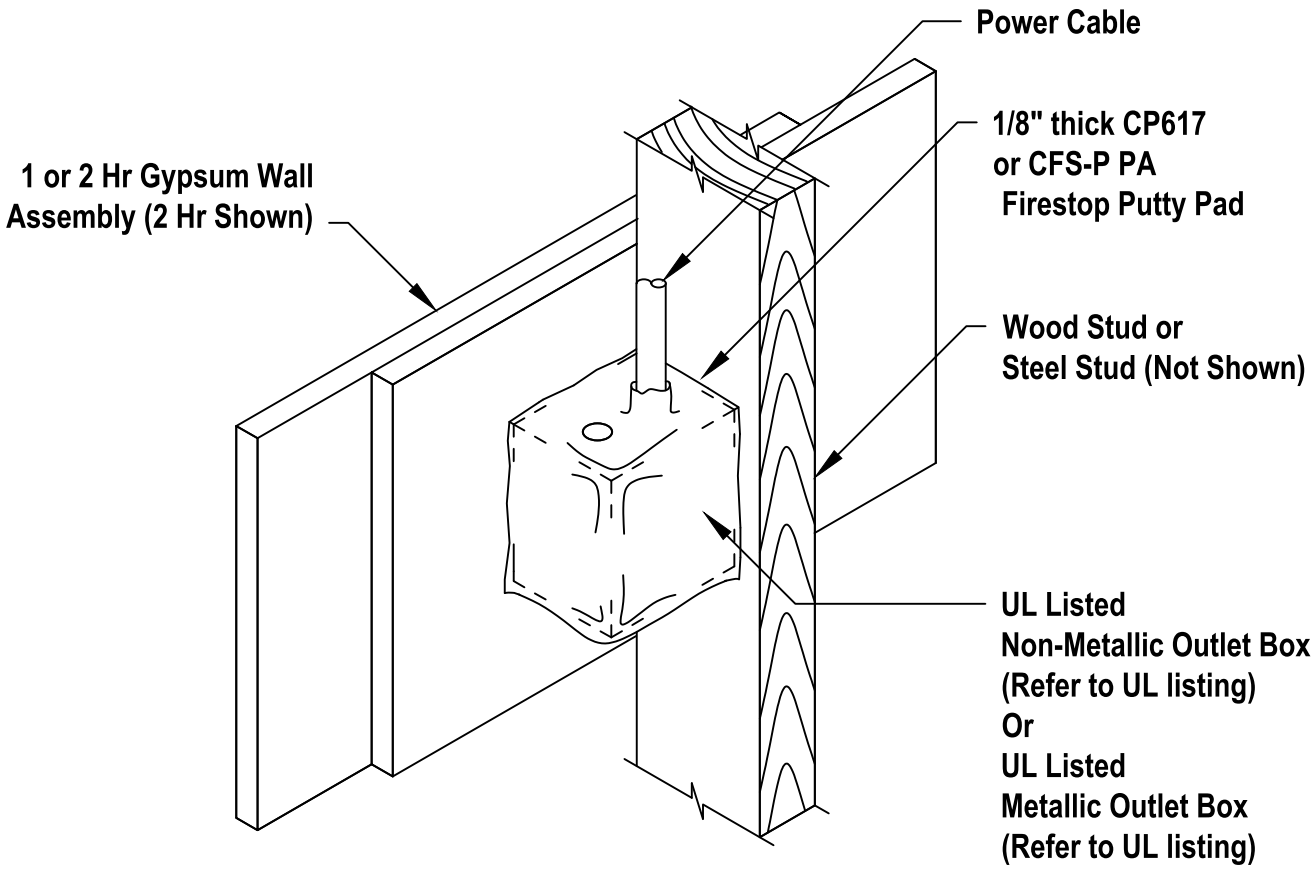
Last Updated on 2015-02-20

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

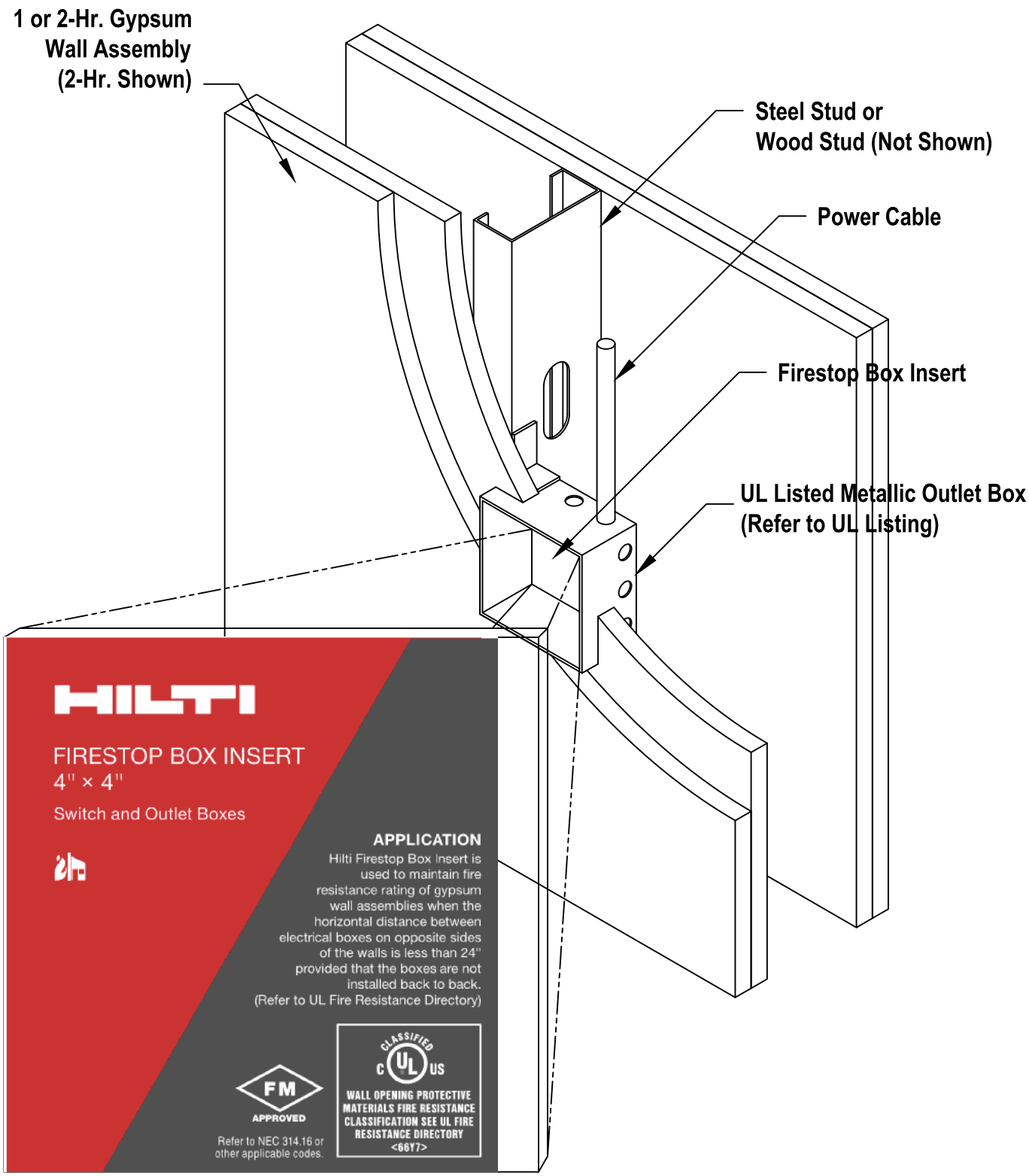
Wall Opening Protective Materials (CLIV, CLIV7)

Classified by
Underwriters Laboratories, Inc.
to UL 263 and CAN/ULC-S115



Reproduced by HILTI, Inc. Courtesy of
Underwriters Laboratories, Inc.
October 28, 2019

Wall Opening Protective Materials (CLIV, CLIV7)



Reproduced by HILTI, Inc. Courtesy of
Underwriters Laboratories, Inc.
October 28, 2019

CP 617(-L, -XL) or CFS-P PA Firestop Putty Pads, for use with flush device UL Listed Metallic Outlet Boxes installed with steel mud rings or UL Listed Nonmetallic Outlet Boxes in framed wall assemblies as specified below. When protective material is used on outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back (unless otherwise indicated). Installation shall comply with the National Electrical Code (NFPA 70). Min 1/8 in. thick (CP 617) or min 0.2 in. (CFS-P PA) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and conduit fittings/connectors and to completely seal against the stud and gypsum board in the wall cavity unless otherwise noted below. When CFS-P PA is used, the putty pads may be installed with the release liner intact on the outside of the pad with the exception of any overlaps, in which case the liner is to be removed from the bottom layer at the overlap location. The box composition, max device dimensions, hourly rating, type of stud and type of faceplate are specified below.

CP 617(-L, -XL) or CFS-P PA Firestop Putty Pads, for use with max 4 by 4 by max 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 1 and 2 hr. fire rated gypsum wallboard wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed as specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory.

CP 617(-L, -XL) or CFS-P PA Firestop Putty Pads, for use with max 4-11/16 by 4-11/16 by max 2-1/8 in., or max 4-3/8 by 4-7/8 by max 2-1/8 in., flush device UL Listed Metallic Outlet Boxes installed with steel cover plates for use in 1 hr fire rated V446 gypsum board/steel stud or U341 gypsum board/wood stud Wall and Partition Design No. in the Fire Resistance Directory. When U341 wall design is used, wall shall be sheathed with 5/8 in. gypsum board, and glass or mineral fiber batt insulation shall be installed in stud cavities in accordance with U341 design. Boxes may be installed back-to-back.

CP 617(-L, -XL) or CFS-P PA Firestop Putty Pads, for use with max 4-11/16 by 4-11/16 by max 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates for use in 1 and 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Min 0.8 pcf density fiberglass batt insulation is to be installed within the wall cavity required for 1 hr fire rated gypsum board wall assemblies and optional in 2 hr fire rated gypsum wallboard assemblies.

CP 617(-L, -XL) or CFS-P PA Firestop Putty Pads, for use with max 4 by 3-3/4 by 3 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Carlon Electrical Products, made from polyvinyl chloride, and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in 1 and 2 hr fire rated gypsum wallboard assemblies, framed with min 3-1/2 in. deep wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet box secured to wood stud by means of two nailing tabs supplied with the outlet box. Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. Outlet boxes installed with steel or plastic cover plates.

CP 617(-L, -XL) or CFS-P PA Firestop Putty Pads, for use with max 4 by 4 by 2-7/8 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Carlon Electrical Products, made from polyvinyl chloride, and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in the 1 hr fire rated V446 gypsum board/steel stud or U341 gypsum board/wood stud Wall and Partition Design in the Fire Resistance Directory. When U341 wall design is used, wall shall be sheathed with 5/8 in. gypsum board, and glass or mineral fiber batt insulation shall be installed in stud cavities in accordance with U341 design. Outlet box secured to steel stud by means of fastening tab supplied with the outlet box. Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. Outlet boxes installed with steel or plastic cover plates. Boxes may be installed back to back.

CP 617(-L, -XL) Firestop Putty Pads, for use with max 2-1/4 by 3-3/4 by 2-3/4 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Pass and Seymore, Inc., and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in 1 and 2 hr fire rated gypsum wallboard assemblies, framed with min 3-1/2 in. deep wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet box secured to wood stud by means of two nailing tabs supplied with the outlet box. Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. Outlet boxes installed with steel or plastic cover plates.

CP 617(-L, -XL) or CFS-P PA Firestop Putty Pads, for use with max 4 by 3-3/4 by 3 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Allied Molded Products, Inc., made from fiber reinforced thermoplastic and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in 1 hr fire rated gypsum wallboard assemblies, framed with min 3-1/2 in. deep wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet box secured to wood stud by means of two nailing tabs supplied with the outlet box. Outlet boxes installed with plastic cover plates. Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity.

Reproduced by HILTI, Inc. Courtesy of
Underwriters Laboratories, Inc.
October 28, 2019

CP 617(-L, -XL) or CFS-P PA Firestop Putty Pads, for use with max 4 by 4 in. by 1-1/2 in. deep flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 1 hr. fire rated gypsum wallboard wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed as specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. The boxes are installed back to back with 5 in. by 4 in. UL Classified fire block, CP 657 or CFS-BL Firestop Block installed in the cavity between the two boxes.

CP 617(-L, -XL) or CFS-P PA Firestop Putty Pads, for use with max 14 by 4 by max 2-1/2 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 1 and 2 hr. fire rated gypsum board wall assemblies framed with min 5-1/2 in. deep wood or steel studs for 2 hr fire rated walls and min 3-1/2 in. deep wood or steel studs for 1 hr fire rated walls. Walls constructed as specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Stud cavity insulation is required and shall consist of min 5-1/2 in. (2 hr rated walls) or min 3-1/2 in. (1 hr rated walls) thick fiberglass (min 0.8 pcf) or mineral fiber (min 4 pcf). Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. When boxes are interconnected by means of electrical metallic tube (EMT) or conduit, a ball of putty pad material shall be used to completely plug the open end of each EMT or conduit within the box.

CP 617(-L, -XL) or CFS-P PA Firestop Putty Pads, for use with max 4-11/16 by 4-11/16 by max 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel or plastic cover plates for use in 1 and 2 hr fire rated gypsum board wall assemblies framed with min 5-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. When boxes are interconnected by means of electrical metallic tube (EMT) or conduit, a ball of putty pad material shall be used to completely plug the open end of each EMT or conduit within the outlet boxes. Metallic outlet boxes may be provided with steel attachment brackets which offset box min 1/4 in. from stud. When steel attachment brackets are used, putty pad to be affixed to the back and all four sides of the box.

CP 617(-L, -XL) or CFS-P PA Moldable Putty Pads, for use with max 4-11/16 by 4-11/16 in. by max 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 and V400 Series Wall and Partition Designs in the Fire Resistance Directory. An additional 3/4 in. ball of putty pad material shall be used to plug the end of each electrical metallic tube or conduit at its connection to the box.

CP 617(-L, -XL) or CFS-P PA Moldable Putty Pads, for use with max 4 by 4 by 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel or plastic cover plates in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 and V400 Series Wall and Partition Designs in the Fire Resistance Directory. An additional 3/4 in. ball of putty pad material shall be used to plug the end of each electrical metallic tube or conduit at its connection to the box.

CP 617(-L, -XL) or CFS-P PA Moldable Putty Pads, for use with max 14-1/4 by 4-1/2 by 2-1/2 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 and V400 Series Wall and Partition Designs in the Fire Resistance Directory. An additional 3/4 in. ball of putty pad material shall be used to plug the end of each electrical metallic tube or conduit at its connection to the box.

HILTI Firestop Box Insert, for use with flush device UL Listed Metallic Outlet Boxes installed with steel mud rings or UL Listed Nonmetallic Outlet Boxes in framed wall assemblies as specified below. When protective material is used on outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back (unless otherwise indicated). Installation shall comply with the National Electrical Code (NFPA 70). The box composition, max device dimensions, hourly rating, type of stud and type of faceplate are specified below.

HILTI Firestop Box Insert, for use with max 4-11/16 by 4-11/16 by 2-1/8 in. deep UL Listed Metallic Outlet Boxes without internal clamps in 1 or 2 hr fire rated gypsum wallboard wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet boxes in 1 hr fire rated walls may be installed with plastic or steel cover plates. Outlet boxes in 2 hr fire rated walls shall be installed with steel cover plates. One 4-3/8 by 4-3/8 in. insert adhered to the interior back wall of the outlet box in accordance with the instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 4-3/8 x 4-3/8 in coverage.

Reproduced by HILTI, Inc. Courtesy of
Underwriters Laboratories, Inc.
October 28, 2019

Wall Opening Protective Materials (CLIV, CLIV7)

HILTI Firestop Box Insert, for use with max 4 by 4 by 1-1/2 in. deep and 2-1/8 in. deep UL Listed Metallic Outlet Boxes without internal clamps in 1 or 2 hr fire rated gypsum wallboard wall assemblies framed with min 3 1/2 in. deep steel or wood studs and constructed of materials and in the manner specified in the individual U400, V400 or U300 Series Wall and Partition Designs in the Fire Resistance Directory, as summarized in the Table below. One 3-11/16 by 3-3/4 in. insert adhered to the interior back wall of the outlet box in accordance with the instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 3-11/16 x 3-3/4 in coverage.

Box Size	Type of Box and Cover Plate	Hourly Rating	Wall Type
4 x 4 x 2-1/8 in deep	Metallic w/ steel cover plates	2-hour	U300, U400 or V400 - wood or steel studs
4 x 4 x 2-1/8 in deep	Metallic w/ plastic cover plates	1-hour	U300, U400 or V400 - wood or steel studs
4 x 4 x 1-1/2 in deep	Metallic w/ plastic cover plates	1-hour	U300 - wood studs

HILTI Firestop Box Insert, for use with max 2-1/8 x 4 x 2-1/8 in. deep UL Listed Metallic Outlet Boxes without internal clamps in 2 hr fire rated gypsum wallboard wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet boxes may be installed with steel cover plates. One 1-7/8 x 2-13/16 insert adhered to the interior back wall of the outlet box in accordance with the instructions supplied with the product.

HILTI Firestop Box Insert, for use with max 4-1/2 x 8-1/2 in. by 1-5/8 in. deep or max 3-3/4 x 5-1/2 in. by 2-1/2 in. deep UL Listed Metallic Outlet Boxes without internal clamps in 1 hr or 2 hr fire rated gypsum wallboard wall assemblies framed with min 3 1/2 in. deep steel or wood studs and constructed of materials and in the manner specified in the individual U400, V400 or U300 Series Wall and Partition Designs in the Fire Resistance Directory, as summarized in the Table below. Outlet boxes installed with steel cover plates. Box inserts evenly spaced and adhered to the interior back wall of the outlet box in accordance with the instructions supplied with the product.

Box Size	Inserts Used	Fire Rating	Wall Type
4-1/2 x 8-1/2 x 1-5/8 in deep	Two 3-11/16 x 3-3/4 in. inserts **	2 hour	U300, U400 or V400 - wood or steel studs
3-3/4 x 5-1/2 x 2-1/2 in deep	One 3-11/16 x 3-3/4 in. insert and one 1-7/8 x 2-13/16 in. insert	1 hour	U300, U400, or V400 - wood or steel studs
** - Min 3/4 in. deep plaster rings installed over outlet box. After installation of gypsum board, nom 1/4 in. thickness of Hilti FS-ONE Sealant or FS-ONE MAX Intumescent Sealant, bearing the UL Classification Marking for Fill, Void or Cavity Materials, applied between the base layer of wallboard and the plaster ring.			

HILTI Firestop Box Insert , for use with 4-3/8 by 4-7/8 by 2-1/4 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps in 1 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. One 4-3/8 in. wide by 4-3/8 in. high insert adhered to the interior back wall of the outlet box in accordance with the installation instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 4-3/8 in. by 4-3/8 in. coverage and adhered to the interior back wall of the outlet box. Outlet boxes installed with plastic or steel cover plates.

HILTI Firestop Box Insert, for use with 4-3/8 by 4-7/8 by 2-1/4 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. One 4-3/8 in. wide by 4-3/8 in. high insert adhered to the interior back wall of the outlet box in accordance with the installation instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 4-3/8 in. by 4-3/8 in. coverage and adhered to the interior back wall of the outlet box. Outlet boxes installed with steel cover plates.

CP 617(-L, -XL) or CFS-P PA Firestop Putty Pads and HILTI Firestop Box Inserts, for use with maximum 4 by 4 by 1-1/2 in. (102 by 102 by 38 mm) deep flush device UL Listed Metallic Outlet Boxes installed with steel mud rings and with steel or plastic faceplates in 1 or 2 hr fire rated gypsum board wall assemblies constructed with min 3-1/2 in. (89 mm) wide wood or steel studs. When both protective materials are used with outlet boxes on both sides of the wall as directed, the boxes may be installed back-to-back provided that the backs of the boxes are minimum 1/2 in. (13 mm) apart and provided that the boxes are not interconnected. Adjoining pieces of moldable putty pads to be overlapped approx 1/2 in. (13 mm) at the seam. An insert pad shall be installed to completely cover the back inside surface of each outlet box.

Firestop Box Inserts, for use with max 2-1/8 by 4 by 2-1/8 in. deep. flush device UL Listed Metallic Outlet Boxes without internal clamps in 2 h fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 Series Wall and Partition Designs in the Fire Resistance Directory. One 47 mm wide by 71 mm high insert adhered to the interior back wall of the outlet box in accordance with the installation instructions supplied with the product. Installation to comply with the National Electrical code, (NFPA 70). Outlet boxes installed with steel cover plates. A max 3/8 in. diam opening at one edge may be provided to permit access to the electrical box ground screw. When protective material is used within outlet boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back.

Firestop Box Inserts, for use with max 4 by 4 by 2-1/8 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 Series Wall and Partition Designs in the Fire Resistance Directory. One 94 mm wide by 95 mm high insert adhered to the interior back wall of the outlet box in accordance with the installation instructions supplied with the product. Installation to comply with the National Electrical Code, (NFPA 70). Outlet boxes installed with steel cover plates. A max 3/8 in. diam opening at one edge may be provided to permit access to the electrical box ground screw. When protective material is used within outlet boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back.

Firestop Box Inserts, for use with max 4 by 4 by 1-1/2 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps in 1 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep wood studs and with max 4 by 4 by 2-1/8 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps in 1 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the Fire Resistance Directory. One 94 mm wide by 95 mm high insert adhered to the interior back wall of the outlet box in accordance with the installation instructions supplied with the product. Installation to comply with the National Electrical Code, (NFPA 70). Outlet boxes installed with plastic cover plates. A max 3/8 in. diam opening at one edge may be provided to permit access to the electrical box ground screw. When protective material is used within outlet boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back.

Firestop Box Inserts, for use with 4-11/16 by 4-11/16 by 2-1/8 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps in 1 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 Series Wall and Partition Designs in the Fire Resistance Directory. One 111 mm wide by 111 mm high insert adhered to the interior back wall of the outlet box in accordance with the installation instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 111 mm by 111 mm coverage and adhered to the interior back wall of the outlet box. Installation to comply with the National Electrical Code, (NFPA 70). Outlet boxes installed with plastic or steel cover plates. A max 3/8 in. diam opening at one edge may be provided to permit access to the electrical box ground screw. When protective material is used within outlet boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back.

Reproduced by HILTI, Inc. Courtesy of
Underwriters Laboratories, Inc.
October 28, 2019

Wall Opening Protective Materials (CLIV, CLIV7)

Firestop Box Inserts, for use with 4-11/16 by 4-11/16 by 2-1/8 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 Series Wall and Partition Designs in the Fire Resistance Directory. One 111 mm wide by 111 mm high insert adhered to the interior back wall of the outlet box in accordance with the installation instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 111 mm by 111 mm coverage and adhered to the interior back wall of the outlet box. A max 3/8 in. diam opening at one edge may be provided to permit access to the electrical box ground screw. Installation to comply with the National Electrical Code, (NFPA 70). Outlet boxes installed with steel cover plates. When protective material is used within outlet boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back.

Firestop Box Inserts, for use with max 3-3/4 by 5-1/2 by 2-1/2 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps in 1 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel or wood studs and constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the Fire Resistance Directory. One 94 mm wide by 95 mm high and one 47 mm wide by 71 mm high inserts adhered to the interior back wall of the outlet box in accordance with the installation instructions supplied with the product. Installation to comply with the National Electrical Code, (NFPA 70). Outlet boxes installed with steel cover plates. A max 3/8 in. diam opening at one edge may be provided to permit access to the electrical box ground screw. When protective material is used within outlet boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back.

Firestop Box Inserts, for use with 4-3/8 by 4-7/8 by 2-1/4 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps in 1 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 Series Wall and Partition Designs in the Fire Resistance Directory. One 111 mm wide by 111 mm high insert adhered to the interior back wall of the outlet box in accordance with the installation instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 111 mm by 111 mm coverage and adhered to the interior back wall of the outlet box. Installation to comply with the National Electrical Code, (NFPA 70). Outlet boxes installed with plastic or steel cover plates. A max 3/8 in. diam opening at one edge may be provided to permit access to the electrical box ground screw. When protective material is used within outlet boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back.

Firestop Box Inserts, for use with 4-3/8 by 4-7/8 by 2-1/4 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 Series Wall and Partition Designs in the Fire Resistance Directory. One 111 mm wide by 111 mm high insert adhered to the interior back wall of the outlet box in accordance with the installation instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 111 mm by 111 mm coverage and adhered to the interior back wall of the outlet box. Installation to comply with the National Electrical Code, (NFPA 70). Outlet boxes installed with steel cover plates. A max 3/8 in. diam opening at one edge may be provided to permit access to the electrical box ground screw. When protective material is used within outlet boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back.

Firestop Box Inserts, for use with max 4-11/16 by 4-11/16 by 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel mud rings and plastic or steel cover plates in 1 h or 2 h fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Min 3-1/2 in. thick fiberglass (min 0.5 pcf) or mineral wool (min 4.0 pcf) batt insulation is to be installed within the wall cavity. One 4-3/8 by 4-3/8 in. insert adhered to the interior back wall of the outlet box in accordance with the instructions supplied with the product. Installation to comply with the National Electrical Code (NFPA 70). A max 3/8 in. diam opening at one edge may be provided to permit access to the electrical box ground screw. When protective material is used within outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back.

Reproduced by HILTI, Inc. Courtesy of
Underwriters Laboratories, Inc.
October 28, 2019

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

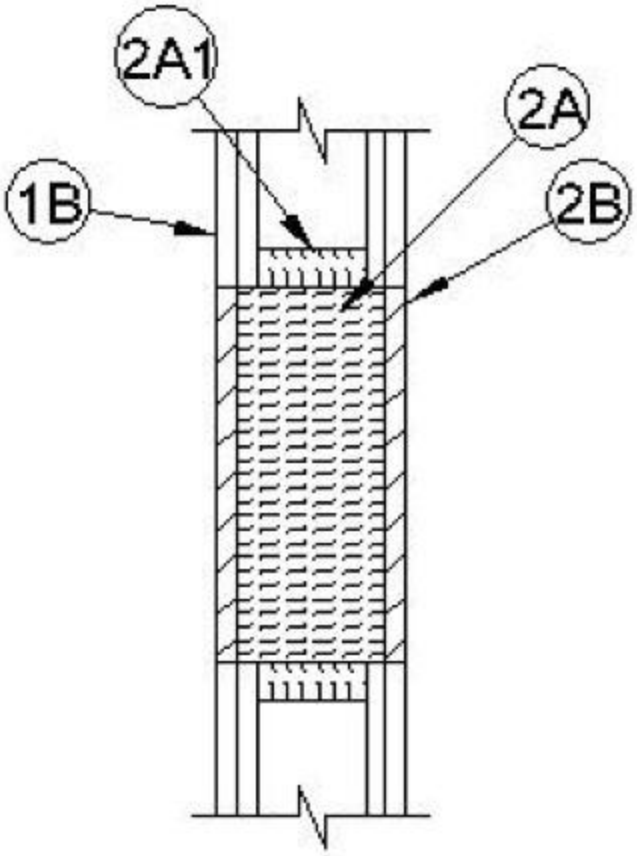
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-0030

January 23, 2015

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 1 and 2 Hr (See Item 1)	F Rating — 1 and 2 Hr (See Item 1)
T Rating — 1 and 2 Hr (See Item 1)	FT Rating — 1 and 2 Hr (See Item 1)
	FH Rating — 1 and 2 Hr (See Item 1)
	FTH Rating — 1 and 2 Hr (See Item 1)



1. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing may consist of either wood studs or channel shaped steel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** 5/8 in. (16 mm) thick with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Wall and Partition Design. If the system is installed in a wood stud/gypsum board assembly, the max area of square, rectangular, or circular opening is 210 sq in. (1355 cm^2). with max dimension of 14-1/2 in. (368 mm). If the system is installed in a steel stud/gypsum board assembly, max area of square, rectangular, or circular opening is 240 sq in. (1548 cm^2) with max dimension of 20 in. (508 mm) wide.

The hourly F, FH and T, FT and FTH Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Firestop System —** The firestop system shall consist of the following:

A. **Packing Material —** In 2 hr fire rated wall assemblies, min 4-3/4 in. (121 mm) thickness of min 4 pcf (64 kg/m^3) mineral wool batt insulation firmly packed into opening as a permanent form. In 1 hr fire rated wall assemblies, min 3-1/2 in. (89 mm) thickness of min 4 pcf (64 kg/m^3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material recessed from both surfaces of the wall to accommodate the required thickness of fill material.

A1. **Packing Material —** Min 1-1/4 in. (32 mm) thickness of min 4 pcf (64 kg/m^3) mineral wool batt insulation firmly packed as a backer around the perimeter of opening as a permanent form.

B. **Fill, Void or Cavity Material* — Sealant —** Min 5/8 in. (16 mm) thickness of fill material applied within opening, flush with both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

+ Bearing the UL Listing Mark

Bearing the UL Recognized Component Mark

Last Updated on 2015-01-23

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems

XHEZ7 - Through-penetration Firestop Systems Certified for Canada

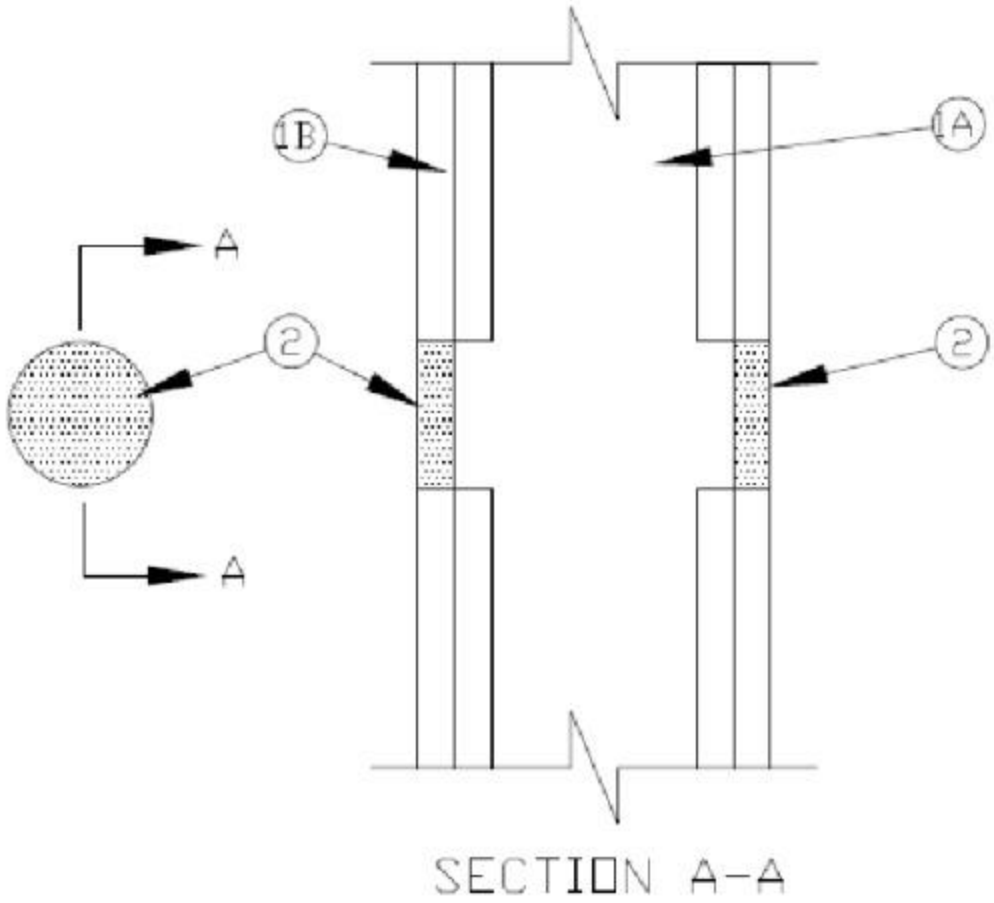
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-0040

July 31, 2024

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Item 1)	F Ratings - 1 and 2 Hr (See Item 1)
T Ratings - 0 and 1-3/4 Hr (See Item 1)	FT Ratings - 0 and 1-3/4 Hr (See Item 1)
	FH Ratings - 1 and 2 Hr (See Item 1)
	FTH Ratings - 0 and 1-3/4 Hr (See Item 1)



1. **Wall Assembly —** The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** Thickness, type, number of layers and orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 2-1/2 in. (64 mm) or a max area of 4 sq. in. (25.8 cm2) with a max dimension of 2 in. (51 mm).

The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed. The hourly T, FT and FTH Ratings of the firestop system are 0 and 1-3/4 hr for 1 and 2 hr rated assemblies, respectively.

2. **Fill, Void or Cavity Material* — Sealant —** Min 5/8 in. (16 mm) thickness of sealant applied within annulus, flush with both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2024-07-31

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear

adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

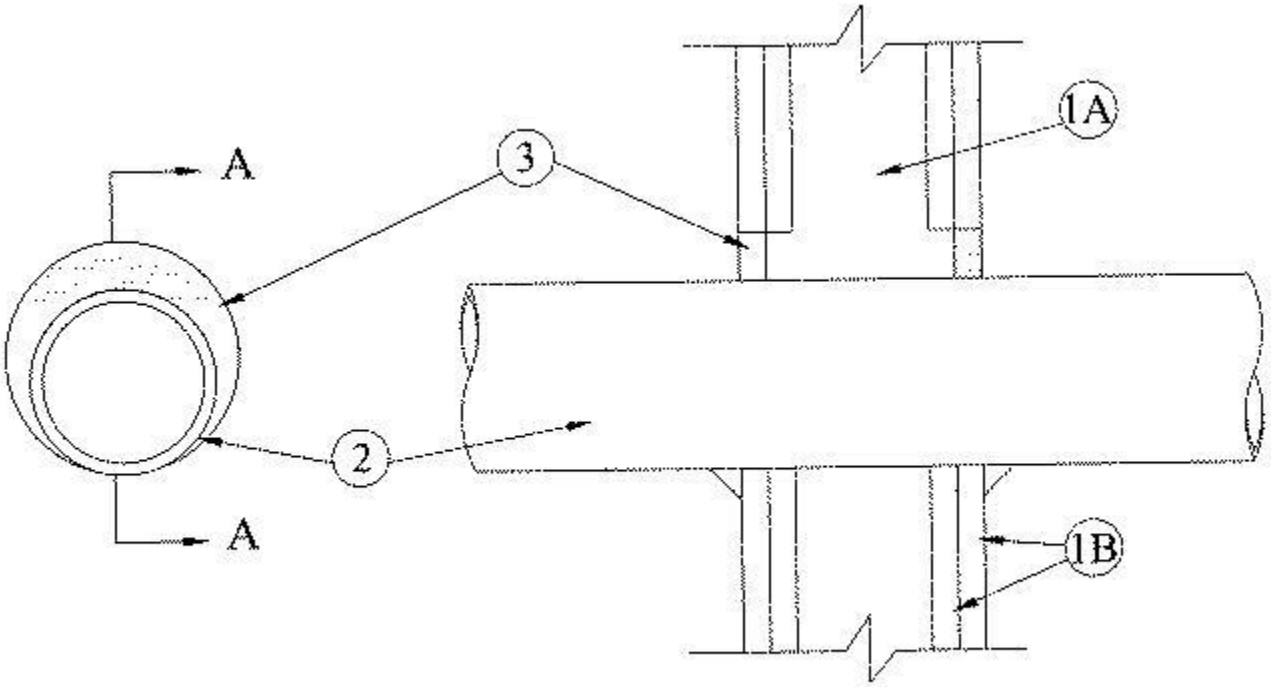
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-1054

January 21, 2020

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings —1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating (Without Movement) at Ambient — Less Than 1 CFM/sq ft	FH Ratings —1 and 2 Hr (See Items 1 and 3)
L Rating (Without Movement) at 400°F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
M Rating (Movement) — See Table 1	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 5.1 L/s/m^2
	L Rating at 204°C — Less Than 5.1 L/s/m^2



SECTION A-A

1. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. For M Rating, steel studs to be min 3-5/8 in. (92 mm) wide. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.

B. **Gypsum Board* —** 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.

The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly. The M Rating is applicable only to 1 hr rated walls.

2. **Through-Penetrants —** One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. **Steel Pipe —** Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.

C. **Conduit —** Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) . diam steel conduit.

D. **Copper Tubing —** Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

E. **Copper Pipe —** Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.

3. **Fill, Void or Cavity Material* — Sealant —** Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE MAX Intumescent Sealant

The M Rating for the firestop system is dependent on the variables as noted in the Table 1 below.

Table 1

Movement Direction	Penetrant Item	Nominal Penetrant Diameter	Annular Space	Movement	Sealant Depth	F Rating	L Rating with Movement
Y	2A, 2C*	2 in.	Max 2-1/4 in.	5%	5/8 in.	1 hr	N/A
Z	2A, 2C*	2 in.	2-1/4 in.	0.25 in.	5/8 in.	1 hr	N/A

* Rigid steel conduit

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2020-01-21
Last Updated on 2020-01-21

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

System No. W-L-1228

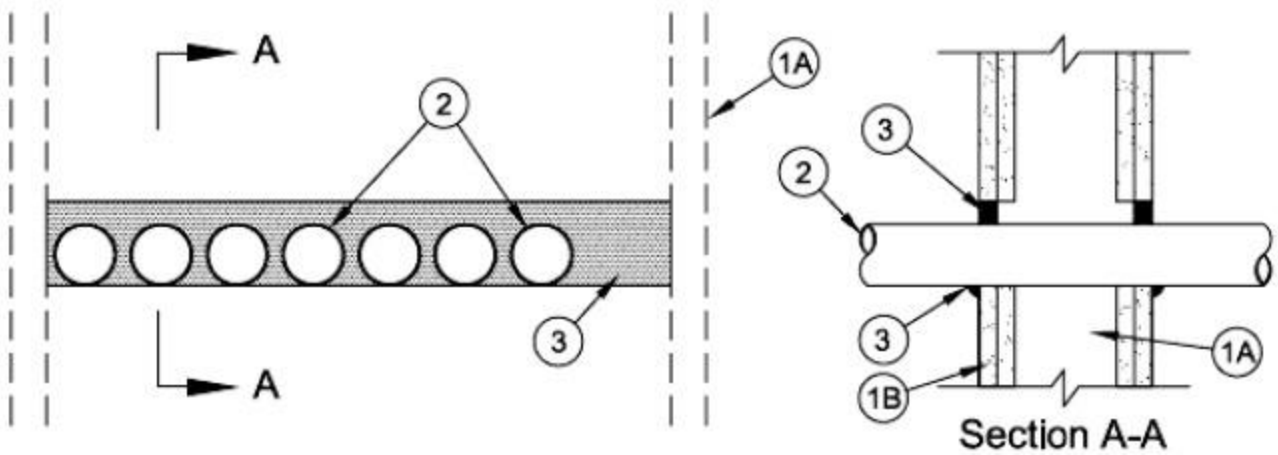
June 28, 2010

F Rating — 1 and 2 Hr (See Item 1)

T Ratings — 0, 1/2 and 1 Hr (See Item 3)

L Rating At Ambient — Less Than 1 CFM/sq ft

L Rating At 400 F — 2 CFM/sq ft



1. **Wall Assembly —** The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 or V400 series Wall and Partition Design in the UL Fire Resistance Directory and shall

include the following construction features:

A. **Studs —** Wall framing shall consist of min 3-5/8 in. (92 mm) wide steel channel studs spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** Thickness, type, number of layers and fasteners shall be as specified in the individual U400 or V400 series Wall and Partition Design in the UL Fire Resistance Directory. Max area of opening is 67-1/2 sq. in. (435 sq cm) with max dimension of 22-1/2 in. (572 mm).

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Through-Penetrant —** One or more nom 2 in. (51 mm) diam (or smaller) rigid steel conduit or electrical metallic tubing (EMT) installed either concentrically or eccentrically within the firestop system. The annular space between conduits or tubing and periphery of opening shall be min 0 in. (0 mm, point contact) to max 1-1/4 in. (32 mm). The space between conduits or tubing shall be min 1/4 in. (6 mm) to max 1 in. (25 mm). Conduit or tubing to be rigidly supported on both sides of wall assembly.

3. **Fill, Void or Cavity Material* - Caulk or Sealant —** Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. Min 1/2 in. (13 mm) diam bead of caulk applied to the penetrant/gypsum board interface at the point contact location on both sides of wall.

The hourly T Rating of the firestop system is 0 Hr when used in 1 Hr rated assemblies. The T Rating for 2 Hr rated assemblies is 1/2 Hr for FireDam 150+ and IC 15WB and is 1 Hr for CP-25WB+ and FB-3000 WT .

3M COMPANY — CP 25WB+, FireDam 150+, IC 15WB+ caulk or FB-3000 WT sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2010-06-28

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

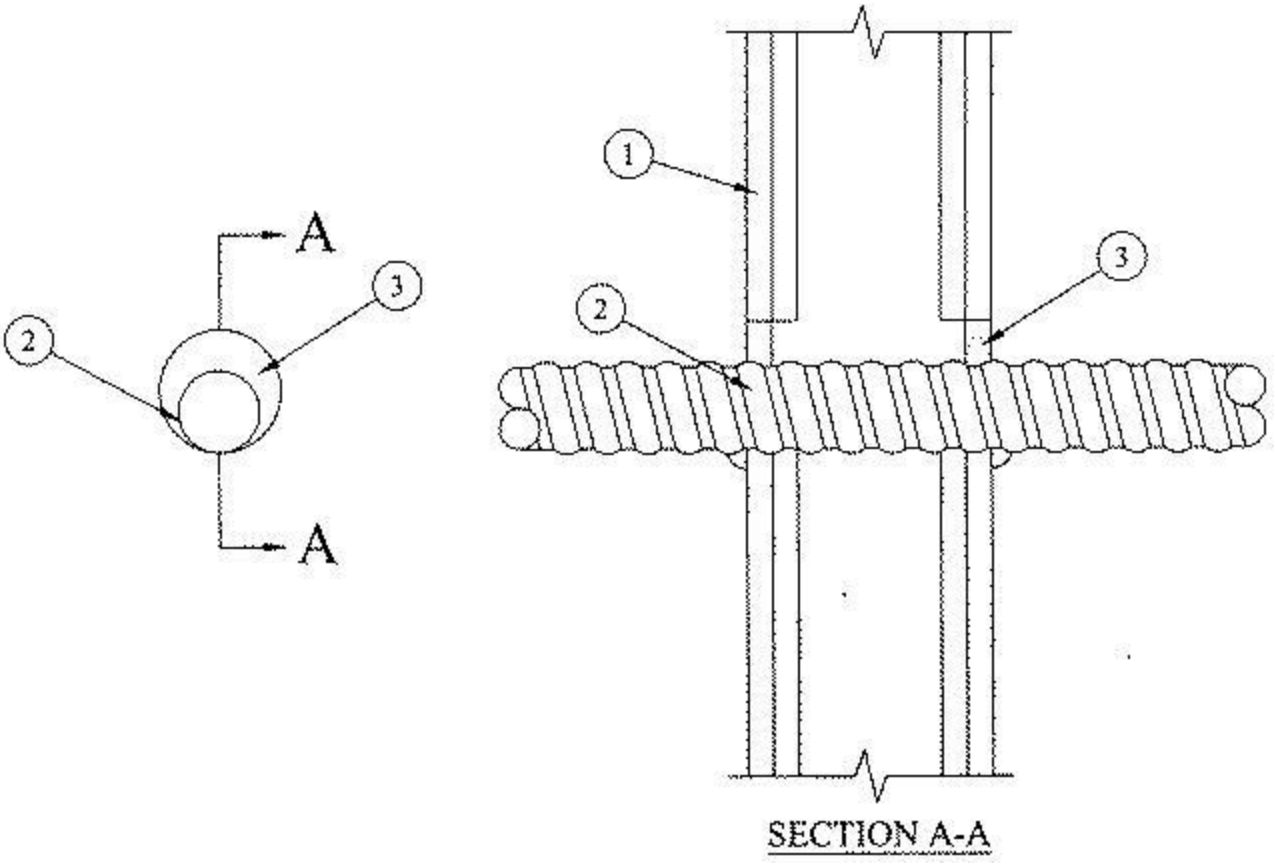
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-1243

January 23, 2015

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating at Ambient - 5 CFM/sq ft	FH Ratings — 1 and 2 Hr (See Item 1)
L Rating at 400°F - Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
	L Rating at Ambient - 5 CFM/sq ft
	L Rating at 400°F - Less Than 1 CFM/sq ft



1. **Wall Assembly —** The 1 or 2 Hr. fire-rate gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Design in the Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing shall consist of either wood studs or channel shaped steel studs. Wood studs to consist of 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide, fabricated from min 25 MSG galvanized steel, spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** 5/8 in. (16 mm) thick, 4 ft. (1.2 m) wide with square or tapered edges. The gypsum board type, number of layers and sheet orientation shall be as specified in the individual Wall and Partition Designs. Max diam of opening is 3-1/2 in. (89 mm).

The hourly F, FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Through-Penetrant —** Max one flexible metal pipe or conduit installed concentrically or eccentrically within opening. The annular space between penetrant and periphery of opening shall be min 0 in. (point contact) to max 1 in. (25 mm). Penetrant to be rigidly supported on both sides of wall assembly. The following types and sizes of penetrants may be used:

A. **Flexible Metal Conduit+ —** Nom 2 in. (51 mm) diam (or smaller) aluminum or steel flexible conduit installed either concentrically or eccentrically within the firestop system. The annular space between conduit and periphery of opening shall be min 0 in. (point contact) to max 1 in. (25 mm). Conduit to be rigidly supported on both sides of wall assembly.

See **Flexible Metal Conduit** (DXUZ) category in the Electrical Construction Materials Directory for names of manufacturers.

B. **Through Penetrating Product* — Flexible Metal Piping —** The following types of steel flexible metal gas piping may be used:

1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping.
OMEGA FLEX INC

2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping.
GASTITE, DIV OF TITEFLEX

3. Min 5/8 in. (16 mm) thickness of fill material applied with annulus, flush with both surfaces of the wall. At point contact location between penetrant and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the penetrant /gypsum board interface on both sides of wall.
WARD MFG L L C

3. **Fill, Void or Cavity Material*- Sealant —** Min 5/8 in. thickness of fill material applied with annulus, flush with both surfaces of the wall. At point contact location between penetrant and gypsum board, a min 1/2 in. bead of fill material shall be applied at the penetrant /gypsum board interface on both sides of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

+Bearing the UL Listing Mark

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2015-01-23

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

System No. W-L-1290

January 21, 2020

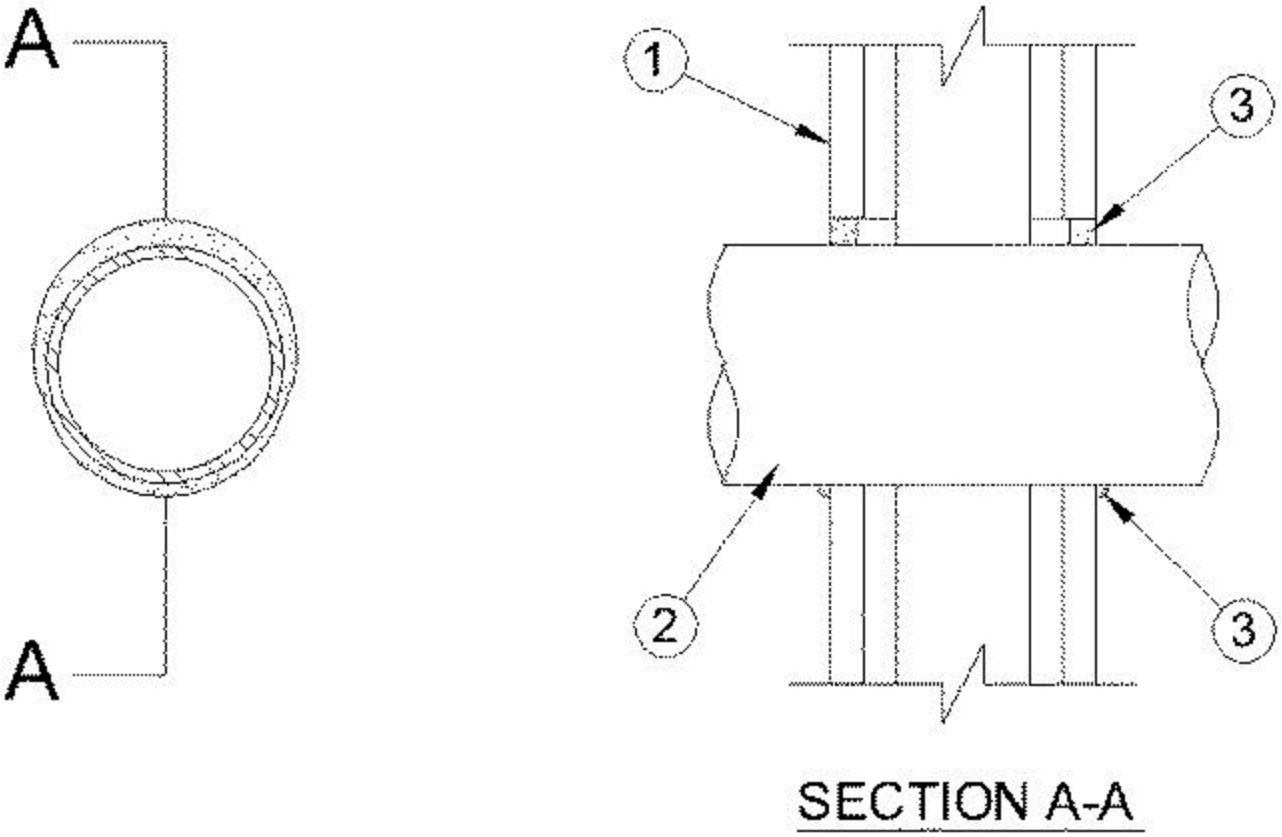
F Rating — 1 and 2 Hr (See Item 1)

T Rating — 0 Hr

L Rating (Without Movement) at Ambient — Less than 1 CFM/Sq Ft

L Rating (Without Movement) at 400°F — Less than 1 CFM/Sq Ft

M Rating (Movement) — See Table 1



SECTION A-A

1. **Wall Assembly —** The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features.

A. **Studs —** Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. For M Rating, steel studs to be min 3-5/8 in. (92 mm) wide.

B. **Gypsum Board*- —** Nom 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Design in the Fire Resistance Directory. Max diam of opening is 5 in. (127 mm). For M Rating, max diam of opening is 4-3/8 in. (111 mm).

The hourly F and T Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed. The M Rating is applicable only to 1 hr rated walls.

2. **Through Penetrant —** One metallic pipe, conduit or tubing installed concentrically or eccentrically within the firestop system. Pipe, conduit or tube to be rigidly supported on both sides of wall assembly. The annular space between the pipe or tube and periphery of the opening shall be min 0 in (point contact) to max 1/2 in. (13 mm). As an option, for through penetrant types 2A, 2B and 2C only in nom diameters not exceeding 4 in. (102 mm), the penetrant can be installed with continuous point contact. **As an option, for 1 hr F Rating, the annular space between pipe and opening can be max 1 in. (25 mm) for Item 2A penetrant in 2 in. (51 mm) diam (or smaller).** The following types and sizes of metallic pipes, conduit or tube may be used:

A. **Steel Pipe —** Nom 4 in. (102 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.

C. **Conduit —** Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or steel conduit.

D. **Copper Tube —** Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tube.

E. **Copper Pipe —** Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. **Fill, Void or Cavity Material*-Sealant —** Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact and continuous point contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe/wall interface.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP606 Flexible Firestop Sealant

The M Rating for the firestop system is dependent on the variables as noted in the Table 1 below.

Table 1

Movement Direction	Penetrant Item	Nominal Penetrant Diameter	Annular Space	Movement	Sealant Depth	F Rating	L Rating
Y	2A	2 in.	Max 1 in.	5%	5/8 in.	1 hr	N/A
Z	2A	2 in.	1 in.	0.25 in.	5/8 in.	1 hr	N/A

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2020-01-21
Last Updated on 2020-01-21

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

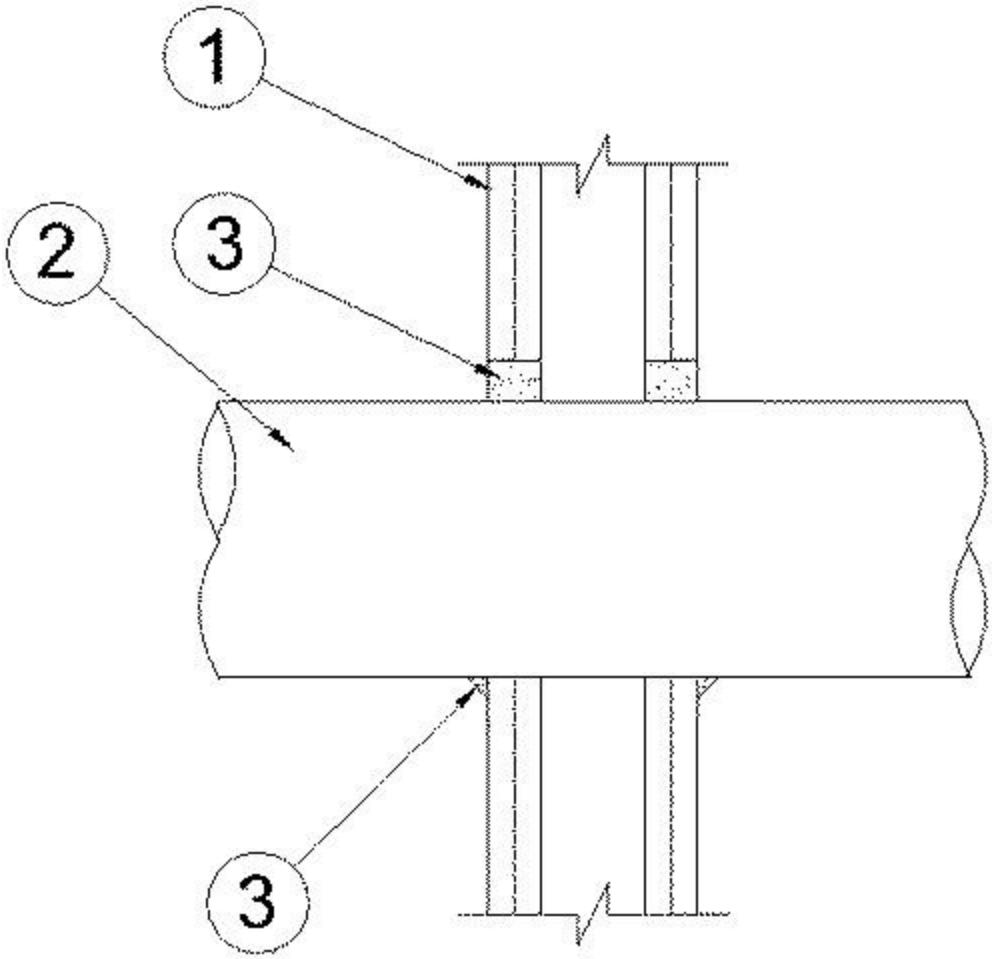
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-1297

July 07, 2020

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating at Ambient — Less than 1 CFM/Sq Ft	FH Ratings — 1 and 2 Hr (See Item 1)
L Rating at 400°F — Less than 1 CFM/Sq Ft	FTH Rating — 0 Hr
	L Rating at Ambient — Less than 5.1 L/s/m^2
	L Rating at 204°C — Less than 5.1 L/s/m^2



1. **Wall Assembly —** The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features.

A. **Studs —** Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** Nom 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400, V400 or W400 Series Design in the Fire Resistance Directory. Max diam of opening is 32 in. (813 mm).
The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Through Penetrant —** One metallic pipe, conduit or tubing installed concentrically or eccentrically within the firestop system. Pipe, conduit or tube to be rigidly supported on both sides of wall assembly. The annular space between the pipe, conduit or tube and periphery of the opening shall be min 0 in (0 mm, point contact) to max 2 in. (51 mm) in 2 hr fire rated walls and min 0 in (0 mm, point contact) to max 1 in. (25 mm) in 1 hr fire rated walls. As an option, for through penetrant types 2A, 2B and 2C only in nom diameters not exceeding 4 in. (102 mm), the penetrant can be installed with continuous point contact. The following types and sizes of metallic pipes, conduit or tube may be used:

A. **Steel Pipe —** Nom 30 in. (762 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.

C. **Conduit —** Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or 6 in. diam steel conduit.

D. **Copper Tube —** Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tube.

E. **Copper Pipe —** Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. **Fill, Void or Cavity Material*-Sealant —** Min 5/8 in. (16 mm) or 1-1/4 in. (32 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall, for 1 hr and 2 hr fire rated wall assemblies, respectively. A min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe/wall interface at the point contact and continuous point contact location.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP606 Flexible Firestop Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2020-07-07

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

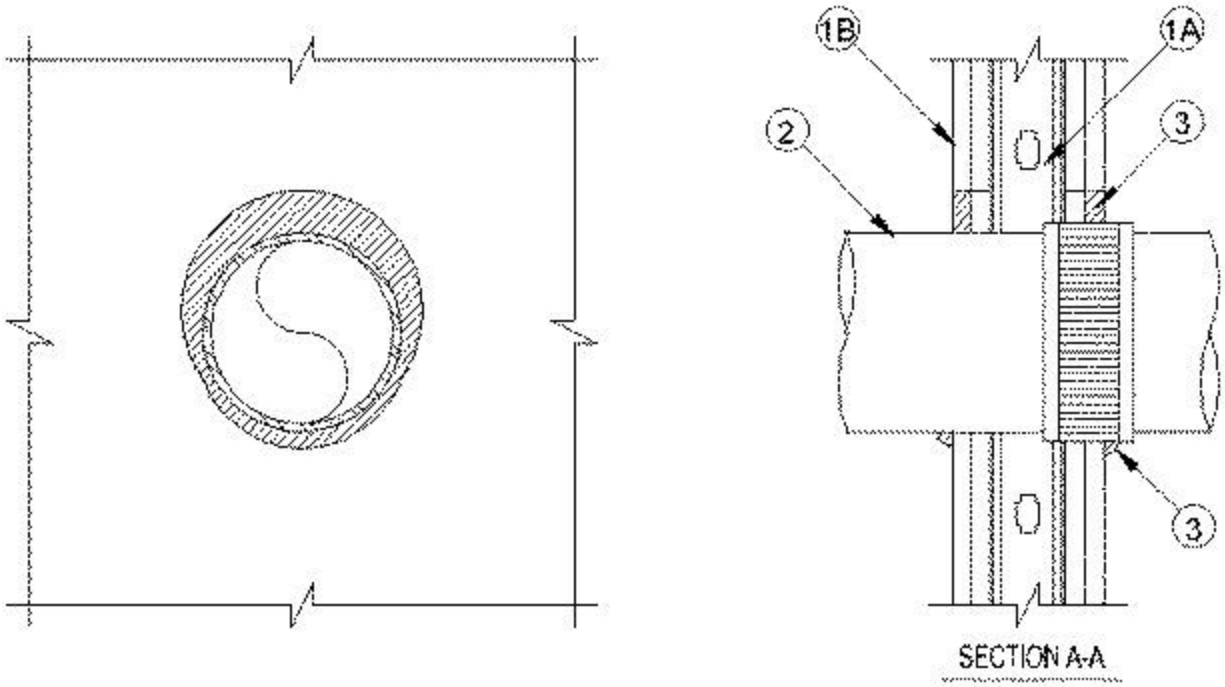
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-1359

January 22, 2015

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 1/4 Hr	FT Rating — 1/4 Hr
	FH Ratings — 1 and 2 Hr (See Item 1)
	FTH Rating — 1/4 Hr



1. **Wall Assembly —** The 1 or 2 h fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** Thickness, type and number of layers as specified in the individual Wall and Partition Design. Max diam of opening is 8 in. (203 mm).

The hourly F, FH Ratings of the firestop system are equal to the hourly assembly rating of the wall assembly in which it is installed.

2. **Through Penetrant —** One Nom 6 in. (102 mm) diam (or smaller) cast or ductile iron pipe to be installed eccentrically or concentrically within the firestop system. Pipe to be rigidly supported on both sides of the wall assembly.

3. **Compression Coupling —** Metallic pipes to be secured together with compression type pipe coupling with elastomeric gasket and a stainless steel jacket with stainless steel band clamps. Coupling to be installed entirely within opening or partially within opening. The annular space between the pipe or coupling and the periphery of the opening shall be min 0 in. (0 mm, point contact) to max 1 in. (25 mm).

4. **Fill, Void or Cavity Material* - Sealant —** Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the gypsum board/coupling interface on both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2015-01-22

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

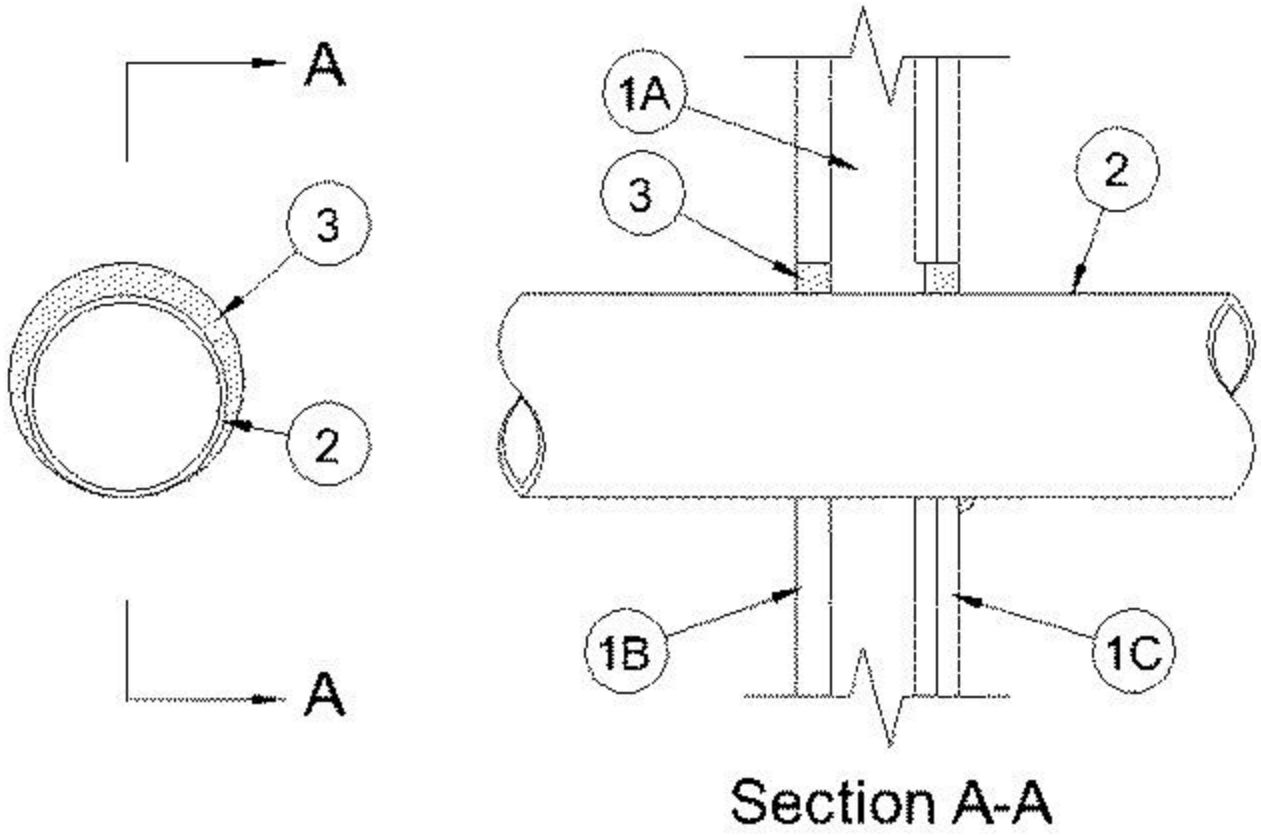
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-1380

January 22, 2015

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating —2 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 2 Hr
	FTH Rating — 0 Hr



Section A-A

1. **Wall Assembly —** The 2 hr fire-rated gypsum board/stud shaft wall assembly shall be constructed of the materials and in the manner specified in the individual U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:

A. **Steel Studs —** "C-H" or "C-T" shaped studs, min 2-1/2 in. (64 mm) wide by 1-1/2 in. (38 mm) deep, fabricated from min No. 25 gauge galv steel, spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** 1 in. (25 mm) thick, 24 in. (610 mm) wide gypsum liner panels installed vertically. Max diam of circular cutout in gypsum liner panel is 9-1/2 in. (241 mm).

C. **Gypsum Board* —** 1/2 in. or 5/8 in. (13 or 16 mm) thick, 48 in. (1.22 m) wide gypsum boards. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of circular cutout in gypsum board is 9-1/2 in. (241 mm).

2. **Through-Penetrants —** One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. (0 mm, point contact) to max 7/8 in. (22 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. **Steel Pipe —** Nom 8 in. (203 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 8 in. (203 mm) diam (or smaller) cast or ductile iron pipe.

C. **Conduit —** Nom 4 in (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) diam steel conduit.

D. **Copper Tubing —** Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

E. **Copper Pipe —** Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.

3. **Fill, Void or Cavity Material* - Sealant —** Min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with each surface of wall. A min 1/2 in. (13 mm) diam bead of fill material shall be applied at the point contact location between pipe and wall on the finished side of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant, FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2015-01-22

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems

XHEZ7 - Through-penetration Firestop Systems Certified for Canada

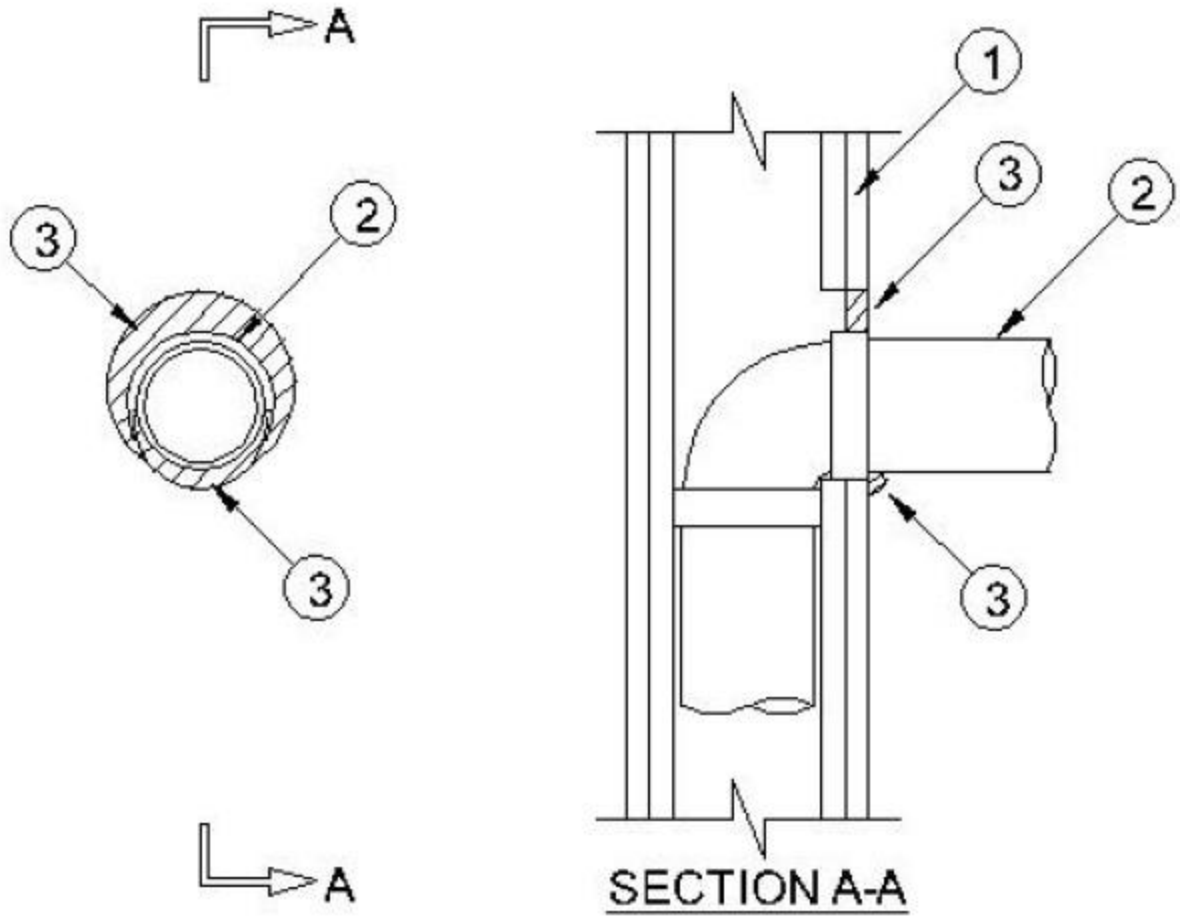
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. **W-L-1410**

June 7, 2023

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating at Ambient — Less Than 1 CFM/sq ft	FH Ratings — 1 and 2 Hr (See Item 1)
L Rating at 400°F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 5.1 L/s/m^2
	L Rating at 204°C — Less Than 5.1 L/s/m^2



1. **Wall Assembly —** The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** One or two layers of nom 5/8 in. (16 mm) thick gypsum board as specified in the individual Wall and Partition Design. The max diam of opening is dependent upon the type of fill material as shown in Item 3.
The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly.

2. **Through Penetrants —** One metallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space is dependent upon the type of fill material as shown in Item 3. Pipe or conduit to be rigidly supported on the penetrated side of the wall assembly. The following types and sizes of metallic pipes or conduits may be used:
A. **Steel pipe —** Nom 3 in. (76 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.

B. **Conduit —** Nom 3 in. (76 mm) diam (or smaller) steel electrical metallic tubing (EMT), nom 3 in. (76 mm) diam steel conduit or nom 1 in. (25 mm) diam (or smaller) flexible steel conduit.

C. **Copper Tubing —** Nom 1 in. (25 mm) diam (or smaller) Type L (or heavier) copper tubing.

D. **Copper Pipe —** Nom 1 in. (25 mm) diam (or smaller) Regular (or heavier) copper pipe.

E. **Iron Pipe —** Nom 3 in. (76 mm) diam (or smaller) cast or ductile iron pipe.

3. **Fill, Void or Cavity Material*— Sealant —** Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with surface of wall. Min 1/2 in. (13 mm) diam bead of sealant applied at point contact location.

Type of Fill Material	Max Diameter of Opening, in. (mm)	Min Annular Space, in. (mm)	Max Annular Space, in. (mm)
FS-ONE MAX Intumescent Sealant	6 (152)	0 (0), point contact	2 (51)
CFS-S-SIL GG Sealant	5 (127)	0 (0), point contact	1 (25)
CP601S Elastomeric Sealant	5 (127)	0 (0), point contact	1 (25)
CP 606 Sealant	5 (127)	0 (0), point contact	1 (25)
CP618 Putty	5 (127)	0 (0), point contact	1 (25)

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE MAX Intumescent Sealant, CFS-S-SIL GG Sealant, CP601S Elastomeric Sealant, CP 606 Sealant,or CP618 Putty.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2023-06-07

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

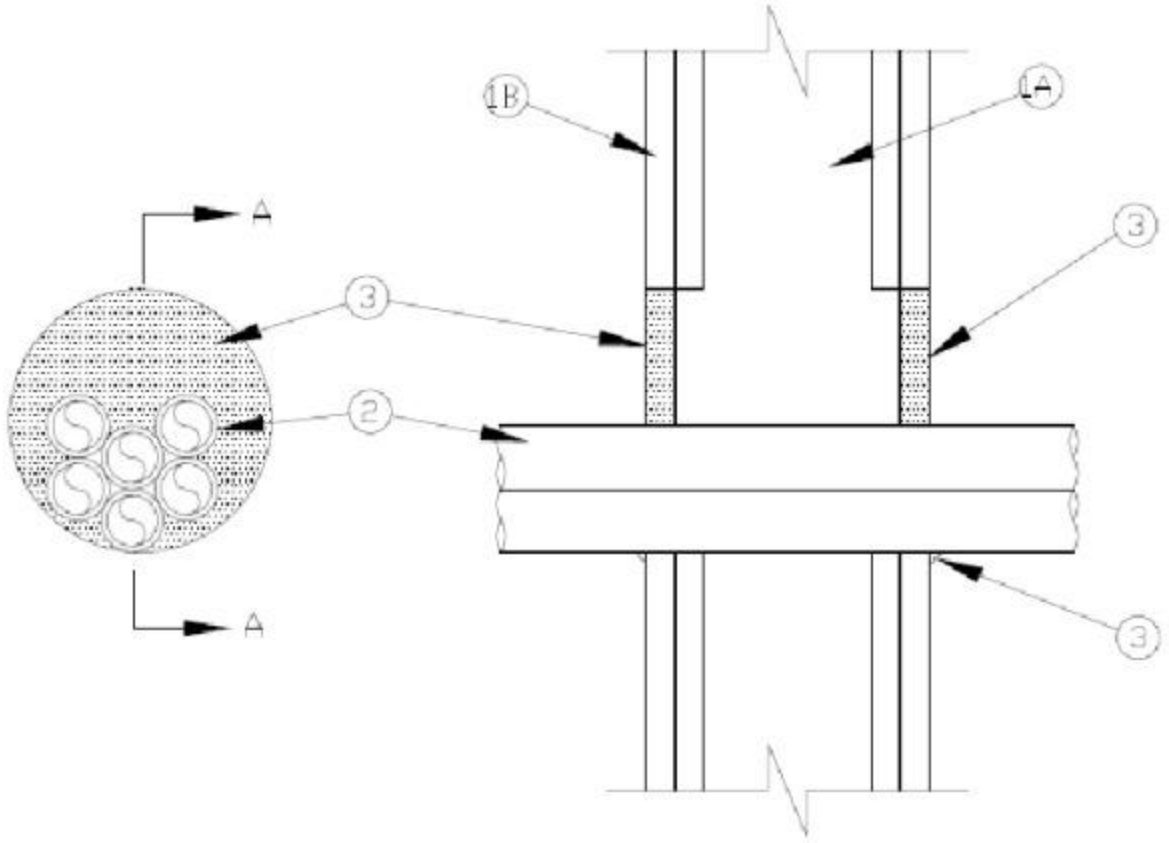
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-1464

January 26, 2015

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Item 1)	F Ratings - 1 and 2 Hr (See Item 1)
T Ratings - 0 and 1-1/2 Hr (See Item 1)	FT Ratings - 0 and 1-1/2 Hr (See Item 1)
	FH Ratings - 1 and 2 Hr (See Item 1)
	FTH Ratings - 0 and 1-1/2 Hr (See Item 1)



SECTION A-A

1. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** Thickness, type, number of layers and orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 5-1/2 in. (140 mm).

The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed. The hourly T, FT and FTH Ratings of the firestop system are 0 and 1-1/2 hr for 1 and 2 hr rated assemblies, respectively.

2. **Through Penetrants —** Max six nom 1 in. (25 mm) diam (or smaller) flexible steel conduits to be installed either concentrically or eccentrically within the firestop system. The annular space between the conduits and the periphery of the opening shall be min 0 in. (point contact) to max 3 in. (76 mm). Conduits to be rigidly supported on both sides of wall.

3. **Fill, Void or Cavity Material* — Sealant —** Min 5/8 in. (16 mm) thickness of sealant applied within annulus, flush with both surfaces of wall. A min 1/2 in. bead of sealant to be applied at the conduit/wall interface at the point contact location.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2015-01-26

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

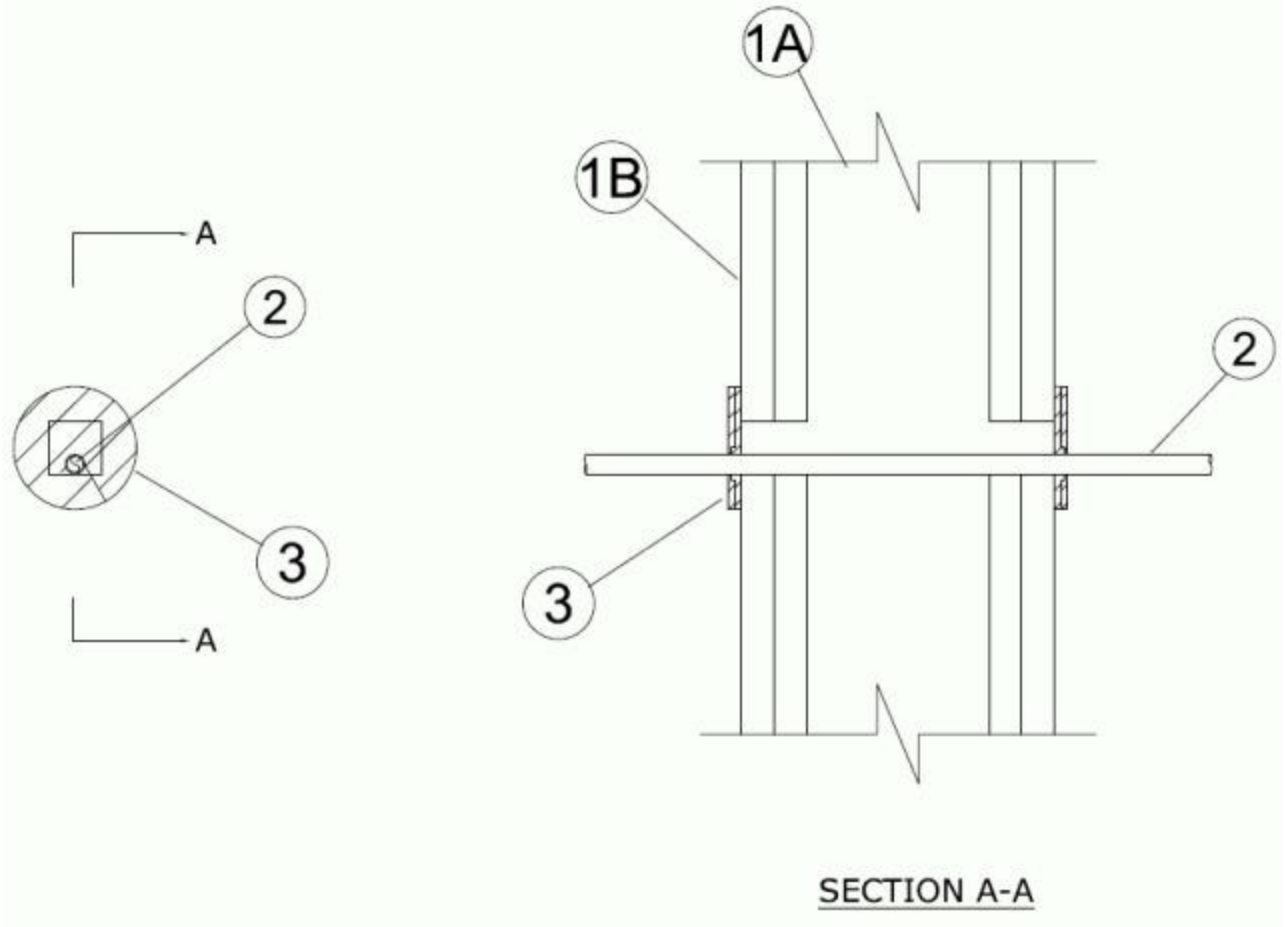
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-1506

April 29, 2020

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 1 and 2 Hr (See Item 1)	FT Ratings — 1 and 2 Hr (See Item 1)
L Rating at Ambient — Less than 1 CFM/Opening	FH Ratings — 1 and 2 Hr (See Item 1)
L Rating at 400 F — Less than 1 CFM/Opening	FTH Ratings — 1 and 2 Hr (See Item 1)
	L Rating at Ambient — Less than 1 CFM/Opening
	L Rating at 400 F — Less than 1 CFM/Opening



1. **Wall Assembly —** The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 in. (51 mm) by 4 in. (102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** 5/8 in. (16 mm) thick, 4 ft (1219 cm) wide with square or tappered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Opening may be round, rectangular or irregular with a max diam or dimension of 1 in. (25 mm), or round with a max diam of 1-1/8 in. (29 mm).

The hourly F, FH, FT and FTH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Through Penetrant —** Max one metallic pipe, tubing or conduit installed either concentrically or eccentrically within the firestop system. The annular space between penetrant and periphery of the opening shall be min 0 in. (point contact). When opening dimension exceeds 1 in. (25 mm), the max annular space is 3/8 in. (9.5 mm). Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of pipes, tubing or conduit may be used:

A. **Steel Pipe —** Nom 3/4 in. (19 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 3/4 in. (19 mm) diam (or smaller) cast or ductile iron pipe.

C. **Copper Tubing —** Nom 1/2 in. (13 mm) diam (or smaller) Type L and Type K (or heavier) copper tubing.

D. **Copper Pipe —** Nom 1/2 in. (13 mm) diam (or smaller) Regular (or heavier) copper pipe.

E. **Conduit —** Nom 3/4 in. (19 mm) diam (or smaller) rigid or flexible steel conduit.

F. **Conduit —** Nom 3/4 in. (19 mm) diam (or smaller) electrical metallic tubing (EMT).

3. **Fill, Void or Cavity Material* —** Nom 60 mm diam by 3 mm thick putty disc with one seam at radius. Paper-backer of disc to be removed and disc firmly pressed around the penetrant lapping nom 5 mm onto penetrant to completely cover opening and firmly pressed to lap onto the wall around periphery of opening. Disc seam to be firmly pressed and sealed tight, Disc to be installed at both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-D 1" Firestop Putty Disc

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2020-04-29

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

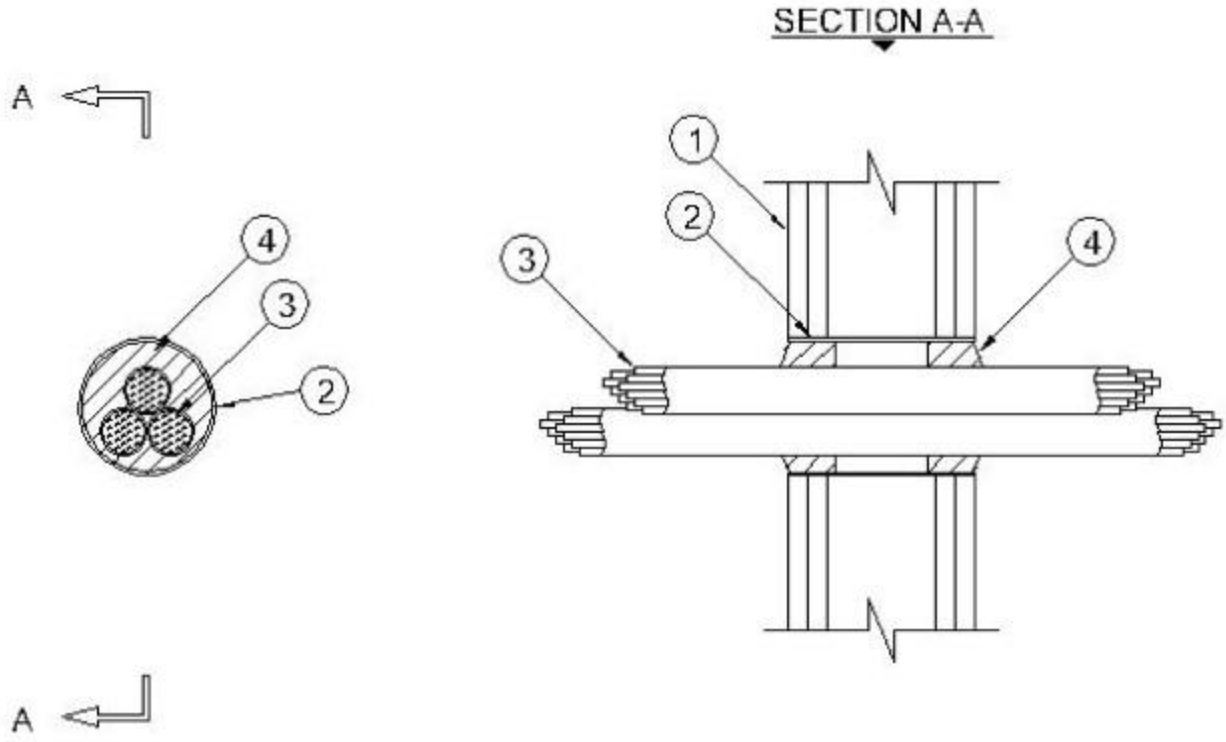
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-2568

January 28, 2015

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 0 and 1 Hr (See Item 2)	FT Ratings — 0 and 1 Hr (See Item 2)
	FH Ratings — 1 and 2 Hr (See Item 1)
	FTH Ratings — 0 and 1 Hr (See Item 2)



System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

1. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** One or two layers of gypsum board, as specified in the individual Wall and Partition Design. Max diam of opening is 5-1/2 in. (140 mm).

The hourly F and FH Ratings of the firestop system are equal to the hourly rating of the wall assembly in which it is installed.

2. **Steel Sleeve —** Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel sleeve or nom 4 in. (102 mm) diam (or smaller) rigid steel conduit or electrical metallic tubing. Sleeve to be flush with wall surfaces or may extend up to 12 in. (305 mm) beyond either or both wall surfaces. The annular space between steel sleeve and periphery of opening shall be min 0 in. (continuous point contact) to max 1 in. (25 mm).

When sleeve extends beyond wall surface the T, FT and FTH Ratings are 0 Hr.

3. **Cables —** One max 3 in. (76 mm) diam flexible nylon **Optical Fiber Raceway Assembly**+ with a max of three 1-1/2 in. (38 mm) diam cells to have a max 80 percent cable fill for each cell. Aggregate cross-sectional area of bundled cables in opening to be max 60 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening or sleeve to be min 0 in. (point contact) to max 3 in. (76 mm). Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types and sizes of cables may be used:

See **Optical Fiber Raceway Assemblies** (QAZQ) category in the Electrical Construction Directory for names of manufacturers.

A. Max 100 pair No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and jacket.

B. Max 24 fiber optical fiber communication cable jacketed with PVC.

4. **Firestop System —** The firestop system shall consist of the following:

A. **Fill, Void or Cavity Materials* - Plug —** Two nom 4 in. (102 mm) diam (or smaller) plugs firmly installed within the sleeve or opening such that the outer circumference of each dome-shaped plug is flush with both surfaces of the wall or both ends of sleeve. Plugs are cut to fit around the cable bundle and installed tightly within the opening or sleeve.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 658T Firestop Plug or CFS-PL Firestop Plug

B. **Fill, Void or Cavity Material* — Sealant or Putty —** Min 5/8 in. (16 mm) thickness of fill material applied within the annulus between sleeve and periphery of opening, flush with both sides of wall. At point contact, a min 1/2 in. (13 mm) bead of fill material shall be applied at sleeve/wall interface when sleeve extends beyond surface of wall. Additional sealant or putty may or may not be used to fill interstices between cables.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant or CP618 Firestop Putty Stick

+Bearing the UL Listing Mark for Plenum Installations

*Bearing the UL Classification Mark

Last Updated on 2015-01-28

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems

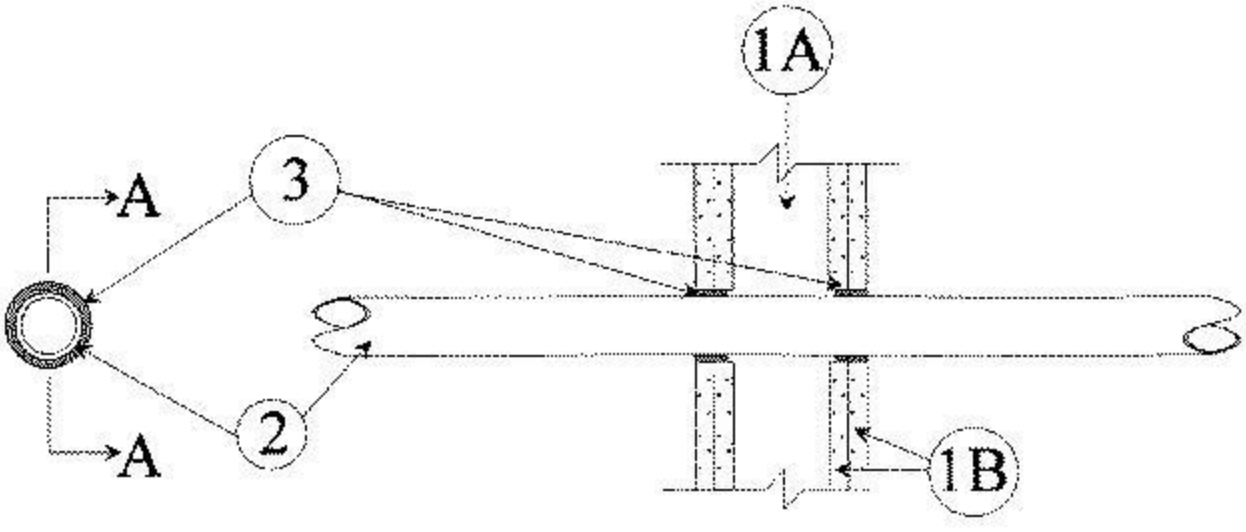
See General Information for Through-penetration Firestop Systems

System No. W-L-2708

January 30, 2019

F Ratings — 1 and 2 Hr (See Item 1)

T Rating — 0 Hr



SECTION A-A

1. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and

shall include the following construction features:

A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** Min 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide with square on tapered edges. The gypsum wallboard type, thickness, number of layers and orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 3 in. (76 mm)

The hourly F rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Through Penetrants —** One nonmetallic pipe or tube to be centered within the firestop system with a nom 5/16 in. (8 mm) annular space. Pipe or tube to be rigidly supported on both sides of wall assembly. The following types and sizes of pipes may be used:

A. **Polyvinyl Chloride (PVC) Pipe —** Nom 2 in. (51 mm) diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

B. **Acrylonitrile Butadiene Styrene (ABS) Pipe —** Nom 2 in. (51 mm) diam (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

C. **Chlorinated Polyvinyl Chloride (CPVC) Pipe —** Nom 2 in. (51 mm) diam (or smaller) SDR 17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

D. **Crosslinked Polyethylene (PEX) Tubing —** Nom 1 in. (25 mm) diam (or smaller) SDR 9 PEX tube for use in closed (process or supply) piping systems.

3. **Fill, Void or Cavity Material* — Wrap Strip —** Nom 1/4 in. (6 mm) thick by 1 in. (25 mm) wide intumescent wrap strip. The wrap strip is continuously wrapped around the outer circumference of the pipe once and slid into annular space such that the ends are flush with the surface of the wall. Wrap strips are installed on each surface of the wall.
RELIANCE WORLDWIDE CORPORATION DBA HOLDRITE HYDROFLAME — HydroFlame Wrap Strip

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2019-01-30

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

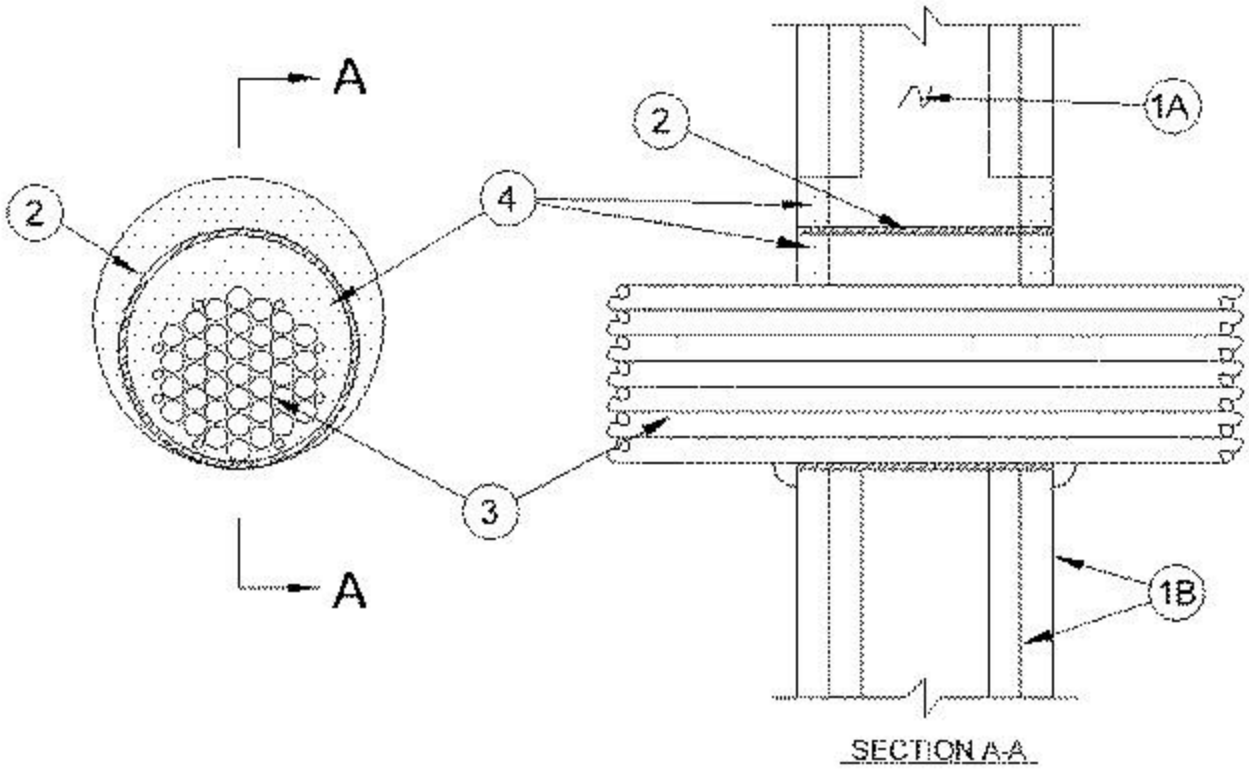
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-3065

October 14, 2015

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 1 and 2 Hr (See Item 1)	F Rating — 1 and 2 Hr (See Item 1)
T Rating — 0 and 3/4 Hr (See item 3)	FT Rating — 0 and 3/4 Hr (See item 3)
L Rating At Ambient — 15 CFM/sq ft	FH Rating — 1 and 2 Hr (See Item 1)
L Rating At 400 F — 8 CFM/sq ft	FTH Rating — 0 and 3/4 Hr (See item 3)
	L Rating At Ambient — 15 CFM/sq ft
	L Rating At 400 F — 8 CFM/sq ft



SECTION A-A

1. **Wall Assembly —** The 1 or 2 fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** Nom 5/8 in. (16 mm) thick gypsum board, with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory. Max diam of opening is 5-1/2 in. (138 mm) when sleeve (Item 2) is employed. Max diam of opening is 4 in. (102 mm) when sleeve (Item 2) is not employed.

The F, FH Ratings of the firestop system are equal to the fire rating of the wall assembly.

2. **Metallic Sleeve —** (Optional) - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or Schedule 5 (or heavier) steel pipe or min 0.016 in. thick (0.41 mm, No. 28 ga) galv steel sleeve installed flush with wall surfaces. The annular space between steel sleeve and periphery of opening shall be min 0 in. (0 mm, point contact) to max 1 in. (25mm). When Schedule 5 steel pipe or EMT is used, sleeve may extend up to 18 in. (457 mm) beyond the wall surfaces. As an option when Schedule 5 steel pipe or EMT is used, sleeve may extend continuously beyond one wall surface. When cable bundle penetrates wall assembly at an angle of 45 degrees, no metallic sleeve is used.

3. **Cables —** Aggregate cross-sectional area of cable in opening to be max 45 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening to be min 0 in. (point contact) to max 1 in. (25 mm). When sleeve is continuous on one side of wall (see Item 2), the cable fill may be 0 to 45% and the max annular space is not limited. Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types and sizes of copper conductor cables may be used:

A. Max 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and jacket.

B. Max 25 pair No. 24 AWG telephone cable with PVC insulation and jacket.

B1. Max 4 pr No. 22 AWG Cat 5 or Cat 6 computer cables.

C. Type RG/U coaxial cable with polyethylene (PE) insulation and PVC jacket having a max outside diameter of 1/2 in. (13 mm).

C1. Max RG 6/U coaxial cable with fluorinated ethylene insulation and jacketing.

D. Multiple fiber optical communication cable jacketed with PVC and having a max OD of 5/8 in. (16 mm).

E. Through Penetrating Products*— Max three copper conductor No. 8 AWG .**Metal-Clad Cable+**.
AFC CABLE SYSTEMS INC

F. Max 3/C (with ground)(or smaller) No. 8 AWG copper conductor cable with PVC insulation and jacketing.

G. Max 3/4 in. (19 mm) diam copper ground cable with or without a PVC jacket.

H. Fire Resistive Cables* - Max 1-1/4 in. (32 mm) diam single conductor or multi conductor Type MI cable. A min 1/8 in. (3 mm) separation shall be maintained between MI cables and any other types of cable.

I. Max 4/C with ground 300 kcmil (or smaller) aluminum SER cable with PVC insulation and jacket.

J. **Through Penetrating Product*** - Any cables, **Metal-Clad Cable+** or **Armored Cable+** currently Classified under the **Through Penetrating Products** category.

K. Maximum 3/C No. 8 AWG metal-clad cable.

L. Maximum 5/8 diam fiber-optic cable with PVC jacket.
For cable bundle penetrating the wall assembly at an angle of 45 degrees, the T, FT, FTH Ratings are 0 hr and 3/4 hr for 1 and 2 hr wall assemblies, respectively.

See **Through Penetrating Product** (XHLY) category in the Fire Resistance Directory for names of manufacturers.

4. **Fill, Void or Cavity Material*— Sealant or Putty —** Fill material applied within the annulus, flush with each end of the steel sleeve or wall surface. Fill material installed symmetrically on both sides of the wall. A min 5/8 in. (16 mm) thickness of sealant is required for the 1 or 2 hr F Rating . An additional 1/2 in. (13 mm) diam bead of fill material shall be applied at the interface of sleeve with gypsum board.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP601S, CP606, FS-One Sealants or FS-ONE MAX Intumescent Sealantor or CP618 Putty

5. **Packing Material —** (Optional, Not Shown) — Mineral wool forming material may be used as a backer for the fill material (Item 4). When used, it shall be firmly packed into annular space within the sleeve as a permanent form and recessed from end of sleeve to accommodate the required thickness of fill material.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

+Bearing the UL Listing Mark

Last Updated on 2015-10-14

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems

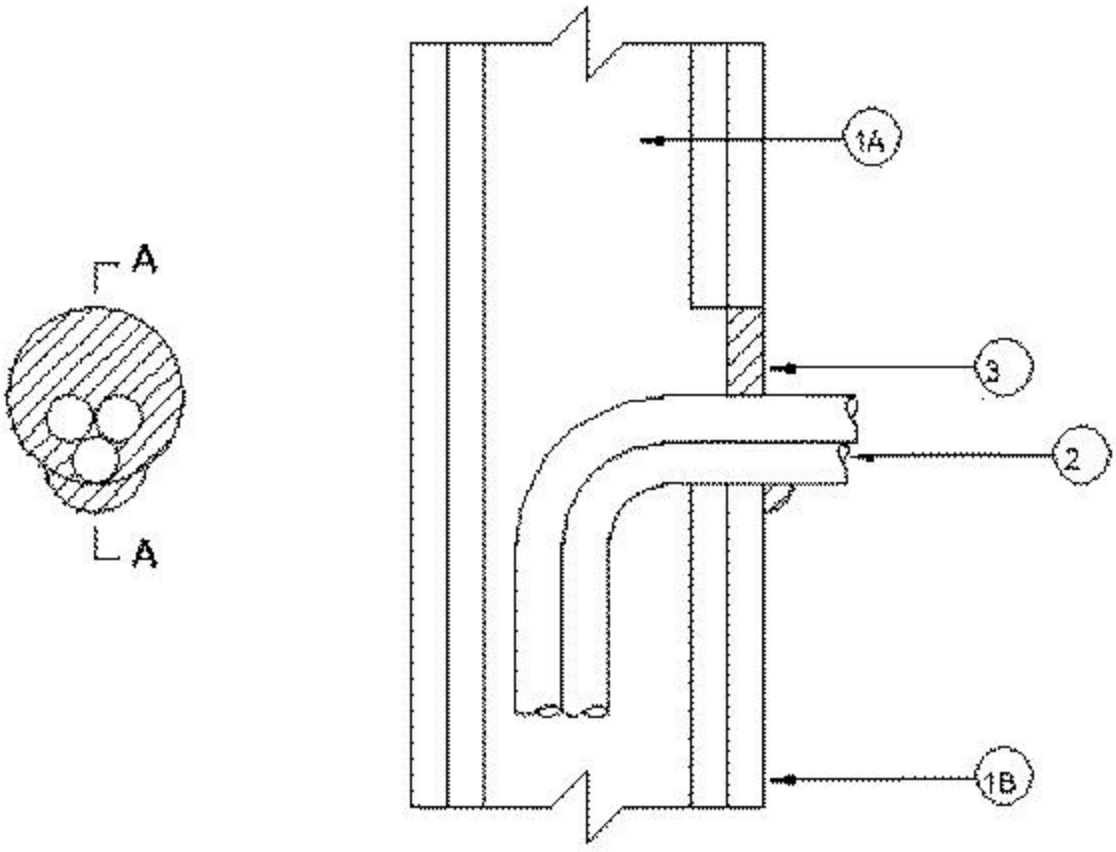
See General Information for Through-penetration Firestop Systems

System No. W-L-3310

February 09, 2015

F Rating — 1 and 2 Hr (See Item 1)

T Rating — 0 Hr



Section A-A

1. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** One or two layers of nom 5/8 in. (16 mm) thick gypsum board as specified in the individual Wall and Partition Design. Max diam of opening is 3 in. (76 mm).

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly.

2. **Cables —** Max of three tightly bundled 3/C (with ground) No. 8 AWG bare copper ground metal clad cables with a PVC jacket. Annular space between cable bundle and periphery of opening shall be a min 0 in. (point contact) to a max 1 in. (25 mm). When FS-One sealant is used, max annular space is 1-1/2 in. (38 mm). Cables to be rigidly supported within 24 in. (610 mm) of wall assembly.

3. **Fill, Void or Cavity Material*— Sealant —** Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with surface of wall. Min 1/2 in. (13 mm) diam bead of sealant applied at point contact location.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant, FS-ONE MAX Intumescent Sealant or CP 606 Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2015-02-09

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

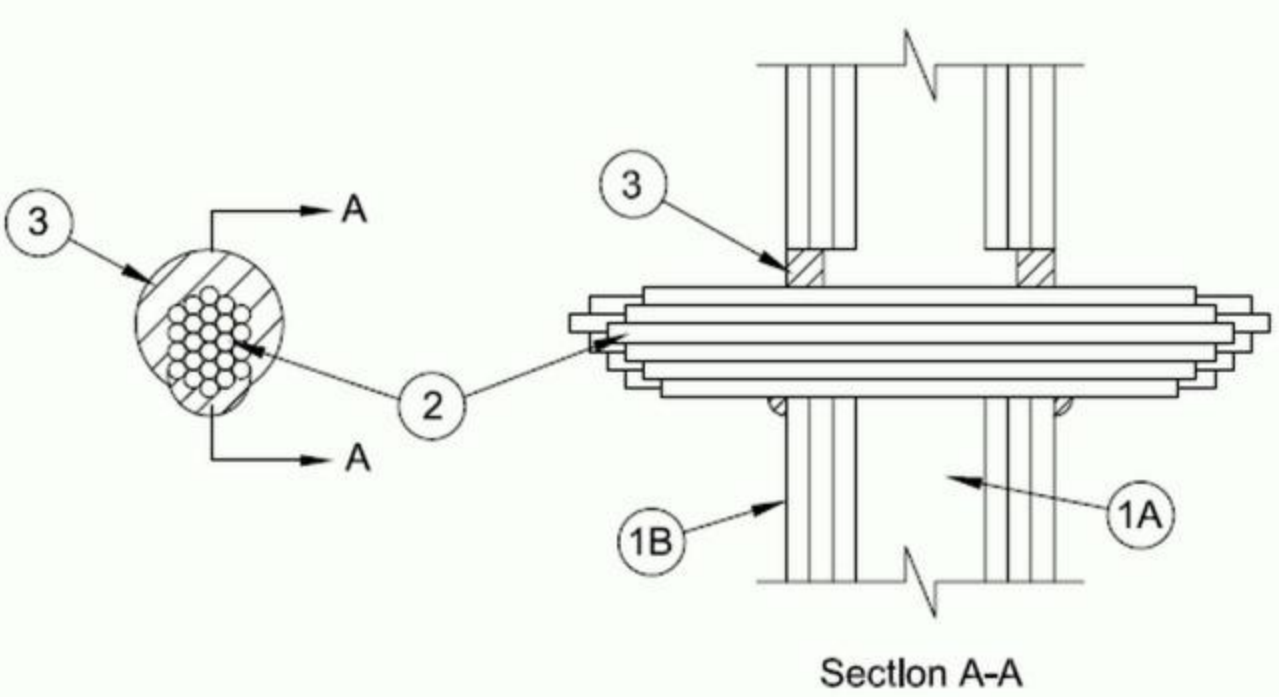
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-3385

October 14, 2015

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1, 2 and 3 Hr (See Item 1)	F Ratings — 1, 2 and 3 Hr (See Item 1)
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Ratings — 1, 2 and 3 Hr (See Item 1)
	FTH Ratings — 0 Hr



1. **Wall Assembly —** The 1, 2 or 3 fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** Nom 5/8 in. (16 mm) thick gypsum board, with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory. Max diam of opening is 4 in. (102 mm).

The F Rating of the firestop system is equal to the fire rating of the wall assembly.

2. **Cables —** Aggregate cross-sectional area of cable in opening to be max 45 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening to be min 0 in. (point contact) to max 7/8 in. (22 mm) Cables to be tightly bundled and rigidly supported on both sides of the wall assembly. Any combination of the following types and sizes of copper conductor cables may be used:

A. Max 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and jacket.

B. Max 25 pair No. 24 AWG telephone cable with PVC insulation and jacket.

C. Max 4 pr No. 22 AWG Cat 5 or Cat 6 computer cables.

D. Type RG/U coaxial cable with polyethylene (PE) insulation and PVC jacket having a max outside diameter of 1/2 in. (13 mm).

E. Max RG 6/U coaxial cable with fluorinated ethylene insulation and jacketing.

F. Multiple fiber optical communication cable jacketed with PVC and having a max OD of 5/8 in. (16 mm).

G. Max three copper conductor No. 8 AWG Metal-Clad Cable+.

H. Max 3/C (with ground) (or smaller) No. 8 AWG copper conductor cable with PVC insulation and jacketing.

I. **Through Penetrating Product* —** Any cables, **Metal-Clad Cable+** or **Armored Cable+** currently Classified under the **Through Penetrating Products** category.

3. **Fill, Void or Cavity Material*— Sealant —** Fill material applied within the annulus, flush with both surfaces of wall. A min 5/8 in. (16 mm) thickness of sealant is required for the 1 or 2 hr F Rating. A min 1 in. (25 mm) thickness of sealant is required for the 3 hr F Rating. An additional 1/2 in. (13 mm) diam bead of fill material shall be applied at the point contact location of cable bundle/gypsum board interface on both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP606 or FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

+Bearing the UL Listing Mark

Last Updated on 2015-10-14

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

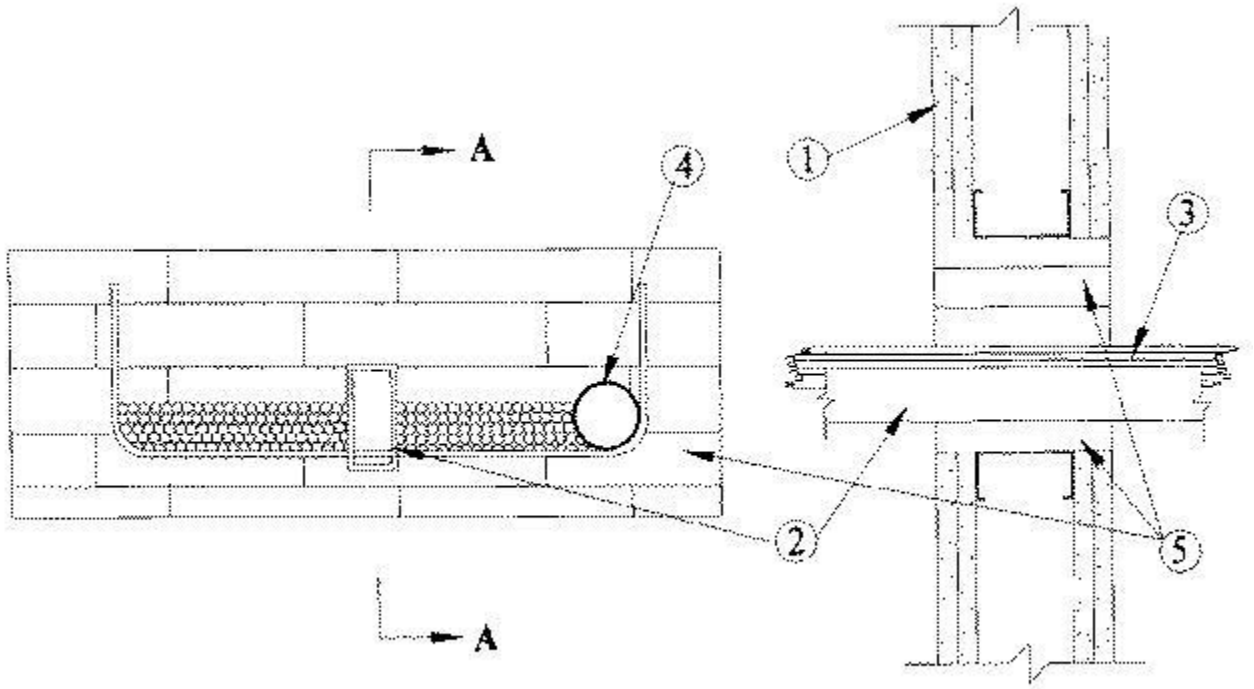
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-4019

July 12, 2016

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Ratings — 1 and 2 Hr (See Item 1)
	FTH Rating — 0 Hr



SECTION A-A

1. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing shall consist of either wood studs or channel shaped steel studs. Wood studs to consist of 2 in. (51 mm) by 4 in. (102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide, fabricated from min 25 MSG galvanized steel, spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** Nom 5/8 in. (16 mm) thick, 4 ft. (1219 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual wall or partition design in the UL Fire Resistance Directory. Max area of opening is 216 in^2 (1394 cm^2) with max dimension of 24 in. (610 mm).

The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Cable Tray+ —** Max 18 in. wide by 6 in. (152 mm) deep "spine" cable tray. The 1-1/2 in. (38 mm) wide by 2-3/4 in. (70 mm) deep tubular spine formed of 0.121 in. (3 mm) thick aluminum. The 6 in. (152 mm) deep "U" shaped rungs spaced 6 in. (152 mm) OC formed from 1/2 in. (13 mm) by 1/2 in. (13 mm) extruded aluminum tube. One cable tray to be installed in opening. The max annular space between the periphery of the opening shall be min 1 in. (25 mm) to 2-5/8 in. (67 mm) max. Cable tray to be rigidly supported on both sides of wall assembly.

3. **Cables —** Aggregate cross-sectional area of cables in cable tray to be max 22 percent of the cross-sectional area of the cable tray based on a max 6 in. (152 mm) cable loading depth within the cable tray. Any combination of the following types and sizes of cables may be used:

A. 6 pair - No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and PVC jacket.

B. 24 fiber optic cable with polyvinyl chloride (PVC) outer and subunit jacket.

C. 3 pair No. 24 AWG CMP computer cable with polyvinyl chloride (PVC) insulation and jacket.

D. Type RGU/59 coaxial cable with polyethylene (PE) insulation and polyvinyl (PVC) jacket.

E. The 2/C No. 10 AWG cable with ground with polyvinyl (PVC) insulation and jacket.

F. 3/C No. 12 AWG MC cable with polyvinyl chloride (PVC) insulation in a nominal 1/2 in. (13 mm) flexible metal conduit.

4. **Electrical Nonmetallic Tubing (ENT) —** One nom 2 in. (51 mm) diam (or smaller) corrugated wall ENT constructed of polyvinyl chloride.

See **Electrical Nonmetallic Tubing** (FKHU) category in the Electrical Construction Materials Directory for names of manufacturers.

5. **Firestop System —** The firestop system shall consist of the following:

A. **Fill, Void or Cavity Material* —** Fire blocks installed min. 5 in. (127 mm) dimension passing through the opening. Blocks to be firmly packed and completely fill the entire opening. Either one or a combination of the block types specified below may be used.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-BL Firestop Block

B. **Fill, Void or Cavity Material* —** Fill material to be forced into interstices of cables, between cables and cable tray and in obvious openings between blocks and between blocks and the periphery of the opening to the max extent possible on both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant, FS-ONE MAX Intumescent Sealant or CP 618 Firestop Putty Stick

* Bearing the UL Classification Marking

+ Bearing the UL Listing Mark

Last Updated on 2016-07-12

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

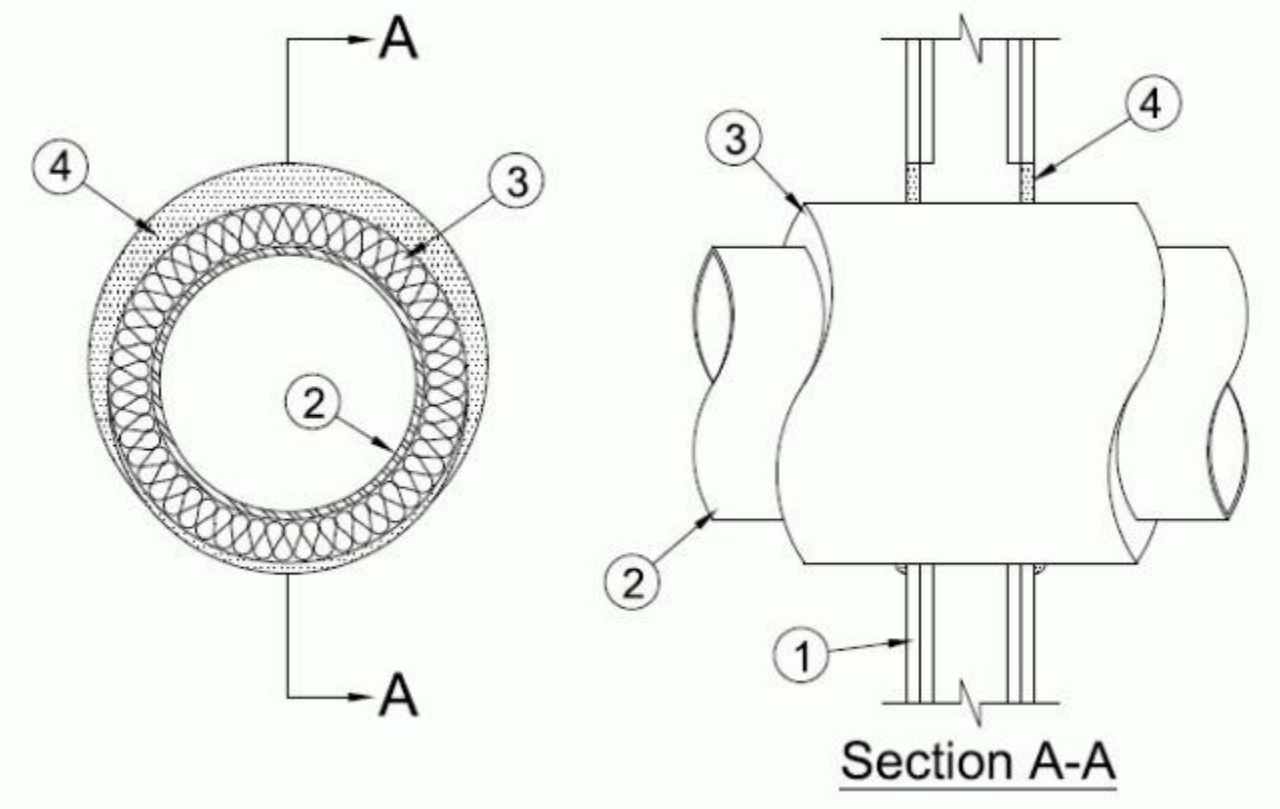
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-5029

July 17, 2015

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1, 2 and 3 Hr (See Items 1, 3 and 4)	F Ratings — 1, 2 and 3 Hr (See Items 1, 3 and 4)
T Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)	FT Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)
L Rating At Ambient — 4 CFM/Sq Ft	FH Ratings — 1, 2 and 3 Hr (See Items 1, 2 and 4)
L Rating At 400 F — Less Than 1 CFM/Sq Ft	FTH Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)
	L Rating At Ambient — 4 CFM/Sq Ft
	L Rating At 400 F — Less Than 1 CFM/Sq Ft



1. **Wall Assembly —** The 1, 2 or 3 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide for 1 and 2 hr F and FH rating and 3-1/2 in. (89 mm) wide for 3 hr F and FH rating and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** Min 5/8 in. (16 mm) thick with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 18-5/8 in. (473 mm).
The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Through Penetrants —** One metallic pipe or tubing to be installed within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:

A. **Steel Pipe —** Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.

C. **Copper Tubing —** Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing. **When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper tube shall not exceed 4 in. (102 mm).**

D. **Copper Pipe —** Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe. **When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper pipe shall not exceed 4 in. (102 mm).**

3. **Pipe Covering* —** Nom 1, 1-1/2 or 2 in. (25, 38 or 51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m^3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. For 1 and 2 hr F and FH Ratings, the annular space between insulated penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm). For 3 hr F and FH Ratings, the annular space shall be min 0 in. (point contact) to max 1-1/4

in. (32 mm).
See **Pipe and Equipment Covering — Materials** (BRGU) category in the Building Material Directory for the names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

The hourly T, FT, FTH Ratings of the firestop system are 1/2 hr for 1 hr rated walls and 1 hr for 2 hr rated walls. For 3 hr rated walls, the hourly T, FT and FTH Ratings when steel and iron pipes are used are 1 hr. For 3 hr rated walls, the hourly T, FT and FTH Ratings when copper penetrants are used are 1-1/4 hr for 2 in. (51 mm) thick pipe covering and 0 hr for pipe covering thickness less than 2 in. (51 mm).

3A. **Pipe Covering* —** (Not Shown) — As an alternate to Item 3, max 2 in. (51 mm) thick cylindrical calcium silicate (min 14 pcf) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 18 AWG stainless steel wire spaced max 12 in. (305 mm) OC. When the alternate pipe covering is used, the T and FT Rating shall be as specified in item 3 above.
See **Pipe and Equipment Covering — Materials** (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

4. **Fill, Void or Cavity Material* — Sealant —** For 1 and 2 hr F and FH Rating, min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. For 3 hr F and FH Rating, min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe covering and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2015-07-17

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

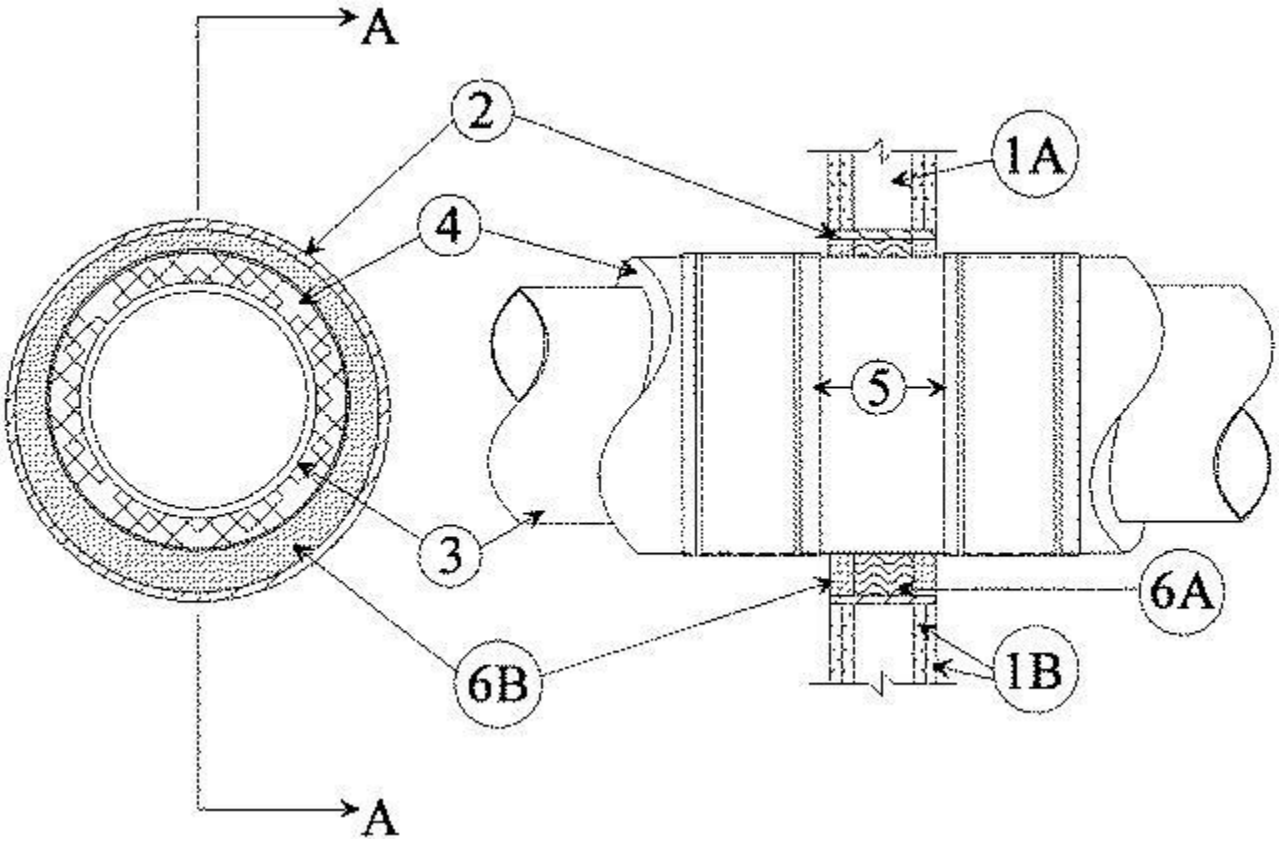
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-5046

December 21, 2017

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 1 & 2 Hr (See Item 6)	F Rating — 1 & 2 Hr (See Item 6)
T Rating — 0 & 1 Hr (See Item 4)	FT Rating — 0 & 1 Hr (See Item 4)
	FH Rating — 1 & 2 Hr (See Item 6)
	FTH Rating — 0 & 1 Hr (See Item 4)



1. **Wall Assembly —** The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** Nom 5/8 in. (16 mm) thick gypsum wallboard, as specified in the individual Wall and Partition Design. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls and 22 in. (559 mm) for steel stud walls.

2. **Metallic Sleeve —** Nom 22 in. (559 mm) diam (or smaller) Schedule 40 (or thinner) steel pipe cast into wall assembly with joint compound and installed flush with wall surfaces.

3. **Through Penetrants —** One metallic pipe or tubing to be positioned within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The annular space shall be min 3/4 in. (19 mm) to max 3 in. (76 mm). The following types and sizes of metallic pipes or tubing may be used:

A. **Steel Pipe —** Nom 12 in. (305 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.

B. **Copper Tubing —** Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

C. **Copper Pipe —** Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

4. **Pipe Covering Materials* — Cellular Glass Insulation —** Nom 1-1/2 in. (38 mm) or 3 in. (76 mm) thick cellular glass pipe insulation sized to the outside diam of the steel pipe or tube and installed in accordance with the manufacturer's instructions. T Rating is 0 hr when nom 1-1/2 in. (38 mm) thick pipe insulation is used in 1 hr and 2 hr fire-rated wall assembly. T Rating is 0 hr when nom 3 in. (76 mm) thick pipe insulation is used in 1 hr fire-rated wall assembly. T Rating is 1 hr when nom 3 in. (76 mm) thick pipe insulation is used in 2 hr fire-rated wall assembly.

5. **Metal Jacket (Optional) —** Min 12 in. (305 mm) long jacket formed of min 0.010 in. (.254 mm) thick steel or aluminum sheet cut to wrap tightly around the pipe insulation with a min 2 in. (51 mm) lap. Jacket secured with min 1/2 in. (13 mm) wide stainless steel hose clamps or bands located within 2 in. (51 mm) of each end of the jacket and spaced a max of 10 in. (254

mm) OC. Jacket to be installed with abutting surface of sealant (Item 6B) on both surfaces of wall. Metal jacket to be used in addition to any other jacketing material which may be required or desired on the pipe insulation.

6. **Firestop System —** Installed symmetrically on both sides of the wall. **The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.**

A. **Packing Material —** Min 2-1/4 or 3-1/2 in. (57 to 89 mm) thickness of min 4.0 pcf (64 kg/m^3) mineral wool batt insulation firmly packed into opening as a permanent form for 1 or 2 hr walls, respectively. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material* — Sealant —** Min 3/4 in. (19 mm) thickness of fill material applied within the annulus, flush with both surfaces of the wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2017-12-21

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

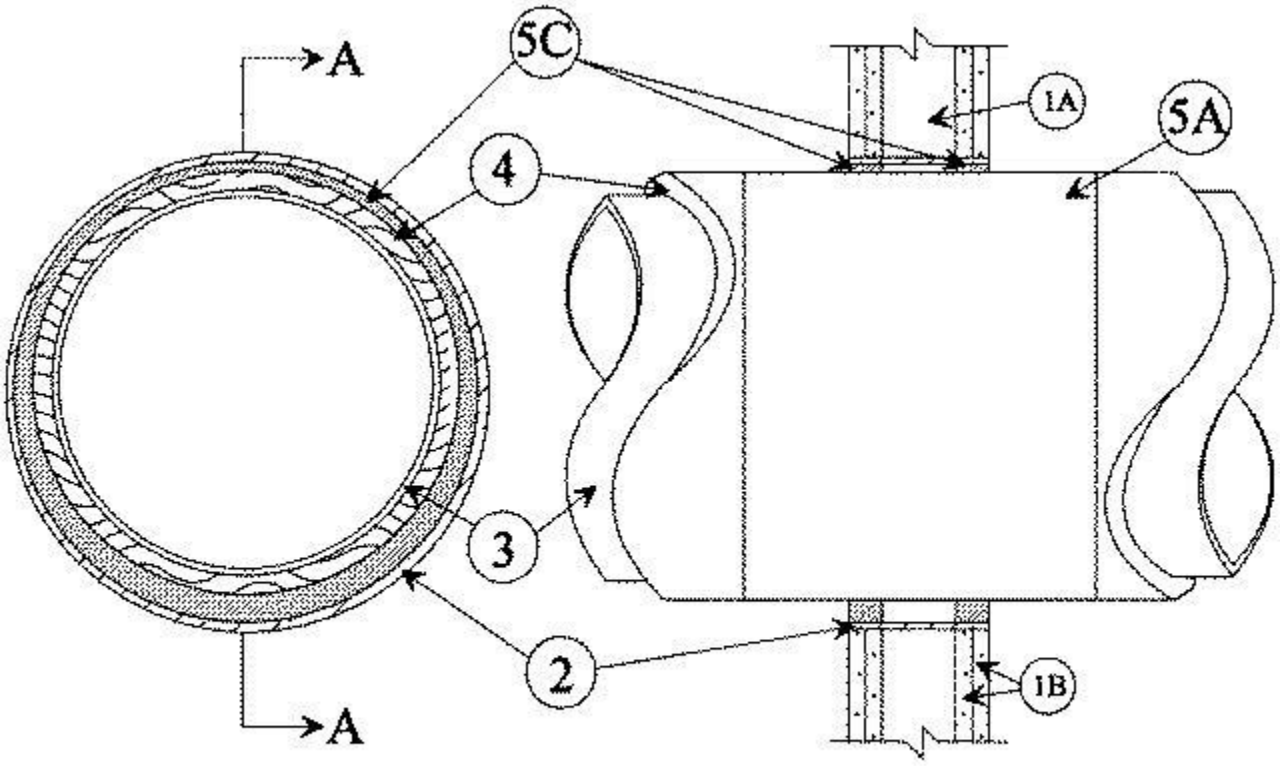
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-5047

January 27, 2015

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 1 & 2 Hr (See Item 1)	F Rating — 1 & 2 Hr (See Item 1)
T Rating — 0 & 1-1/2 Hr (See Item 1)	FT Rating — 0 & 1-1/2 Hr (See Item 1)
	FH Rating — 1 & 2 Hr (See Item 1)
	FTH Rating — 0 & 1-1/2 Hr (See Item 1)



SECTION A-A

1. **Wall Assembly —** The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400. V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of the stud cavity, the opening shall be framed on all sides using lengths of studs installed between the vertical studs and attached to the studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the metallic sleeve (Item 2) such that a clearance of 2 to 3 in. (51 to 76 mm) is present between the sleeve and the framing on all four sides.

B. **Gypsum Board* —** Two layers of nom 5/8 in. (16 mm) thick gypsum board, as specified in the individual Wall and Partition Design. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls and 30 in. (762 mm) for steel stud walls.

The hourly F, FH Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. The T, FT, FTH Rating is 0 hr when installed in 1 hr wall assembly or when optional metallic sleeve (Item 2) is used. The T, FT, FTH Rating is 1-1/2 hr when installed in 2 hr wall assembly and optional sleeve is not used.

2. **Metallic Sleeve (Optional) —** Nom 30 in. (762 mm) diam (or smaller) Schedule 40 (or thinner) steel pipe cast into wall assembly with joint compound and installed flush with wall surfaces.

3. **Through Penetrants —** One metallic pipe or tubing to be positioned within the firestop system. Pipe or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubing may be used:

A. **Steel Pipe —** Nom 20 in (508 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 20 in. (508 mm) diam (or smaller) cast or ductile iron pipe.

C. **Copper Tubing —** Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

D. **Copper Pipe —** Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

4. **Pipe Covering* —** 1 to 3 in. (25 to 76 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m^3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners of factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. Pipe covering to terminate 6 in. (152 mm) from each side of the assembly.

5. **Firestop System —** The firestop system shall consist of the following:

A. **Pipe Covering Materials* —** Nom 1 to 3 in. (25 to 76 mm) thick unfaced mineral fiber pipe insulation sized to the outside diam of pipe or tube and extending 6 in. (152 mm) beyond each surface of the wall surface. Pipe insulation secured with min 18 AWG steel wire 3 in. (76 mm) beyond each surface of the wall assembly. When steel sleeve is not used, the annular space shall be min 1/4 in. (6 mm) to max 3 in. (76 mm), or when sleeve is used, min 1 in. (25 mm) to max 2-1/4 in. (57 mm).
INDUSTRIAL INSULATION GROUP L L C — High Temperature Pipe Insulation 1200, High Temperature Pipe Insulation BWT or High Temperature Pipe Insulation Thermaloc

B. **Sheathing Material* —** All service jacket material shall be wrapped around the outer circumference of the pipe covering material (Item 4A) with kraft side exposed. Longitudinal joints sealed with metal fasteners or self-sealing lap tape.
See **Sheathing Material** (BVDV) category in the Building Materials Directory for names of manufacturers. Any sheathing material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

C. **Fill, Void or Cavity Material* — Sealant —** Min 5/8 in. or 1-1/4 in. (16 mm or 32 mm) thickness of fill material applied within the annulus flush with both surfaces of wall, for 1 or 2 hr walls, respectively.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant-

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2015-01-27

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

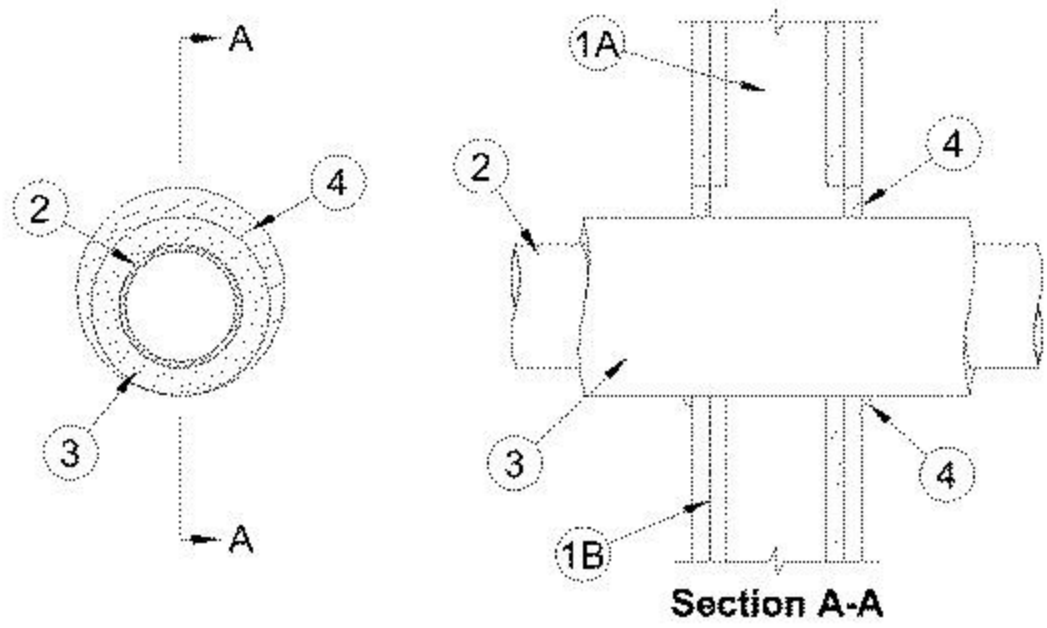
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-5257

January 26, 2015

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 0 and 1 Hr (See Items 1 and 3)	FT Ratings — 0 and 1 Hr (See Items 1 and 3)
L Rating At Ambient — 4 CFM/sq 4 ft (See Item)	FH Ratings — 1 and 2 Hr (See Item 1)
L Rating At 400 F — Less Than 1 CFM/sq ft (See Item)	FTH Ratings — 0 and 1 Hr (See Items 1 and 3)
	L Rating At Ambient — 4 CFM/sq ft (See Item)
	L Rating At 400 F — Less Than 1 CFM/sq ft (See Item)



1. **Wall Assembly —** The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** 5/8 in. (16 mm) thick, 4 ft (122 cm) wide, with square or tapered edges. Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. Max diam of opening is 8 in. (203 mm). **The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed. The hourly T, FT and FTH Ratings of the firestop system are 1 hr for 2 hr fire rated walls and 0 hr for 1 hr fire rated walls.**

2. **Through Penetrant —** One metallic pipe or tube to be installed eccentrically or concentrically within the firestop system. Pipe or tube to be rigidly supported on both sides of the wall assembly. The following types and sizes of metallic pipes and tubes may be used:

A. **Steel Pipe —** Nom 4 in. (102 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.

C. **Copper Pipe —** Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.

D. **Copper Tube —** Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tube.

3. **Pipe Covering* —** Min 1 in. (25 mm) to max 1-1/2 in. (38 mm) thick hollow cylindrical heavy density (3.5 pcf or 24 kg/m3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between the insulated pipe and the periphery of the opening shall be min 0 in. (point contact) to max 7/8 in. (22 mm). **When pipe covering material thickness is less than 1-1/2 in. (38 mm), the T, FTand FTH Ratings are 0 Hr.**

See **Pipe Equipment Covering — Materials**— (BRGU) Category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

4. **Fill, Void or Cavity Material* — Sealant —** Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall assembly. At point contact location, min 1/2 in. (13 mm) diam bead of fill material applied at insulated

metallic pipe/wall interface on both surfaces of wall. **L Ratings apply only when FS-One Sealant is used.**

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant, FS-ONE MAX Intumescent Sealant, CFS-S-SIL GG Sealant, CP 606 Sealant or CP 601S Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2015-01-26

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

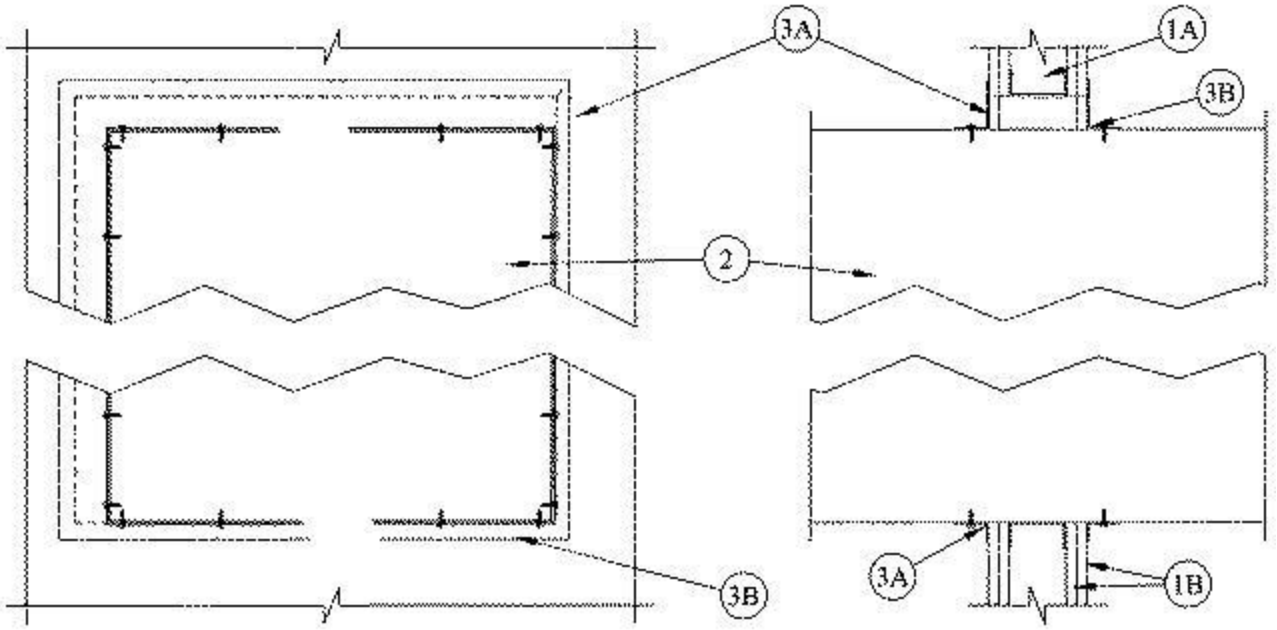
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-7040

September 16, 2015

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Items 1 and 3)	F Ratings - 1 and 2 Hr (See Items 1 and 3)
T Rating - 0 Hr	FT Rating - 0 Hr
L Rating at Ambient - Less Than 1 CFM/sq ft	FH Ratings - 1 and 2 Hr (See Items 1 and 3)
L Rating at 400°F - Less Than 1 CFM/sq ft	FTH Rating - 0 Hr
	L Rating at Ambient - Less Than 1 CFM/sq ft
	L Rating at 400°F - Less Than 1 CFM/sq ft



SECTION A-A

1. **Wall Assembly —** The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (61 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm). Additional framing members shall be used to completely frame around opening.

B. **Gypsum Board* —** Nom 5/8 in. (16 mm) thick with square or tapered edges. The gypsum wallboard type, number of layers and sheet orientation shall be as specified in the individual Wall and Partition Design Number. Max area of opening is 1300 in.^{2} (0.84 m^2) with the dimension of 50 in. (1.27 m). **The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.**

2. **Steel Duct —** Nom 24 in. by 48 in. (610 by 1219 mm) (or smaller) No. 24 gauge (or heavier) galv steel duct to be installed within the firestop system. The annular space shall be min 0 (point contact) in. to a max 2 in. (51 mm) Duct to be rigidly supported on both sides of the wall assembly.

3. **Firestop System —** The firestop system shall consist of the following:

A. **Fill, Void or Cavity Material*—Sealant —** Min 5/8 in. (16 mm) thickness of fill material applied within annulus flush with both surfaces of wall. At point contact location, a min 1/2 in. (13 mm) diam bead of fill material shall be applied to the wall/duct interface on both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant, FS-ONE MAX Intumescent Sealant, CP601S Elastomeric Firestop Sealant or CP606 Flexible Sealant

B. **Steel Retaining Angle —** No. 18 MSG (0.048 in.) galv steel angles cut to fit contour of duct with a 2 in. overlap on the duct and a min 1 in. overlap on the gypsum board assembly on both sufaces of wall. 2 in. leg of angle secured to duct with min No. 8 by 3/4 in. long sheet metal screws, spaced a max of 6 in. OC. When bead of fill material is used at joint contact locations, angles shall be installed prior to full material curing.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2015-09-16

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

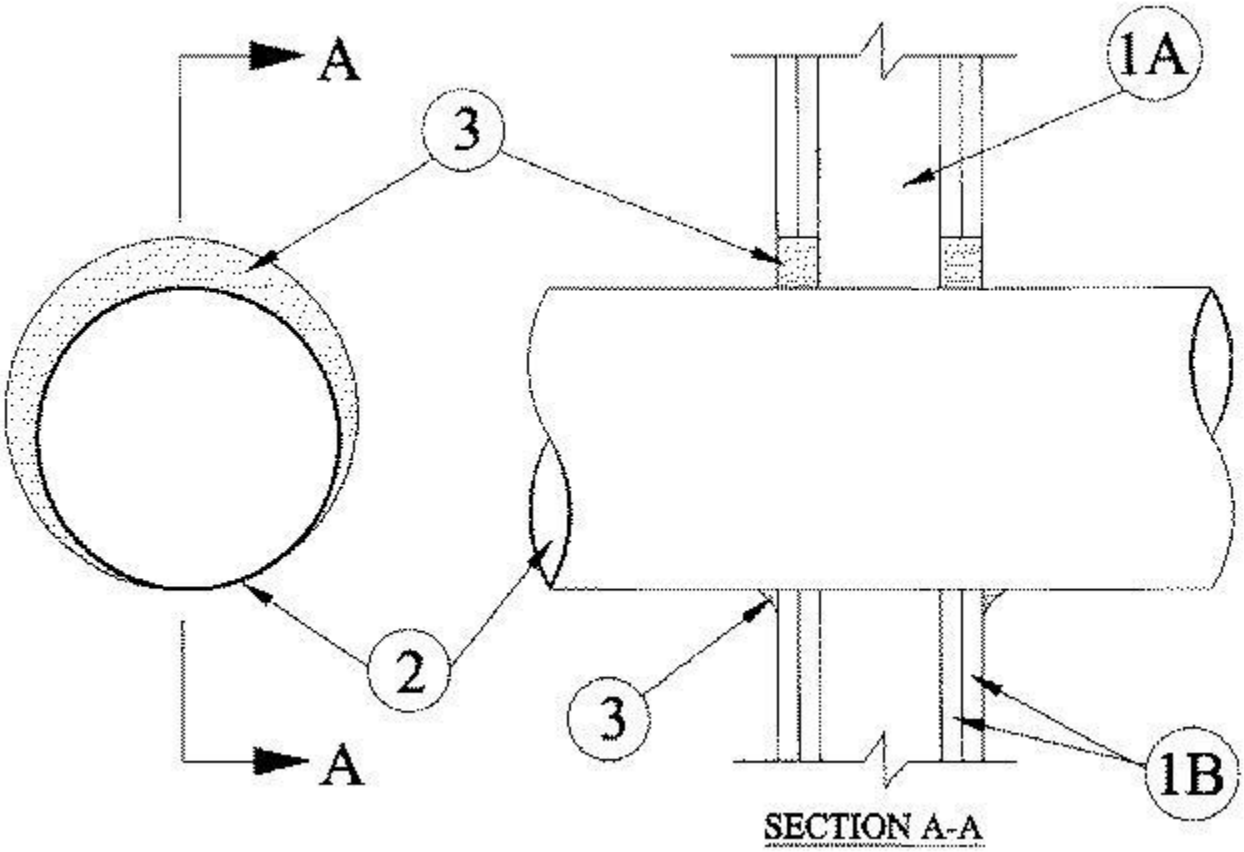
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-7042

October 12, 2017

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Items 1 and 3)	F Ratings - 1 and 2 Hr (See Items 1 and 3)
T Rating - 0 Hr	FT Rating - 0 Hr
	FH Ratings - 1 and 2 Hr (See Items 1 and 3)
	FTH Rating - 0 Hr



SECTION A-A

1. **Wall Assembly —** The 1 or 2 hr fire rated wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features.

A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced 24 in. (610 mm) OC. Additional framing members shall be used to completely frame the opening for all ducts greater than 20 in. (502 mm) diam.

B. **Gypsum Board* —** For 1 hr assembly, one layer of min 5/8 in. (16 mm) thick wallboard as required in the individual Wall and Partition Design. For 2 hr assembly, two layers of min 5/8 in. (16 mm) thick wallboard as required in the individual Wall and Partition Design. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls and 25-1/2 in. (648 mm) for steel stud walls.

The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Through Penetrant —** Galv steel duct to be installed concentrically or eccentrically within the firestop system. The annular space between the duct and periphery of opening shall be 0 in. (0 mm, point contact) and max 1-1/2 in. (64 mm) Duct to be rigidly supported on both sides of wall assembly.

A. **Spiral Wound HVAC Duct —** Nom 24 in. (610 mm) diam (or smaller) No. 28 MSG (or heavier) galv steel spriral wound duct.

B. **Sheet Metal Duct —** Nom 12 in. (305 mm) diam (or smaller) No. 28 MSG (or heavier) galv sheet steel duct.

3. **Fill, Void or Cavity Material*—Sealant —** Min 5/8 in. (16 mm) and 1-1/4 in. (32 mm) thickness of fill material applied within annulus, flush with both surfaces of wall assembly for 1 and 2 hr F Ratings, respectively. When FS-ONE Max is used, min 5/8 in. (16mm) thickness for both 1 and 2 hr F Ratings. At the point contact location between duct and wallboard, a min 1/2 in.

(13 mm) diam bead of sealant shall be applied at the wallboard/duct interface on both surfaces of wall assembly.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP601S Elastomeric Firestop Sealant, FS-ONE Sealant, FS-ONE MAX Intumescent Sealant or CP606 Flexible Firestop Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2017-10-12

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

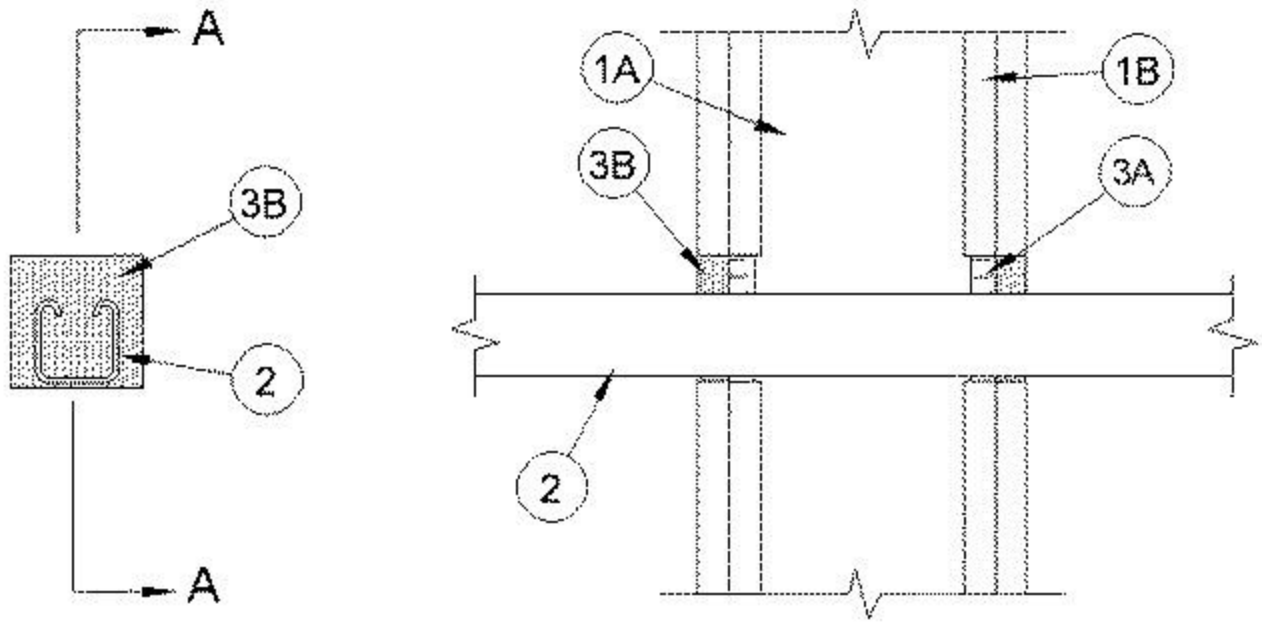
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-7130

January 27, 2015

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Item 1)	F Ratings - 1 and 2 Hr (See Item 1)
T Rating - 0 Hr	FT Rating - 0 Hr
	FH Ratings - 1 and 2 Hr (See Item 1)
	FTH Rating - 0 Hr



Section A-A

1. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** One or two layers of gypsum board, as specified in the individual Wall and Partition Design. Max area of rectangular opening is 15 sq in. (96 cm^2) with max dimension of 5 in. (127 mm). In lieu of rectangular opening max diam of circular opening is 3 in. (76 mm).

The F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly.

2. **Through Penetrants —** One metallic strut, cable, rod or angle service support to be installed within the firestop system. An annular space of min 1/8 in. (3 mm) to max 7/8 in. (22 mm) is required within the firestop system. Strut, cable, rod or angle service support to be rigidly supported on both sides of floor or wall assembly. The strut, cable, rod or angle service support may be installed at an angle not greater than 45 degrees from the perpendicular. The following types and sizes of metallic strut, cable, rod or angle service support may be used:

A. **Steel Strut —** Max 1-5/8 by 1-5/8 in. (41 by 41 mm) channel strut formed from min 0.105 in. (2.7 mm) thick galv or painted steel.

B. **Steel Strut —** Max 3-1/4 by 1-5/8 in. (83 by 41 mm) H strut formed from min 0.105 in. (2.7 mm) thick galv or painted steel.

C. **Cable —** Max 3/8 in. (9.5 mm) diam unjacketed galv steel cable.

D. **Threaded Rod —** Max 1 in. (25 mm) diam galv steel threaded rod.

E. **Steel Angle —** 2 by 2 by 1/8 in. (51 by 51 by 3 mm) thick steel angle.

3. **Firestop System —** The firestop system shall consist of the following:

A. **Packing Material —** Min 1/2 in. (13 mm) thickness of min 4 pcf (64 kg/m^3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be located between penetrant and periphery of opening, and within channels of struts. Packing material to be recessed from both surfaces of wall to accommodate the

required thickness of fill material. When through penetrant is oriented perpendicular to wall or when Type FS-ONE Sealant (Item 3B) is used, packing material is optional.

B. **Fill, Void or Cavity Material* - Sealant —** Min 5/8 in. (16 mm) thickness of fill material applied within the annulus and within the channel struts, flush with both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant, CP 606 Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2015-01-27

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

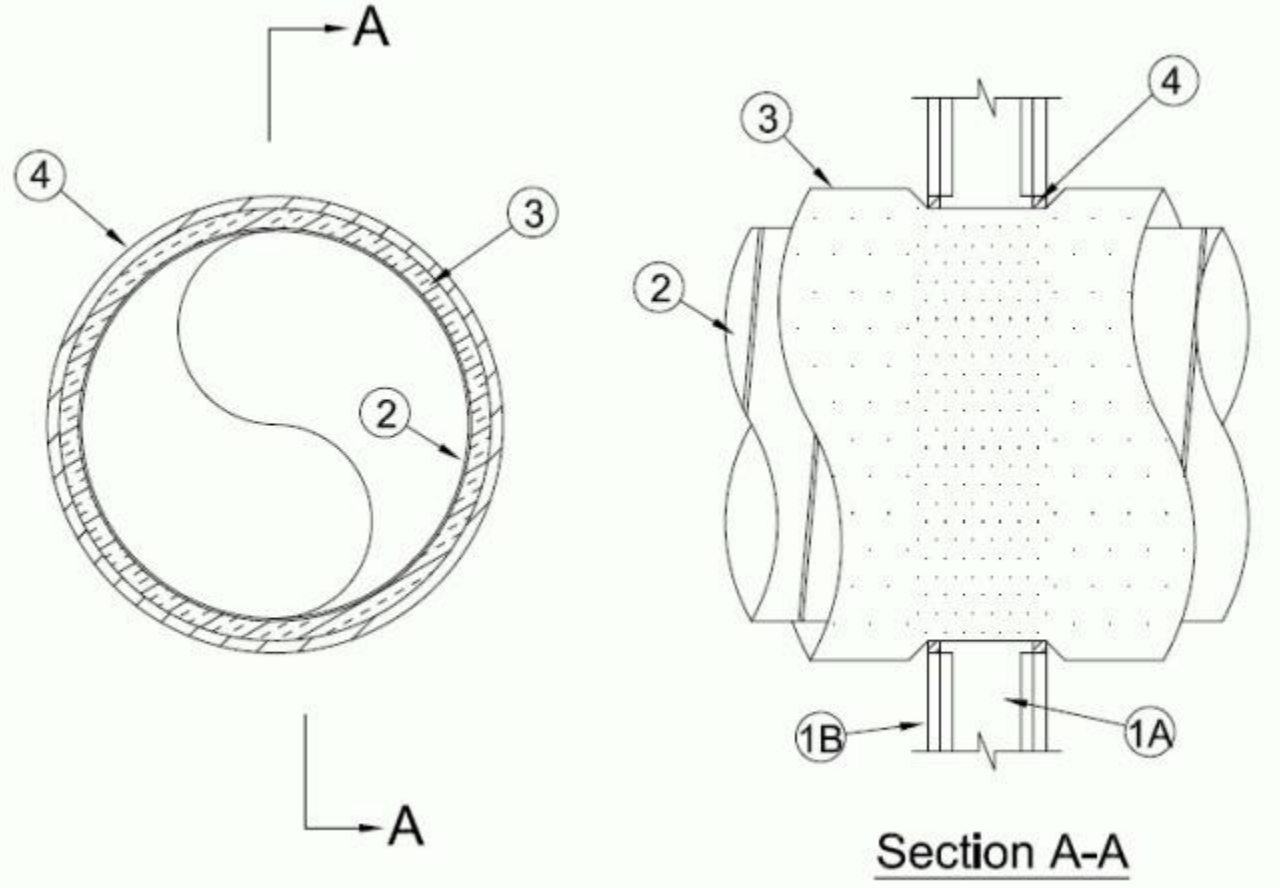
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-7153

November 15, 2017

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Item 1)	F Ratings - 1 and 2 Hr (See Item 1)
T Rating - 1/2 Hr	FT Rating - 1/2 Hr
	FH Ratings - 1 and 2 Hr (See Item 1)
	FTH Rating - 1/2 Hr



1. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing shall consist of channel studs. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Wallboard, Gypsum* —** 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory. Max diam of opening is 24 in. (610 mm).

The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Steel Duct —** Galv steel duct to be installed concentrically or eccentrically within the firestop system. Duct to be rigidly supported on both sides of wall assembly.

A. **Spiral Wound HVAC Duct —** Nom 20 in. (508 mm) diam (or smaller) No. 24 MSG (or heavier) galv steel spriral wound duct.

B. **Sheet Metal Duct —** Nom 12 in. (305 mm) diam (or smaller) No. 28 MSG (or heavier) galv sheet steel duct.

3. **Duct Insulation* —** Nom 1-1/2 in. or 2 in. (38 or 51 mm) thick glass fiber batt or blanket (min 3/4 pcf or 56 kg/m^3) jacketed on the outside with a foil-scrim-kraft facing. Longitudinal and transverse joints sealed with aluminum foil tape. During the installation of the fill material, the batt or blanket shall be compressed 50% such that the annular space within the firestop system shall be min 1/4 in. (6 mm) to max 1-1/2 in. (38 mm).

See **Batts and Blankets** - (BKNV) category in the Building Materials Directory for names of manufacturers. Any batt or blanket meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index 50 or less may be used.

4. **Fill, Void or Cavity Material* — Sealant —** Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. If voids develop after the fill materials cures, the voids shall be sealed with additional fill material.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2017-11-15

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

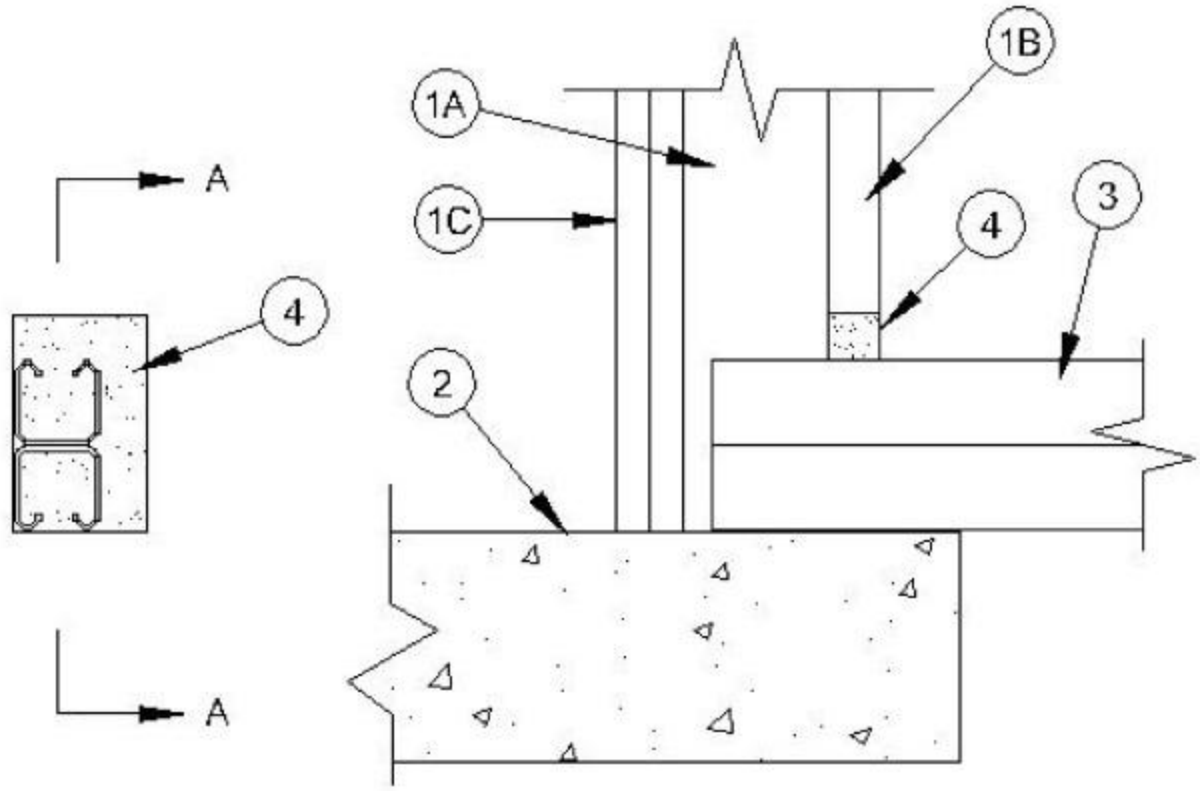
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-7154

January 27, 2015

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Items 1 and 2)	F Ratings - 1 and 2 Hr (See Items 1 and 2)
T Rating - 0 Hr	FT Rating - 0 Hr
	FH Ratings - 1 and 2 Hr (See Items 1 and 2)
	FTH Rating - 0 Hr



Section A-A

1. **Wall Assembly —** The 1 or 2 hr fire rated shaft wall assembly shall be constructed of the materials and in the manner specified in the individual U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Steel Studs —** C-H -shaped studs, 2-1/2 in. (64 mm) wide by 1-1/2 in. (38 mm) deep, spaced 24 in. (610 mm) OC.

B. **Gypsum Board* —** 1 in. (25 mm) thick gypsum board liner panels, supplied in nom 24 in. (610 mm) widths as specified in the individual Wall and Partition Design. Max area of opening is 8.6 sq in. (55 sq cm) with a max dimension of 6-7/8 in. (175 mm). The opening cutout shall follow the contour of the penetrant when steel angle or steel channel is used.

C. **Gypsum Board* —** One or two layers of 5/8 in. (16 mm) thick gypsum board for 1 or 2 hr rated assemblies, respectively, as specified in the individual Wall and Partition Design.

1A. **Alternate Wall Assembly —** (Not shown) As an alternate to the shaft wall described above, the 1 or 2 hr fire rated wall assembly shall be constructed of the materials and in the manner specified in the individual U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing shall consist of min 2-1/2 in. (64 mm) steel channel studs spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** Thickness, type, number of layers and fasteners as required in the individual Wall and Partition Design. Max area of opening is 8.6 sq in. (55 sq cm) with a max dimension of 6-7/8 in. (175 mm). The opening cutout shall follow the contour of the penetrant when steel angle or steel channel is used.

The hourly F and FH Ratings of the firestop system are equal to the hourly rating of the wall.

2. **Floor Assembly —** Min 2-1/2 and 4-1/2 in. (64 or 114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete for 1 and 2 hr rated assemblies, respectively. Floor may also be constructed of any min 6 in. (152 mm) UL Classified **Precast Concrete Units*.**

See **Precast Concrete Units** (CFTV) category in the Fire Resistance Directory for names of manufacturers.

3. **Penetrants —** One metallic strut, steel angle or steel channel to be installed within the firestop system. An annular space of min 0 in. (point contact) to max 7/8 in. (22 mm) is required within the firestop system. Penetrant to terminate within the stud cavity and shall be secured to floor assembly within 2 in. (51 mm) of the fill material (Item 4) on either side of the fill material with at least one min 1/4 in. (6 mm) diam by min 1-1/4 in. (32 mm) long steel masonry anchor in conjunction with steel washers or Hilti 1/4 in. diam by 1-3/4 in. long KWIK-BOLT 3 steel expansion anchor. The following types and sizes of metallic struts, angles or channels may be used:

A. **Steel Strut —** Max 1-5/8 by 1-5/8 in. (41 by 41 mm) channel strut formed from min 0.105 in. (2.7 mm) thick galv or painted steel.

B. **Steel Strut —** Max 3-1/4 by 1-5/8 in. (83 by 41 mm) H strut formed from min 0.105 in. (2.7 mm) thick galv or painted steel.

C. **Steel Angle —** Max 2 by 2 in. (51 by 51 mm) by min 1/8 in. (3.2 mm) thick or max 3 by 3 in. (76 by 76 mm) by min 1/4 in. (6 mm) thick steel angle.

D. **Steel Channel —** C6 x 8.2 (or smaller) steel channel.

4. **Fill, Void or Cavity Material* - Sealant —** Fill material to be installed to completely fill the annular space, flush with the surface of the wall. The thickness of the fill material shall be the thickness of the gypsum board(s) in which it is installed. An additional min 1/2 in. (13 mm) diam bead of sealant to be installed at the point contact location at the penetrant/gypsum board interface.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2015-01-27

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

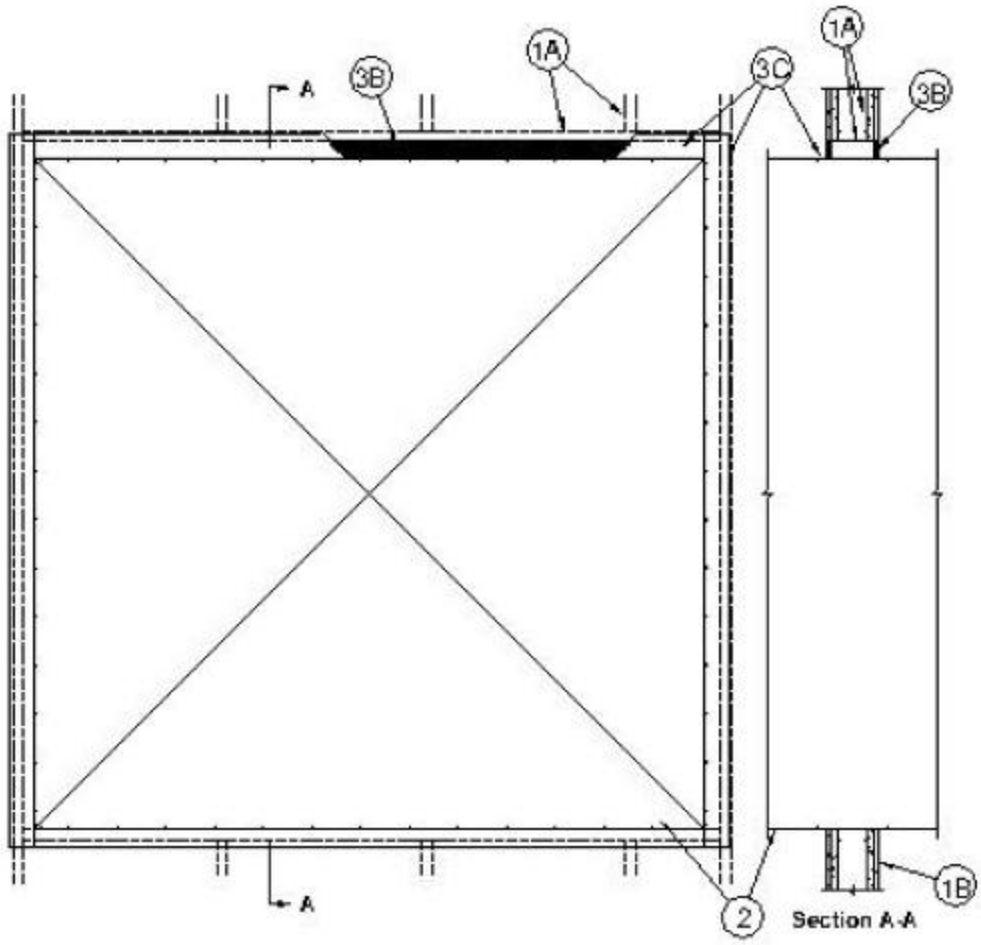
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-7155

December 26, 2017

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 0 Hr	FT Ratings — 0 Hr
L Rating at Ambient — Less Than 1 CFM/sq ft	FH Ratings — 1 and 2 Hr (See Item 1)
L Rating at 400 F — Less Than 1 CFM/sq ft	FTH Ratings — 0 Hr
	L Rating at Ambient — Less Than 1 CFM/sq ft
	L Rating at 400 F — Less Than 1 CFM/sq ft



1. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing shall consist of min 3-1/2 in. (89 mm) wide steel channel studs spaced max 24 in. (610 mm) OC. Additional steel studs shall be used to completely frame the opening.

B. **Gypsum Board* —** 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory. Max area of opening is 73.7 sq ft (6.85 m^2) with a max dimension of 104 in. (2.64 m).

The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Steel Duct —** Max 100 in. by 100 in. (2.5 by 2.5 m) galv steel duct to be installed either concentrically or eccentrically within the firestop system. The duct shall be constructed and reinforced in accordance with SMACNA construction standards. The space between the steel duct and periphery of opening shall be min 0 in. (point contact) to max 2 in. (51 mm). Steel duct to be rigidly supported on both sides of the wall assembly.

2A1. **Through-Pentrating Product* —** As an alterate to Item 2. Fiber cement with galvanized steel facing, 3/8 in.(10 mm) thick composite metallic duct, with a max cross-sectional area of 43.0 sq ft, (4 m^2) and a max individual dimension of 78 3/4 in. (2 m). Duct to be installed either concentrically or eccentrically within the firestop system such that the annular space is min 0 in. (point contact) to max 2 in. (51 mm). Duct to be rigidly supported on both sides of wall assembly. Refer to Ventilation Duct Assemblies in Vol. 2 of the Fire Resistance Directory.
DURASYSTEMS BARRIERS INC — Type DuraDuct HP.

2A3. **Through-Pentrating Product* —** As an alternate to Item 2. Galvanized steel faced duct panel, with a max cross-sectional area of 2450 sq in. (1.58 m^2), and a max individual dimension of 49-1/2 in. (1258 mm) Duct to be installed either concentrically or eccentrically within the firestop system such that the annular space is min 0 in. (point contact) to max 2 in. (51 mm). Duct to be rigidly supported on both sides wall assembly. Refer to Ventilation Duct Assemblies in Vol. 2 of the Fire Resistance Directory.
DURASYSTEMS BARRIERS INC — Type DuraDuct GNX.

2A4. **Through-Penetrants — Coated Ducts* —** As an alternate to Item 2, rectangular steel air duct supplied coated with BW11 coating material. Max 40 by 40 in. (1.02 by 1.02 m) duct size. One duct to be installed within the firestop system with an annular space of min 0 in. (point contact) to max 2 in. (51 mm). Reinforcement stiffener or transverse joint with bolted flanges shall be located approximately at the mid depth of the annular space. Duct to be rigidly supported on both sides of the wall assembly. Duct sections shall be assembled using bolted flanges or SMACNA approved Transverse Joint Reinforcements.
FIRESPRAY INTERNATIONAL LTD — FLAMEBAR BW11 FIRE RATED DUCTWORK

3 **Firestop System —** The firestop system shall consist of the following:

A. **Packing Material —** (Optional, Not Shown) — Polyethylene backer rod, mineral wool batt insulation or fiberglass batt insulation friction fitted into annular space. Packing material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.

A1. **Packing Material —** Required as specified in Table below. Min 3-3/4 in. (95 mm) or 5 in. (127 mm) thickness of min 4 pcf (64 kg/m^3) mineral wool batt insulation firmly packed into opening as a permanent form for 1 and 2 hr rated assemblies, respectively. Packing material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material* — Sealant —** Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of fill material shall be applied at the point contact location between the steel duct or coated duct and the gypsum board.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-S SIL GG Sealant, FS-ONE Sealant, FS-ONE MAX Intumescent Sealant or CP606 Flexible Firestop Sealant

C. **Steel Retaining Angles —** Min No. 16 gauge galv steel angles sized to lap steel duct a min of 2 in. (51 mm) and to lap wall surfaces a min of 1 in. (25 mm). When max duct dimension does not exceed 48 in. (122 cm) and duct area does not exceed 1300 in^2 (8387 cm^2), angles may be min No. 18 gauge galv steel. Angles attached to steel duct or coated duct on both sides of wall with min No. 10 by 1/2 in. (13 mm) long steel sheet metal screws located a max of 1 in. (25 mm) from each end of steel duct and spaced a max of 6 in. (152 mm) OC. Steel angles are optional for those sides of duct that do not exceed the dimension specified in Table below, dependent on packing material, sealant and annular space as specified.

Max Duct Dimension	Duct Thickness	Annular Space	Sealant	Packing Material	Angle (Item 3C) Required
24 in. (610 mm)	24 ga or heavier	1/2 in. min to 1 in. max (13 to 25 mm)	FS-ONE Sealant or CP606 Flexible Firestop Sealant	Item 3A1	No

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2017-12-26

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

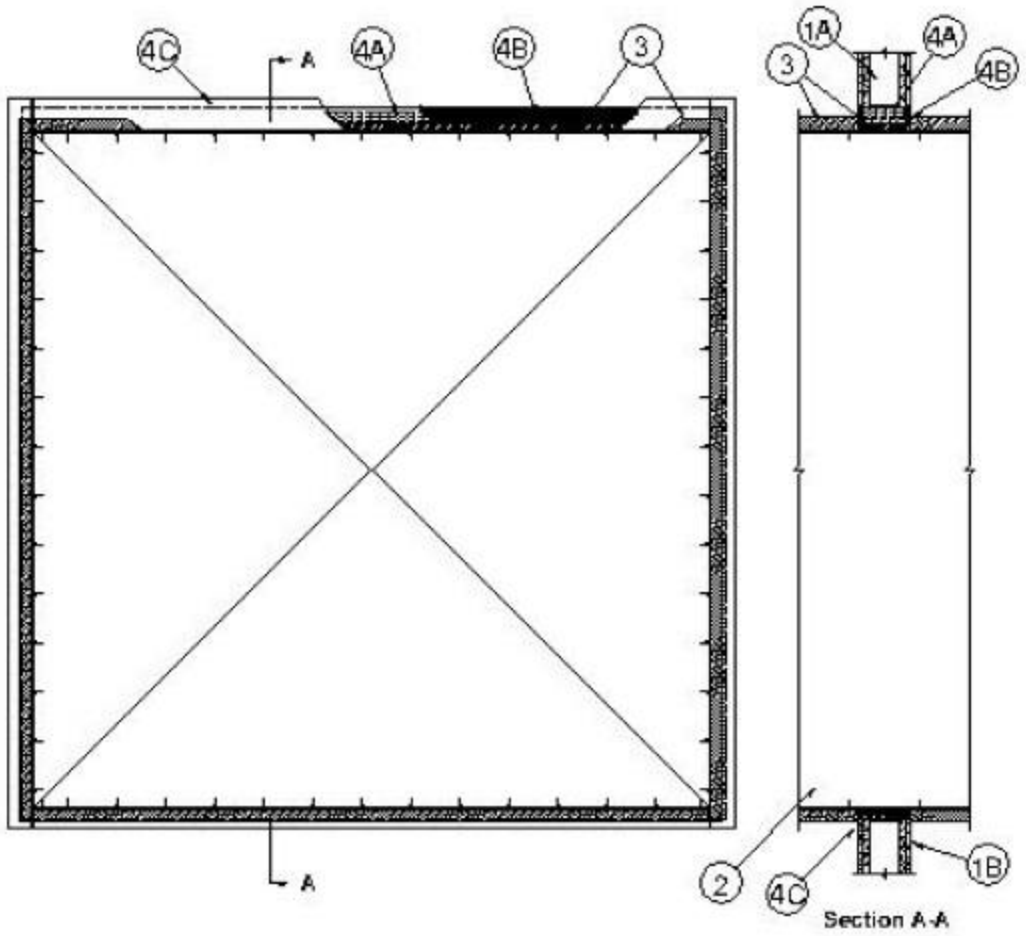
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-7156

August 22, 2018

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0, 1 and 2 Hr (See Item 4C)	FT Rating — 0, 1, and 2 Hr (See Item 4C)
	FH Ratings — 1 and 2 Hr (See Item 1)
	FTH Rating — 0, 1, and 2 Hr (See Item 4C)



1. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. Additional framing members shall be used to completely frame around opening.

B. **Gypsum Board* —** Min 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers and orientation shall be as specified in the individual Wall and Partition Design. Max size of opening is 210 sq in. (1355 cm^2) with a max width of 14-1/2 in. (368 mm) for wood studs. Max size of opening is 76.2 sq ft. (7 m^2) with a max width of 105-1/2 in. (2.7 m) for steel studs.

The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall in which it is installed.

2. **Steel Duct —** Max 100 by 100 in. (2.5 by 2.5 m) steel duct to be installed within the framed opening. The duct shall be constructed and reinforced in accordance with SMACNA construction standards. Steel duct to be rigidly supported on both sides of wall assembly.

3. **Batts and Blankets* —** Nom 1-1/2 or 2 in. (38 or 51 mm) thick glass fiber batt or blanket (min 3/4 pcf or 12 kg/m^3) jacketed on the outside with a foil-scrim-kraft facing. Longitudinal and transverse joints sealed with aluminum foil tape. During the installation of the fill material, the batt or blanket shall be compressed minimum 50% such that the annular space within the firestop system shall be min 1/2 in. (13 mm) to max 3-1/2 in. (89 mm); refer to the table below.

See **Batts and Blankets** (BKNV) category in the Building Materials Directory for names of manufacturers. Any batt or blanket meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index 50 or less may be used.

4. **Firestop System —** The firestop system shall consist of the following:

A. **Packing Material —** Min 3-5/8 (92 mm) or 4-7/8 in. (124 mm) thickness of min 4 pcf (64 kg/m^3) mineral wool batt insulation firmly packed into opening as a permanent form for 1 or 2 hr fire-rated walls, respectively. Packing material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material* — Sealant —** Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE MAX Intumescent Sealant

C. **Steel Retaining Angles —** Min No. 16 gauge (0.059 in. or 1.5 mm) galv steel angles sized to lap steel duct a min of 2 in. 51 mm) and lap wall surfaces a min of 1 in. (25 mm). Angles attached to steel duct on both sides of wall with min No. 10 steel sheet metal screws spaced a max of 1 in. (25 mm) from each end of steel duct and spaced a max of 6 in. (152 mm) OC. When max duct dimension does not exceed 48 in. (122 cm) and duct area does not exceed 1300 in^2 (8387 cm^2), angles may be min No. 18 gauge galv steel. Angles attached to steel duct on both sides of wall with min No. 10 by 1/2 in. (13 mm) long steel sheet metal screws located a max of 1 in. (25 mm) from each end of steel duct and spaced a max of 6 in. (152 mm) OC. In addition, see table below for additional conditions and options regarding retaining angles.

Max Duct Dimension	Duct Thickness	Max Insulation Thickness (Item 3)	Annular Space	Packing Material (Item 4A) Required	Angle (Item 4C) Required	T-Rating Hr
**24 in. (610 mm)	24 ga or heavier	1-1/2 in (38 mm)	1/4 in. min to 1 in. max (6 to 25 mm)	No	No	0
25 in. (635mm) wide by 45 in. (1143 mm) high	24 ga or heavier	2 in. (51mm)	1/4 in. min to 3-1/2 in. max (6. to 89 mm)	Yes	No	1 and 2 (Same as wall rating)

** Indicates that when max 1-1/2 in. (38 mm) thick insulation is used, steel angles are optional for those sides of the duct that do not exceed the dimension specified.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2018-08-22

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

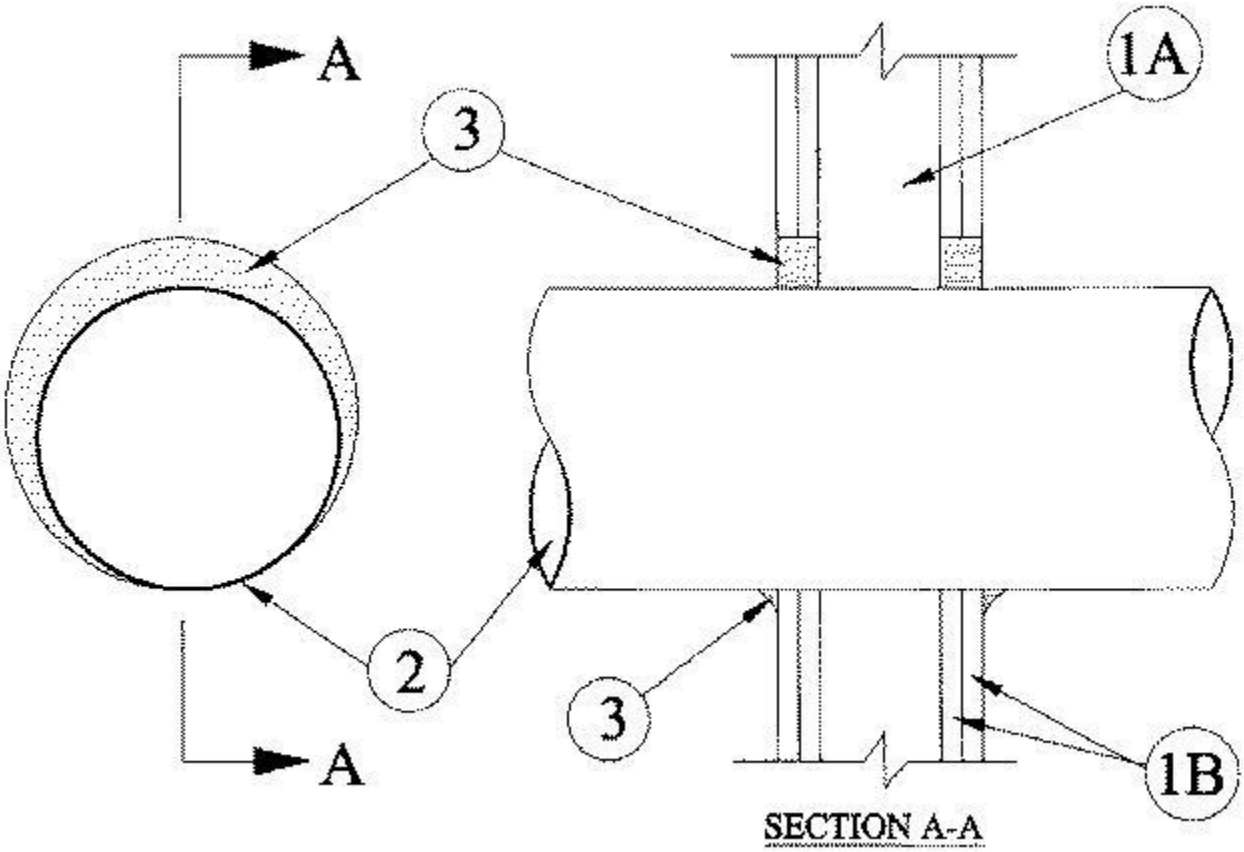
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-7214

January 14, 2014

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Ratings — 1 and 2 Hr (See Items 1 and 3)
	FTH Rating — 0 Hr



SECTION A-A

1. **Wall Assembly —** The 1 or 2 hr fire rated wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features.

A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced 24 in. (610 mm) OC.

B. **Gypsum Board* —** For 1 hr assembly, one layer of min 5/8 in. (16 mm) thick wallboard as required in the individual Wall and Partition Design. For 2 hr assembly, two layers of min 5/8 in. (16 mm) thick wallboard as required in the individual Wall and Partition Design. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls and 21-3/4 in. (552 mm) for steel stud walls.

The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Through Penetrant —** Galv steel duct to be installed concentrically or eccentrically within the firestop system. The annular space between the duct and periphery of opening shall be 0 in. (point contact) and max 1-1/2 in. (38 mm). Duct to be rigidly supported on both sides of wall assembly.

A. **Spiral Wound HVAC Duct —** Nom 20 in. (508 mm) diam (or smaller) No. 24 MSG (or heavier) galv steel spriral wound duct.

B. **Sheet Metal Duct —** Nom 12 in. (305 mm) diam (or smaller) No. 28 MSG (or heavier) galv sheet steel duct.

3. **Fill, Void or Cavity Material* — Sealant** — Min 5/8 in. and 1-1/4 in. (16 and 32 mm) thickness of fill material applied within annulus, flush with both surfaces of wall assembly for 1 or 2 hr rated walls, respectively. At the point contact location between duct and wallboard, a min 1/2 in. (13 mm) diam bead of sealant shall be applied at the wallboard/duct interface on both surfaces of wall assembly.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-S SIL GG Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2014-01-14

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

Product iQ will be unavailable on Saturday, October 26th from 7:00am to 11:00am CST due to site maintenance. We apologize for any inconvenience.

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

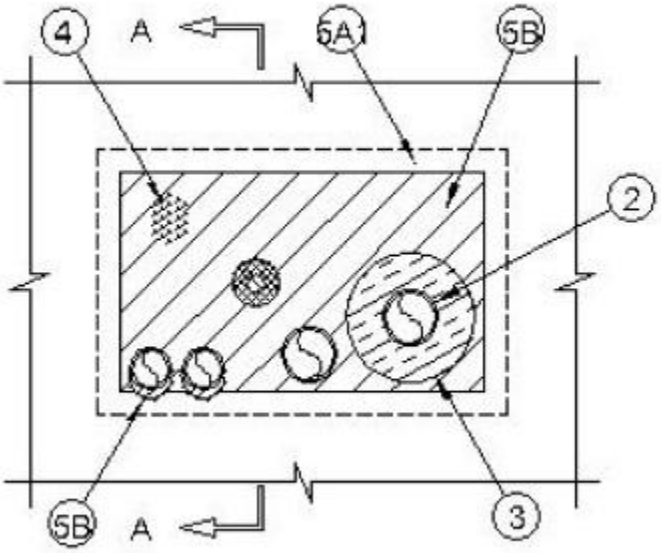
See General Information for Through-penetration Firestop Systems

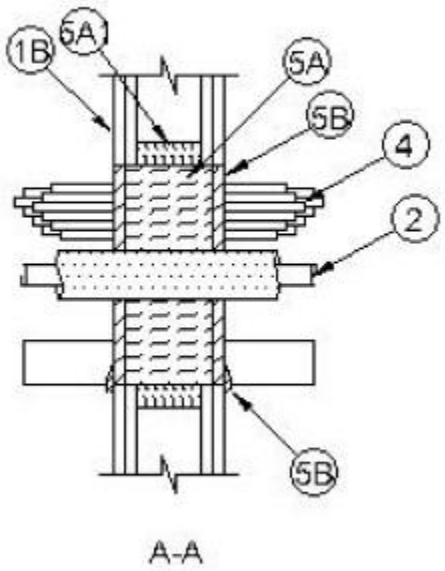
See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-8079

April 26, 2017

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 0, 1/2, 3/4, 1-1/2 and 2 Hr (See Items 1, 2, 3 and 4)	FT Ratings — 0, 1/2, 3/4, 1-1/2 and 2 Hr (See Items 1, 2, 3 and 4)
	FH Ratings — 1 and 2 Hr (See Item 1)
	FTH Ratings — 0, 1/2, 3/4, 1-1/2 and 2 Hr (See Items 1, 2, 3 and 4)





System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

1. **Wall Assembly —** The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing may consist of either wood studs or channel shaped steel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. When Item 5A1 is not used, additional framing members (not shown) shall be installed to frame the periphery of the wall opening. **When the additional framing members are used to frame the opening, the hourly T, FT and FTH Ratings of the firestop system are 0 hr.**

B. **Gypsum Board* —** 5/8 in. (16 mm) thick with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Wall and Partition Design. If the through penetrants are installed in a wood stud/gypsum board assembly, the max area of square, rectangular, or circular opening is 210 sq in. (1355 cm^2). with max dimension of 14-1/2 in. (368 mm). If the through penetrants are installed in a steel stud/gypsum board assembly, max area of square, rectangular, or circular opening is 240 sq in. (1548 cm^2) with max dimension of 20 in. (508 mm) wide.
The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Through-Penetrant —** One or more pipes, conduit or tubes to be installed within the opening. The total number of through-penetrants is dependent on the size of the opening and the types and sizes of the penetrants. Any combination of the penetrants described below may be used provided that the following parameters relative to the annular spaces and the spacing between the through penetrants are maintained. The separation between the penetrants shall be min 1 in. (25 mm) to max 20 in. (508mm). The annular space between penetrants and the periphery of opening shall be min 0 in. (point contact) to max 20 in. (508 mm). Pipes, conduit or tubes to be rigidly supported on both sides of wall assembly. The following types and sizes of pipes, conduit or tubes may be used.

A. **Copper Tubing —** Nom 3 in. (76 mm) diam (or smaller) Type L (or heavier) copper tube.

B. **Copper Pipe —** Nom 3 in. (76 mm) diam (or smaller) Regular (or heavier) copper pipe.

C. **Steel Pipe —** Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

D. **Iron Pipe —** Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.

E. **Conduit —** Nom 3 in. (76 mm) diam (or smaller) electric metallic tubing (EMT) or rigid steel conduit.

F. **Polyvinyl Chloride (PVC) Pipe —** Nom 2 in. (51 mm) diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.

G. **Chlorinated Polyvinyl Chloride (CPVC) Pipe —** Nom 2 in. (51 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.

The T, FT and FTH Ratings are 0 Hr if bare pipe and tubing is used.

3. **Pipe Insulation —** One or more metallic penetrants (pipe or tubing) may be insulated with the following types of pipe coverings:

A. **Pipe Covering* —** Min 1 in. (25 mm) to max 2 in. (51 mm) thick hollow cylindrical heavy density min 3.5 pcf (56 kg/m^3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product.

See **Pipe and Equipment Covering - Materials** (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

B. **Tube Insulation-Plastics+ —** Min 1/2 in. (13 mm) to max 3/4 in. (19 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing.

See **Plastics+** (QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.

The annular space between the insulated penetrants and the periphery of the opening shall be min 0 in. (0 mm, point contact) The separation between the insulated penetrants and the other penetrants shall be a min 1 in. (25 mm).

The T, FT and FTH Ratings are 1-1/2 hour if Item 3B is used. The T, FT and FTH Ratings are 2 hr if Item 3A is used.

4. **Cables —** One max 3 in. (76 mm) diam bundle of cables installed within the opening and rigidly supported on both surfaces of wall. The annular space between the tightly-bundled cables and the periphery of the opening shall be min 0 in. (point contact) to max 20 in. (508 mm). The separation between the cable bundle and the other penetrants shall be min 1 in. (25 mm) to max 20 in. (508 mm). Any combination of the following types and sizes of cables may be used:

A. Max 25 pair No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and jacket.

B. Max 7/C No. 12 AWG copper conductor power and control cable with PVC or cross-linked polyethylene (XLPE) insulation and PVC jacket.

C. Multiple fiber optical communication cable jacketed with PVC and having a max outside diam of 1/2 in. (13 mm).

D. Max 3/C No. 8 AWG with bare aluminum ground, PVC insulated steel Metal-Clad+ Cable currently Classified under the **Through Penetrating Product*** (XHLY) category.

E. Max 3/C (with ground) No. 8 AWG (or smaller) nonmetallic sheathed (Romex) cable with PVC insulation and jacket materials.

F RG/U coaxial cable with polyethylene (PE) insulation and polyvinyl chloride (PVC) jacket having a max outside diam of 1/2 in. (13 mm).

G Max 3/4 in. (19 mm) diam copper ground cable with or without PVC jacket.

H Max 1-1/4in. (32 mm) Diam single or multi conductor mineral-insulated copper-clad cable.

The T, FT and FTH Ratings are 1/4 hr if cables D, G and H are used. The T, FT and FTH Ratings are 3/4 Hr for any other combination.

4A. **Through Penetrants —** (Not shown) - Max six nom 1 in. (25 mm) diam (or smaller) flexible steel conduits to be installed either concentrically or eccentrically within the firestop system. The annular space between the conduits and the periphery of the opening shall be min 0 in. (point contact) to a max 3 in. (76 mm). Conduits to be rigidly supported on both sides of wall. **The T, FT and FTH Ratings are 0 Hr if this penetrant is used.**

4B. **Through Penetrants —** (Not Shown) - Max twelve nom 3/8 in. (10 mm) diam (or smaller) polyvinyl chloride (PVC) pneumatic tubing for use in closed (process or supply) piping systems. Tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between the tubing and the periphery of the opening shall be min 0 in. (point contact) to a max 1 in. (25 mm). Tubing to be rigidly supported on both sides of wall.

5 **Firestop System —** The firestop system shall consist of the following:

A. **Packing Material —** In 2 hr fire rated wall assemblies, min 4-3/4 in. (121 mm) thickness of min 4 pcf (64 kg/m^3) mineral wool batt insulation firmly packed into opening as a permanent form. In 1 hr fire rated wall assemblies, min 3-1/2 in. (89 mm) thickness of min 4 pcf (64 kg/m^3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material recessed from both surfaces of the wall to accommodate the required thickness of fill material.

A1. **Packing Material —** Min 1-1/4 in. (32 mm) thickness of min 4 pcf (64 kg/m^3) mineral wool batt insulation firmly packed as a backer around the perimeter of opening as a permanent form. When additional framing members are used to frame the opening (see Item 1A), this packing material is optional. Packing material can be used in combination with the additional framing members.

B. **Fill, Void or Cavity Material* — Sealant —** Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. At the point contact location between through penetrants and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the gypsum board/through penetrant interface on both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

\+ Bearing the UL Listing Mark

\# Bearing the UL Recognized Component Mark

Last Updated on 2017-04-26

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

APPLICATION FOR OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM)

OFFICE USE ONLY
APPLICATION #: OPM-0201-13

OSHPD Preapproval of Manufacturer's Certification (OPM)

Type: ☒ New ☐ Renewal ☐ Update to Pre-CBC 2013 OPA Number: _____

Manufacturer Information

Manufacturer: MIDMARK CORPORATION

Manufacturer's Technical Representative: Joe Martin

Mailing Address: 60 Vista Drive, Versailles, OH 45380

Telephone: 1-800-MIDMARK, ext. 8446 Email: JMartin@midmark.com

Product Information

Product Name: Midmark Corporation Base Cabinet

Product Type: Cabinet

Product Model Number: 027-1946-00; 027-1946-01; 027-1946-02; 027-1946-03; 027-1946-04; 027-1946-05; 027-1946-06; 027-1946-07; 027-1946-08; 027-1946-09; 027-1946-10; 027-1946-11; 027-1946-12; 027-1946-13; 027-1946-14; 027-1946-15; 027-1946-16; 027-1946-17; 027-1946-18; 027-1946-19; 027-1946-20; 027-1946-21; 027-1946-22; 027-1946-23; 027-1946-24; 027-1946-25; 027-1946-26; 027-1946-27; 027-1946-28; 027-1946-29; 027-1946-30; 027-1946-31; 027-1946-32; 027-1946-33; 027-1946-34; 027-1946-35; 027-1946-36; 027-1946-37; 027-1946-38; 027-1946-39; 027-1946-40; 027-1946-41; 027-1946-42; 027-1946-43; 027-1946-44; 027-1946-45; 027-1946-46; 027-1946-47; 027-1946-48; 027-1946-49; 027-1946-50; 027-1946-51; 027-1946-52; 027-1946-53

General Description: Floor supported cabinet

Applicant Information

Applicant Company Name: ZFA Structural Engineers

Contact Person: Mark Moore

Mailing Address: 100 Bush Street, Suite 1850, San Francisco, CA, 94104

Telephone: 415-243-4091 Email: markm@zfa.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2013.

Signature of Applicant: _____ Date: 3/26/2015

Title: Executive Principal Company Name: ZFA Structural Engineers

REVIEWED FOR CODE COMPLIANCE osHpd CALIFORNIA BUILDING CODE 2013 DATE: 05/28/2015

Registered Design Professional Preparing Engineering Recommendations

Company Name: ZFA Structural Engineers

Name: Mark Moore California License Number: 4443

Mailing Address: 100 Bush Street, Suite 1850, San Francisco, 94104

Telephone: 415-243-4091 Email: markm@zfa.com

OSHPD Special Seismic Certification Preapproval (OSP)

☐ Special Seismic Certification is preapproved under OSP-
(Separate application for OSP is required)

☒ Special Seismic Certification is not preapproved

Certification Method(s)

☐ Testing in accordance with: ☐ ICC-ES AC156 ☐ FM 1950-10

☐ Other* (Please Specify):

*Use of criteria other than those adopted by the California Building Standards Code, 2013 (CBSC 2013) for component supports and attachments are not permitted. For distribution system, interior partition wall, and suspended ceiling seismic bracings, test criteria other than those adopted in the CBSC 2013 may be used when approved by OSHPD prior to testing.

☒ Analysis

☐ Experience Data

☐ Combination of Testing, Analysis, and/or Experience Data (Please Specify):

List of Attachments Supporting the Manufacturer's Certification

☐ Test Report ☒ Drawings ☒ Calculations ☐ Manufacturer's Catalog

☐ Other(s) (Please Specify):

OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2013 ONLY

Signature: Date: 05/28/2015

Print Name: Timothy Piland

Title: SSE

Condition of Approval (if applicable):

REVIEWED FOR CODE COMPLIANCE
OSHPD
OPM-0201-13
BY: Timothy Piland
DATE: 05/28/2015
CALIFORNIA BUILDING CODE, 2013

MIDMARK CORPORATION BASE CABINET UNITS 027-1946-00 THROUGH 027-1946-53	ENG/CKR: ARF	DATE: 04/24/15
	JOB NO.: 15113.30	SCALE:

ZFA STRUCTURAL ENGINEERS
100 bush street suite 1850 | san francisco ca 94104 | 415.243.4091 | www.zfa.com

SHEET NO.: 1/4

OPM-0201-13: EQUIPMENT MANUFACTURER: MIDMARK CORPORATION
EQUIPMENT TYPE: BASE CABINETS

GENERAL NOTES

1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2013. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2013.

2. FORCES PER ASCE 7-10 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2, 13.3-3, WHERE S_{DS} = 2.20, a_P = 1.0, I_P = 1.5 & R_P = 2.5, z/h ≤ 1.0. A FACTOR OF 0.7 IS APPLIED TO CALCULATE ASD LOADS.
   HORIZONTAL FORCE (E_h) = 1.109 Wp
   VERTICAL FORCE (E_v) = 0.308Wp

3. THE DETAILS IN THIS PRE-APPROVAL MAY BE USED AT ANY LOCATION WITH AN S_{DS} OF 2.20g OR LESS.

4. ALL SEISMIC AND ANCHOR FORCES SHOWN ON THE DRAWINGS ARE BASED ON ALLOWABLE STRESS DESIGN.

5. SHEET METAL SCREWS (SMS) SHALL CONFORM TO ICC-ES ESR-1976 OR ICC-ES ESR-2196.

6. SEE SHEET 2 FOR LIGHT GAGE STEEL MINIMUM SPECIFICATIONS.

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD (SEOR)

7. DESIGN BACKING PLATES, STUDS, ETC. WHICH THE UNITS ARE ATTACHED TO AS NOTED ON THE DRAWINGS. THE SEOR SHALL ALSO VERIFY THE ADEQUACY OF THE STRUCTURES (SUCH AS WALLS AND FLOORS) WHICH SUPPORT THE UNITS FOR ALL LOADS.

8. PROVIDE ANY SUPPORTING STRUCTURE REQUIRED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.

9. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2013 CBC AND WITH THE DETAILS SHOWN IN THIS DOCUMENT. VERIFY THAT THE ACTUAL EQUIPMENT'S WEIGHT, CG LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS AND THE MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PRE-APPROVAL DOCUMENTS.

10. VERIFY THAT THE COMBINATION OF S_{DS} & z/h RESULT IN SEISMIC FORCES (E_h, E_v) THAT ARE NOT GREATER THAN THE VALUES IN THE GENERAL NOTES.

11. VERIFY THAT THE ATTACHMENTS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY END OR EDGE OF METAL STUD.

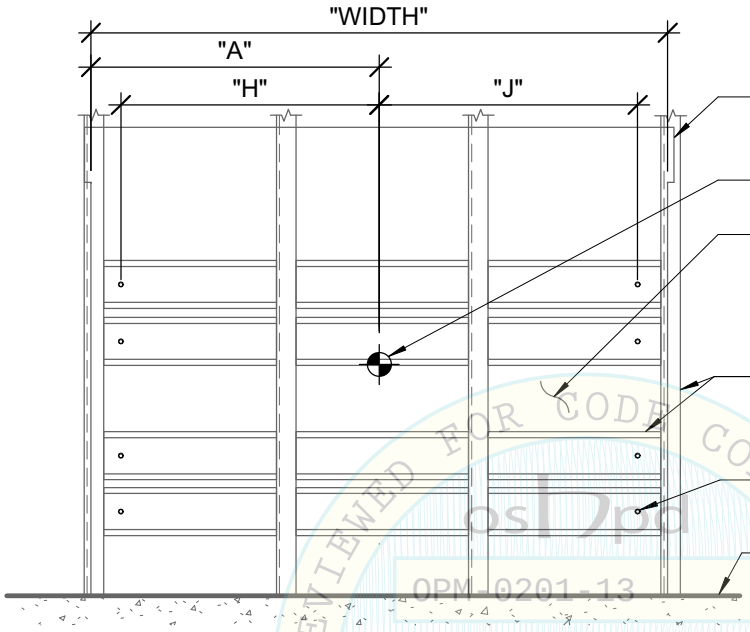
REVIEWED FOR CODE COMPLIANCE OSHPD
OPM-0201-13
BY: Timothy Piland
CALIFORNIA BUILDING CODE, 2013

REGISTERED PROFESSIONAL ENGINEER
MARK A. MOORE
STRUCTURAL
No. 4443
STATE OF CALIFORNIA

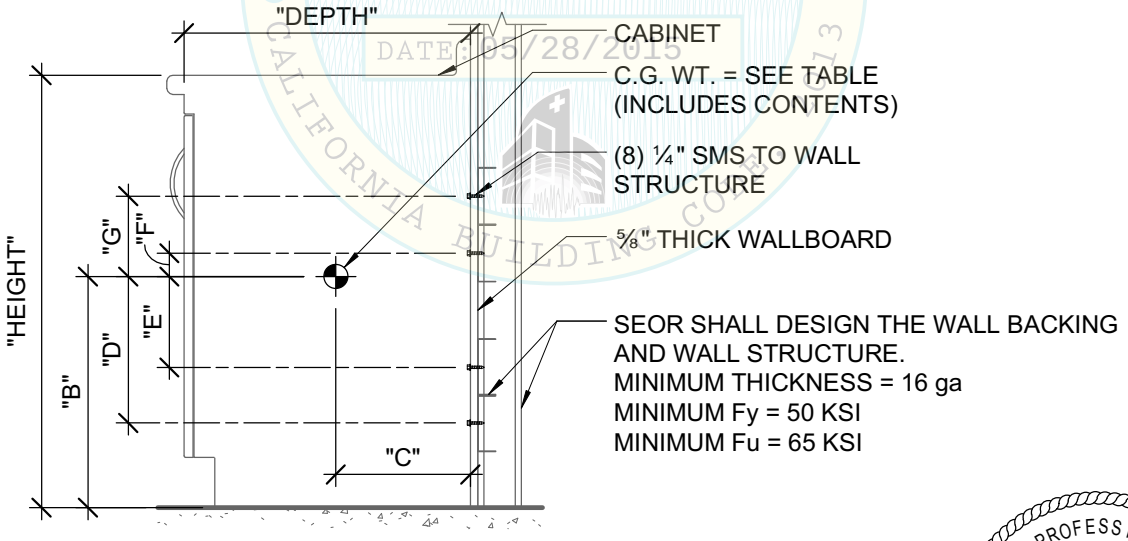
MIDMARK CORPORATION BASE CABINET UNITS 027-1946-00 THROUGH 027-1946-53	ENG/CKR: ARF	DATE: 04/24/15
	JOB NO.: 15113.30	SCALE: 3/4" = 1'-0"

ZFA STRUCTURAL ENGINEERS
100 bush street suite 1850 | san francisco ca 94104 | 415.243.4091 | www.zfa.com

SHEET NO.: 2/4



BACK ELEVATION



SIDE ELEVATION

OPM-0201-13
BY: Timothy Piland
DATE: 05/28/2015

NOTES
1. CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS PRE-APPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
2. FOR GENERAL NOTES, SEE SHEET 1.
3. FOR GEOMETRY, WEIGHT, AND ANCHOR FORCES, SEE SHEETS 3 AND 4.
4. MINIMUM SCREW SPACING = ¾"; MINIMUM EDGE DISTANCE FOR SCREWS = ⅜"

MIDMARK CORPORATION BASE CABINET
UNITS 027-1946-00 THROUGH 027-1946-53

ENG/CKR: ARF
JOB NO.: 15113.30
DATE: 04/24/15
SCALE:

ZFA STRUCTURAL ENGINEERS
100 bush street suite 1850 | san francisco ca 94104 | 415.243.4091 | www.zfa.com

SHEET NO.: 3/4

Unit Name	Max Operating Weight (lbs)	WIDTH (in)	HEIGHT (in)	DEPTH (in)	"A" (in)	"B" (in)	"C" (in)	"D" (in)	"E" (in)	"F" (in)	"G" (in)	"H" (in)	"J" (in)	T max (lbs/screw)	V max (lbs/screw)
027 - 1946 - 00	124	12.0	30.3	17.8	5.9	16.2	8.7	9.1	4.4	0.3	4.9	3.6	3.4	50	17
027 - 1946 - 01	149	15.0	30.3	17.8	7.4	16.1	8.7	9.0	4.4	0.4	5.0	5.1	4.9	43	21
027 - 1946 - 02	173	18.0	30.3	17.8	8.9	16.1	8.6	9.1	4.4	0.3	4.9	6.6	6.4	40	24
027 - 1946 - 03	197	21.0	30.3	17.8	10.3	16.2	8.6	9.1	4.4	0.3	4.9	8.2	7.8	38	27
027 - 1946 - 04	220	24.0	30.3	17.8	11.8	16.2	8.6	9.1	4.4	0.3	4.9	9.7	9.3	39	31
027 - 1946 - 05	272	30.0	30.3	17.8	15.0	16.2	8.6	9.1	4.4	0.3	4.9	12.5	12.5	45	38
027 - 1946 - 06	320	36.0	30.3	17.8	18.0	16.2	8.6	9.1	4.5	0.3	4.9	15.5	15.5	52	44
027 - 1946 - 07	367	42.0	30.3	17.8	21.0	16.2	8.6	9.1	4.5	0.3	4.9	18.5	18.5	58	51
027 - 1946 - 08	415	48.0	30.3	17.8	24.0	16.2	8.5	9.1	4.5	0.3	4.9	21.5	21.5	64	58
027 - 1946 - 09	135	12.0	33.6	17.8	5.9	17.7	8.7	10.7	6.0	1.3	3.3	3.6	3.4	54	19
027 - 1946 - 10	162	15.0	33.6	17.8	7.4	17.7	8.6	10.6	6.0	1.2	3.4	5.1	4.9	46	22
027 - 1946 - 11	189	18.0	33.6	17.8	8.9	17.7	8.5	10.6	6.0	1.2	3.3	6.6	6.4	43	26
027 - 1946 - 12	214	21.0	33.6	17.8	10.4	17.8	8.5	10.7	6.0	1.3	3.3	8.1	7.9	41	30
027 - 1946 - 13	241	24.0	33.6	17.8	11.9	17.8	8.5	10.7	6.0	1.3	3.3	9.6	9.4	42	33
027 - 1946 - 14	296	30.0	33.6	17.8	15.0	17.8	8.6	10.7	6.0	1.3	3.3	12.5	12.5	50	41
027 - 1946 - 15	349	36.0	33.6	17.8	18.0	17.8	8.5	10.7	6.0	1.3	3.3	15.5	15.5	56	48
027 - 1946 - 16	401	42.0	33.6	17.8	21.0	17.8	8.5	10.7	6.0	1.3	3.3	18.5	18.5	63	56
027 - 1946 - 17	453	48.0	33.6	17.8	24.0	17.8	8.5	10.7	6.1	1.3	3.3	21.5	21.5	70	63
027 - 1946 - 18	148	12.0	36.1	17.8	5.9	19.0	8.5	12.0	7.3	2.2	7.0	3.6	3.4	57	21
027 - 1946 - 19	177	15.0	36.1	17.8	7.4	19.0	8.4	11.9	7.3	2.2	7.0	5.1	4.9	50	25
027 - 1946 - 20	207	18.0	36.1	17.8	8.9	19.0	8.3	11.9	7.3	2.2	7.0	6.6	6.4	46	29
027 - 1946 - 21	235	21.0	36.1	17.8	10.4	19.0	8.3	12.0	7.3	2.2	6.9	8.1	7.9	44	33
027 - 1946 - 22	264	24.0	36.1	17.8	11.9	19.0	8.3	12.0	7.3	2.2	6.9	9.6	9.4	46	37
027 - 1946 - 23	325	30.0	36.1	17.8	15.0	19.1	8.3	12.0	7.3	2.2	6.9	12.5	12.5	54	45
027 - 1946 - 24	382	36.0	36.1	17.8	18.0	19.1	8.3	12.0	7.3	2.2	6.9	15.5	15.5	61	53
027 - 1946 - 25	440	42.0	36.1	17.8	21.0	19.1	8.2	12.0	7.3	2.2	6.9	18.5	18.5	69	61
027 - 1946 - 26	497	48.0	36.1	17.8	24.0	19.1	8.2	12.0	7.3	2.2	6.9	21.5	21.5	77	69
027 - 1946 - 27	162	12.0	30.3	23.8	5.9	16.3	11.8	9.3	4.6	0.1	4.7	3.6	3.4	84	22
027 - 1946 - 28	194	15.0	30.3	23.8	7.4	16.3	11.7	9.2	4.6	0.2	4.8	5.1	4.9	72	27
027 - 1946 - 29	225	18.0	30.3	23.8	8.9	16.3	11.6	9.3	4.6	0.1	4.7	6.6	6.4	66	31
027 - 1946 - 30	256	21.0	30.3	23.8	10.4	16.4	11.6	9.3	4.6	0.1	4.7	8.1	7.9	63	35

MIDMARK CORPORATION BASE CABINET
UNITS 027-1946-00 THROUGH 027-1946-53

ENG/CKR: ARF | DATE: 04/24/15
JOB NO.: 15113.30 | SCALE:

ZFA STRUCTURAL ENGINEERS
100 bush street suite 1850 | san francisco ca 94104 | 415.243.4091 | www.zfa.com

SHEET NO.: 4/4

Unit Name	Max Operating Weight (lbs)	WIDTH (in)	HEIGHT (in)	DEPTH (in)	"A" (in)	"B" (in)	"C" (in)	"D" (in)	"E" (in)	"F" (in)	"G" (in)	"H" (in)	"J" (in)	T max (lbs/screw)	V max (lbs/screw)
027 - 1946 - 31	288	24.0	30.3	23.8	11.9	16.4	11.6	9.3	4.6	0.1	4.7	9.6	9.4	61	40
027 - 1946 - 32	354	30.0	30.3	23.8	15.0	16.4	11.7	9.3	4.7	0.1	4.7	12.5	12.5	63	49
027 - 1946 - 33	417	36.0	30.3	23.8	18.0	16.4	11.6	9.3	4.7	0.1	4.7	15.5	15.5	71	58
027 - 1946 - 34	479	42.0	30.3	23.8	21.0	16.4	11.6	9.3	4.7	0.1	4.7	18.5	18.5	79	66
027 - 1946 - 35	542	48.0	30.3	23.8	24.0	16.4	11.6	9.3	4.7	0.1	4.6	21.5	21.5	87	75
027 - 1946 - 36	176	12.0	33.6	23.8	5.9	17.9	11.7	10.9	6.2	1.5	3.1	3.6	3.4	91	24
027 - 1946 - 37	211	15.0	33.6	23.8	7.4	17.9	11.6	10.8	6.2	1.4	3.2	5.1	4.9	78	29
027 - 1946 - 38	246	18.0	33.6	23.8	8.9	17.9	11.6	10.8	6.2	1.4	3.1	6.6	6.4	72	34
027 - 1946 - 39	280	21.0	33.6	23.8	10.4	18.0	11.5	10.9	6.2	1.5	3.1	8.1	7.9	68	39
027 - 1946 - 40	314	24.0	33.6	23.8	11.9	18.0	11.5	10.9	6.2	1.5	3.1	9.6	9.4	66	44
027 - 1946 - 41	386	30.0	33.6	23.8	15.0	18.0	11.6	10.9	6.3	1.5	3.1	12.5	12.5	68	54
027 - 1946 - 42	455	36.0	33.6	23.8	18.0	18.0	11.5	10.9	6.3	1.5	3.1	15.5	15.5	77	63
027 - 1946 - 43	523	42.0	33.6	23.8	21.0	18.0	11.5	10.9	6.3	1.5	3.1	18.5	18.5	86	73
027 - 1946 - 44	592	48.0	33.6	23.8	24.0	18.0	11.5	10.9	6.3	1.5	3.1	21.5	21.5	95	82
027 - 1946 - 45	195	12.0	36.1	23.8	5.9	19.2	11.4	12.1	7.5	2.0	6.8	3.6	3.4	99	27
027 - 1946 - 46	234	15.0	36.1	23.8	7.4	19.2	11.4	12.1	7.5	2.0	6.8	5.1	4.9	85	32
027 - 1946 - 47	272	18.0	36.1	23.8	8.9	19.2	11.3	12.1	7.5	2.0	6.8	6.6	6.4	78	38
027 - 1946 - 48	310	21.0	36.1	23.8	10.4	19.3	11.3	12.2	7.5	2.0	6.7	8.1	7.9	74	43
027 - 1946 - 49	348	24.0	36.1	23.8	11.9	19.3	11.2	12.2	7.5	2.0	6.7	9.6	9.4	72	48
027 - 1946 - 50	428	30.0	36.1	23.8	15.0	19.3	11.3	12.2	7.6	2.0	6.7	12.5	12.5	75	59
027 - 1946 - 51	504	36.0	36.1	23.8	18.0	19.3	11.3	12.2	7.6	1.9	6.7	15.5	15.5	85	70
027 - 1946 - 52	581	42.0	36.1	23.8	21.0	19.3	11.2	12.2	7.6	1.9	6.7	18.5	18.5	95	80
027 - 1946 - 53	657	48.0	36.1	23.8	24.0	19.3	11.2	12.2	7.6	1.9	6.7	21.5	21.5	105	91

COMPLIANCE
CODE, 2013

REGISTERED PROFESSIONAL ENGINEER
MARK A. MOORE
STRUCTURAL
No. 4443
STATE OF CALIFORNIA

APPLICATION FOR OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM)

OFFICE USE ONLY
APPLICATION #: OPM-0202-13

OSHPD Preapproval of Manufacturer's Certification (OPM)

Type: ☒ New ☐ Renewal ☐ Update to Pre-CBC 2013 OPA Number: _____

Manufacturer Information

Manufacturer: MIDMARK CORPORATION

Manufacturer's Technical Representative: Joe Martin

Mailing Address: 60 Vista Drive, Versailles, OH 45380

Telephone: 1-800-MIDMARK, ext. 8446 Email: JMartin@midmark.com

Product Information

Product Name: Midmark Corporation ADA Sink

Product Type: Sink

Product Model Number: 027-1948-00; 027-1948-01; 027-1948-02; 027-1948-03; 027-1948-04; 027-1948-05

General Description: Wall hung sink

REVIEWED FOR CODE COMPLIANCE
CALIFORNIA BUILDING CODE, 2013
oshpd
OPM-0202-13
BY: Timothy Piland
DATE: 06/09/2015

Applicant Information

Applicant Company Name: ZFA Structural Engineers

Contact Person: Mark Moore

Mailing Address: 100 Bush Street, Suite 1850, San Francisco, CA, 94104

Telephone: 415-243-4091 Email: markm@zfa.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2013.

Signature of Applicant: _____ Date: 3/26/2015

Title: Executive Principal Company Name: ZFA Structural Engineers

Registered Design Professional Preparing Engineering Recommendations

Company Name: ZFA Structural Engineers

Name: Mark Moore California License Number: 4443

Mailing Address: 100 Bush Street, Suite 1850, San Francisco, 94104

Telephone: 415-243-4091 Email: markm@zfa.com

OSHPD Special Seismic Certification Preapproval (OSP)

☐ Special Seismic Certification is preapproved under OSP-
(Separate application for OSP is required)

☒ Special Seismic Certification is not preapproved

Certification Method(s)

☐ Testing in accordance with: ☐ ICC-ES AC156 ☐ FM 1950-10

☐ Other* (Please Specify):

*Use of criteria other than those adopted by the California Building Standards Code, 2013 (CBSC 2013) for component supports and attachments are not permitted. For distribution system, interior partition wall, and suspended ceiling seismic bracings, test criteria other than those adopted in the CBSC 2013 may be used when approved by OSHPD prior to testing.

☒ Analysis

☐ Experience Data

☐ Combination of Testing, Analysis, and/or Experience Data (Please Specify):

List of Attachments Supporting the Manufacturer's Certification

☐ Test Report ☒ Drawings ☒ Calculations ☐ Manufacturer's Catalog

☐ Other(s) (Please Specify):

OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2013 ONLY

Signature: Date: 06/09/2015

Print Name: Timothy Piland

Title: SSE

Condition of Approval (if applicable):

REVIEWED FOR CODE COMPLIANCE
CALIFORNIA BUILDING CODE, 2013
oshpd
OPM-0202-13
BY: Timothy Piland
DATE: 06/09/2015

MIDMARK CORPORATION ADA SINK UNITS 027-1948-00 THROUGH 027-1948-05	ENG/CKR: ARF	DATE: 05/22/15
	JOB NO.: 15113.40	SCALE:
ZFA STRUCTURAL ENGINEERS 100 bush street suite 1850 | san francisco ca 94104 | 415.243.4091 | www.zfa.com	SHEET NO.: 1/3	

OPM-0202-13: EQUIPMENT MANUFACTURER: MIDMARK CORPORATION
EQUIPMENT TYPE: ADA SINK

GENERAL NOTES

1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2013. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2013.

2. FORCES PER ASCE 7-10 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2, 13.3-3, WHERE S_{DS} = 2.20, a_P = 1.0, I_P = 1.5 & R_P = 2.5, z/h ≤ 1.0. A FACTOR OF 0.7 IS APPLIED TO CALCULATE ASD LOADS.
   HORIZONTAL FORCE (E_h) = 1.109 Wp
   VERTICAL FORCE (E_v) = 0.308Wp

3. THE DETAILS IN THIS PRE-APPROVAL MAY BE USED AT ANY LOCATION WITH AN S_{DS} OF 2.20g OR LESS.

4. ALL SEISMIC AND ANCHOR FORCES SHOWN ON THE DRAWINGS ARE BASED ON ALLOWABLE STRESS DESIGN.

5. SHEET METAL SCREWS (SMS) SHALL CONFORM TO ICC-ES ESR-1976 OR ICC-ES ESR-2196.

6. SEE SHEET 2 FOR LIGHT GAGE STEEL MINIMUM SPECIFICATIONS.

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD (SEOR)

7. DESIGN BACKING PLATES, STUDS, ETC. WHICH THE UNITS ARE ATTACHED TO AS NOTED ON THE DRAWINGS. THE SEOR SHALL ALSO VERIFY THE ADEQUACY OF THE STRUCTURES (SUCH AS WALLS AND FLOORS) WHICH SUPPORT THE UNITS FOR ALL LOADS.

8. PROVIDE ANY SUPPORTING STRUCTURE REQUIRED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.

9. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2013 CBC AND WITH THE DETAILS SHOWN IN THIS DOCUMENT. VERIFY THAT THE ACTUAL EQUIPMENT'S WEIGHT, CG LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS AND THE MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PRE-APPROVAL DOCUMENTS.

10. VERIFY THAT THE COMBINATION OF S_{DS} & z/h RESULT IN SEISMIC FORCES (E_h, E_v) THAT ARE NOT GREATER THAN THE VALUES IN THE GENERAL NOTES.

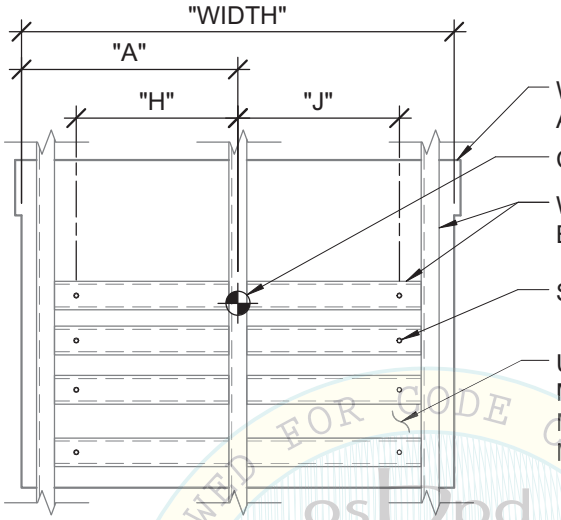
11. VERIFY THAT THE ATTACHMENTS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY END OR EDGE OF METAL STUD.

REVIEWED FOR CODE COMPLIANCE
OSHPD
OPM-0202-13
BY: Timothy Piland
CALIFORNIA BUILDING CODE, 2013

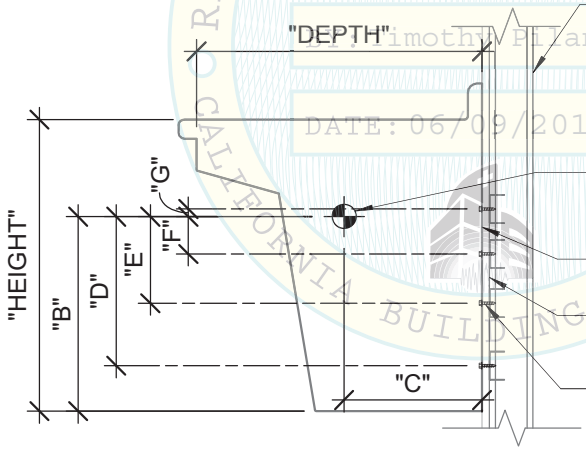
MIDMARK CORPORATION ADA SINK UNITS 027-1948-00 THROUGH 027-1948-05	ENG/CKR: ARF	DATE: 05/22/15
	JOB NO.: 15113.40	SCALE: 3/4" = 1'-0"

ZFA STRUCTURAL ENGINEERS
100 bush street suite 1850 | san francisco ca 94104 | 415.243.4091 | www.zfa.com

SHEET NO.: 2/3



BACK ELEVATION



SIDE ELEVATION

OPM-0202-13
Timothy Piland
DATE: 06/09/2015

NOTES
1. CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS PRE-APPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
2. FOR GENERAL NOTES, SEE SHEET 1.
3. FOR GEOMETRY, WEIGHT, AND ANCHOR FORCES, SEE SHEET 3.
4. MINIMUM SCREW SPACING = ¾"; MINIMUM EDGE DISTANCE FOR SCREWS = ⅜"
5. ATTACHMENT FORCES INCLUDE 250 LBS LIVE LOAD APPLIED AT EDGE OF SINK.

MIDMARK CORPORATION ADA SINK UNITS
027-1948-00 THROUGH 027-1948-05

ENG/CKR: ARF | DATE: 05/22/15
JOB NO.: 15113.40 | SCALE:

ZFA STRUCTURAL ENGINEERS
100 bush street suite 1850 | san francisco ca 94104 | 415.243.4091 | www.zfa.com

SHEET NO.: 3/3

Part No.	Max Operating Weight (lbs)	Width (in)	Height (in)	Depth (in)	"A" (in)	"B" (in)	"C" (in)	"D" (in)	"E" (in)	"F" (in)	"G" (in)	"H" (in)	"J" (in)	T max (lbs/screw)	V max (lbs/screw)
027-1948-00	68	24	24.3	17.8	12.0	17.4	8.6	13.1	8.0	3.9	0.13	11.2	11.2	135	36
027-1948-01	66	30	24.3	17.8	15.0	17.1	8.4	12.9	7.8	3.7	0.10	14.2	14.2	141	38
027-1948-02	75	36	24.3	17.8	18.0	17.0	8.3	12.7	7.6	3.5	0.27	17.2	17.2	145	41
027-1948-03	68	24	24.3	23.8	12.0	16.9	11.7	12.7	7.5	3.4	0.34	11.2	11.2	184	39
027-1948-04	77	30	24.3	23.8	15.0	16.7	11.6	12.5	7.4	3.2	0.51	14.2	14.2	190	41
027-1948-05	87	36	24.3	23.8	18.0	16.6	11.5	12.4	7.2	3.1	0.64	17.2	17.2	196	43

REVIEWED FOR CODE COMPLIANCE
CALIFORNIA BUILDING CODE, 2013
OSHPD
OPM-0202-13
BY: Timothy Piland
DATE: 06/09/2015

REGISTERED PROFESSIONAL ENGINEER
MARK A. MOORE
STRUCTURAL
No. 4443
STATE OF CALIFORNIA

APPLICATION FOR OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM)

OFFICE USE ONLY
APPLICATION #: OPM-0220-13

OSHPD Preapproval of Manufacturer's Certification (OPM)

Type: ☒ New ☐ Renewal ☐ Update to Pre-CBC 2013 OPA Number: _____

Manufacturer Information

Manufacturer: MIDMARK CORPORATION

Manufacturer's Technical Representative: Joe Martin

Mailing Address: 60 Vista Drive, Versailles, OH 45380

Telephone: 1-800-MIDMARK, ext. 8446 Email: JMartin@midmark.com

Product Information

Product Name: Midmark Corporation Tall Cabinet

Product Type: Cabinet

Product Model Number: 027-1947-00 through 027-1947-35;

General Description: Floor supported cabinet

Applicant Information

Applicant Company Name: ZFA Structural Engineers

Contact Person: Mark Moore

Mailing Address: 100 Bush Street, Suite 1850, San Francisco, CA, 94104

Telephone: 415-243-4091 Email: markm@zfa.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2013.

Signature of Applicant: M. Moore. Date: 4/06/2015

Title: Executive Principal Company Name: ZFA Structural Engineers

REVIEWED FOR CODE COMPLIANCE
CALIFORNIA BUILDING CODE, 2013
oshpd
OPM-0220-13
BY: Timothy Piland
DATE: 05/21/2015

Registered Design Professional Preparing Engineering Recommendations

Company Name: ZFA Structural Engineers

Name: Mark Moore California License Number: 4443

Mailing Address: 100 Bush Street, Suite 1850, San Francisco, 94104

Telephone: 415-243-4091 Email: markm@zfa.com

OSHPD Special Seismic Certification Preapproval (OSP)

☐ Special Seismic Certification is preapproved under OSP-
(Separate application for OSP is required)

☒ Special Seismic Certification is not preapproved

Certification Method(s)

☐ Testing in accordance with: ☐ ICC-ES AC156 ☐ FM 1950-10

☐ Other* (Please Specify):

*Use of criteria other than those adopted by the California Building Standards Code, 2013 (CBSC 2013) for component supports and attachments are not permitted. For distribution system, interior partition wall, and suspended ceiling seismic bracings, test criteria other than those adopted in the CBSC 2013 may be used when approved by OSHPD prior to testing.

☒ Analysis

☐ Experience Data

☐ Combination of Testing, Analysis, and/or Experience Data (Please Specify):

List of Attachments Supporting the Manufacturer's Certification

☐ Test Report ☒ Drawings ☒ Calculations ☐ Manufacturer's Catalog

☐ Other(s) (Please Specify):

OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2013 ONLY

Signature: Date: 05/21/2015

Print Name: Timothy Piland

Title: SSE

Condition of Approval (if applicable):

REVIEWED FOR CODE COMPLIANCE
osHpd
OPM-0220-13
BY: Timothy Piland
DATE: 05/21/2015
CALIFORNIA BUILDING CODE, 2013

MIDMARK CORPORATION TALL CABINET UNITS 027-1947-00 THROUGH 027-1947-35	ENG/CKR: ARF	DATE: 05/19/15
	JOB NO.: 15113.50	SCALE:

ZFA STRUCTURAL ENGINEERS
100 bush street suite 1850 | san francisco ca 94104 | 415.243.4091 | www.zfa.com

SHEET NO.: 1/5

OPM-0220-13: EQUIPMENT MANUFACTURER: MIDMARK CORPORATION
EQUIPMENT TYPE: TALL CABINETS

GENERAL NOTES

1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2013. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2013.

2. FORCES PER ASCE 7-10 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2, 13.3-3, WHERE S_{DS} = 2.20, a_P = 1.0, I_P = 1.5 & R_P = 2.5, z/h ≤ 1.0. A FACTOR OF 0.7 IS APPLIED TO CALCULATE ASD LOADS.
   HORIZONTAL FORCE (E_h) = 1.109 Wp
   VERTICAL FORCE (E_v) = 0.308Wp

3. THE DETAILS IN THIS PRE-APPROVAL MAY BE USED AT ANY LOCATION WITH AN S_{DS} OF 2.20g OR LESS.

4. ALL SEISMIC AND ANCHOR FORCES SHOWN ON THE DRAWINGS ARE BASED ON ALLOWABLE STRESS DESIGN.

5. SHEET METAL SCREWS (SMS) SHALL CONFORM TO ICC-ES ESR-1976 OR ICC-ES ESR-2196.

6. SEE SHEET 2 FOR LIGHT GAGE STEEL MINIMUM SPECIFICATIONS.

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD (SEOR)

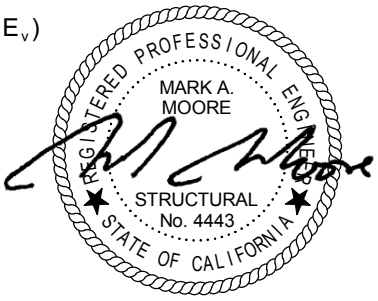
7. DESIGN BACKING PLATES, STUDS, ETC. WHICH THE UNITS ARE ATTACHED TO AS NOTED ON THE DRAWINGS. THE SEOR SHALL ALSO VERIFY THE ADEQUACY OF THE STRUCTURES (SUCH AS WALLS AND FLOORS) WHICH SUPPORT THE UNITS FOR ALL LOADS.

8. PROVIDE ANY SUPPORTING STRUCTURE REQUIRED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.

9. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2013 CBC AND WITH THE DETAILS SHOWN IN THIS DOCUMENT. VERIFY THAT THE ACTUAL EQUIPMENT'S WEIGHT, CG LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS AND THE MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PRE-APPROVAL DOCUMENTS.

10. VERIFY THAT THE COMBINATION OF S_{DS} & z/h RESULT IN SEISMIC FORCES (E_h, E_v) THAT ARE NOT GREATER THAN THE VALUES IN THE GENERAL NOTES.

11. VERIFY THAT THE ATTACHMENTS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY END OR EDGE OF METAL STUD.

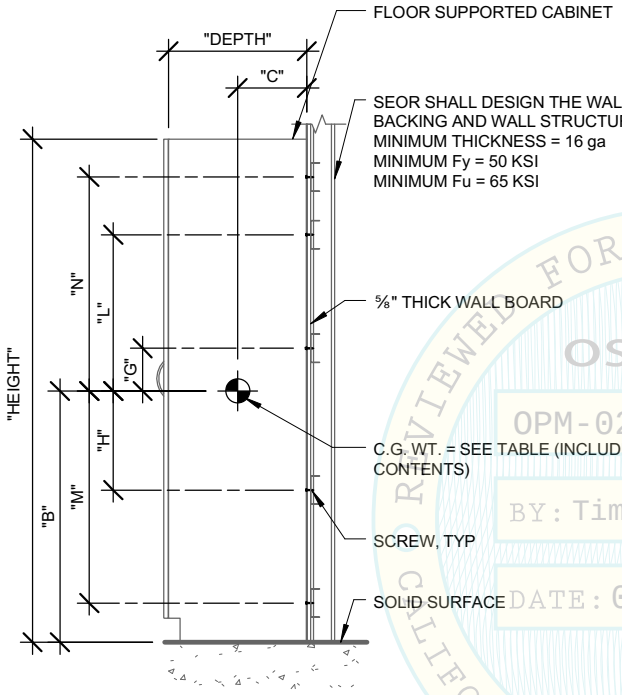


REVIEWED FOR CODE COMPLIANCE OSHPD
OPM-0220-13
BY: Timothy Piland
CALIFORNIA BUILDING CODE, 2013

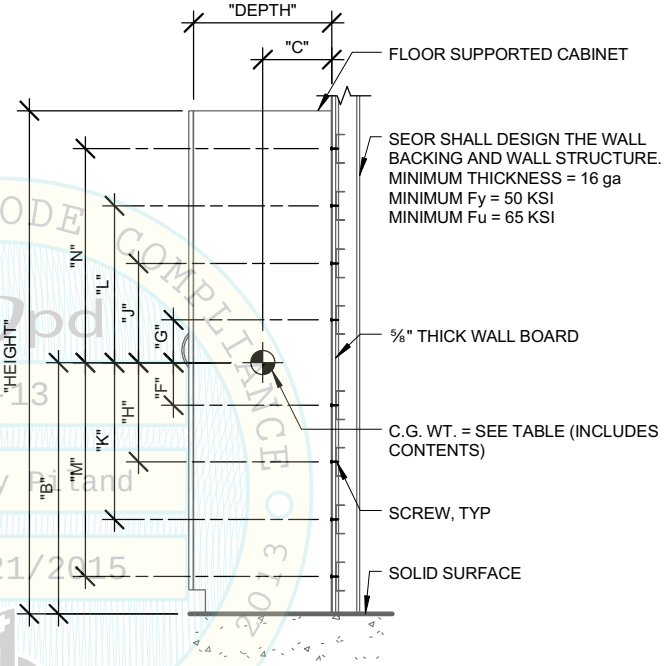
MIDMARK CORPORATION TALL CABINET UNITS 027-1947-00 THROUGH 027-1947-35	ENG/CKR: ARF	DATE: 05/19/15
	JOB NO.: 15113.50	SCALE: 3/8" = 1'-0"

ZFA STRUCTURAL ENGINEERS
100 bush street suite 1850 | san francisco ca 94104 | 415.243.4091 | www.zfa.com

SHEET NO.: 2/5



SIDE ELEVATION (UNITS W/ 10 SCREWS)



SIDE ELEVATION (UNITS W/ 16 SCREWS)

osPod
OPM-0220-13
BY: Timothy Piland
DATE: 05/21/2015
REVIEWED FOR CODE COMPLIANCE CALIFORNIA BUILDING CODE, 2013

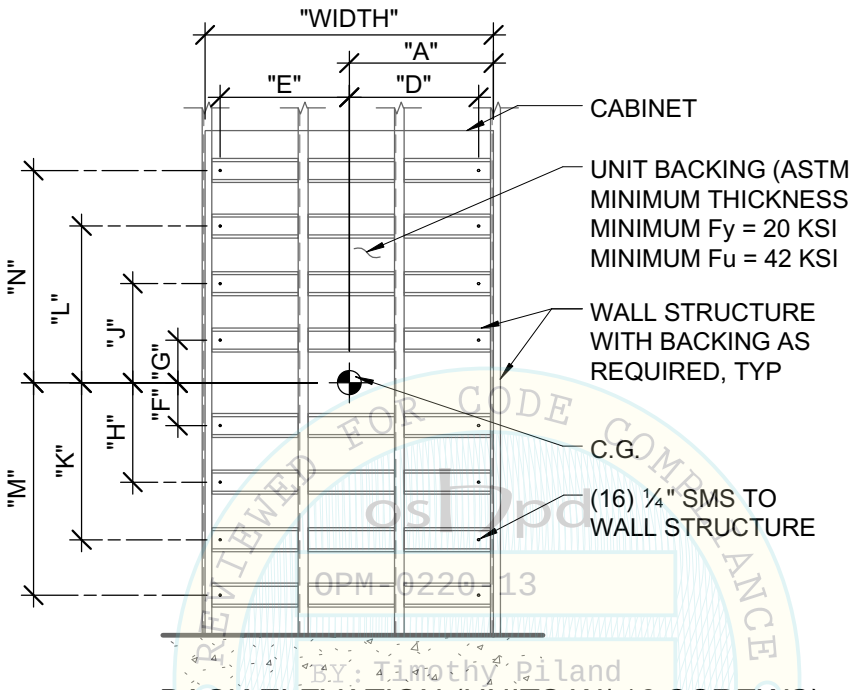
NOTES
1. CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS PRE-APPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
2. FOR GENERAL NOTES, SEE SHEET 1.
3. FOR GEOMETRY, WEIGHT, AND ANCHOR FORCES, SEE SHEETS 4 AND 5.
4. MINIMUM SCREW SPACING = ¾"; MINIMUM EDGE DISTANCE FOR SCREWS = ⅜"

REGISTERED PROFESSIONAL ENGINEER
MARK A. MOORE
STRUCTURAL
No. 4443
STATE OF CALIFORNIA

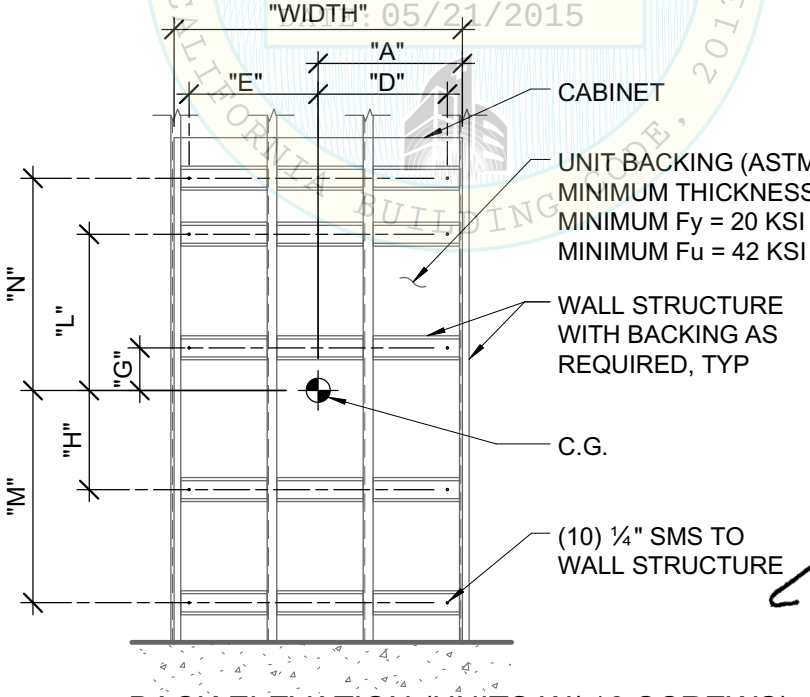
MIDMARK CORPORATION TALL CABINET UNITS 027-1947-00 THROUGH 027-1947-35	ENG/CKR: ARF	DATE: 05/19/15
	JOB NO.: 15113.50	SCALE: 3/8" = 1'-0"

ZFA STRUCTURAL ENGINEERS
100 bush street suite 1850 | san francisco ca 94104 | 415.243.4091 | www.zfa.com

SHEET NO.: 3/5



BACK ELEVATION (UNITS W/ 16 SCREWS)



BACK ELEVATION (UNITS W/ 10 SCREWS)

OSHPD
OPM-0220-13
BY: Timothy Piland
05/21/2015
REVIEWED FOR CODE COMPLIANCE
CALIFORNIA BUILDING CODE, 2013

REGISTERED PROFESSIONAL ENGINEER
MARK A. MOORE
STRUCTURAL
No. 4443
STATE OF CALIFORNIA

MIDMARK CORPORATION TALL CABINET UNITS 027-1947-00 THROUGH 027-1947-35	ENG/CKR: ARF	DATE: 05/19/15
	JOB NO.: 15113.50	SCALE:

ZFA STRUCTURAL ENGINEERS
100 bush street suite 1850 | san francisco ca 94104 | 415.243.4091 | www.zfa.com

SHEET NO.: 4/5

Unit Name	Max Operating Weight (lbs)	WIDTH (in)	HEIGHT (in)	DEPTH (in)	"A" (in)	"B" (in)	"C" (in)	"D" (in)	"E" (in)	"G" (in)	"H" (in)	"L" (in)	"M" (in)	"N" (in)	T max (lbs/screw)	V max (lbs/screw)
027-1947-00	297	12.0	72.0	17.8	6.1	36.1	8.2	3.6	3.4	8.4	10.4	27.4	29.3	32.1	67	33
027-1947-01	359	15.0	72.0	17.8	7.6	36.0	8.1	5.1	4.9	8.4	10.4	27.4	29.3	32.1	77	40
027-1947-02	422	18.0	72.0	17.8	9.1	36.0	8.1	6.6	6.4	8.4	10.4	27.4	29.3	32.1	72	47
027-1947-03	483	21.0	72.0	17.8	10.7	36.0	8.0	8.1	7.9	8.4	10.4	27.4	29.3	32.1	70	54
027-1947-04	544	24.0	72.0	17.8	12.2	36.0	8.0	9.7	9.3	8.4	10.4	27.4	29.3	32.1	76	60
027-1947-05	674	30.0	72.0	17.8	15.0	36.0	8.1	12.5	12.5	8.4	10.4	27.4	29.3	32.1	89	75
027-1947-06	796	36.0	72.0	17.8	18.0	36.0	8.0	15.5	15.5	8.4	10.4	27.4	29.3	32.1	102	88
027-1947-07	918	42.0	72.0	17.8	21.0	36.0	8.0	18.5	18.5	8.4	10.4	27.4	29.3	32.1	115	102
027-1947-09	396	12.0	72.0	23.8	6.1	36.3	11.2	3.6	3.4	8.4	10.4	27.4	29.3	32.1	153	44
027-1947-10	479	15.0	72.0	23.8	7.6	36.2	11.0	5.1	4.9	8.4	10.4	27.4	29.3	32.1	133	53
027-1947-11	562	18.0	72.0	23.8	9.1	36.1	11.0	6.6	6.4	8.4	10.4	27.4	29.3	32.1	124	62
027-1947-12	644	21.0	72.0	23.8	10.6	36.1	10.9	8.1	7.9	8.4	10.4	27.4	29.3	32.1	119	71
027-1947-13	726	24.0	72.0	23.8	12.1	36.1	10.9	9.6	9.4	8.4	10.4	27.4	29.3	32.1	116	80
027-1947-14	898	30.0	72.0	23.8	15.0	36.2	11.0	12.5	12.5	8.4	10.4	27.4	29.3	32.1	126	100
027-1947-18	343	12.0	84.0	17.8	6.1	41.9	8.1	3.6	3.4	7.1	16.5	26.1	35.3	35.6	100	38
027-1947-19	416	15.0	84.0	17.8	7.6	41.9	8.1	5.1	4.9	7.1	16.5	26.1	35.3	35.6	88	46
027-1947-20	488	18.0	84.0	17.8	9.1	41.8	8.0	6.6	6.4	7.1	16.5	26.1	35.3	35.6	83	54
027-1947-21	559	21.0	84.0	17.8	10.6	41.8	8.0	8.1	7.9	7.1	16.5	26.1	35.3	35.6	81	62
027-1947-22	630	24.0	84.0	17.8	12.1	41.8	8.0	9.6	9.4	7.1	16.5	26.1	35.3	35.6	87	70
027-1947-23	779	30.0	84.0	17.8	15.0	41.9	8.0	12.5	12.5	7.1	16.5	26.1	35.3	35.6	103	86
027-1947-24	921	36.0	84.0	17.8	18.0	41.9	7.9	15.5	15.5	7.1	16.5	26.1	35.3	35.6	118	102
027-1947-27	459	12.0	84.0	23.8	6.1	42.2	11.1	3.6	3.4	7.1	16.5	26.1	35.3	35.6	177	51
027-1947-28	556	15.0	84.0	23.8	7.6	42.1	11.0	5.1	4.9	7.1	16.5	26.1	35.3	35.6	154	62
027-1947-29	653	18.0	84.0	23.8	9.1	42.0	11.0	6.6	6.4	7.1	16.5	26.1	35.3	35.6	144	72
027-1947-30	748	21.0	84.0	23.8	10.6	42.1	10.9	8.1	7.9	7.1	16.5	26.1	35.3	35.6	138	83
027-1947-31	844	24.0	84.0	23.8	12.1	42.1	10.9	9.6	9.4	7.1	16.5	26.1	35.3	35.6	135	94

COMPLIANCE CODE, 2013

REGISTERED PROFESSIONAL ENGINEER
MARK A. MOORE
STRUCTURAL
No. 4443
STATE OF CALIFORNIA

MIDMARK CORPORATION TALL CABINET UNITS 027-1947-00 THROUGH 027-1947-35	ENG/CKR: ARF	DATE: 05/19/15
	JOB NO.: 15113.50	SCALE:

ZFA STRUCTURAL ENGINEERS
100 bush street suite 1850 | san francisco ca 94104 | 415.243.4091 | www.zfa.com

SHEET NO.: 5/5

Unit Name	Max Operating Weight (lbs)	WIDTH (in)	HEIGHT (in)	DEPTH (in)	"A" (in)	"B" (in)	"C" (in)	"D" (in)	"E" (in)	"F" (in)	"G" (in)	"H" (in)	"J" (in)	"K" (in)	"L" (in)	"M" (in)	"N" (in)	T max (lbs/screw)	V max (lbs/screw)
027-1947-08	1040	48.0	72.0	17.8	24.0	36.0	7.9	21.5	21.5	1.0	8.4	10.4	17.9	20.0	27.4	29.3	32.1	80	72
027-1947-15	1062	36.0	72.0	23.8	18.0	36.2	10.9	15.5	15.5	1.1	8.4	10.4	17.7	20.1	27.4	29.3	32.1	89	74
027-1947-16	1223	42.0	72.0	23.8	21.0	36.3	10.9	18.5	18.5	1.2	8.4	10.4	17.6	20.2	27.4	29.3	32.1	100	85
027-1947-17	1386	48.0	72.0	23.8	24.0	36.3	10.8	21.5	21.5	1.2	8.4	10.4	17.6	20.2	27.4	29.3	32.1	111	96
027-1947-25	1062	42.0	84.0	17.8	21.0	41.9	7.9	18.5	18.5	6.9	7.1	16.5	16.7	25.9	26.1	35.3	35.6	83	74
027-1947-26	1204	48.0	84.0	17.8	24.0	41.9	7.9	21.5	21.5	6.9	7.1	16.5	16.7	25.9	26.1	35.3	35.6	93	83
027-1947-32	1043	30.0	84.0	23.8	15.0	42.1	10.9	12.5	12.5	7.1	7.1	16.5	16.5	26.1	26.1	35.3	35.6	91	72
027-1947-33	1234	36.0	84.0	23.8	18.0	42.1	10.9	15.5	15.5	7.1	7.1	16.5	16.5	26.1	26.1	35.3	35.6	103	86
027-1947-34	1425	42.0	84.0	23.8	21.0	42.1	10.8	18.5	18.5	7.1	7.1	16.5	16.5	26.1	26.1	35.3	35.6	116	99
027-1947-35	1617	48.0	84.0	23.8	24.0	42.1	10.8	21.5	21.5	7.1	7.1	16.5	16.5	26.1	26.1	35.3	35.6	129	112

REVIEWED FOR CODE COMPLIANCE
oshpd
OPM-0220-13
BY: Timothy Piland
DATE: 05/21/2015
CALIFORNIA BUILDING CODE, 2013

APPLICATION FOR OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM)

OFFICE USE ONLY
APPLICATION #: OPM-0224-13

OSHPD Preapproval of Manufacturer's Certification (OPM)

Type: ☒ New ☐ Renewal ☐ Update to Pre-CBC 2013 OPA Number: _____

Manufacturer Information

Manufacturer: MIDMARK CORPORATION

Manufacturer's Technical Representative: Joe Martin

Mailing Address: 60 Vista Drive, Versailles, OH 45380

Telephone: 1-800-MIDMARK, ext. 8446 Email: JMartin@midmark.com

Product Information

Product Name: Midmark Corporation Overhead Cabinet

Product Type: Cabinet

Product Model Number: 027-1941-00; 027-1941-01; 027-1941-02; 027-1941-03; 027-1941-04; 027-1941-05; 027-1941-06; 027-1941-07; 027-1941-08; 027-1941-09; 027-1941-10; 027-1941-11; 027-1941-12; 027-1941-13; 027-1941-14; 027-1941-15; 027-1941-16; 027-1941-17; 027-1941-18; 027-1941-19; 027-1941-20; 027-1941-21; 027-1941-22; 027-1941-23; 027-1941-24; 027-1941-25; 027-1941-26; 027-1941-27; 027-1941-28; 027-1941-29; 027-1941-30; 027-1941-31; 027-1941-32; 027-1941-33; 027-1941-34; 027-1941-35; 027-1941-36; 027-1941-37; 027-1941-38; 027-1941-39

General Description: Wall supported cabinet

REVIEWED FOR CODE COMPLIANCE
OSHPD
OPM-0224-13
CALIFORNIA BUILDING CODE, 2013

Applicant Information

Applicant Company Name: ZFA Structural Engineers

Contact Person: Mark Moore

Mailing Address: 100 Bush Street, Suite 1850, San Francisco, CA, 94104

Telephone: 415-243-4091 Email: markm@zfa.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2013.

Signature of Applicant: _____ Date: 4/06/2015

Title: Executive Principal Company Name: ZFA Structural Engineers

Registered Design Professional Preparing Engineering Recommendations

Company Name: ZFA Structural Engineers

Name: Mark Moore California License Number: 4443

Mailing Address: 100 Bush Street, Suite 1850, San Francisco, 94104

Telephone: 415-243-4091 Email: markm@zfa.com

OSHPD Special Seismic Certification Preapproval (OSP)

☐ Special Seismic Certification is preapproved under OSP-
(Separate application for OSP is required)

☒ Special Seismic Certification is not preapproved

Certification Method(s)

☐ Testing in accordance with: ☐ ICC-ES AC156 ☐ FM 1950-10

☐ Other* (Please Specify):

*Use of criteria other than those adopted by the California Building Standards Code, 2013 (CBSC 2013) for component supports and attachments are not permitted. For distribution system, interior partition wall, and suspended ceiling seismic bracings, test criteria other than those adopted in the CBSC 2013 may be used when approved by OSHPD prior to testing.

☒ Analysis

☐ Experience Data

☐ Combination of Testing, Analysis, and/or Experience Data (Please Specify):

List of Attachments Supporting the Manufacturer's Certification

☐ Test Report ☒ Drawings ☒ Calculations ☐ Manufacturer's Catalog

☐ Other(s) (Please Specify):

OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2013 ONLY

Signature: Date: 06/17/2015

Print Name: Timothy Piland

Title: SSE

Condition of Approval (if applicable):

REVIEWED FOR CODE COMPLIANCE
osHpd
OPM-0224-13
BY: Timothy Piland
DATE: 06/17/2015
CALIFORNIA BUILDING CODE, 2013

MIDMARK CORPORATION OVERHEAD CABINET UNITS 027-1941-00 THROUGH 027-1941-39	ENG/CKR: ARF	DATE: 06/11/15
	JOB NO.: 15113.10	SCALE:
ZFA STRUCTURAL ENGINEERS 100 bush street suite 1850 | san francisco ca 94104 | 415.243.4091 | www.zfa.com	SHEET NO.: 1/5	

OPM-0224-13: EQUIPMENT MANUFACTURER: MIDMARK CORPORATION
EQUIPMENT TYPE: OVERHEAD CABINETS

GENERAL NOTES

1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2013. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2013.

2. FORCES PER ASCE 7-10 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2, 13.3-3, WHERE S_{DS} = 2.20, a_P = 1.0, I_P = 1.5 & R_P = 2.5, z/h ≤ 1.0. A FACTOR OF 0.7 IS APPLIED TO CALCULATE ASD LOADS.
   HORIZONTAL FORCE (E_h) = 1.109 Wp
   VERTICAL FORCE (E_v) = 0.308Wp

3. THE DETAILS IN THIS PRE-APPROVAL MAY BE USED AT ANY LOCATION WITH AN S_{DS} OF 2.20g OR LESS.

4. ALL SEISMIC AND ANCHOR FORCES SHOWN ON THE DRAWINGS ARE BASED ON ALLOWABLE STRESS DESIGN.

5. SHEET METAL SCREWS (SMS) SHALL CONFORM TO ICC-ES ESR-1976 OR ICC-ES ESR-2196.

6. SEE SHEET 2 FOR LIGHT GAGE STEEL MINIMUM SPECIFICATIONS.

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD (SEOR)

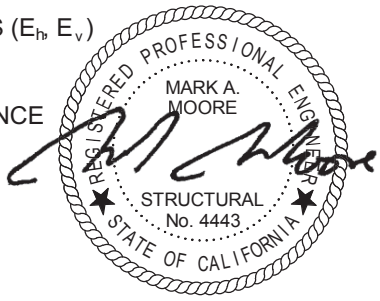
7. DESIGN BACKING PLATES, STUDS, ETC. WHICH THE UNITS ARE ATTACHED TO AS NOTED ON THE DRAWINGS. THE SEOR SHALL ALSO VERIFY THE ADEQUACY OF THE STRUCTURES (SUCH AS WALLS AND FLOORS) WHICH SUPPORT THE UNITS FOR ALL LOADS.

8. PROVIDE ANY SUPPORTING STRUCTURE REQUIRED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.

9. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2013 CBC AND WITH THE DETAILS SHOWN IN THIS DOCUMENT. VERIFY THAT THE ACTUAL EQUIPMENT'S WEIGHT, CG LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS AND THE MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PRE-APPROVAL DOCUMENTS.

10. VERIFY THAT THE COMBINATION OF S_{DS} & z/h RESULT IN SEISMIC FORCES (E_h, E_v) THAT ARE NOT GREATER THAN THE VALUES IN THE GENERAL NOTES.

11. VERIFY THAT THE ATTACHMENTS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY END OR EDGE OF METAL STUD.

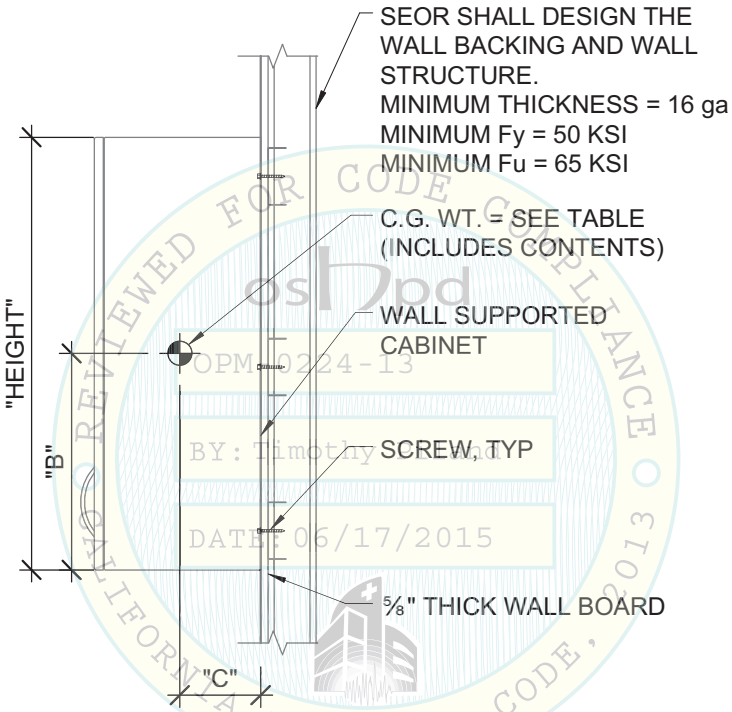


REVIEWED FOR CODE COMPLIANCE
OSHPD
OPM-0224-13
BY: Timothy Piland
CALIFORNIA BUILDING CODE, 2013

MIDMARK CORPORATION OVERHEAD CABINET UNITS 027-1941-00 THROUGH 027-1941-39	ENG/CKR: ARF	DATE: 06/11/15
	JOB NO.: 15113.10	SCALE: 3/4" = 1'-0"

ZFA STRUCTURAL ENGINEERS
100 bush street suite 1850 | san francisco ca 94104 | 415.243.4091 | www.zfa.com

SHEET NO.: 2/5



SIDE ELEVATION

REVIEWED FOR CODE COMPLIANCE
CALIFORNIA BUILDING CODE, 2013
OSHPD
OPM-0224-13
BY: Timothy Piland
DATE: 06/17/2015

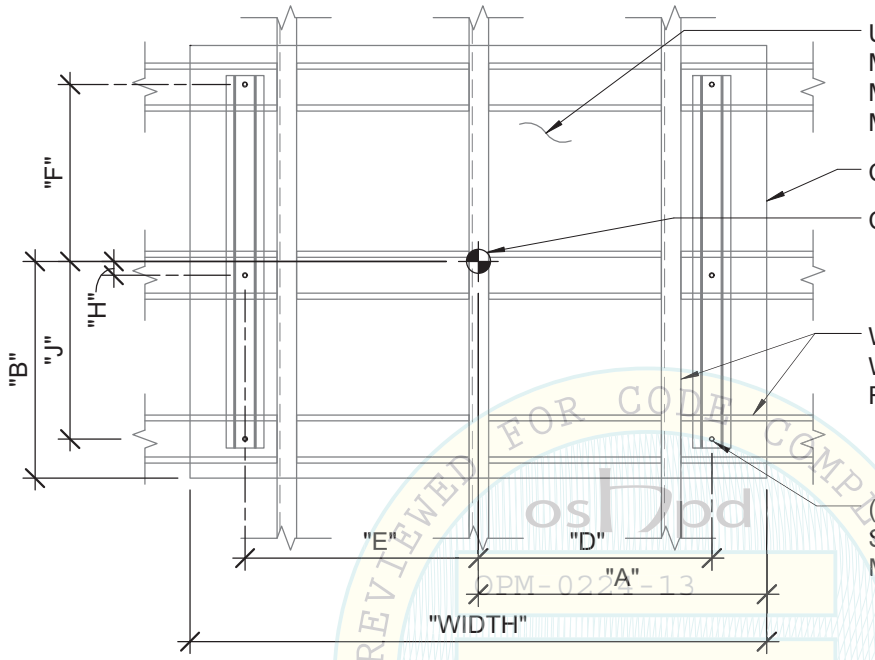
NOTES
1. CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS PRE-APPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
2. FOR GENERAL NOTES, SEE SHEET 1.
3. FOR GEOMETRY, WEIGHT, AND ANCHOR FORCES, SEE SHEETS 4 AND 5.
4. MINIMUM SCREW SPACING = ¾"; MINIMUM EDGE DISTANCE FOR SCREWS = ⅜"

REGISTERED PROFESSIONAL ENGINEER
MARK A. MOORE
STRUCTURAL
No. 4443
STATE OF CALIFORNIA

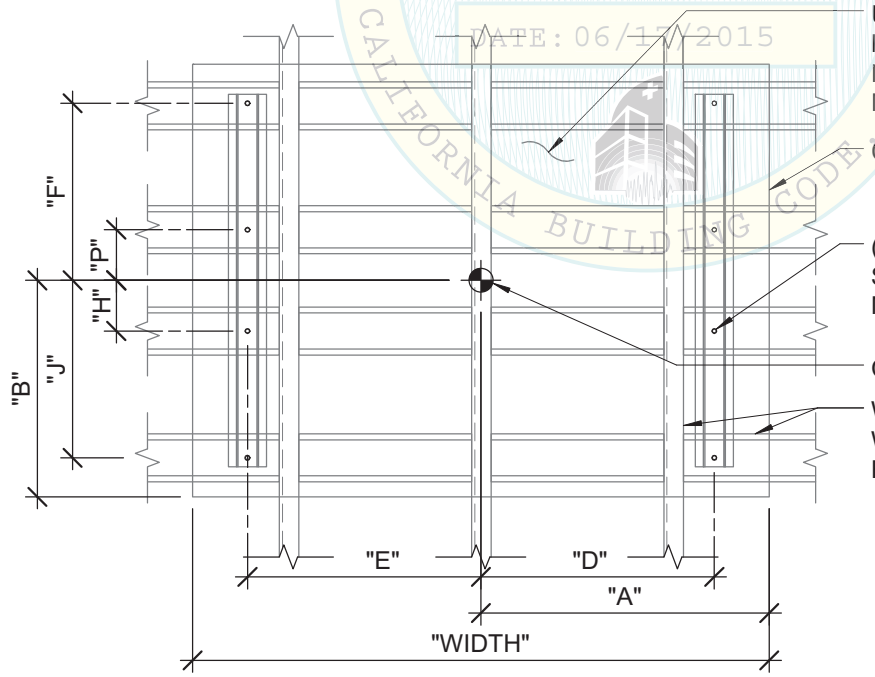
MIDMARK CORPORATION OVERHEAD CABINET UNITS 027-1941-00 THROUGH 027-1941-39	ENG/CKR: ARF	DATE: 06/11/15
	JOB NO.: 15113.10	SCALE: 3/4" = 1'-0"

ZFA STRUCTURAL ENGINEERS
100 bush street suite 1850 | san francisco ca 94104 | 415.243.4091 | www.zfa.com

SHEET NO.: 3/5

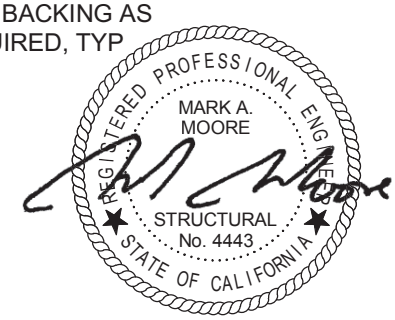


BACK ELEVATION (UNITS W/ 6 SCREWS)



BACK ELEVATION (UNITS W/ 8 SCREWS)

REVIEWED FOR CODE COMPLIANCE
CALIFORNIA BUILDING CODE
OSHPD
OPM-0224-13
Reviewed by Timothy Piland
DATE: 06/17/2015



MIDMARK CORPORATION OVERHEAD CABINET UNITS 027-1941-00 THROUGH 027-1941-39	ENG/CKR: ARF	DATE: 06/11/15
	JOB NO.: 15113.10	SCALE:

ZFA STRUCTURAL ENGINEERS
100 bush street suite 1850 | san francisco ca 94104 | 415.243.4091 | www.zfa.com

SHEET NO.: 4/5

Part No.	Max Operating Weight	Width (in)	Height (in)	Depth (in)	"A" (in)	"B" (in)	"C" (in)	"D" (in)	"E" (in)	"F" (in)	"H" (in)	"J" (in)	T max (lbs/screw)	V max (lbs/screw)
027-1941-12	154	21	24	13.8	10.3	12.1	6.7	5.7	6.1	8.7	1.2	8.8	79	46
027-1941-13	177	24	24	13.8	12.0	12.0	6.8	7.4	7.4	8.7	1.2	8.8	85	52
027-1941-14	216	30	24	13.8	15.0	12.0	6.8	10.4	10.4	8.7	1.2	8.8	92	64
027-1941-15	254	36	24	13.8	18.0	12.1	6.8	13.4	13.4	8.7	1.2	8.8	102	75
027-1941-16	293	42	24	13.8	21.0	12.1	6.8	16.4	16.4	8.7	1.2	8.8	112	86

REGISTERED PROFESSIONAL ENGINEER
MARK A. MOORE
STRUCTURAL
No. 4443
STATE OF CALIFORNIA

MIDMARK CORPORATION OVERHEAD CABINET UNITS 027-1941-00 THROUGH 027-1941-39	ENG/CKR: ARF	DATE: 06/11/15
	JOB NO.: 15113.10	SCALE:

ZFA STRUCTURAL ENGINEERS
100 bush street suite 1850 | san francisco ca 94104 | 415.243.4091 | www.zfa.com

SHEET NO.: 5/5

Part No.	Max Operating Weight (lbs)	Width (in)	Height (in)	Depth (in)	"A" (in)	"B" (in)	"C" (in)	"D" (in)	"E" (in)	"F" (in)	"H" (in)	"J" (in)	"P" (in)	T max (lbs/screw)	V max (lbs/screw)
027-1941-26	407	48	30	13.8	24.0	15.1	6.7	19.4	19.4	11.7	4.2	11.8	4.8	129	88
027-1941-34	426	42	36	13.8	21.0	18.1	6.7	16.4	16.4	14.7	4.2	14.8	4.8	124	92
027-1941-35	483	48	36	13.8	24.0	18.1	6.7	19.4	19.4	14.7	4.2	14.8	4.8	140	104

REVIEWED FOR CODE COMPLIANCE
CALIFORNIA BUILDING CODE, 2013
OSHPD
OPM-0224-13
BY: Timothy Piland
DATE: 06/17/2015

VOLUME ONE

PROJECT MANUAL

MEDICAL-SURGERY 3 RENOVATION
PROJECT NO. 9600-55
BID NO. NMC-1014

TITLE SHEET

BOARD OF SUPERVISORS
COUNTY OF MONTEREY
STATE OF CALIFORNIA

Chris Lopez, Chair
Luis Alejo
Glen Church
Chris Lopez
Wendy Root-Askew
Kate Daniels

Charles Harris, M.D.,	Hospital Chief Executive Officer
Andrea Rosenberg,	Assistant Administrator Operations & Support
Brian Griffin,	Project Manager III

Approved as to Form

Stacy Saetta
Deputy County Counsel

Approved as to Fiscal Terms

Rupa Shah
Chief Deputy Auditor-Controller

MEDICAL-SURGERY 3 RENOVATION
BUILDING 500
PROJECT NO. 9600-55
BID NO. NMC-1014

The current General Prevailing Wage determined by the State of California Director of Industrial Relations is on file with RMA-Public Works.

1441 Schilling Place
Salinas, CA 93901
(831)755-4958

TABLE OF CONTENTS

COVER
TITLE SHEET
TOC TABLE OF CONTENTS
SS SIGNATURE SHEET
PC PROJECT CONTACTS

VOLUME 1

DIVISION 00 – PROJECT MANUAL PROCUREMENT REQUIREMENTS/CONTRACTS & PURCHASING
001000 Notice to Contractors
002000 Instructions to Bidders
003000 Bid Form
003500 List of Subcontractors
003600 Contractor's Qualifications
003700 Subcontractor's Qualifications
004000 Non-Collusion Declaration
004100 Contractor's Certificate as to Workers' Compensation
004300 Contractor's Certification of Good-Faith Effort to Employ Monterey Bay Area Residents
004400 Bid Bond
005000 Agreement
006000 Performance Bond
006100 Payment Bond
007100 General Conditions
Part I – Introduction **MANDATORY BIDDERS'**
Article 1 – Definitions
Article 2 – Contract Interpretation
Article 3 – Contract Documents
Article 4 – Subcontractors
Part II – Conduct of Work
Article 5 – Contract Administration by Architect & Construction Manager
Article 6 – Services Provided by County
Article 7 – Contractor's Administrative Duties
Article 8 – General Provisions Regarding Conduct of Work
Article 9 – Shop Drawings and Samples
Article 10 – Separate Contracts on Same Project
Article 11 – Tests
Article 12 – Time for Performance and Liquidated Damages
Article 13 – Use of Site
Article 14 – Materials
Article 15 – Changes in the Work
Article 16 – Uncovering and Correction of Work
Part III – Safety
Article 17 – Protection of Persons and Property
Part IV – Payments
Article 18 – Progress Payments
Article 19 – Withholding Payments
Article 20 – Completion and Final Payment
Article 21 – Alternative Payment of Withheld Funds
Part V – Employment Practices
Article 22 – Apprentices
Article 23 – Non-Discrimination Provisions
Article 24 – Hours of Work
Article 25 – Prevailing Wages
Article 26 – Payroll Records
Part VI – Legal Relations
Article 27 – Compliance with Laws
Article 28 – Performance and Payment Bonds

Article 29 – Indemnification and Insurance
Article 30 – Claims and Dispute Resolution
Article 31 – Default and Termination of Contract
Article 32 – Warranties
Part VII – Miscellaneous
Article 33 – Miscellaneous Provisions
007300 Supplementary Conditions

APPENDICES

A- List of Technical Specifications
Project Manual Volume 2, HGA Architects, dated April 16, 2024, with Technical Specifications Sections (Division 01 to Division 48)

B- List of Drawings, dated April 16, 2024.

C- Preliminary Project Schedule, dated July 15, 2025

SIGNATURE SHEET

VOLUME ONE

DIVISION 00
PROJECT MANUAL

MEDICAL-SURGERY 3 RENOVATION
BUILDING 500
PROJECT NO. 9600-55
BID NO. NMC-1014

The drawings and specifications were prepared by HGA Architects, Inc., under the direct supervision of

Signature

Date
9/24/2025

Anna Kempf, AIA

Affix stamp below

PROJECT CONTACTS

VOLUME ONE

DIVISION 00: Procurement & Contracting Requirements
MEDICAL-SURGERY 3 RENOVATION – BUILDING 500
PROJECT NO. 9600-55
BID NO. NMC-1014

OWNER

COUNTY OF MONTEREY
NATIVIDAD MEDICAL CENTER
ATTN: BRIAN GRIFFIN | PROJECT MANAGER
1441 CONSTITUTION BLVD, SALINAS, CA 93906
T 831.783.2605 |
GRIFFINB@NATIVIDAD.COM

ARCHITECT

HGA
222 SUTTER STREET, SUITE 500
SAN FRANCISCO, CALIFORNIA 94108
MAIN 415.814.6910 | DIRECT 415.624.6631
AKEMPF@HGA.COM | HGA.COM

INTERIOR DESIGN

GALLUN SNOW
1900 GRANT STREET., SUITE 750, DENVER, CO 80203
MAIN 303.433-9500
COURTNEY MCNAUL | DESIGNER | LEED AP
DIRECT 720.407.6016
CMCNAUL@GALLUNSNOW.COM

COUNTY OF MONTEREY ON BEHALF OF
NATIVIDAD MEDICAL CENTER

NOTICE TO BIDDERS

Invitation for Formal Bids & Mandatory Pre-Bid Meeting

MEDICAL-SURGERY 3 RENOVATION – BUILDING 500
PROJECT NO. 9600-55; BID NO.NMC-1014

NOTICE IS HEREBY GIVEN that the County of Monterey (County) on behalf of Natividad Medical Center (NMC) invites qualified contractors to submit sealed bids for the above project. Sealed bids will be received at the OFFICE OF THE CLERK OF THE BOARD OF SUPERVISORS, COUNTY OF MONTEREY, 168 W. ALISAL ST. 1ST FLOOR, SALINAS, CA 93901 (Mailing Address: P.O. BOX 1728, SALINAS, CA 93902-1728) until the **submission deadline at 1:00 p.m. on October 20, 2025**, at which time they will be publicly opened and read in the Board of Supervisors' Conference Room 1032.

The Scope of Work (SOW) for the following Base Bid, in general, consists of tenant improvements to NMC's Medical Surgical Department in Bldg. 500 on the 3rd Floor; a three-story hospital facility located at 1441 Constitution Blvd., Salinas, CA 93912; as follows:

Base Bid:
General Scope: Project consists of upgrading existing Medical-Surgical Inpatient Unit.

1. Level 3 of Natividad Medical Center Hospital, bringing unit up to other recently upgraded units, as follows:
   a. Adding charting stations to each patient room and hallway stations, (2).
   b. Converting select group of private rooms to semi-privates.
   c. Upgrading lighting at patient headwalls (to support #2).
   d. Upgrading finishes at toilet rooms (including making three toilet-shower rooms accessible).
   e. Upgrading finishes to patient rooms and select portions of public corridors as described within scope of Contract Documents.
2. Work Included: Provide labor, materials, articles, equipment, incidentals, items, tools, services, supplies, methods, operations, skills in such quantities as may be necessary to complete project within intent of Contract Documents.

3. Singular notations shall be considered plural where plural application is reasonably inferable. Mention or indication of extent of work under work division or specification section is done only for convenience of Contractor and shall not be construed as describing all work required under that Division or Section.

Construction Contract: Construction will be accomplished under a single Prime Contract including General Construction, Mechanical and Electrical work.

Construction Limits: Except as specifically indicated or as may be necessary to complete the Work under the Contract, activities of the Contract shall be limited to within the limits designated on Drawings.

Project specifications, drawings, and other contract documents are available electronically and may be downloaded for free from the Monterey County website at: http://www.natividad.com/about-us/vendors. Interested bidders must register to view or download the documents on the project page, located under 'About Us' > 'Vendors' > 'Vendor Solicitations': (interested bidders must register to view or download the documents) and at Public Purchase listed on the project page. Members of Public Purchase can also access materials directly from its website.

Each bid shall be in accordance with the design drawings, plans, specifications, and subject to all Special Provisions/Conditions, General Conditions, and other contract documents prepared by the County, and shall be submitted on the bid form prescribed by County. County reserves the right to reject any or all bids, or to waive any irregularities or informalities in any bids or in the bidding. No bidder may withdraw his bid for a period of sixty (60) days after the opening of bids without the written consent of County.

Bidder shall possess a valid Class B General Building Contractor's License and OSHPD 1 certification at the time of bid opening.

Each bid shall be accompanied by bidder's security in an amount not less than ten percent (10%) of the total bid amount in the form of cash, cashier's check, or certified check payable to County, or a bidder's bond in the form attached to the proposal; executed by bidder as principal and by an admitted surety company.

The successful bidder shall furnish an initial Payment Bond and a Performance Bond, each in the amount of 100% of the contract in which the bond shall remain in force for the duration and until completion of any outstanding projects.

A MANDATORY BIDDERS' MEETING with the NMC Project Manager is scheduled for **November 3, 2025 at 10:00 a.m.** and will be held at the project site (Natividad Medical Center, Bldg. 500).

Pursuant to Public Contract Code Section 22300, the Contractor may substitute securities for any monies withheld by County to ensure performance under the contract.

Pursuant to Section 1725.5 of the Labor Code, a Contractor or subcontractor shall be registered to be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any public work contract that is subject to the requirements of this section.

Pursuant to Section 1771.1, it is not a violation of this section for an unregistered Contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the Contractor is registered to perform public work Pursuant to Section 1725.5 at the time the contract is awarded.

Pursuant to Section 1173 of the Labor Code, the general prevailing wage rates in the county, or counties, in which the work is to be done have been determined by the Director of California Department of Industrial Relations (DIR) and are on file and available on the following DIR website: https://services.dir.ca.gov/gsp and at Natividad Medical Center – 1441 Constitution Blvd., Engineering Dept, Building 900 Salinas, CA 93912. It shall be mandatory upon the Contractor to whom the contract is awarded, and upon any subcontractor under him, to pay not less than said specified rates to all workers employed by them in the execution of the contract. Project is subject to compliance monitoring and enforcement by DIR.

All questions regarding this project during the bidding process must be submitted in writing and received **no later than 10:00 a.m. on November 14, 2025** as follows: E-mail inquiries to Brian Griffin, NMC Construction Project Manager at GriffinB@natividad.com or via U.S. postal mail to Natividad Medical Center, Bid No. NMC-1014, Attn: Construction Project Manager, Engineering Department, 1441 Constitution Blvd., Salinas, CA 93912.

Questions received after the deadline will **not** be accepted. Answers to all written questions and project addenda will be posted to RMA-Public Works project page listed above.

Date: October 21, 2025

BOARD OF SUPERVISORS
COUNTY OF MONTEREY

Publication dates:
October 23, 2025
October 30, 2025

INSTRUCTIONS TO BIDDERS

Section 002000

This "Instructions to Bidders" is intended to assist bidders in the preparation of their bids. If there is any inconsistency between the terms herein and any of the other contract documents, the terms in the other contract documents shall prevail.

1. Notice To Bidders/Invitation to Submit Bids

County of Monterey (County) invites bids to be submitted at such time and place stated in the Notice to Bidders. **The Notice to Bidders is advertised in a newspaper of general circulation and is posted as a separate document on County of Monterey website, RMA-Public Works project page.** This "Instructions to Bidders" is intended to assist bidders in the preparation of their bids. If there is any inconsistency between the terms herein and any of the other contract documents, the terms in the other contract documents shall prevail.

2. Examination of Site, Bidding and Contract Documents

Project specifications, drawings, and other contract documents may be examined at Engineering Office bldg. 900 at 1441 CONSTITUTION BLVD, SALINAS, CA 93906 (831)755-4220.
Also, Project documents may be viewed, downloaded, and printed **for free** directly from the Monterey County website project page: http://www.co.monterey.ca.us/publicworks/announcements.shmtl, select *For Current Bids*, then Project. Interested parties must register to view/download documents. Alternately, interested parties may engage a printing service of their choosing to download and print documents from County project page. Project documents may also be available to view at builders' exchanges listed on the project page or members of Ebidboard can access materials directly from its website.

Each bidder shall visit the site of the proposed work and become fully acquainted with the conditions relating to the construction and labor in order to understand fully the facilities, difficulties, and restrictions attending the execution of the work under the contract. Bidders shall thoroughly examine and become familiar with the plans, specifications, working details, and existing conditions. The failure or omission of any bidder to receive or examine any contract documents, form, instrument, addendum, or other document, or to visit the site and become acquainted with conditions there existing shall in no way relieve such bidder from obligations with respect to such bid or to the contract. Submission of a bid shall be taken as prima facie evidence of compliance with this section.

3. Mandatory Bidder's Meeting

If a mandatory bidders' meeting is required in the Notice to Bidders, then a qualified representative of the bidder's firm must attend at the stated time and place. Failure to attend will be cause for rejection of the bid. Any bid received from a bidder who did not fully attend the mandatory bidders' meeting at the stated time and place will be returned unopened. "Fully attend" means attending the entire meeting from start to finish; late arrivals and early departures may be cause for rejection of the bid.

4. Contractor's License

Each bidder must be licensed to perform the project in accordance with the provisions of Contractors' State Licensing Law, Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and in accordance with the Notice to Bidders. Contractor's license number and expiration date of the license shall appear on the bid. The classification of Contractor's License required for this project is "B - General Building Contractor."

5. Contractor Registration with the Department of Industrial Relations

Attention is directed to Department of Industrial Relations Contractor registration for public works projects. Pursuant to Labor Code section 1771.1(a), a contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4101 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform public work pursuant to Section 1725.5. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded.

This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations. For Contractor Registration, go to: https://services.dir.ca.gov/gsp.

6. Preparation of Bid Form

All bids must be submitted on the prescribed form. All blanks in the bid form must be appropriately filled in, and all prices must be stated in both words and figures, with the lump sum for which the bid is made. All bids must be submitted in sealed envelopes bearing on the outside the bidder's name and address, the name of the project, the bid date and time, and the bid package number for which the bid is submitted. It is the sole responsibility of the bidder to see that the bid is received at the proper place and in proper time. Any bid received after the scheduled closing time for receipt of bids will be returned to the bidder unopened.

7. Erasures

The bid submitted must not contain any erasures, interlineations, or other corrections unless each such correction is suitably authenticated by affixing in the margin immediately opposite the correction the surname or surnames of the person or persons signing the bid, in the named person's own handwriting.

8. Modifications

Changes in or additions to the bid form, recapitulations of the work bid upon, alternative proposals, or any other modification of the bid form which is not specifically called for in the contract documents may result in County's rejection of the bid as not being responsive to the invitation to bid. No oral or telephonic modification of any bid submitted will be considered. A telegraphic or telefax modification may be considered.

9. Signature

The bid must be signed in the name of the bidder and must bear the signature in longhand of the person or persons duly authorized to sign the bid. An original signature is required.

10. Interpretation of Plans and Documents

If any person contemplating submitting a bid for the proposed contract is in doubt as to the true meaning of any part of the plans, specifications, or other contract documents, or finds discrepancies in or omissions from the plans and specifications, he may submit to County a written request for an interpretation or correction thereof. The person submitting the request shall be responsible for its prompt delivery. Any interpretation or correction of the contract documents will be made only by official project Q&A (questions/answers) or addendum duly issued, and a copy of such will be posted on Monterey County website at: http://www.natividad.com/about-us/vendors. Interested bidders must register to view or download the documents on the project page, located under 'About Us' > 'Vendors' > 'Vendor Solicitations

11. Bidding Questions

All questions regarding the project during the bidding process must be made in writing to the attention of the designated project bidding coordinator via E-mail, postal mail, or via facsimile (fax). Contact information is listed on Monterey County website: http://www.natividad.com/about-us/vendors select *For Current Bids*, then the Project]. No telephone or verbal questions will be accepted. ***QUESTIONS RECEIVED AFTER THE DEADLINE LISTED IN THE NOTICE TO BIDDERS WILL NOT BE ACCEPTED.*** Answers to all questions and any addendum regarding the project will be posted on the Project Page listed above.

12. Bid Security

Each bid shall be accompanied by bidder's security in the form of cash, a certified or cashier's check payable to County, or a satisfactory bid bond in the form included in this bid book (Division 004400) in favor of County executed by the bidder as principal and a satisfactory corporate surety authorized to do business in the State of California as an admitted surety insurer, in an amount not less than ten percent (10%) of the total bid amount. The security shall be given as a guarantee that, if the contract is awarded to the bidder, the bidder will execute the contract, provide any required insurance certificates, and provide any payment and performance bonds required by the contract within ten (10) days after the bidder receives the Notice of Intent to Award letter. After ten (10) days, if the executed agreement, proper bonds and insurance documents are not submitted by the lowest responsive bidder, County has the right to determine that bid non-responsive and contact the second lowest responsive bidder.

13. Contractor's Qualifications

Each bid shall be accompanied by a list of the Contractor's Qualifications. To qualify a General Contractor must have previous experience of:

A. OSHPD 1 permitted project of contract value of $4 million dollars or more.
B. OSHPD 1 permitted project of occupied patient spaces that consisted of OSHPD approved phased occupancy of the completed spaces. Patient occupied spaces include spaces such as nursing, diagnostic, treatment, or public access such as pharmacy, waiting, lobby.

Each bid shall be accompanied by a list of qualifying projects, with: name of project, owner, location, brief project scope description, value of construction, if OSHPD approved phased construction, current phone number or email of contact person at facility.

14. Major Subcontractor's Qualifications

The following major subcontractors, HVAC, Plumbing, Fire Protection, Electrical, Fire Alarm, Drywall, and Suspended Ceilings, shall have previous experience of:

A. OSHPD permitted project of occupied patient spaces that consisted of phased occupancy of the completed spaces. Patient occupied spaces include spaces such as nursing, diagnostic, treatment, or public access such as pharmacy, waiting, lobby.

Each bid shall be accompanied by a list of qualifying projects for each of the listed subcontractors, with: name of project, owner, location, brief project scope description, value of construction, if OSHPD approved phased construction, current phone number or email of contact person at facility.

15. Subcontractors with documents in the Project Documents:

The project drawings include OSHPD plan approved drawings and specifications produced by vendors whose design period input was deemed necessary. Use of other vendors as subcontractors for the work shown on their drawings will require that their drawings and specifications be removed and replaced by drawings and specifications provided by the alternate vendor. The alternate vendor's drawings would then to be need OSHPD plan approval and to be accepted as a Substitute product and the owner's costs

including the owner's design team costs for OSHPD and Substitute review, processing, re-design, and document revision deducted from the contract amount. Any proposal based on alternate vendors shall include a schedule showing the tasks for the review, approval and redesign and identify the time impact on the overall project. Contractor shall be responsible for all impacts on other trades.

16. Reference Documents

Reference Documents are provided for the purpose of providing contractor available information regarding existing conditions and the details and requirements of owner furnished equipment that form the design basis of the documents. The contractor shall verify the information within the reference documents before proceeding.

17. Listing Subcontractors

Each bidder shall submit with the sealed bid a list of the proposed subcontractors for the project as required by the Subletting and Subcontracting Fair Practices Act (Public Contract Code section 4100, et seq.). Forms for this purpose are furnished with the contract and bid documents. This includes all subcontractors performing work in an amount in excess of one-half of one percent of the prime contractor's total bid. All information is required. Effective July 2014, AB44 specifically requires that the California contractor license number of each subcontractor be provided.

18. Prevailing Wage

The Director of the Department of Industrial Relations has determined the general prevailing rate of per diem wages and the general prevailing rate for holiday and overtime work in the locality in which this work is to be performed for each craft or type of worker needed to execute the contract. Copies of the prevailing rate of per diem wages are on file and shall be made available to any interested party on request in the Resource Management Agency-Public Works' office located at 1441 Schilling Place Salinas, CA 93901. It shall be mandatory upon Contractor to whom the contract is awarded, and upon any subcontractor under him, to pay not less than said specified rates to all workers employed by them in the execution of the contract.

19. Workers' Compensation Certificate

In accordance with the provisions of Section 3700 of the Labor Code, Contractor shall secure the payment of workers' compensation to their employees. The following certificate, which such form is included as part of the contract documents, shall accompany each bid:

> *I am aware of the provisions of Section 3700 of the Labor Code, which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract.*

20. Good-Faith Effort to Employ Residents of Monterey Bay Area:

In accordance with Section 5.08.120 of the Monterey County Code, all contractors and subcontractors providing work, laborers, or material suppliers on the project shall make a good-faith effort to employ qualified individuals who are, and have been for at least one (1) year out of the past three (3) years prior to the opening of bids, residents of the Monterey Bay Area in sufficient numbers so that no less than fifty percent (50%) of Contractor's total construction work force, on the project, including any subcontractor work force (with exception of specialty subcontractor items identified in the bid items) measured in labor work hours is comprised of Monterey Bay Area residents. A certification form relating to compliance with Section 5.08.120 is furnished with the bid documents. Bidder must

complete the certification form and submit the certification form with the sealed bid. The Monterey County Board of Supervisors may deem your bid non-responsive for failure to abide by the good-faith local hiring provisions of Section 5.08.120.

If any contractor submitting a bid for a contract for public works of improvement fails to abide by the good-faith local employment provisions of this Section, Contractor may be declared by the Board to be a non-responsive bidder for purposes of this Chapter. If a contractor lists in his or her bid a subcontractor who is currently disqualified under the terms of this Section, the Board may declare said con-tractor to be a non-responsive bidder for purposes of this Chapter. If the Board finds that a contractor to whom a contract for public works of improvement has been awarded has failed to comply with the good-faith employment provisions of this Section during the performance of the contract, the Board may disqualify Contractor from bidding on any County contract for public works of improvement for a period of one (1) year from the date of the Board's disqualification. A subsequent violation of this Section by a contractor may result in disqualification by the Board for a period of three (3) years from the date of the subsequent disqualification.

"Resident of Monterey Bay Area" means a person who resides within the boundaries of Monterey County, Santa Cruz County, or San Benito County.

A "good-faith effort" means Contractor will take the following or similar actions to recruit and maintain Monterey Bay Area residents as part of the construction work force:

- Contact local recruitment sources, including local hiring halls, to identify qualified individuals who are Monterey Bay Area residents;
- Advertise for qualified Monterey Bay Area residents in trade papers, electronic/″on-line″ sources, and newspapers of general circulation in the Monterey Bay Area, unless time limits imposed by County do not permit such advertising.
- If portions of the work are to be performed by subcontractors, identify qualified subcontractors whose work force includes Monterey Bay Area residents; and
- If current work force does not exceed the fifty (50) percent local employment requirement, develop a written plan to recruit Monterey Bay Area residents as part of the construction work force.

Contractor shall keep an accurate record on a standardized form showing the name, place of residence trade classifications, hours worked, proof of journeyperson or apprenticeship status, per diem wages and benefits of each person employed by Contractor, Contractor's subcontractors on the project, including full-time, part-time, permanent, and temporary employees, make sure records are available to County with submission of final certified payroll records prior to final payment.

Contractor shall keep, and provide to County, on standardized forms acceptable to County, an accurate record documenting compliance with this provision. Said records shall include a listing by name and business address of all local recruitment sources contacted by the contractor, the date of the local recruitment contact and the identity and business address of the person contacted, the trade and classi-fication and number of hire referrals requested, the number of local hires employed as a result of the contract, and the residence address of the person(s) employed pursuant to the contact.

At the conclusion of the project, and at other intervals as may be deemed appropriate by Construction Manager, Contractor shall provide a summary report of the percentage of actual labor work hours performed by Monterey Bay Area residents on the project.

Contractors and subcontractors are referred to the provisions of Section 5.08.120 of the Monterey

County Code and the rules, regulations, and procedures adopted to implement Section 5.08.120, which are online at http://library.municode.com/index.aspx?clientId=16111.

21. Bidders Interested in More Than One Bid

No person, firm, or corporation shall be allowed to make, or file, or be interested in more than one bid for the same work unless alternate bids are specifically called for. A person, firm, or corporation that has submitted a sub-proposal to a bidder, or that has quoted prices of materials to a bidder, is not thereby disqualified from submitting a sub-proposal or quoting prices to other bidders or making a prime proposal.

22. Withdrawal of Bids

Any bidder may withdraw their bid either personally, by submitting a written request or telefaxed request to the County, at any time prior to the scheduled closing time for receipt of bids.

23. Evidence of Responsibility

Upon request of County, a bidder whose bid is under consideration for the award of the contract shall submit promptly to County satisfactory evidence showing the bidder's financial resources, construction experience, and organization available for the performance of the contract, and upon written request, shall furnish County a complete copy of its estimate and all appropriate backup information and supporting documents. County may utilize this information as a basis for determining that a contractor is not responsible and, therefore, award the contract to the next lowest responsible and responsive bidder.

24. Early Completion of Project

If, as an express or implied condition of their bid, a bidder plans to complete the project before the completion date specified in the contract documents and the amounts bid for the work called for are dependent upon such early completion, the bidder must submit with his bid a preliminary work progress schedule in sufficient detail to permit County or its Architect to determine that the bidder's preliminary schedule presents a reasonable and practicable plan for performance.

1) Preliminary schedule shall be the bidder's proposed working schedule to plan, organize, and execute the work, record and report actual performance and progress, and show how general contractor plans to complete all remaining work as of the end of each progress report period.
2) The preliminary schedule shall be in the form of an activity on arrow-oriented *(I-J format)* network diagram (Critical Path Method) and the principles and definition of the terms used shall be as set forth in the Associated General Contractors of America (AGC) publication.
3) Failure to include a detailed preliminary work progress schedule with the bidder's bid shall be conclusively deemed to constitute acceptance of County's completion date as specified in the contract documents, and the bidder shall not thereafter be entitled to damages for any delays based on an early completion date proposed by the bidder.
4) Bidder who submits with his bid a preliminary work progress schedule which either (a) lacks sufficient detail to permit County to determine that the bidder's preliminary schedule presents a reasonable and practicable plan for performance or (b) is determined by County or its Architect not to be a reasonable and practicable plan for performance shall be deemed nonresponsive to the call for bids and his bid shall be rejected.

25. Award of Contract

County reserves the right to reject any or all bids, or to waive any irregularities or informalities in any bids or in the bidding. The award of the contract, if made by County, will be to the lowest responsible and responsive bidder. The lowest bidder for the project will be determined by the Base Bid or along

with any Add Alternates.

26. Documents required upon receipt of Notice of Intent to Award letter

Within ten (10) days after the bidder receives notice the Notice of Intent to Award letter, the successful bidder shall, in conformity with the contract documents, submit the following documents, including the number of originals required in the Supplementary Conditions:

- Executed Agreement (Division 005000);
- A performance bond and a payment bond, each in an amount equal to one hundred percent of the contract sum, issued and executed by an admitted surety insurer, authorized to transact surety insurance in California (Division 006000 and 006100);
- Insurance certificates showing that the successful bidder has obtained all required insurance coverage including endorsements;
- Printout showing active registration of Contractor and all Subcontractors with the Public Works Contractor Registration (online registration https://services.dir.ca.gov/gsp)
- Such other documents as may be required by the contract documents.

27. Bid Security Return

The bid security shall be returned to the bidders promptly after a decision is made whether to accept a bid or reject all bids, except that if a contract award is to be made, the bid security of three or more of the lowest bidders (the number being at the discretion of County) will be held for sixty (60) days after notice of award is received by the successful bidder or until the successful bidder returns the executed Agreement and posts the required bonds and certificates of insurance, whichever occurs first. If the successful bidder returns the required documents on time, all the remaining bid security will be returned.

28. Forfeiture for Failure to Execute Contract

If the bidder to whom a Notice of Intent to Award letter is made fails or refuses to execute the contract and post the required bonds and insurance certificates within ten (10) days from the date of receiving the Notice of Intent to Award letter, County may declare the bidder's bid security forfeited as liqui-dated damages caused by the failure of the bidder to enter into the contract, and may award the work to the next lowest responsible and responsive bidder or may call for new bids. If the work is awarded to the next bidder, County shall retain the remaining bid securities until such time as a new award is completed with the execution of the Agreement and the posting of bonds and certificates. If new bids are called for, all remaining bid securities will be promptly returned.

29. Bid Protests

Who can file a protest?

Any Bidder or directly affected party who is aggrieved in connection with the solicitation or award of contract (ex. Subcontractor), representatives of the above (ex. Unions) may file a bid protest.

Requirements for Filing a Protest

Bidders who wish to lodge a protest as to the award of the bid must do so before 5 p.m. of the fifth business day following the issuance of the Notice of Intent to Award letter. Failure to timely file a written protest shall constitute a waiver of right to protest. Untimely protests will not be accepted or considered. Bid protests must be submitted, in writing, to: **NATIVIDAD MEDICAL CENTER TO THE ATTENTION OF PROJECT MANAGER/ ENGINEERING OFFICE BLDG. 900 AT 1441 CONSTITUTION BLVD, SALINAS, CA 93906**. Protests may be hand-delivered or sent via facsimile **[(831)755-4268],** certified

postal mail, or E-mailed to the attention of Project Manager at GriffinB@natividad.com. Bid protests must include the project name and bid number; a complete statement describing the basis for the bid protest, including a detailed statement of all legal and factual grounds for the protest; any documentation supporting the protestor's grounds for the protest; and the form of relief requested and legal basis for such relief. The party lodging the protest must also include their contact information including mailing address, telephone number, and E-mail address.

If a valid protest is timely filed, NMC shall investigate the bid protest. The protested party shall have three (3) business days to respond to any requests to provide additional information from NMC.

County Response to Protests Received

NMC Facilities shall respond to the protesting party, in writing, stating its findings. Assistant Administrator Operations & Support shall submit a summary of bid protests received and make a recommendation to the Board of Supervisors regarding the bid protest(s).

BID FORM
Division 003000

MONTEREY COUNTY BOARD OF SUPERVISORS

MAILING ADDRESS		P O BOX 1728 SALINAS CA 93902
PHYSICAL ADDRESS		168 W ALISAL ST 1st FLR SALINAS CA 93901

MEDICAL-SURGERY 3 RENOVATION – BUILDING 500
PROJECT No. 9600-55 BID No. NMC-1014

NAME OF BIDDER: _____

BUSINESS ADDRESS: _____

_____

TELEPHONE NUMBER: _____

PLACE OF RESIDENCE: _____

BID FORM
MEDICAL-SURGERY 3 RENOVATION – BUILDING 500
PROJECT No. 9600-55 BID No. NMC-1014

TO: MONTEREY COUNTY BOARD OF SUPERVISORS

1. Pursuant to and in compliance with your Notice to Bidders inviting formal bids and with the other documents relating thereto, the undersigned bidder, having become familiar with the terms of the contract, the local conditions affecting the performance of the contract, the cost of the work at the place where the work is to be done, the project plans and specifications, and the other contract documents, hereby proposes and agrees to perform within the time stipulated and to provide and furnish any and all labor, materials, equipment, transportation, utilities, and services necessary to perform the contract and complete in a workmanlike manner all of the work required in connection with the above project**,** all in strict conformity with the drawings and specifications and other contract documents, including addenda nos. ___, ___, ___, ___, and ___, for the sum hereinafter stated (in the event of a discrepancy between the words and figures, the amount in words will govern):

BASE BID:
General Scope: Project consists of upgrading existing Medical-Surgical Inpatient Unit.

4. Level 3 of Natividad Medical Center Hospital, bringing unit up to other recently upgraded units, as follows:
   f. Adding charting stations to each patient room and hallway stations, (2).
   g. Converting select group of private rooms to semi-privates.
   h. Upgrading lighting at patient headwalls (to support #2).
   i. Upgrading finishes at toilet rooms (including making three toilet-shower rooms accessible).
   j. Upgrading finishes to patient rooms and select portions of public corridors as described within scope of Contract Documents.
5. Work Included: Provide labor, materials, articles, equipment, incidentals, items, tools, services, supplies, methods, operations, skills in such quantities as may be necessary to complete project within intent of Contract Documents.

6. Singular notations shall be considered plural where plural application is reasonably inferable. Mention or indication of extent of work under work division or specification section is done only for convenience of Contractor and shall not be construed as describing all work required under that Division or Section.

Construction Contract: Construction will be accomplished under a single Prime Contract including General Construction, Mechanical and Electrical work.

Construction Limits: Except as specifically indicated or as may be necessary to complete the Work under the Contract, activities of the Contract shall be limited to within the limits designated on Drawings.

BID FORM

ALLOWANCES:
As described in Section 012100-Allowances the Base Bid includes:

ALLOWANCE #1: Discovered Conditions

☒ INCLUDED IN THE BASE BID

ONE HUNDRED THOUSAND
Dollars

$ 100,000.00

BASE BID:

$ _____ Dollars

BID FORM

TABLE OF UNIT COSTS

A. Costs: Include in each unit price all the changes in costs, whether additive or deductive, resulting to the Work of all Sections of the Specification and Drawings affected by Unit Prices. Extent of Unit Prices: Bidders shall determine full extent of work affected by each Unit

B. Price and make full and proper allowance for such extent in the preparation of Bids.

C. Following are the minimum requirements and shall govern except as exceeded by requirements of Drawings, other Sections, or Code. Workmanship and materials not modified under the Unit Prices shall conform to pertaining Sections of the Specifications, Drawings and governing codes, as applicable. Unless otherwise specified, unit prices shall include materials, fabrication and installation.

D. Labor: Include every conceivable item of cost pertaining to labor on-site and off-site, including all applicable supervision, burdens, benefits, insurances, non-productive labor, indirect job expenses, miscellaneous tools, drawings, submittals, engineering temporary power, warehouse equipment, clean up, bonds, taxes, overhead and profit. The only item not to be included in the unit prices is the General Contractor's Overhead and Profit.

E. The "Added Work" unit price and the "Deleted Work" unit price shall not vary more than 10%.

Item	*Description*	*Unit*	*Cost*
1	Add IT data outlets and cabling: a) 1 port wall phone b) 1 port data c) 2 port data d) 4 port data e) 6 port data f) 1 port data in MRI inclusive of powered RF filter and outlet to plug in data port	 EA. EA. EA. EA. EA. EA.	
2	Delete IT data outlets and cabling: a) 1 port wall phone b) 1 port data c) 2 port data d) 4 port data e) 6 port data	 EA. EA. EA. EA. EA.	
3	Add Electrical outlet including faceplate, fixture, j-box, and up to 50 feet of wiring and conduit to point of termination. a) 1 duplex outlet b) 1 quad outlet	 EA. EA.	
4	Delete Electrical outlet including faceplate, fixture, j-box, and up to 50 feet of wiring and conduit to point of termination. a) 1 duplex outlet b) 1 quad outlet	 EA. EA.	

BID FORM

2. **Determination of lowest responsible bidder** – Determination of lowest bidder will be based upon the Base Bid of Scope. The contract will then be awarded to the Bidder submitting the lowest amount, or else all bids will be rejected. Unit pricing provided by the bidder, if any, shall be incorporated in the Agreement, and shall be the basis for calculating any costs involving changes to the work. The County of Monterey (County) may contract with the successful bidder for all, some, or none of the alternates.

3. The undersigned has checked all above figures carefully and understands that County will not be responsible for any errors and omissions on the part of the undersigned in making this bid.

4. It is understood that County reserves the right to reject any and all bids or waive any informalities or irregularities in any bids or in the bidding.

5. This bid shall remain valid and will not be withdrawn by the undersigned bidder for a period of sixty (60) days from the date prescribed for opening of this bid without the written consent of County.

6. Attached hereto are the following:
   a) List of Subcontractors;
   b) Non-Collusion Declaration;
   c) Workers' Compensation Certificate;
   d) Contractor's Certification of Good-Faith Effort to Employ Monterey Bay Area Residents;
   e) Written Plan to Recruit Monterey Bay Area Residents, when applicable;
   f) Required bidder's security in an amount not less than 10 percent of the base bid amount;
   g) Detailed preliminary work schedule if the bidder plans to complete the project before the completion date specified in the contract documents; and
   h) Acknowledgment of Addenda, if any.

7. If this bid is accepted by County, then the undersigned shall, within ten (10) days after receipt of the Notice of Intent to Award letter, execute and deliver to County (a) a contract in the form set forth in the contract documents on which this bid is based, (b) a payment bond for public works, as required by the contract documents, (c) a performance bond, as similarly required, (d) an Insurance Certificate, as similarly required; and (e) printout showing active registration of Contractor and all subcontractors with the Public Works Contractor Registration (online registration https://efiling.dir.ca.gov/PWCR/Search). The undersigned will thereafter commence and complete the work within the time required by the contract documents.

8. Notice of acceptance and any requests for additional information shall be addressed to the undersigned at the following address:

NATIVIDAD MEDICAL CENTER OR VIA FACSIMILE: (831)755-4268

PROJECT MANAGER BRIAN J. GRIFFIN
NATIVIDAD MEDICAL CENTER
1441 CONSTITUTION BLVD
SALINAS, CA 93906

BID FORM

9. The names of all persons interested in the foregoing proposal as principals are as follows:

Name	Title
Name	Title
Name	Title

(**IMPORTANT NOTICE**: If the bidder or other interested person is a corporation, state the legal name of the corporation, and the names of the president, secretary, treasurer, and manager thereof; if a partnership, state the name of the firm and the names of all the individual partners composing the firm; if the bidder or other interested person is an individual, state the first and last names in full and give all fictitious names under which the individual does business.)

10. By execution of this bid, the undersigned bidder declares that he or she is a contractor licensed in accordance with the Contractors' State License Law, as follows:
Classification: _____
License number: _____
Expiration date: _____

11. In the event the bidder to whom Notice of Intent to Award letter is given fails or refuses to post the required bonds and insurance and return the executed copies of the agreement form within ten (10) days from the date of receiving the Notice of Intent to Award letter, County may declare the bidder's security forfeited as damages and contract with the second lowest bidder.

BID FORM

12. Pursuant to section 7103.5(b) of the Public Contract Code, in submitting a bid to County, the bidder offers and agrees that if the bid is accepted, it will assign to County all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Section 15) or under the Cartwright Act (Chapter 2 [commencing with section 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, materials, or services by the bidder for sale to the purchasing body pursuant to the bid. Such assignment shall be made and become effective at the time the purchasing body tenders final payment to the bidder.

Dated _____

Bidder's Business Name _____

By _____

Principal Signature _____

Principal Name (Print) _____

Principal Title (Print) _____

By _____

Principal Signature _____

Principal Name (Print) _____

Principal Title (Print) _____

(Corporate Seal)

NOTE: ***If bidder is a corporation, the full legal name of the corporation shall be set forth above together with the signatures of authorized officers or agents and the document shall bear the corporate seal; if bidder is a partnership, the full name of the firm shall be set forth above together with the signature of the partner or partners authorized to sign contracts on behalf of the partnership; and if bidder is an individual, his signature shall be placed above.***

END BID FORM

LIST OF SUBCONTRACTORS

Section 003500

In compliance with the Subletting and Subcontracting Fair Practices Act (Chapter 4 [commencing with section 4100], Part 1, Division 2 of the Public Contract Code) and any amendments thereto, each bidder shall set forth below: (a) the name and the location of the place of business of each subcontractor who will perform work or labor or render service to the prime contractor in or about the construction of the work or improvement to be performed under this contract or a subcontractor licensed by the State of California who, under subcontract to the prime contractor, specially fabricates and installs a portion of the work or improvement according to detailed drawings contained in the plans and specifications in an amount in excess of one-half of one percent of the prime contractor's total bid, and (b) the portion of the work which will be done by each subcontractor under this Act. The prime contractor shall list only one subcontractor for each such portion as is defined by the prime contractor in this bid. The term "portion of work" refers to the type of work. The prime contractor has up to 24 hours from the time of the bid opening to submit a revised listing to correct any inadvertent error in the required subcontractor license information.

If a prime contractor fails to specify a subcontractor or if a prime contractor specifies more than one subcontractor for the same portion of the work to be performed under the contract in excess of one-half of one percent of the prime contractor's total bid, he shall be deemed to have agreed that he is fully qualified to perform that portion himself, and that he shall perform that portion himself.

No prime contractor whose bid is accepted shall: (a) substitute any subcontractor, (b) permit any subcontract to be voluntarily assigned or transferred or allow it to be performed by any one other than the original subcontractor listed in the original bid, or (c) sublet or subcontract any portion of the work in excess of one-half of one percent of the prime contractor's total bid as to which his original bid did not designate a subcontractor, except as authorized in the Subletting and Subcontracting Fair Practices Act. Subletting or subcontracting of any portion of the work in excess of one-half of one percent of the prime contractor's total bid as to which no subcontractor was designated in the original bid shall only be permitted in cases of public emergency or necessity, and then only after a finding reduced to writing as a public record of the authority awarding this contract setting forth the facts constituting the emergency or necessity.

Bidder's Business Name: _____

By: _____

Print Name: _____

Print Title: _____

Date: _____

☐ **Check this box if no subcontractors are required to be listed for work or labor to be performed or services to be rendered. Otherwise provide <u>all</u> requested information below. Assembly Bill No. 44 requires name/location of business/CA contractor's license of all subcontractors**

Portion (Type) of Work	Subcontractor Name/ License Number & Expiration Date	Subcontractor's Location of Place of Business

(This form may be duplicated as necessary)

CONTRACTOR'S QUALIFICATIONS

Section 003600

In the form following provide information on prior qualifying projects. To qualify a General Contractor must have previous experience of:

A. OSHPD 1 permitted project of contract value of $4 million dollars or more.
B. OSHPD 1 permitted project of occupied patient spaces that consisted of OSHPD approved phased occupancy of the completed spaces. Patient occupied spaces include spaces such as nursing, diagnostic, treatment, or public access such as pharmacy, waiting, lobby.

Each bid shall be accompanied by a list of qualifying projects, with: name of project, owner, location, brief project scope description, value of construction, if OSHPD approved phased construction, current phone number or email of contact person at facility. The prime contractor has up to 24 hours from the time of the bid opening to submit a revised listing to correct any inadvertent error in the required subcontractor license information.

Bidder's Business Name: _____

By: _____

Print Name: _____

Print Title: _____

Date: _____

PUT A CHECK MARK IN COLUMN IF OSHPD PERMITTED, GREATER THAN $4 MILLION, OR OSHPD PHASED PROJECT

PROJECT NAME AND DESCRIPTION	OWNER CONTACT	OSHPD PERMITTED	> $4 MILLION	PHASEED

(This form may be duplicated as necessary)

MAJOR SUBCONTRACTOR'S QUALIFICATIONS

Section 003700

In the form following provide information on prior qualifying projects. To qualify a Major Subcontractor must have previous experience of:

A. OSHPD permitted project of occupied patient spaces that consisted of OSHPD approved phased occupancy of the completed spaces. Patient occupied spaces include spaces such as nursing, diagnostic, treatment, or public access such as pharmacy, waiting, lobby.

Each bid shall be accompanied by a list of qualifying projects, with: name of project, owner, location, brief project scope description, value of construction, if OSHPD approved phased construction, current phone number or email of contact person at facility. The prime contractor has up to 24 hours from the time of the bid opening to submit a revised listing to correct any inadvertent error in the required subcontractor license information.

Bidder's Business Name: _____

By: _____

Print Name: _____

Print Title: _____

Date: _____

PUT A CHECK MARK IN COLUMN IF OSHPD PERMITTED, OR OSHPD PHASED PROJECT

TRADE:_____

SUBCONTRACTOR NAME:_____

PROJECT NAME AND DESCRIPTION	OWNER CONTACT	OSHPD PERMITTED	PHASEED

(This form may be duplicated as necessary)

NONCOLLUSION DECLARATION
TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID
(Public Contract Code Section 7106)
Section 004000

The undersigned declares:

I am the _____ of _____ the party making the foregoing bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. The bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder. All statements contained in the bid are true. The bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on _____[date], at _____ _____ [city], _____[state].

Signature: _____

Print Name: _____

CONTRACTOR'S CERTIFICATE AS TO WORKERS' COMPENSATION

(Labor Code section 1861)
Section 004100

Labor Code section 3700 provides, in relevant part:

> "Every employer except the state shall secure the payment of compensation in one or more of the following ways:
>
> (a) By being insured against liability to pay compensation in one or more insurers duly authorized to write compensation insurance in this state.
>
> (b) By securing from the Director of Industrial Relations a certificate of consent to self-insure, either as an individual employer, or as one employer in a group of employers, which may be given upon furnishing proof satisfactory to the Director of Industrial Relations of ability to self-insure and to pay any compensation that may become due to his or her employees."

I certify that I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for Workers' Compensation or to undertake self-insurance in accordance with the provisions of that Code, and I will comply with such provisions before commencing the performance of the work of this contract.

Dated: _____

Bidder's Business Name: _____

By: _____

Print Name: _____

Print Title: _____

CONTRACTOR'S CERTIFICATION OF GOOD-FAITH EFFORT TO EMPLOY MONTEREY BAY AREA RESIDENTS

(Monterey County Code section 5.08.120)
Section 004300

I CERTIFY THAT I am aware of the provision of Monterey County Code Section 5.08.120.

Monterey County Code Section 5.08.120 provides, in relevant part:

A. General Provisions. All County contracts for public works of improvement shall contain provisions pursuant to which the contractor shall make a good-faith effort to employ qualified individuals who are, and have been for at least one (1) year out of the past three (3) years prior to the opening of bids, residents of the Monterey Bay Area in sufficient numbers so that no less than fifty percent (50%) of the contractors total construction work force, on that particular contract, including any subcontractor work force (with exception of specialty subcontractor items identified in bid items) measured in labor work hours, is comprised of Monterey Bay Area residents.

B. Non-responsive Bidder Declaration: Enforcement. If any contractor submitting a bid for a contract for public works of improvement fails to abide by the good-faith local employment provisions of this Section, Contractor may be declared by the Board to be a non-responsive bidder for purposes of this Chapter. If a contractor lists in his or her bid a subcontractor who is currently disqualified under the terms of this Section, the Board may declare said contractor to be a non-responsive bidder for purposes of this Chapter. If the Board finds that a contractor to whom a contract for public works of improvement has been awarded has failed to comply with the good-faith employment provisions of this Section during the performance of the contract, the Board may disqualify Contractor from bidding on any County contract for public works of improvement for a period of one (1) year from the date of the Board's disqualification. A subsequent violation of this Section by a contractor may result in disqualification by the Board for a period of three (3) years from the date of the subsequent disqualification.

C. Binding on Subcontractors. Every contractor entering into a contract for public works of improvement subject to the provisions of this Section shall include in each and every subcontract for work, laborers, or material supplier relating to the project the requirement that the subcontractor shall make a good-faith effort to employ qualified individuals who are, and have been for at least one (1) year out of the past three (3) years prior to the opening of bids, residents of the Monterey Bay Area. If the Board finds that any subcontractor has failed during the performance of the subcontract to comply with this Section, the Board may disqualify said subcontractor from submitting or being listed in any bid for any County contract for public works of improvement for a period of one (1) year from the date of the Board's disqualification. A subsequent violation by a subcontractor may result in disqualification by the Board for a period of three (3) years from the date of the subsequent disqualification."

I FURTHER CERTIFY AS FOLLOWS (check the box that applies):

☐ I CERTIFY that at least fifty percent (50%) of the total construction work force on the project, including any subcontractor work force, measured in labor work hours, will be comprised of qualified individuals who to the best of my knowledge are, and have been for at least one (1) year out of the past three (3) years prior to the effective date of the opening of bids, residents of the Monterey Bay Area. Evidence that I will comply with this requirement is as follows (please use additional pages to provide supporting evidence and/or documentation, as necessary):

_____

_____

_____

☐ I CERTIFY that I shall make a good-faith effort to employ qualified individuals who, to the best of my knowledge, are, and have been for at least one (1) year out of the past three (3) years prior to the effective date of the opening of bids, residents of the Monterey Bay Area in sufficient numbers such that no less than fifty percent (50%) of the total construction work force on the project, including any subcontractor work force (with the exception of specialty subcontractor items identified in the bid items) measured in labor work hours, will be comprised of Monterey Bay Area residents. **Attached is my written plan to recruit Monterey Bay Area residents as part of the construction work force**.

☐ I CERTIFY that I do not comply with and am unable to make a good-faith effort to comply with the good-faith local employment provisions set forth in Monterey County Code Section 5.08.120. Explanation to why I am not able to comply is as follows (please use additional pages to provide supporting evidence and/or documentation, as necessary):

_____

_____

_____

I declare under penalty of perjury under the laws of the State of California that the foregoing certification is true and correct. Executed on (date) _____
at (city/state) _____.

Bidder's Business Name: _____

By: _____

Print Name: _____

Print Title: _____

BID BOND

Section 004400

(Public Contract Code Section 20129)

WHEREAS the Principal has submitted the accompanying bid dated _____, to the County of Monterey, for the following project:

MEDICAL-SURGERY 3 RENOVATION – BUILDING 500
PROJECT No. 9600-55 BID No. NMC-1014

And WHEREAS, Principal, as bidder, is required to furnish a bond executed by an admitted surety in connection with said bid, to secure the timely execution of the contract and delivery of bonds and insurance certificates, in the event that the contract is awarded to the Principal.

NOW, THEREFORE, we _____ as Principal, and _____

_____

_____ as Surety, are held and firmly bound unto the County of Monterey, a political subdivision of the State of California (hereinafter called "County"), in the penal sum of

_____Dollars ($_____.___), which sum is not less than ten percent (10%) of the base bid amount including all alternates of the Principal submitted to the said County for the above-described project, for the payment of which sum in lawful money of the United States, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT:

If the Principal is awarded the contract and, within the time and manner required under the contract documents for the above-described project, after the prescribed forms are presented to him for signature, (1) enters into a written contract in the prescribed form, in accordance with the bid, (2) files such insurance certificates with the County as may be required by said contract documents, and (3) files a performance bond and a payment bond with the County, in conformity with said contract documents, then this obligation shall be null and void; otherwise, it shall remain in full force.

Surety hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract on the call for bids, or to the work to be performed there under, or the specifications accompanying the same, shall in any way affect its obligation under this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of said contract or the call for bids, or to the work, or to the specifications.

If County brings suit upon this bond and judgment is recovered, the Surety shall pay all litigation expenses incurred by County in such suit, including attorneys' fees, court costs, expert witness fees and investigation expenses.

IN WITNESS WHEREOF, the above-bounden parties have executed this instrument under their several seals this _____ day of _____, 2016, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

(Corporate Seal)

_____
Principal

By: _____

Title: _____

(Corporate Seal)

_____
Surety

By: _____

Title: _____

Attach: 1) A Copy of authorization for signature for Principal, and 2) An original or certified copy of unrevoked appointment, Power of Attorney, Attorney-in-Fact Certificate bylaws or other instrument entitling or authorizing person executing bond on behalf of Surety to do so.

AGREEMENT

Section 005000

THIS AGREEMENT is made by and between the COUNTY OF MONTEREY, a political subdivision of the State of California, hereinafter called "COUNTY," and _____ *(Name of Contractor)*, hereinafter called "CONTRACTOR." For reference purposes, the date of this Agreement is the date it is executed by the Public Works Director.

THE COUNTY AND CONTRACTOR hereby agree as follows:

ARTICLE 1 SCOPE OF WORK

Contractor shall, within the time stipulated, perform the contract as herein defined and shall furnish all work, labor, equipment, transportation, material, and services to construct and complete in a good, expeditious, workmanlike, and substantial manner, the project:

MEDICAL-SURGERY 3 RENOVATION - Building 500 **PROJECT No. 9600-55 Bid No. NMC – 1014**

All work shall be completed in strict conformance with the plans, specifications, and working details prepared by ARCHITECT, and the provisions of the documents listed in Article 6 below, and to the satisfaction of COUNTY.

ARTICLE 2 TIME FOR START AND FINAL COMPLETION

CONTRACTOR shall commence the work on the starting date established in the Notice to Proceed. The CONTRACTOR shall achieve final Substantial Completion of the entire Work no later than SEVEN Hundred**, (250)** days from the date of commencement.

Additionally, CONTRACTOR shall coordinate their work with all other contractors whose work is affected by the scope of work defined in this Agreement. CONTRACTOR expressly agrees to provide appropriate labor, hours, rates, materials, and equipment in response to adjustments in the Project Schedule made by the Monterey County Director of Public Works or his/her designee during the course of the project in order to maintain the required progress.

ARTICLE 3 CONTRACT PRICE

County shall pay CONTRACTOR as full consideration for the performance of the contract, subject to any additions or deductions as provided in the contract documents, the Stipulated Sum of *(written amount):*

_____,

numerical $ amount): $ _____.

The Stipulated Sum is based on the following alternates, if any, which are described in the Contract Documents and are hereby accepted by County:

(State the numbers or other identification of accepted alternates. If the bidding or proposal documents permit the County to accept other alternates subsequent to the execution of this Agreement, attach a schedule of such other alternates showing the amount for each and the date when that amount expires)

Unit prices, if any:

(Identify and state the unit price, and state the quantity limitations, if any, to which the unit price will be applicable)

Item	Units and Limitations	Price per Unit ($0.00)

Allowances included in the Stipulated Sum, if any:

(Identify allowances and state exclusions, if any, from the allowance price)

Item	Allowance

ARTICLE 4 LIQUIDATED DAMAGES

THE PARTIES AGREE THAT IN CASE ALL THE WORK CALLED FOR UNDER THE CONTRACT IN ALL PARTS AND REQUIREMENTS IS NOT COMPLETED WITHIN THE TIME SPECIFIED IN THE CONTRACT DOCUMENTS, DAMAGE WILL BE SUSTAINED BY COUNTY, AND THAT IT IS AND WILL BE IMPRACTICABLE AND EXTREMELY DIFFICULT TO DETERMINE THE ACTUAL DAMAGE WHICH COUNTY WILL THEREBY SUSTAIN. THE PARTIES THEREFORE AGREE THAT CONTRACTOR WILL PAY TO COUNTY THE SUM SET FORTH IN THE SUPPLEMENTARY CONDITIONS, IF ANY, FOR EACH CALENDAR DAY OF DELAY UNTIL THE WORK IS COMPLETED AND ACCEPTED. CONTRACTOR AND HIS SURETY SHALL BE LIABLE FOR THE TOTAL AMOUNT THEREOF. CONTRACTOR AGREES TO PAY SAID LIQUIDATED DAMAGES ESTABLISHED HEREIN, AND FURTHER AGREES THAT COUNTY MAY DEDUCT THE AMOUNT THEREOF FROM ANY MONIES DUE OR THAT MAY BECOME DUE CONTRACTOR UNDER THE CONTRACT.

ARTICLE 5 NOTIFICATION OF THIRD-PARTY CLAIMS

COUNTY shall notify CONTRACTOR of the receipt of any third-party claim relating to the contract and is entitled to recover its reasonable costs incurred in providing the notification as provided in Public Contract Code Section 9201.

ARTICLE 6 COMPONENT PARTS OF THIS CONTRACT

The contract entered into by this Agreement consists of the following documents, all of which are component parts of the contract as if herein set out in full or attached hereto:

- Notice to Bidders
- Instructions to Bidders
- Bid, as accepted
- List of Subcontractors
- Noncollusion Declaration
- Workers' Compensation Certificate
- Contractor's Certification of Good-Faith Effort to Employ Monterey Bay Area Residents
- Written Plan to Recruit Monterey Bay Area Residents, when applicable
- Bid Bond or Bidder's Security
- Agreement
- Performance Bond
- Payment Bond
- Insurance Certificate
- Division 007100 General Conditions,
- Division 007300 Supplementary Conditions,
- Specifications and Drawings as Prepared by ARCHITECT (refer to an exhibit attached to this Agreement that lists Section, Title, Date and Pages for Specifications; Number, Title and Date for Drawings.)
- Appendices:
  List of Drawings
  Preliminary Project Schedule
  Equipment Binder for MEDICAL-SURGERY 3 RENOVATION
- As issued, Project Addenda Nos:

All of the above-named contract documents are intended to be complementary. Work required by one of the above-named contract documents and not by others shall be done as if required by all.

IN WITNESS WHEREOF, the parties have duly executed four (4) identical counterparts of this instrument, each of which shall be for all purposes deemed an original thereof, on the dates set forth below.

COUNTY OF MONTEREY

By: _____

Name: Charles Harris, M.D.

Title: Chief Executive Officer

Date: , 2025

APPROVED AS TO FORM

CONTRACTS/PURCHASING

By: _____

Name: Kristen Aldrich

Title: Contracts/Purchasing Officer

Date: , 2025

APPROVED AS TO FORM & LEGALITY

COUNTY COUNSEL

By: _____

Name: Stacy Saetta

Title: Deputy County Counsel

Date: , 2025

APPROVED AS TO FISCAL TERMS

COUNTY AUDITOR-CONTROLLER

By: _____

Name: Rupa Shah

Title: Chief Deputy Auditor-Controller

Date: , 2025

CONTRACTOR: NAME OF COMPANY

By: _____

Principal Name:

Title:

Date: , 2025

By: _____

Principal Name2:

Title:

Date: , 2025

COMPANY ADDRESS:

Contractor's License Type:

License Number:

License Expiration Date:

NOTE: CONTRACTORS ARE REQUIRED TO BE LICENSED AND REGULATED BY THE CONTRAC-TORS' STATE LICENSE BOARD. ANY QUESTIONS CONCERNING A CONTRACTOR MAY BE REFERRED TO THE REGISTRAR, CONTRACTORS' STATE LICENSE BOARD/P O BOX 26000/ SACRAMENTO CA 95826

INSTRUCTIONS: If bidder is a corporation, the full legal name of the corporation shall be set forth above together with the signatures of authorized officers or agents and the document shall bear the corporate seal; if bidder is a partnership, the full name of the firm shall be set forth above together with the signature of the partner or partners authorized to sign contracts on behalf of the partnership; and if bidder is an individual, his signature shall be placed above.

PERFORMANCE BOND
(Public Contract Code Section 20129)
Section 006000

WHEREAS, the County of Monterey has awarded to Principal,

_____

as Contractor, for the following project:

MEDICAL-SURGERY 3 RENOVATION - Building 500 **PROJECT No. 9600-55 Bid NMC-1014;**

and

WHEREAS, Principal, as Contractor, is required to furnish a bond in connection with said contract, to secure the faithful performance of said contract.

NOW, THEREFORE, we _____

as Principal, and _____

_____

as Surety, are held and firmly bound unto the County of Monterey, a political subdivision of the State of California (hereinafter called "County"), in the penal sum of

_____Dollars

($_____.00), for the payment of which sum in lawful money of the United States, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT:

If the Principal, as Contractor, or Principal's heirs, executors, administrators, successors, or assigns, (1) shall in all things stand to and abide by and well and truly keep and perform the covenants, conditions, and agreements in said contract and any alteration thereof made as therein provided, on Principal's part to be kept and performed, at the time and in the manner therein specified and in all respects according to their true intent and meaning, and (2) shall indemnify, defend, and save harmless the County, the members of its board of supervisors, and its officers, agents, and employees as therein stipulated, then this obligation shall become null and void; otherwise, it shall be and remain in full force and virtue.

Surety hereby stipulates and agrees that no change, extension of time, alteration, or addition to the terms of the contract or the call for bids, or to the work to be performed thereunder, or the specifications accompanying the same, shall in any way affect its obligation under this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of said contract or the call for bids, or to the work, or to the specifications.

Whenever the Principal, as Contractor, is in default, and is declared in default, under the Contract by the County of Monterey, the County of Monterey having performed its obligation under the contract, Surety may promptly remedy the default, or shall promptly:

1. Complete the contract in accordance with its terms or conditions, or
2. Obtain a bid or bids for submission to County of Monterey for completing the Contract in accordance with its terms or conditions, and upon determination by the County of Monterey and Surety of the lowest responsible and responsive bidder, arrange for a contract between such bidder and the County of Monterey, and make available as work progresses (even though there should be a default or succession of defaults under the contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the contract price.

If suit is brought upon this bond by the County and judgment is recovered, the Surety shall pay all litigation expenses incurred by the County in such suit, including attorneys' fees, court costs, expert witness fees, and investigation expenses.

IN WITNESS WHEREOF, the above-bounden parties have executed this instrument under their several seals this ____ day of _____, 2025, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

(Corporate Seal) _____
Principal

By: _____

Title: _____

(Corporate Seal) _____
Surety

By: _____

Title: _____

Attach: 1) Copy of authorization for signature for Principal, and 2) original or certified copy of unrevoked appointment, Power of Attorney, Attorney-in-Fact Certificate bylaws or other instrument entitling or authorizing person executing bond on behalf of Surety to do so.

PAYMENT BOND

(Civil Code section 9550)
Section 006100

WHEREAS, the County of Monterey has awarded to Principal,

_____

as Contractor, a contract for the following project:

MEDICAL-SURGERY 3 RENOVATION - Building 500 **PROJECT No. 9600-55 Bid NMC-1014;**

and

WHEREAS, Principal, as Contractor, is required to furnish a bond in connection with said contract, to secure the payment of claims of laborers, mechanics, material suppliers, and other persons furnishing labor and materials on the project, as provided by law.

NOW, THEREFORE, we _____

as Principal, and _____

_____

as Surety, are held and firmly bound unto the County of Monterey, a political subdivision of the State of California (hereinafter called "County"), and to the persons named in California Civil Code section 9100 in the penal sum of_____Dollars ($_____.___), for the payment of which sum in lawful money of the United States, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT:

If Principal or any of Principal's heirs, executors, administrators, successors, assigns, or subcontractors (1) fails to pay in full all of the persons named in Civil Code Section 9100 with respect to any labor or materials furnished by said persons on the project described above, or (2) fails to pay in full all amounts due under the California Unemployment Insurance Code with respect to work or labor performed under the contract on the project described above, or (3) fails to pay for any amounts required to be deducted, withheld, and paid over to the Employment Development Department from the wages of employees of the Principal and subcontractors pursuant to Unemployment Insurance Code section 13020 with respect to such work and labor, then the Surety shall pay for the same.

Surety hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract on the call for bids, or to the work to be performed thereunder, or the specifications accompanying the same, shall in any way affect its obligation under this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of said contract or the call for bids, or to the work, or to the specifications.

If the County brings suit upon this bond and judgment is recovered, the Surety shall pay all litigation expenses incurred by the County in such suit, including attorneys' fees, court costs, expert witness fees and investigation expenses.

This bond inures to the benefit of any of the persons named in Civil Code section 9100, and such persons or their assigns shall have a right of action in any suit brought upon this bond, subject to any limitations set forth in Civil Code sections 9550 et seq. (Civil Code, Division 4, Part 6, Title 3, Chapter 5: Payment Bond for Public Works).

IN WITNESS WHEREOF the above-bounden parties have executed this instrument under their several seals this _____ day of _____, 2025, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

(Corporate Seal) _____
Principal

By: _____

Title: _____

(Corporate Seal) _____
Surety

By: _____

Title: _____

Attach: 1) Copy of authorization for signature for Principal, and 2) original or certified copy of unrevoked appointment, Power of Attorney, Attorney-in-Fact Certificate bylaws or other instrument entitling or authorizing person executing bond on behalf of Surety to do so.

APPENDIX A

LIST OF TECHNICAL SPECIFICATIONS
(Divisions 01 through 48)

SECTION **SECTION TITLE**

DIVISION 00 — PROCUREMENT AND CONTRACTING REQUIREMENTS
000105 - Certifications Page
DIVISION 01 — GENERAL REQUIREMENTS
011100 - Summary of Work
012600 - Contract Modification Procedures
012613 - Requests for Interpretation
012900 - Payment Procedures
013100 - Project Management & Coordination
013150 - Project Data Base Administration
013200 - Construction Progress Schedules
013230 - Photographic Documentation
013300 - Submittal Procedures
013310 - Submittal Transmittal Form
013513 - Special Project Procedures for Healthcare Facilities
014111 - HCAI Administrative Requirements
014500 - Quality Requirements
015000 - Temporary Facilities & Controls
015717 - Construction Noise Control
016000 - Product Requirements & Substitution Procedures
016211 - Substitution Request Form
017132 - Vibration Monitoring
017300 - Execution
017324 - Anchorage and Sleeving
017329 - Cutting & Patching
017420 - Construction Waste Management
017700 - Closeout Procedures
017800 - Closeout Submittals
017900 - Demonstration and Training
018150 - CALGreen Environmental Requirements
DIVISION 02 — EXISTING CONDITIONS
024130 - Interior Selective Demolition
DIVISION 05 — METALS
057200 - Decorative Railings
DIVISION 06 — WOOD, PLASTICS, AND COMPOSITES
061000 - Rough Carpentry
064000 - Architectural Woodwork
DIVISION 07 — THERMAL AND MOISTURE PROTECTION
078100 - Applied Fireproofing
078443 - Fire-Resistant Joint Systems
079100 - Preformed Joint Seals
079200 - Joint Sealants
DIVISION 08 — OPENINGS
081113 - Hollow Metal Doors & Frames
082000 - Sliding Door Assemblies
087100 - Door Hardware
087113 - Automatic Door Operators
088100 - Interior Glazing
088700 - Glass Surface Film

SECTION **SECTION TITLE**

DIVISION 09 — FINISHES

091330 - Concrete Surface Treatments
092200 - Non-Structural Metal Framing
092900 - Gypsum Board
093000 - Tiling
095100 - Acoustical Ceilings
096001 - Flooring Transition Strips
096500 - Resilient Flooring
099000 - Painting

DIVISION 10 — SPECIALTIES

102123 - Hospital Tracks & Cubicle Curtains
102600 - Wall & Door Protection
102813 - Toilet & Building Accessories
105113 - Metal Lockers

DIVISION 11 — EQUIPMENT

115200 - Audio-Visual Equipment

APPENDIX A - NOT USED

APPENDIX B - UL LISTINGS

APPENDIX C - OMPs & OSPs

END

APPENDIX B
LIST OF DRAWINGS

NUMBER	SHEET TITLE	DATE

01-GENERAL

G000 COVERSHEET
G031 LIFE SAFETY PLAN LEVEL 01
G033 LIFE SAFETY PLAN LEVEL 02 & 03

4-ARCHITECTURAL

A010 GENERAL NOTES AND SYMBOLS
A011 MATERIAL IDENTIFICATION CODES
A103 DEMOLITION PLAN - LEVEL 03
A123 DEMOLITION REFLECTED CEILING PLAN - LEVEL 03
A203 OVERALL FLOOR PLAN - LEVEL 03
A203.A1 ENLARGED FLOOR PLAN - LEVEL 03 AREA A1
A203.A2 ENLARGED FLOOR PLAN - LEVEL 03 AREA A2
A302 REFLECTED CEILING PLAN - LEVEL 02
A303 REFLECTED CEILING PLAN - LEVEL 03
A600 TYPICAL MOUNTING HEIGHTS AND CLEARANCES
A601 SIGNAGE + DESIGN GUIDE - MOUNTING HEIGHTS
A602 TYPICAL RESTROOM AND SHOWER PLANS
A620 ENLARGED TOILET PLANS & INTERIOR ELEVATIONS
A621 ENLARGED SEMI-PRIVATE PATIENT ROOM PLAN & ELEVATIONS
A622 ENLARGED SINGLE PATIENT ROOM PLAN & ELEVATIONS
A623 ENLARGED IMC PATIENT ROOM PLAN & ELEVATIONS
A624 INTERIOR ELEVATIONS
A625 INTERIOR ELEVATIONS
A626 INTERIOR ELEVATIONS
A640 TYPICAL CASEWORK DETAILS AND GENERAL NOTES
A650 TOILET/SHOWER DETAILS
A660 TYPICAL INTERIOR PARTITION TYPES
A663 OPD - STANDARD PARTITION WALL DETAILS
A663.1 OPD - STANDARD PARTITION WALL DETAILS
A663.2 OPD - STANDARD PARTITION WALL DETAILS
A663.3 OPD - STANDARD PARTITION WALL DETAILS
A663.4 OPD - STANDARD PARTITION WALL DETAILS
A663.5 OPD - STANDARD PARTITION WALL DETAILS
A670 CEILING DETAILS
A671 CEILING DETAILS - ACOUSTICAL TILE/LAY-IN PANEL OPDS
A671.1 CEILING DETAILS - ACOUSTICAL TILE/LAY-IN PANEL OPDS
A671.2 CEILING DETAILS - ACOUSTICAL TILE/LAY-IN PANEL OPDS
A671.3 CEILING DETAILS - ACOUSTICAL TILE/LAY-IN PANEL OPDS
A671.4 CEILING DETAILS - ACOUSTICAL TILE/LAY-IN PANEL OPDS
A672 CEILING DETAILS - JOISTED GYP BOARD OPDS
A673 CEILING DETAILS - JOISTED GYP BOARD - 1HR RATED
A680 OPENING DETAILS
A690 FINISH DETAILS
A700 DOOR SCHEDULE
A730 EQUIPMENT SCHEDULE
A740 UL LISTINGS

4-INTERIOR

I-010 FINISH LEGEND, GENERAL NOTES, AND ABBREVIATIONS
I-020 FINISH SCHEDULE

I-100 INTERIOR FINISH PLAN - A1
I-101 INTERIOR FINISH PLAN - A2
I-102 INTERIOR FLOOR PATTERN PLAN - A1
I-103 INTERIOR FLOOR PATTERN PLAN - A2
I-104 INTERIOR WALL PROTECTION PLAN - A1
I-105 INTERIOR WALL PROTECTION PLAN - A2
I-200 INTERIOR DETAILS

5-STRUCTURAL

S1.01 GENERAL NOTES
S2.01 THIRD FLOOR PARTIAL PLAN
S2.02 DETAILS
S2.03 DETAILS

7-MECHANICAL

M000 MECHANICAL LEGEND AND ABBREVIATIONS
M001 MECHANICAL SHEET SPECIFICATIONS
M002 BASIS OF DESIGN AND TABULATED DATA
M101 LEVEL 3 - HVAC DEMOLITION PLAN
M203 LEVEL 3 - HVAC PLAN
M901 MECHANICAL DETAILS

8-ARCHITECTURAL

A011 MATERIAL IDENTIFICATION CODES
A201 FLOOR PLAN - LEVEL 01
A301 REFLECTED CEILING PLAN - LEVEL 01

8-PLUMBING

P000 PLUMBING LEGEND AND ABBREVIATIONS
P001 PLUMBING SHEET SPECIFICATIONS
P002 SCHEDULES & DETAILS
P100 LEVEL 2 - PLUMBING DEMOLITION PLAN
P101 LEVEL 3 - PLUMBING DEMOLITION PLAN
P200 LEVEL 2 - PLUMBING PLAN
P201 LEVEL 3 - PLUMBING PLAN
P601 ENLARGED PLANS
P602 ENLARGED PLANS
P603 ENLARGED PLANS

9-ELECTRICAL

E001 ELECTRICAL SYMBOLS & GENERAL NOTES
E101 PARTIAL SINGLE LINE DIAGRAMS & PANEL SCHEDULES
E102 E102 PARTIAL SINGLE LINE DIAGRAMS & PANEL SCHEDULES
E103 PARTIAL SINGLE LINE DIAGRAMS & PANEL SCHEDULES
E104 RELOCATE-REMOVE LOAD MATRIX & LIGHTING FIXTURE SCHEDULES
E200 OVERALL LIGHTING PLAN
E201 LIGHTING DEMOLITION PLAN - PART A
E202 LIGHTING DEMOLITION PLAN - PART B
E203 LIGHTING DEMOLITION PLAN - PART C
E204 LIGHTING PLAN - PART A
E205 LIGHTING PLAN - PART B
E206 LIGHTING PLAN - PART C
E300 OVERALL POWER PLAN
E301 POWER DEMOLITION PLAN - PART A
E302 POWER DEMOLITION PLAN - PART B
E303 POWER DEMOLITION PLAN - PART C
E304 POWER PLAN - PART A
E305 POWER PLAN - PART B
E306 POWER PLAN - PART C

E401 ELECTRICAL DETAILS
E501 ELECTRIAL SPECIFICATIONS - PART 1
E502 ELECTRIAL SPECIFICATIONS – PART 2

APPENDIX D

LIST OF REFERENCE DOCUMENTS

ITEM	TITLE	DATE
A.	Technical Specifications Book, Natividad Medical Center 100% Construction Documents – S240593-27-00 OSHPD SUBMITTAL	9/24/2025
B.	TESTING, INSPECTION AND OBSERVATION PROGRAM (OSHPD Forms OSH-FD-303A) Plan Review Approved 4/16/2025	

1 OVERALL FLOOR PLAN
3/32" = 1'-0"

GENERAL NOTES - FLOOR PLAN

A. ALL INTERIOR PARTITIONS SHALL BE "A3_" UNLESS NOTED OTHERWISE.
B. PLAN DIMENSIONS ARE FROM FACE OF PARTITION TYPE AND DO NOT INCLUDE APPLIED FINISHES, UNLESS NOTED OTHERWISE. PLAN DIMENSIONS INDICATED AS "HOLD" OR "CLEAR" DIMENSIONS ARE FROM FACE OF APPLIED FINISH.
C. INSTALL WORK STRAIGHT, PLUMB, LEVEL, SQUARE, AND TRUE, IN PROPER ALIGNMENT.
D. FLATNESS: LEVEL FLOORS TO TRUE PLANE WITHIN 1/4 INCH (6 MM) IN 10'-0" (3 M) WHEN TESTED BY TEN FOOT (3 M) STRAIGHTEDGE PLACED ANYWHERE ON FLOOR IN ANY DIRECTION.
E. BEFORE PROCEEDING WITH PARTITION FRAMING, PROVIDE LAYOUT MARKINGS OF PARTITIONS AND ASSOCIATED IN-WALL ELECTRICAL DEVICES ON SUBFLOOR FOR REVIEW BY ARCHITECT. BEFORE PROCEEDING WITH PARTITION FRAMING, PROVIDE LAYOUT MARKINGS OF PARTITIONS AND ASSOCIATED IN-WALL ELECTRICAL DEVICES ON SUBFLOOR FOR REVIEW BY ARCHITECT.
F. COORDINATE FURNITURE-RELATED ELECTRICAL LAYOUT WITH FURNITURE VENDOR.
G. WHERE HANDRAILS, GRAB BARS, CABINETS, WALL-MOUNTED DOOR STOPS, OR OTHER WALL-HUNG ITEMS ARE ATTACHED TO PARTITIONS, INSTALL BACKER PLATES [OR WOOD BLOCKING] ACCURATELY POSITIONED AND FIRMLY SECURED TO METAL STUDS, WHETHER OR NOT SUCH BACKER PLATES OR BLOCKING ARE INDICATED ON DRAWINGS.
H. WHERE NEW WORK ABUTS, ALIGNS OR ADJOINS EXISITING MATERIALS, MAKE SMOOTH AND EVEN TRANSITION AND ELIMINATE EVIDENCE OF PATCHING AND REFINISHING. FINISH NEW WORK TO MATCH ADJACENT UNDISTURBED SURFACES, UNLESS NOTED OTHERWISE.
I. CLOSE AND PATCH HOLES AND OPENINGS IN EXISTING FLOOR, WALL AND CEILING WHICH EXIST OR RESULT FROM DEMOLITION OR ALTERATION WORK TO MATCH ADJACENT UNDISTURBED SURFACES.
J. PRIOR TO CONCEALMENT OF FIRE RESISTIVE MATERIALS BY OTHER WORK, PATCH AND REPAIR AREAS OF REMOVED OR DAMAGED APPLIED FIREPROOFING. COMPLETE PATCHING AND REPAIR TO MAINTAIN EXISTING FIRE-RESISTANCE DESIGN IN ACCORDANCE WITH FIREPROOFING MANUFACTURER'S WRITTEN INSTRUCTIONS FOR CONDITIONS OF EXPOSURE AND INTENDED USE. COORDINATE TESTING AND INSPECTION OF ASSEMBLIES AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
K. PROVIDE FIRESTOPPING OF PENETRATIONS AND VOIDS THROUGH FIRE-RATED WALL, FLOOR AND PARTITION ASSEMBLIES [AND ROOF] INCLUDING EMPTY OPENINGS AND OPENINGS CONTAINING CABLES, PIPES, DUCTS, CONDUIT AND OTHER ELEMENTS.
L. AT SOUND-RATED PARTITION WALLS, PROVIDE CONTINUOUS BEAD OF ACOUSTICAL SEALANT AT AT JUNCTURE OF BOTH FACES OF RUNNERS OR PLATES WITH FLOOR AND CEILING CONSTRUCTION, AND WHEREVER GYPSUM BOARD ABUTS DISSIMILAR MATERIALS.
   - AT OPENINGS AND CUTOUTS, FILL OPEN SPACES BETWEEN GYPSUM BOARD AND FIXTURES, CABINETS, DUCTS AND OTHER FLUSH OR PENETRATING ITEMS, WITH CONTINUOUS BEAD OF SEALANT.
   - SEAL SIDES AND BACKS OF ELECTRICAL BOXES TO COMPLETELY CLOSE OFF OPENINGS AND JOINTS.

PATIENT ROOM & BED COUNT

BC2

EXISTING ROOM & BED COUNT

ROOM TYPE	# OF ROOMS	# OF BEDS
PRIVATE	20	20
SEMI-PRIVATE	8	16
TOTAL	**28**	**36**

(ACCESSIBLE ROOMS: 5)

PROPOSED ROOM & BED COUNT

ROOM TYPE	# OF ROOMS	# OF BEDS
PRIVATE	13	13
SEMI-PRIVATE	15	30
TOTAL	**28**	**43**

(ACCESSIBLE ROOMS: 8)

HGA
222 Sutter Street, Suite 500
San Francisco, California 94108
Telephone 415.814.6910

STRUCTURAL ENGINEER
BUEHLER ENGINEERING
180 MONTGOMERY STREET, SUITE 1500,
SAN FRANCISCO, CA 94104.
415.495.1635

MECHANICAL/PLUMBING ENGINEER
GLUMAC
100 MONTGOMERY STREET, SUITE 2050,
SAN FRANCISCO, CA 94104
415.398.7667

ELECTRICAL ENGINEER
INT-ELECT ENGINEERING
1487 FINCH LANE, GILROY, CA 95020
408.846.7171

INTERIOR DESIGNER
GALLUN SNOW
1900 GRANT STREET, SUITE 750,
DENVER, CO. 80203
303.433.9500

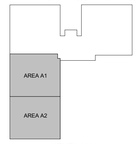
Natividad MEDICAL CENTER

NATIVIDAD MEDICAL CENTER

MEDICAL SURGERY DEPARTMENT LEVEL 3

1441 CONSTITUTION BOULEVARD
SALINAS, CA 93906

HCAI RECORD NUMBER:
S240593-27-00
HCAI FACILITY ID: 17353



KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/9/2025, 1:09:36 PM
S2-0593-27-00
Russell Rocker

HCAI APPROVAL

LICENSED ARCHITECT
ANNA R. KEMPF
C-39255
JUNE 30, 2026
RENEWAL DATE
STATE OF CALIFORNIA

AGENCY APPROVAL

NO	DESCRIPTION	DATE
BC1	BACKCHECK#1	12/13/2024
BC2	BACKCHECK#2	03/14/2025

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3707-016-00

OVERALL FLOOR PLAN - LEVEL 03

DATE: APRIL 16, 2024

CONSTRUCTION DOCUMENTS

A203

CONSTRUCTION DOCUMENT

© COPYRIGHT HGA ARCHITECTS AND ENGINEERS, Inc.

Author
Autodesk Docs://Natividad Med Surg 3 Unit - 3707-016-00/A22- Natividad Med Surg 3 Unit - 3707-016-00.rvt
3/26/2025 4:01:32 PM

Introduced: 10/3/2025

Current Status: Public Works, Facilities & Parks - Consent

Version: 2

Matter Type: BoS Agreement

a. Approve and authorize the Chief Contracts and Procurement Officer or designee to execute a Non-Standard Agreement with PSD Citywide (US) Inc., to provide Computerized Maintenance Management Software and Implementation for the Public Works, Facilities and Parks Department procured under Request for Proposal #10936, for an initial five-year term from October 15, 2025 to October 14, 2030, for an amount not to exceed $1,000,000;
b. Approve non-standard assignment and subcontracting, indemnification and software agreement provisions as recommended by the Director of Public Works, Facilities and Parks;
c. Authorize the Chief Contracts and Procurement Officer or designee to execute this Agreement and up to three (3) additional amendments to this Agreement, each extending the term by one year, where the amendments do not significantly alter the scope of work or non-standard provisions of the Agreement and where the additional costs of the Amendments in aggregate do not exceed 10 percent (10% or $100,000) of the original contract amount of $1,000,000, bringing the potential overall Agreement aggregate not to exceed amount to $1,100,000 even if no additional Agreements are entered into, subject to prior review and approval as to form by the Office of the County Counsel-Risk Management, and review of fiscal provisions by the Auditor Controller's Office.

RECOMMENDATION:

It is recommended that the Board of Supervisors:

a. Approve and authorize the Chief Contracts and Procurement Officer or designee to execute a Non-Standard Agreement with PSD Citywide (US) Inc., to provide Computerized Maintenance Management Software and Implementation for the Public Works, Facilities and Parks Department procured under Request for Proposal #10936, for an initial five-year term from October 15, 2025 to October 14, 2030, for an amount not to exceed $1,000,000;
b. Approve non-standard assignment and subcontracting, indemnification and software agreement provisions as recommended by the Director of Public Works, Facilities and Parks;
c. Authorize the Chief Contracts and Procurement Officer or designee to execute this Agreement and up to three (3) additional amendments to this Agreement, each extending the term by one year, where the amendments do not significantly alter the scope of work or non-standard provisions of the Agreement and where the additional costs of the Amendments in aggregate do not exceed 10 percent (10% or $100,000) of the original contract amount of $1,000,000, bringing the potential overall Agreement aggregate not to exceed amount to $1,100,000 even if no additional Agreements are entered into, subject to prior review and approval as to form by the Office of the County Counsel-Risk Management, and review of fiscal provisions by the Auditor Controller's Office.

SUMMARY:

Public Works, Facilities and Parks (PWFP) proposes entering into an agreement with PSD Citywide (US) Inc. to implement a Computerized Maintenance Management System (CMMS) for its Public Works Division. The system will centralize infrastructure asset data, streamline work order tracking, and improve asset performance evaluating and processing of public service requests, with implementation funded internally and no impact to the General Fund. Due to budget constraints, Facilities and Parks Divisions will defer their CMMS initiatives until resources are available.

PWFP staff has identified the need for a CMMS software solution for infrastructure assets managed by PWFP, which will allow staff to maintain a single asset database, track work orders, improve maintenance, evaluate asset performance, and provide a more streamlined way for the public to submit work requests.

DISCUSSION:

Background

PWFP is responsible for maintenance and repair of County assets through its three divisions: Facilities oversees more than 2.7 million square feet of County-owned facilities across 96 structures, 55 County landlord leases, and 511 owned parcels; Public Works maintains 1,262 miles of County roads, 175 County maintained bridges, associated road appurtenances, and traffic signals; and Parks manages 30,130 acres of regional parks and open spaces.

To manage this ever-increasing workload, staff use a mixture of paper forms, manual data entry processes, whiteboard scheduling, and staff knowledge to address requests and complete preventative maintenance. This legacy "system" is creating inefficiencies, inaccuracies and missed opportunities for data-driven decision-making where future resources should be allocated. Staff are unable to track work in the field in real-time, electronically report field conditions and other service needs discovered while working, or centrally catalog assets, manuals, drawings, etc., for in-field use.

While all three PWFP Divisions (Public Works, Facilities, Parks) need a CMMS solution, Facilities and Parks Divisions do not have funding available to implement at this time. Public Works Division has fund balance in the Road Fund to implement CMMS for its maintenance activities and will move forward with implementation upon execution of this agreement. Should additional General Fund or other dollars become available, staff intends to also implement CMMS through Citywide in Facilities and Parks Divisions.

The Need for a CMMS in Public Works Division

A CMMS is a software solution that is the industry's leading tool in the best practice management of infrastructure assets. Implementing a CMMS will enable Public Works to streamline and manage its maintenance operations at a higher level utilizing the following functions and capabilities:

- Managing and tracking work orders.
- Planning preventative maintenance.
- Inventory management.
- Reporting and analytics.
- Compliance and documentation.

- Asset data management.
- Tracking asset data.
- Accessing asset locations, work orders, asset maintenance histories, manuals on mobile devices in the field.
- Live work order updating on mobile devices while in the field.
- Receiving service requests and responding more quickly.
- Improved data collection and retrieval for Federal Emergency Management Agency (FEMA) reporting and reimbursement.

All these functions and capabilities will enable Public Works to improve maintenance and replacement forecasts, planning for future infrastructure cost, resource management and customer service, as well as provide the ability to build a data set useful for long term asset lifecycle management. These CMMS functions and capabilities ensure regularly occurring and effective maintenance is performed which in turn enables efficiency improvement, reduction of downtime, extension of infrastructure asset life, improved service delivery, and provides data to develop a more accurate Capital Improvement Program (CIP).

Implementing CMMS software offers cost savings to the County through proactive management of maintenance schedules and asset performance enabling PWFP to reduce costly emergency repairs, unplanned downtime and overall maintenance costs. It will enable PWFP to make data-driven decisions for budgeting, resource allocation and equipment/infrastructure replacement, and it will improve accountability and transparency.

PWFP's implementing a CMMS will enable the County to satisfy recommendations made in the July 2020 *Citygate Associates* Report as to PWFP's Public Works Division with it being an asset management, work order management and in-field access system for infrastructure assets.

Procurement
On May 20, 2024, the County issued RFP #10936 to solicit proposals from vendors to provide CMMS software system and implementation services to PWFP, and the County received 12 proposals in response. Following staff's intensive review and evaluation of the proposals, Citywide was selected for an award based on the selection criteria outlined in the RFP. Citywide's proposal demonstrated their expertise and capabilities, which are necessary to provide the services solicited through RFP #10936 in accordance with County policies and state, local and federal laws. To encourage local vendor response to the RFP, a five percent (5%) points incentive was provided during the award selection process to those who completed the County's Local Business Preference Declaration form in accordance with the County's Local Preference Policy. However, none of the contractors that submitted proposals were local.

It is requested that the Board approve this Agreement for a total amount not to exceed $1,000,000. PWFP recommends approval of the proposed non-standard agreement provisions. The proposed Agreement includes a minor modification to Section 16.06. Assignment and Subcontracting, which is incorporated in Exhibit B to the Agreement. The proposed Agreement includes additional terms which are incorporated into Exhibit E to the Agreement which provide for an order of precedence if there is

any conflict or inconsistency with terms and conditions of the Agreement, additional indemnification language and terms specific to software licensing agreements. These non-standard provisions have been reviewed and approved by the Office of the County Counsel and Risk Management.

OTHER AGENCY INVOLVEMENT/COMMITTEE ACTIONS:
The Information Technology Department has reviewed the proposed agreement as to technical and security language. The Office of the County Counsel-Risk Manager and Auditor-Controller's Office have reviewed and approved the proposed Agreement as to form, indemnification, insurance, and fiscal provisions, respectively.

FINANCING:
The proposed Agreement establishes a maximum annual expenditure of $200,000, including all implementation, licensing and additional service costs. This contractual ceiling provides flexibility for PWFP to extend CMMS implementation and licensing to the Facilities and Parks Divisions, contingent upon future funding availability.

For the PWFP - Public Works Division, the initial year 1 costs include a one-time implementation fee of $86,400, annual software licensing fees of $78,500, and a contingency allocation of $35,100. The Fiscal Year 2025-26 adopted budget for the Road Fund 002, Appropriation Unit PFP004 includes sufficient appropriations for the CMMS, utilizing Measure X funds, resulting in no impact to the General Fund.

BOARD OF SUPERVISORS STRATEGIC PLAN GOALS:
The recommended actions support the Board of Supervisors Strategic Plan Goals for Well-Being and Quality of Life, Sustainable Infrastructure for the Present and Future, and Safe and Resilient Communities by enabling the PWFP - Public Works Division to maintain and manage vital infrastructure assets more efficiently which promotes an organization that practices efficient and effective resource management.

The recommended actions support the following Board of Supervisors' Strategic Plan Goals as indicated below:

X Well-Being and Quality of Life
X Sustainable Infrastructure for the Present and Future
X Safe and Resilient Communities
___ Diverse and Thriving Economy

Prepared by: Patty Small, MA II (831) 784-5929
Reviewed by: John Snively, Administrative Operations Manager
Enrique Saavedra, Chief of Public Works
Lindsay Lerable, Assistant Director of Public Works, Facilities and Parks
Approved by: Randell Ishii, MS, PE, TE, PTOE
Director of Public Works, Facilities and Parks

The following attachment is on file with the Clerk of the Board:

Attachment A - PSD Citywide (US) Inc. Agreement

Introduced: 10/3/2025
Version: 2

Current Status: Agenda Ready
Matter Type: BoS Agreement

a. Approve and authorize the Chief Contracts and Procurement Officer or designee to execute a Non-Standard Agreement with PSD Citywide (US) Inc., to provide Computerized Maintenance Management Software and Implementation for the Public Works, Facilities and Parks Department procured under Request for Proposal #10936, for an initial five-year term from October 15, 2025 to October 14, 2030, for an amount not to exceed $1,000,000;
b. Approve non-standard assignment and subcontracting, indemnification and software agreement provisions as recommended by the Director of Public Works, Facilities and Parks;
c. Authorize the Chief Contracts and Procurement Officer or designee to execute this Agreement and up to three (3) additional amendments to this Agreement, each extending the term by one year, where the amendments do not significantly alter the scope of work or non-standard provisions of the Agreement and where the additional costs of the Amendments in aggregate do not exceed 10 percent (10% or $100,000) of the original contract amount of $1,000,000, bringing the potential overall Agreement aggregate not to exceed amount to $1,100,000 even if no additional Agreements are entered into, subject to prior review and approval as to form by the Office of the County Counsel-Risk Management, and review of fiscal provisions by the Auditor Controller's Office.

RECOMMENDATION:
It is recommended that the Board of Supervisors:
a. Approve and authorize the Chief Contracts and Procurement Officer or designee to execute a Non-Standard Agreement with PSD Citywide (US) Inc., to provide Computerized Maintenance Management Software and Implementation for the Public Works, Facilities and Parks Department procured under Request for Proposal #10936, for an initial five-year term from October 15, 2025 to October 14, 2030, for an amount not to exceed $1,000,000;
b. Approve non-standard assignment and subcontracting, indemnification and software agreement provisions as recommended by the Director of Public Works, Facilities and Parks;
c. Authorize the Chief Contracts and Procurement Officer or designee to execute this Agreement and up to three (3) additional amendments to this Agreement, each extending the term by one year, where the amendments do not significantly alter the scope of work or non-standard provisions of the Agreement and where the additional costs of the Amendments in aggregate do not exceed 10 percent (10% or $100,000) of the original contract amount of $1,000,000, bringing the potential overall Agreement aggregate not to exceed amount to $1,100,000 even if no additional Agreements are entered into, subject to prior review and approval as to form by the Office of the County Counsel-Risk Management, and review of fiscal provisions by the Auditor Controller's Office.

SUMMARY:
Public Works, Facilities and Parks (PWFP) proposes entering into an agreement with PSD Citywide

(US) Inc. to implement a Computerized Maintenance Management System (CMMS) for its Public Works Division. The system will centralize infrastructure asset data, streamline work order tracking, and improve asset performance evaluating and processing of public service requests, with implementation funded internally and no impact to the General Fund. Due to budget constraints, Facilities and Parks Divisions will defer their CMMS initiatives until resources are available.

PWFP staff has identified the need for a CMMS software solution for infrastructure assets managed by PWFP, which will allow staff to maintain a single asset database, track work orders, improve maintenance, evaluate asset performance, and provide a more streamlined way for the public to submit work requests.

DISCUSSION:

Background

PWFP is responsible for maintenance and repair of County assets through its three divisions: Facilities oversees more than 2.7 million square feet of County-owned facilities across 96 structures, 55 County landlord leases, and 511 owned parcels; Public Works maintains 1,262 miles of County roads, 175 County maintained bridges, associated road appurtenances, and traffic signals; and Parks manages 30,130 acres of regional parks and open spaces.

To manage this ever-increasing workload, staff use a mixture of paper forms, manual data entry processes, whiteboard scheduling, and staff knowledge to address requests and complete preventative maintenance. This legacy "system" is creating inefficiencies, inaccuracies and missed opportunities for data-driven decision-making where future resources should be allocated. Staff are unable to track work in the field in real-time, electronically report field conditions and other service needs discovered while working, or centrally catalog assets, manuals, drawings, etc., for in-field use.

While all three PWFP Divisions (Public Works, Facilities, Parks) need a CMMS solution, Facilities and Parks Divisions do not have funding available to implement at this time. Public Works Division has fund balance in the Road Fund to implement CMMS for its maintenance activities and will move forward with implementation upon execution of this agreement. Should additional General Fund or other dollars become available, staff intends to also implement CMMS through Citywide in Facilities and Parks Divisions.

The Need for a CMMS in Public Works Division

A CMMS is a software solution that is the industry's leading tool in the best practice management of infrastructure assets. Implementing a CMMS will enable Public Works to streamline and manage its maintenance operations at a higher level utilizing the following functions and capabilities:

- Managing and tracking work orders.
- Planning preventative maintenance.
- Inventory management.
- Reporting and analytics.
- Compliance and documentation.
- Asset data management.

- Tracking asset data.
- Accessing asset locations, work orders, asset maintenance histories, manuals on mobile devices in the field.
- Live work order updating on mobile devices while in the field.
- Receiving service requests and responding more quickly.
- Improved data collection and retrieval for Federal Emergency Management Agency (FEMA) reporting and reimbursement.

All these functions and capabilities will enable Public Works to improve maintenance and replacement forecasts, planning for future infrastructure cost, resource management and customer service, as well as provide the ability to build a data set useful for long term asset lifecycle management. These CMMS functions and capabilities ensure regularly occurring and effective maintenance is performed which in turn enables efficiency improvement, reduction of downtime, extension of infrastructure asset life, improved service delivery, and provides data to develop a more accurate Capital Improvement Program (CIP).

Implementing CMMS software offers cost savings to the County through proactive management of maintenance schedules and asset performance enabling PWFP to reduce costly emergency repairs, unplanned downtime and overall maintenance costs. It will enable PWFP to make data-driven decisions for budgeting, resource allocation and equipment/infrastructure replacement, and it will improve accountability and transparency.

PWFP's implementing a CMMS will enable the County to satisfy recommendations made in the July 2020 *Citygate Associates* Report as to PWFP's Public Works Division with it being an asset management, work order management and in-field access system for infrastructure assets.

Procurement
On May 20, 2024, the County issued RFP #10936 to solicit proposals from vendors to provide CMMS software system and implementation services to PWFP, and the County received 12 proposals in response. Following staff's intensive review and evaluation of the proposals, Citywide was selected for an award based on the selection criteria outlined in the RFP. Citywide's proposal demonstrated their expertise and capabilities, which are necessary to provide the services solicited through RFP #10936 in accordance with County policies and state, local and federal laws. To encourage local vendor response to the RFP, a five percent (5%) points incentive was provided during the award selection process to those who completed the County's Local Business Preference Declaration form in accordance with the County's Local Preference Policy. However, none of the contractors that submitted proposals were local.

It is requested that the Board approve this Agreement for a total amount not to exceed $1,000,000. PWFP recommends approval of the proposed non-standard agreement provisions. The proposed Agreement includes a minor modification to Section 16.06. Assignment and Subcontracting, which is incorporated in Exhibit B to the Agreement. The proposed Agreement includes additional terms which are incorporated into Exhibit E to the Agreement which provide for an order of precedence if there is any conflict or inconsistency with terms and conditions of the Agreement, additional indemnification

language and terms specific to software licensing agreements. These non-standard provisions have been reviewed and approved by the Office of the County Counsel and Risk Management.

OTHER AGENCY INVOLVEMENT/COMMITTEE ACTIONS:
The Information Technology Department has reviewed the proposed agreement as to technical and security language. The Office of the County Counsel-Risk Manager and Auditor-Controller's Office have reviewed and approved the proposed Agreement as to form, indemnification, insurance, and fiscal provisions, respectively.

FINANCING:
The proposed Agreement establishes a maximum annual expenditure of $200,000, including all implementation, licensing and additional service costs. This contractual ceiling provides flexibility for PWFP to extend CMMS implementation and licensing to the Facilities and Parks Divisions, contingent upon future funding availability.

For the PWFP - Public Works Division, the initial year 1 costs include a one-time implementation fee of $86,400, annual software licensing fees of $78,500, and a contingency allocation of $35,100. The Fiscal Year 2025-26 adopted budget for the Road Fund 002, Appropriation Unit PFP004 includes sufficient appropriations for the CMMS, utilizing Measure X funds, resulting in no impact to the General Fund.

BOARD OF SUPERVISORS STRATEGIC PLAN GOALS:
The recommended actions support the Board of Supervisors Strategic Plan Goals for Well-Being and Quality of Life, Sustainable Infrastructure for the Present and Future, and Safe and Resilient Communities by enabling the PWFP - Public Works Division to maintain and manage vital infrastructure assets more efficiently which promotes an organization that practices efficient and effective resource management.

The recommended actions support the following Board of Supervisors' Strategic Plan Goals as indicated below:

X Well-Being and Quality of Life
X Sustainable Infrastructure for the Present and Future
X Safe and Resilient Communities
___ Diverse and Thriving Economy

Prepared by: Patty Small, MA II (831) 784-5929
Reviewed by: John Snively, Administrative Operations Manager
Enrique Saavedra, Chief of Public Works
Lindsay Lerable, Assistant Director of Public Works, Facilities and Parks
Approved by: Randell Ishii, MS, PE, TE, PTOE
Director of Public Works, Facilities and Parks

The following attachment is on file with the Clerk of the Board:
Attachment A - PSD Citywide (US) Inc. Agreement

Docusign Envelope ID: 4363287E-07A1-40DC-98EB-6DB98E509A5A

COUNTY OF MONTEREY STANDARD AGREEMENT

This **Agreement** is made by and between the County of Monterey, a political subdivision of the State of California (hereinafter "County") and:

PSD Citywide (US) Inc.

(hereinafter "CONTRACTOR").

In consideration of the mutual covenants and conditions set forth in this Agreement, the parties agree as follows:

1.0 GENERAL DESCRIPTION:

The County hereby engages CONTRACTOR to perform, and CONTRACTOR hereby agrees to perform, the services described in **Exhibit A** in conformity with the terms of this Agreement. The goods and/or services are generally described as follows:

Provide: Computerized Maintenance Management software licensing, implementation and customer service for Citywide Enterprise Asset Management (EAM) Software including Citywide Maintenance and Citywide Assets Modules as procured under RFP #10936.

2.0 PAYMENT PROVISIONS:

2.01 County shall pay the CONTRACTOR in accordance with the payment provisions set forth in **Exhibit A**, subject to the limitations set forth in this Agreement. The total amount payable by County to CONTRACTOR under this Agreement shall not exceed the sum of: **$** 1,000,000

3.0 TERM OF AGREEMENT:

3.01 The term of this Agreement is from October 15, 2025 to October 14, 2030, unless sooner terminated pursuant to the terms of this Agreement. This Agreement is of no force or effect until signed by both CONTRACTOR and County and with County signing last, and **CONTRACTOR may not commence work before County signs this Agreement**.

3.02 The County reserves the right to cancel this Agreement, or any extension of this Agreement, without cause, with a thirty day (30) written notice, or with cause immediately.

4.0 SCOPE OF SERVICES AND ADDITIONAL PROVISIONS:

The following attached exhibits are incorporated herein by reference and constitute a part of this Agreement:

Exhibit A Scope of Services/Payment Provisions

Exhibit B Other: Assignment and Subcontracting

Exhibit C: PSD Citywide Proposal in Response to RFP #10936
Exhibit D: PSD Citywide Proposal for Services for Public Works Division
Exhibit E: Additional Terms

Docusign Envelope ID: 4363287E-07A1-40DC-98EB-6DB98E509A5A

5.0 PERFORMANCE STANDARDS:

5.01 CONTRACTOR warrants that CONTRACTOR and CONTRACTOR's agents, employees, and subcontractors performing services under this Agreement are specially trained, experienced, competent, and appropriately licensed to perform the work and deliver the services required under this Agreement and are not employees of the County, or immediate family of an employee of the County.

5.02 CONTRACTOR, its agents, employees, and subcontractors shall perform all work in a safe and skillful manner and in compliance with all applicable laws and regulations. All work performed under this Agreement that is required by law to be performed or supervised by licensed personnel shall be performed in accordance with such licensing requirements.

5.03 CONTRACTOR shall furnish, at its own expense, all materials, equipment, and personnel necessary to carry out the terms of this Agreement, except as otherwise specified in this Agreement. CONTRACTOR shall not use County premises, property (including equipment, instruments, or supplies) or personnel for any purpose other than in the performance of its obligations under this Agreement.

6.0 PAYMENT CONDITIONS:

6.01 Prices shall remain firm for the initial term of the Agreement and, thereafter, may be adjusted annually as provided in this paragraph. The County does not guarantee any minimum or maximum amount of dollars to be spent under this Agreement.

6.02 Negotiations for rate changes shall be commenced, by CONTRACTOR, a minimum of ninety days (90) prior to the expiration of the Agreement. Rate changes are not binding unless mutually agreed upon in writing by the County and the CONTRACTOR.

6.03 Invoice amounts shall be billed directly to the ordering department.

6.04 CONTRACTOR shall submit such invoice periodically or at the completion of services, but in any event, not later than 30 days after completion of services. The invoice shall set forth the amounts claimed by CONTRACTOR for the previous period, together with an itemized basis for the amounts claimed, and such other information pertinent to the invoice. The County shall certify the invoice, either in the requested amount or in such other amount as the County approves in conformity with this Agreement and shall promptly submit such invoice to the County Auditor-Controller for payment. The County Auditor-Controller shall pay the amount certified within 30 days of receiving the certified invoice.

6.05 CONTRACTOR shall not receive reimbursement for mileage or travel expenses unless set forth in this Agreement.

7.0 TERMINATION:

7.01 During the term of this Agreement, the County may terminate the Agreement for any reason by giving written notice of termination to the CONTRACTOR at least thirty (30) days prior to the effective date of termination. Such notice shall set forth the effective date of termination. In the event of such termination, the amount payable under this Agreement shall be reduced in proportion to the services provided prior to the date of termination.

Docusign Envelope ID: 4363287E-07A1-40DC-98EB-6DB98E509A5A

7.02 The County may cancel and terminate this Agreement for good cause effective immediately upon written notice to CONTRACTOR. "Good cause" includes the failure of CONTRACTOR to perform the required services at the time and in the manner provided under this Agreement. If County terminates this Agreement for good cause, the County may be relieved of the payment of any consideration to CONTRACTOR, and the County may proceed with the work in any manner, which County deems proper. The cost to the County shall be deducted from any sum due the CONTRACTOR under this Agreement.

7.03 The County's payments to CONTRACTOR under this Agreement are funded by local, state and federal governments. If funds from local, state and federal sources are not obtained and continued at a level sufficient to allow for the County's purchase of the indicated quantity of services, then the County may give written notice of this fact to CONTRACTOR, and the obligations of the parties under this Agreement shall terminate immediately, or on such date thereafter, as the County may specify in its notice, unless in the meanwhile the parties enter into a written amendment modifying this Agreement.

8.0 INDEMNIFICATION:

CONTRACTOR shall indemnify, defend, and hold harmless the County, its officers, agents, and employees, from and against any and all claims, liabilities, and losses whatsoever (including damages to property and injuries to or death of persons, court costs, and reasonable attorneys' fees) occurring or resulting to any and all persons, firms or corporations furnishing or supplying work, services, materials, or supplies in connection with the performance of this Agreement, and from any and all claims, liabilities, and losses occurring or resulting to any person, firm, or corporation for damage, injury, or death arising out of or connected with the CONTRACTOR's performance of this Agreement, unless such claims, liabilities, or losses arise out of the sole negligence or willful misconduct of the County. "CONTRACTOR's performance" includes CONTRACTOR's action or inaction and the action or inaction of CONTRACTOR's officers, employees, agents and subcontractors.

9.0 INSURANCE REQUIREMENTS:

9.01 **Evidence of Coverage:** Prior to commencement of this Agreement, the Contractor shall provide a "Certificate of Insurance" certifying that coverage as required herein has been obtained. Individual endorsements executed by the insurance carrier shall accompany the certificate. In addition, the Contractor upon request shall provide a certified copy of the policy or policies.

This verification of coverage shall be sent to the County's Contracts/Purchasing Department, unless otherwise directed. The Contractor shall not receive a "Notice to Proceed" with the work under this Agreement until it has obtained all insurance required and the County has approved such insurance. This approval of insurance shall neither relieve nor decrease the liability of the Contractor.

9.02 **Qualifying Insurers:** All coverages, except surety, shall be issued by companies which hold a current policy holder's alphabetic and financial size category rating of not less than A- VII, according to the current A.M. Best's Rating Guide or a company of equal financial stability that is approved by the County's Purchasing Agent.

9.03 **Insurance Coverage Requirements:** Without limiting CONTRACTOR's duty to

Docusign Envelope ID: 4363287E-07A1-40DC-98EB-6DB98E509A5A

indemnify, CONTRACTOR shall maintain in effect throughout the term of this Agreement a policy or policies of insurance with the following minimum limits of liability:

Commercial General Liability Insurance: including but not limited to premises and operations, including coverage for Bodily Injury and Property Damage, Personal Injury, Contractual Liability, Broad form Property Damage, Independent Contractors, Products and Completed Operations, with a combined single limit for Bodily Injury and Property Damage of not less than $1,000,000 per occurrence, and $2,000,000 in the aggregate.
(Note: any proposed modifications to these general liability insurance requirements shall be attached as an Exhibit hereto, and the section(s) above that are proposed as not applicable shall be lined out in blue ink. All proposed modifications are subject to County approval.)

Auto Liability Coverage: must include motor vehicles, including scheduled, non-owned, and hired vehicles, used in providing services under this Agreement, with a combined single limit or Bodily Injury and Property Damage of not less than $1,000,000 per occurrence.
(Note: any proposed modifications to these auto insurance requirements shall be attached as an Exhibit hereto, and the section(s) above that are proposed as not applicable shall be lined out in blue ink. All proposed modifications are subject to County approval.)

Workers' Compensation Insurance: if CONTRACTOR employs others in the performance of this Agreement, in accordance with California Labor Code section 3700 and with Employer's Liability limits not less than $1,000,000 each person, $1,000,000 each accident and $1,000,000 each disease.
(Note: any proposed modifications to these workers' compensation insurance requirements shall be attached as an Exhibit hereto, and the section(s) above that are proposed as not applicable shall be lined out in blue ink. All proposed modifications are subject to County approval.)

Professional Liability Insurance: if required for the professional services being provided, (e.g., those persons authorized by a license to engage in a business or profession regulated by the California Business and Professions Code), in the amount of not less than $1,000,000 per claim and $2,000,000 in the aggregate, to cover liability for malpractice or errors or omissions made in the course of rendering professional services. If professional liability insurance is written on a "claims-made" basis rather than an occurrence basis, the CONTRACTOR shall, upon the expiration or earlier termination of this Agreement, obtain extended reporting coverage ("tail coverage") with the same liability limits. Any such tail coverage shall continue for at least three years following the expiration or earlier termination of this Agreement.
(Note: Professional liability insurance coverage is required if the contractor is providing a professional service regulated by the state. Examples of service providers regulated by the state are insurance agents, professional architects and engineers, doctors, certified public accountants, lawyers, etc. However, other professional Contractors, such as computer or software designers, technology services, and services providers such as claims administrators, should also have professional liability. If in doubt, consult with your risk or contract manager.)

If the contractor maintains broader coverage and/or higher limits than the minimums shown above, the County requires and shall be entitled to the broader coverage and/or higher limits maintained by the contractor.

Docusign Envelope ID: 4363287E-07A1-40DC-98EB-6DB98E509A5A

9.04 **Other Requirements:**

All insurance required by this Agreement shall be with a company acceptable to the County and issued and executed by an admitted insurer authorized to transact Insurance business in the State of California. Unless otherwise specified by this Agreement, all such insurance shall be written on an occurrence basis, or, if the policy is not written on an occurrence basis, such policy with the coverage required herein shall continue in effect for a period of three years following the date CONTRACTOR completes its performance of services under this Agreement.

Each liability policy shall provide that the County shall be given notice in writing at least thirty days in advance of any endorsed reduction in coverage or limit, cancellation, or intended non-renewal thereof. Each policy shall provide coverage for Contractor and additional insureds with respect to claims arising from each subcontractor, if any, performing work under this Agreement, or be accompanied by a certificate of insurance from each subcontractor showing each subcontractor has identical insurance coverage to the above requirements.

Additional Insured Status:

The County of Monterey, its officers, officials, employees, agents, and volunteers are to be covered as additional insureds on the auto liability policy for liability arising out of automobiles owned, leased, hired or borrowed by or on behalf of the Contractor. Auto liability coverage shall be provided in the form of an endorsement to the CONTRACTOR'S insurance.

The County of Monterey, its officers, officials, employees, agents, and volunteers are to be covered as additional insureds on the commercial general liability policy with respect to liability arising out of work or operations performed by or on behalf of the CONTRACTOR including materials, parts, or equipment furnished in connection with such work or operations. General liability coverage shall be provided in the form of an endorsement to the CONTRACTOR'S insurance (at least as broad as ISO Form CG 20 10 11 85 or if not available, through the addition of both CG 20 10, CG 20 26, CG 20 33, or CG 20 38; and CG 20 37 if a later edition is used).

Primary Coverage:

For any claims related to this contract, the CONTRACTOR'S insurance coverage shall be primary and non-contributory and at least as broad as ISO CG 20 01 04 13 as respects the County, its officers, officials, employees, agents, and volunteers. Any insurance or self-insurance maintained by the County, its officers, officials, employees, agents, or volunteers shall be excess of the CONTRACTOR'S insurance and shall not contribute with it. This requirement shall also apply to any Excess or Umbrella liability policies.

Workers' Compensation Waiver of Subrogation:

The workers' compensation policy required hereunder shall be endorsed to state that the workers' compensation carrier waives its right of subrogation against COUNTY, its officers, officials, employees, agents, or volunteers, which might arise by reason of payment under such policy in connection with performance under this Agreement by CONTRACTOR. Should CONTRACTOR be self-insured for workers' compensation, CONTRACTOR hereby agrees to waive its right of subrogation against COUNTY, its officers, officials,

Docusign Envelope ID: 4363287E-07A1-40DC-98EB-6DB98E509A5A

employees, agents, or volunteers.

Prior to the execution of this Agreement by the County, CONTRACTOR shall file certificates of insurance and endorsements with the County's contract administrator and County's Contracts/Purchasing Division, showing that the CONTRACTOR has in effect the insurance required by this Agreement. The CONTRACTOR shall file a new or amended certificate of insurance within five calendar days after any change is made in any insurance policy, which would alter the information on the certificate then on file. Acceptance or approval of insurance shall in no way modify or change the indemnification clause in this Agreement, which shall continue in full force and effect. CONTRACTOR shall always during the term of this Agreement maintain in force the insurance coverage required under this Agreement and shall send, without demand by County, annual certificates to County's Contract Administrator and County's Contracts/Purchasing Division. If the certificate is not received by the expiration date, County shall notify CONTRACTOR and CONTRACTOR shall have five calendar days to send in the certificate, evidencing no lapse in coverage during the interim. Failure by CONTRACTOR to maintain such insurance is a default of this Agreement, which entitles County, at its sole discretion, to terminate this Agreement immediately.

10.0 RECORDS AND CONFIDENTIALITY:

10.01 **Confidentiality:** CONTRACTOR and its officers, employees, agents, and subcontractors shall comply with any and all federal, state, and local laws, which provide for the confidentiality of records and other information. CONTRACTOR shall not disclose any confidential records or other confidential information received from the County or prepared in connection with the performance of this Agreement, unless County specifically permits CONTRACTOR to disclose such records or information. CONTRACTOR shall promptly transmit to County any and all requests for disclosure of any such confidential records or information. CONTRACTOR shall not use any confidential information gained by CONTRACTOR in the performance of this Agreement except for the sole purpose of carrying out CONTRACTOR's obligations under this Agreement.

10.02 **County Records:** When this Agreement expires or terminates, CONTRACTOR shall return to County any County records which CONTRACTOR used or received from County to perform services under this Agreement.

10.03 **Maintenance of Records:** CONTRACTOR shall prepare, maintain, and preserve all reports and records that may be required by federal, state, and County rules and regulations related to services performed under this Agreement. CONTRACTOR shall maintain such records for a period of at least three years after reciept of final payment under this Agreement. If any litigation, claim, negotiation, audit exception, or other action relating to this Agreement is pending at the end of the three-year period, then CONTRACTOR shall retain said records until such action is resolved.

10.04 **Access to and Audit of Records:** The County shall have the right to examine, monitor and audit all records, documents, conditions, and activities of the CONTRACTOR and its subcontractors related to services provided under this Agreement. Pursuant to Government Code section 8546.7, if this Agreement involves the expenditure of public funds in excess of $10,000, the parties to this Agreement may be subject, at the request of the County or as part of any audit of the County, to the examination and audit of the State Auditor pertaining

Docusign Envelope ID: 4363287E-07A1-40DC-98EB-6DB98E509A5A

to matters connected with the performance of this Agreement for a period of three years after final payment under the Agreement.

10.05 **Royalties and Inventions:** County shall have a royalty-free, exclusive and irrevocable license to reproduce, publish, and use, and authorize others to do so, all original computer programs, writings, sound recordings, pictorial reproductions, drawings, and other works of similar nature produced in the course of or under this Agreement. CONTRACTOR shall not publish any such material without the prior written approval of County.

10.06 **Format of Deliverables:** For this section, "Deliverables" shall mean all electronic documents CONTRACTOR provides to the County under this Agreement. CONTRACTOR shall ensure all Deliverables comply with the requirements of the Web Content Accessibility Guidelines ("WCAG") 2.1, pursuant to the Americans with Disabilities Act ("ADA"). CONTRACTOR bears the burden to deliver Deliverables, such as Adobe Acrobat Portable Document Format ("PDF") and Microsoft Office files, complying with WCAG 2.1. CONTRACTOR shall defend and indemnify the County against any breach of this Section. This Section shall survive the termination of this Agreement. Find more on Accessibility at this State website: https://webstandards.ca.gov/accessibility/.

11.0 NON-DISCRIMINATION:

11.01 During the performance of this Agreement, CONTRACTOR, and its subcontractors, shall not unlawfully discriminate against any person because of race, religious creed, color, sex, national origin, ancestry, physical disability, mental disability, medical condition, marital status, age (over 40), sexual orientation, or any other characteristic set forth in California Government code § 12940(a), either in CONTRACTOR's employment practices or in the furnishing of services to recipients. CONTRACTOR shall ensure that the evaluation and treatment of its employees and applicants for employment and all persons receiving and requesting services are free of such discrimination. CONTRACTOR and any subcontractor shall, in the performance of this Agreement, fully comply with all federal, state, and local laws and regulations which prohibit discrimination. The provision of services primarily or exclusively to such target population as may be designated in this Agreement shall not be deemed to be prohibited discrimination.

12.0 COMPLIANCE WITH TERMS OF STATE OR FEDERAL GRANTS:

If this Agreement has been or will be funded with monies received by the County pursuant to a contract with the state or federal government in which the County is the grantee, CONTRACTOR will comply with all the provisions of said contract, to the extent applicable to CONTRACTOR as a subgrantee under said contract, and said provisions shall be deemed a part of this Agreement, as though fully set forth herein. Upon request, County will deliver a copy of said contract to CONTRACTOR, at no cost to CONTRACTOR.

13.0 COMPLIANCE WITH APPLICABLE LAWS:

13.01 CONTRACTOR shall keep itself informed of and in compliance with all federal, state, and local laws, ordinances, regulations, and orders, including but not limited to all state and federal tax laws that may affect in any manner the Project or the performance of the Services or those engaged to perform Services under this AGREEMENT as well as any privacy laws including, if applicable, HIPAA. CONTRACTOR shall procure all permits and licenses,

pay all charges and fees, and give all notices require by law in the performance of the Services.

13.02 CONTRACTOR shall report immediately to County's Contracts/Purchasing Officer, in writing, any discrepancy or inconsistency it discovers in the laws, ordinances, regulations, orders, and/or guidelines in relation to the Project of the performance of the Services.

13.03 All documentation prepared by CONTRACTOR shall provide for a completed project that conforms to all applicable codes, rules, regulations, and guidelines that are in force at the time such documentation is prepared.

14.0 INDEPENDENT CONTRACTOR:

In the performance of work, duties, and obligations under this Agreement, CONTRACTOR is always acting and performing as an independent contractor and not as an employee of the County. No offer or obligation of permanent employment with the County or County department or agency is intended in any manner, and CONTRACTOR shall not become entitled by virtue of this Agreement to receive from County any form of employee benefits including but not limited to sick leave, vacation, retirement benefits, workers' compensation coverage, insurance or disability benefits. CONTRACTOR shall be solely liable for and obligated to pay directly all applicable taxes, including federal and state income taxes and social security, arising out of CONTRACTOR's performance of this Agreement. In connection therewith, CONTRACTOR shall defend, indemnify, and hold County harmless from any and all liability which County may incur because of CONTRACTOR's failure to pay such taxes.

15.0 NOTICES:

Notices required under this Agreement shall be delivered personally or by first-class, postage pre-paid mail to the County and CONTRACTOR'S contract administrators at the addresses listed below:

FOR COUNTY:	**FOR CONTRACTOR:**
Patty Small, Management Analyst II	Matthew Dawe, Vice President
Name and Title	Name and Title
1441 Schilling Pl., South 2nd Fl., Salinas, CA 93901	400 Continental Blvd., El Segundo, CA 90245
Address	Address
831-784-5929 / smallp@countyofmonterey.gov	519-859-0454 / mdawe@psdcitywide.com
Phone:	Phone:

16.0 MISCELLANEOUS PROVISIONS.

16.01 **Conflict of Interest:** CONTRACTOR represents that it presently has no interest and agrees not to acquire any interest during the term of this Agreement, which would directly, or indirectly conflict in any manner or to any degree with the full and complete performance

Docusign Envelope ID: 4363287E-07A1-40DC-98EB-6DB98E509A5A

of the services required to be rendered under this Agreement.

16.02 **Amendment:** This Agreement may be amended or modified only by an instrument in writing signed by the County and the CONTRACTOR.

16.03 **Waiver:** Any waiver of any terms and conditions of this Agreement must be in writing and signed by the County and the CONTRACTOR. A waiver of any of the terms and conditions of this Agreement shall not be construed as a waiver of any other terms or conditions in this Agreement.

16.04 **Contractor:** The term "CONTRACTOR" as used in this Agreement includes CONTRACTOR's officers, agents, and employees acting on CONTRACTOR's behalf in the performance of this Agreement.

16.05 **Disputes:** CONTRACTOR shall continue to perform under this Agreement during any dispute.

16.06 ~~**Assignment and Subcontracting:** The CONTRACTOR shall not assign, sell, or otherwise transfer its interest or obligations in this Agreement without the prior written consent of the County. None of the services covered by this Agreement shall be subcontracted without the prior written approval of the County. Notwithstanding any such subcontract, CONTRACTOR shall continue to be liable for the performance of all requirements of this Agreement.~~

16.07 **Successors and Assigns:** This Agreement and the rights, privileges, duties, and obligations of the County and CONTRACTOR under this Agreement, to the extent assignable or delegable, shall be binding upon and inure to the benefit of the parties and their respective successors, permitted assigns, and heirs.

16.08 **Headings:** The headings are for convenience only and shall not be used to interpret the terms of this Agreement.

16.09 **Time is of the Essence:** Time is of the essence in each and all of the provisions of this Agreement.

16.10 **Governing Law:** This Agreement shall be governed by and interpreted under the laws of the State of California; venue shall be Monterey County.

16.11 **Non-exclusive Agreement:** This Agreement is non-exclusive and both County and CONTRACTOR expressly reserve the right to contract with other entities for the same or similar services.

16.12 **Construction of Agreement:** The County and CONTRACTOR agree that each party has fully participated in the review and revision of this Agreement and that any rule of construction to the effect that ambiguities are to be resolved against the drafting party shall not apply in the interpretation of this Agreement or any amendment to this Agreement.

16.13 **Counterparts:** This Agreement may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same Agreement.

Docusign Envelope ID: 4363287E-07A1-40DC-98EB-6DB98E509A5A

16.14 **Authority:** Any individual executing this Agreement on behalf of the County or the CONTRACTOR represents and warrants hereby that he or she has the requisite authority to enter into this Agreement on behalf of such party and bind the party to the terms and conditions of this Agreement.

16.15 **Integration:** This Agreement, including the exhibits, represent the entire Agreement between the County and the CONTRACTOR with respect to the subject matter of this Agreement and shall supersede all prior negotiations, representations, or agreements, either written or oral, between the County and the CONTRACTOR as of the effective date of this Agreement, which is the date that the County signs the Agreement.

16.16 **Interpretation of Conflicting Provisions:** In the event of any conflict or inconsistency between the provisions of this Agreement and the Provisions of any exhibit or other attachment to this Agreement, the provisions of this Agreement shall prevail and control.

17.0 CONSENT TO USE OF ELECTRONIC SIGNATURES.

17.01 The parties to this Agreement consent to the use of electronic signatures via DocuSign to execute this Agreement. The parties understand and agree that the legality of electronic signatures is governed by state and federal law, 15 U.S.C. Section 7001 et seq.; California Government Code Section 16.5; and, California Civil Code Section 1633.1 *et. seq.* Pursuant to said state and federal law as may be amended from time to time, the parties to this Agreement hereby authenticate and execute this Agreement, and any and all Exhibits to this Agreement, with their respective electronic signatures, including any and all scanned signatures in portable document format (PDF).

17.02 **Counterparts.**

The parties to this Agreement understand and agree that this Agreement can be executed in two (2) or more counterparts and transmitted electronically via facsimile transmission or by delivery of a scanned counterpart in portable document format (PDF) via email transmittal.

17.03 **Form: Delivery by E-Mail or Facsimile.**

Executed counterparts of this Agreement may be delivered by facsimile transmission or by delivery of a scanned counterpart in portable document format (PDF) by e-mail transmittal, in either case with delivery confirmed. On such confirmed delivery, the signatures in the facsimile or PDF data file shall be deemed to have the same force and effect as if the manually signed counterpart or counterparts had been delivered to the other party in person.

********** THIS SECTION INTENTIONALLY LEFT BLANK **********

Introduced: 10/7/2025
Version: 1

Current Status: Agenda Ready
Matter Type: BoS Resolution

Adopt a resolution to:
a. Approve and authorize the Director of the Public Works, Facilities and Parks (PWFP) Department or designee to execute a Right of Entry and Indemnification Agreement (Agreement) between the County of Monterey (County) and Esperanza Carmel, Commercial LLC, (User) for County owned Assessor's Parcel Number (APN) 243-262-003 (the Property), located off Highway 1 in the unincorporated area of Big Sur, to allow access to complete restoration and remediation activities on the Property related to California Coastal Commission Consent Cease and Desist Order (CCC-24-CD-02); and
b. Approve and authorize the Director of the Public Works, Facilities and Parks (PWFP) Department or designee to execute any future Right of Entry and Indemnification Agreements or related Right of Entry documents for County owned real property and right-of-ways, subject to the review and approval of the Office of the County Counsel-Risk Management.

RECOMMENDATION:
It is recommended that the Board of Supervisors adopt a resolution:
a. Approve and authorize the Director of the Public Works, Facilities and Parks (PWFP) Department or designee to execute a Right of Entry and Indemnification Agreement (Agreement) between the County of Monterey (County) and Esperanza Carmel, Commercial LLC, (User) for County owned Assessor's Parcel Number (APN) 243-262-003 (the Property), located off Highway 1 in the unincorporated area of Big Sur, to allow access to complete restoration and remediation activities on the Property related to California Coastal Commission Consent Cease and Desist Order (CCC-24-CD-02); and
b. Approve and authorize the Director of the Public Works, Facilities and Parks (PWFP) Department or designee to execute any future Right of Entry and Indemnification Agreements or related Right of Entry documents for County owned real property and right-of-ways, subject to the review and approval of the Office of the County Counsel-Risk Management.

SUMMARY

The Public Works, Facilities and Parks (PWFP) Department has prepared a Right of Entry and Indemnification Agreement to grant Esperanza Carmel, Commercial LLC access to County-owned property in Big Sur for restoration and remediation activities mandated by a California Coastal Commission order. Approval of the staff recommendation will authorize this access, contingent on permit verification, and empower the PWFP Director to execute similar agreements in the future, subject to the review and approval of the Office of the County Counsel-Risk Management.

DISCUSSION

The Public Works, Facilities and Parks (PWFP) Department has developed a Right of Entry and Indemnification Agreement (Agreement) to facilitate access requests from private and public individuals and agencies. Esperanza Carmel, Commercial LLC, (User) was provided a California Coastal Commission Consent Cease and Desist Order (CCC-24-CD-02) requiring the restoration of improvements located on County owned Assessor's Parcel Number (APN) 243-262-003 (the Property), located in Big Sur, CA, adjacent to the Rocky Point Restaurant. The User is requesting access to conduct specific duties related to required restoration and remediation activities on the Property. The applicable restoration and remediation activities on the Property stated in CCC-24-CD-02, are shown within Exhibit B to the Agreement (Attachment B). The Agreement allows access to the Property only, and does not approve any construction, restoration or other activities. The User is required to provide proof of approved permits from the applicable permitting agency(s) and applicable certificate of insurance prior to accessing the Property. The established fee charged to the User is One Thousand and Seventy-Two Dollars ($1,072).

Approval and authorization of staff's recommendation will allow the User the right of entry on to the Property and allow the User to complete required restoration and remediation activities. Approval and authorization of staff's recommendation will also allow the Director of the PWFP Department or designee to execute other future Right of Entry and Indemnification Agreements with private and public individuals for County owned real property and right-of-ways, subject to the review and approval of the Office of the County Counsel-Risk Management.

OTHER AGENCY INVOLVEMENT/COMMITTEE ACTIONS:

The Office of the County Counsel-Risk Management and the Housing and Community Development Department has reviewed and approved the Agreement as to form. The PWFP-Real Property section developed the Agreement.

FINANCING:

The Board Report and the Agreement were developed by PWFP staff and funded as part of the Fiscal Year (FY) 2025-26 PWFP Adopted Budget, General Fund 001, Facilities Appropriation Unit PFP054. The total consideration of this Agreement and any future fees paid to the County shall be deposited into General Fund, Facilities.

BOARD OF SUPERVISORS STRATEGIC PLAN GOALS:

This action supports the Board of Supervisors plan goal for sustainable infrastructure for the present and future by providing for the maintenance, replacement, sustainability, and resilience of infrastructure required for living, working, recreating in, and visiting Monterey County.

___ Well-Being and Quality of Life
_X_ Sustainable Infrastructure for the Present and Future
___ Safe and Resilient Communities
___ Diverse and Thriving Economy
___ Dynamic Organization and Employer of Choice

Prepared by: Ivo N. Basor, PWFP-Real Property Specialist, (831) 796-6427
Reviewed by: George K. Salcido, PWFP-Real Property Specialist, (831) 755-4859
Reviewed by: Florence Kabwasa-Green, Chief of Facilities
Reviewed by: Craig Spencer, Director of Housing and Community Development
Approved by: Randell Ishii, MS, PE, TE, PTOE, Director of Public Works, Facilities and Parks

The following attachments are on file with the Clerk of the Board:
Attachment A - Location Map
Attachment B - Right of Entry and Indemnification Agreement
Attachment C - Board Resolution

Introduced: 10/7/2025
Version: 1

Current Status: Agenda Ready
Matter Type: BoS Resolution

Adopt a resolution to:
a. Approve and authorize the Director of the Public Works, Facilities and Parks (PWFP) Department or designee to execute a Right of Entry and Indemnification Agreement (Agreement) between the County of Monterey (County) and Esperanza Carmel, Commercial LLC, (User) for County owned Assessor's Parcel Number (APN) 243-262-003 (the Property), located off Highway 1 in the unincorporated area of Big Sur, to allow access to complete restoration and remediation activities on the Property related to California Coastal Commission Consent Cease and Desist Order (CCC-24-CD-02); and
b. Approve and authorize the Director of the Public Works, Facilities and Parks (PWFP) Department or designee to execute any future Right of Entry and Indemnification Agreements or related Right of Entry documents for County owned real property and right-of-ways, subject to the review and approval of the Office of the County Counsel-Risk Management.

RECOMMENDATION:
It is recommended that the Board of Supervisors adopt a resolution:
a. Approve and authorize the Director of the Public Works, Facilities and Parks (PWFP) Department or designee to execute a Right of Entry and Indemnification Agreement (Agreement) between the County of Monterey (County) and Esperanza Carmel, Commercial LLC, (User) for County owned Assessor's Parcel Number (APN) 243-262-003 (the Property), located off Highway 1 in the unincorporated area of Big Sur, to allow access to complete restoration and remediation activities on the Property related to California Coastal Commission Consent Cease and Desist Order (CCC-24-CD-02); and
b. Approve and authorize the Director of the Public Works, Facilities and Parks (PWFP) Department or designee to execute any future Right of Entry and Indemnification Agreements or related Right of Entry documents for County owned real property and right-of-ways, subject to the review and approval of the Office of the County Counsel-Risk Management.

SUMMARY

The Public Works, Facilities and Parks (PWFP) Department has prepared a Right of Entry and Indemnification Agreement to grant Esperanza Carmel, Commercial LLC access to County-owned property in Big Sur for restoration and remediation activities mandated by a California Coastal Commission order. Approval of the staff recommendation will authorize this access, contingent on permit verification, and empower the PWFP Director to execute similar agreements in the future, subject to the review and approval of the Office of the County Counsel-Risk Management.

DISCUSSION

The Public Works, Facilities and Parks (PWFP) Department has developed a Right of Entry and Indemnification Agreement (Agreement) to facilitate access requests from private and public individuals and agencies. Esperanza Carmel, Commercial LLC, (User) was provided a California Coastal Commission Consent Cease and Desist Order (CCC-24-CD-02) requiring the restoration of improvements located on County owned Assessor's Parcel Number (APN) 243-262-003 (the Property), located in Big Sur, CA, adjacent to the Rocky Point Restaurant. The User is requesting access to conduct specific duties related to required restoration and remediation activities on the Property. The applicable restoration and remediation activities on the Property stated in CCC-24-CD-02, are shown within Exhibit B to the Agreement (Attachment B). The Agreement allows access to the Property only, and does not approve any construction, restoration or other activities. The User is required to provide proof of approved permits from the applicable permitting agency(s) and applicable certificate of insurance prior to accessing the Property. The established fee charged to the User is One Thousand and Seventy-Two Dollars ($1,072).

Approval and authorization of staff's recommendation will allow the User the right of entry on to the Property and allow the User to complete required restoration and remediation activities. Approval and authorization of staff's recommendation will also allow the Director of the PWFP Department or designee to execute other future Right of Entry and Indemnification Agreements with private and public individuals for County owned real property and right-of-ways, subject to the review and approval of the Office of the County Counsel-Risk Management.

OTHER AGENCY INVOLVEMENT/COMMITTEE ACTIONS:

The Office of the County Counsel-Risk Management and the Housing and Community Development Department has reviewed and approved the Agreement as to form. The PWFP-Real Property section developed the Agreement.

FINANCING:

The Board Report and the Agreement were developed by PWFP staff and funded as part of the Fiscal Year (FY) 2025-26 PWFP Adopted Budget, General Fund 001, Facilities Appropriation Unit PFP054. The total consideration of this Agreement and any future fees paid to the County shall be deposited into General Fund, Facilities.

BOARD OF SUPERVISORS STRATEGIC PLAN GOALS:

This action supports the Board of Supervisors plan goal for sustainable infrastructure for the present and future by providing for the maintenance, replacement, sustainability, and resilience of infrastructure required for living, working, recreating in, and visiting Monterey County.

___ Well-Being and Quality of Life
_X_ Sustainable Infrastructure for the Present and Future
___ Safe and Resilient Communities
___ Diverse and Thriving Economy
___ Dynamic Organization and Employer of Choice

Prepared by: Ivo N. Basor, PWFP-Real Property Specialist, (831) 796-6427
Reviewed by: George K. Salcido, PWFP-Real Property Specialist, (831) 755-4859
Reviewed by: Florence Kabwasa-Green, Chief of Facilities
Reviewed by: Craig Spencer, Director of Housing and Community Development
Approved by: Randell Ishii, MS, PE, TE, PTOE, Director of Public Works, Facilities and Parks

The following attachments are on file with the Clerk of the Board:
Attachment A - Location Map
Attachment B - Right of Entry and Indemnification Agreement
Attachment C - Board Resolution

Attachment A
Location Map

APN 243-262-003
Big Sur, California

COUNTY OF MONTEREY
RIGHT OF ENTRY AND
INDEMNIFICATION AGREEMENT

This revocable non-exclusive Right of Entry and Indemnification Agreement ("Agreement") is made by and between the **County of Monterey** ("County") and **Esperanza Carmel, Commercial, LLC**, ("User"), collectively referred to as the Parties.

This Agreement permits the right to enter the County's property known as Assessor's Parcel Number **(APN) 243-262-003, located in the Big Sur area ("Property") and as further defined on Exhibit "A"** which is attached and incorporated herein, for the purposes set forth below. User upon written notice to the County, may request access to other County owned property or extension of Term below as needed under the scope of this Agreement. This Agreement allows access to the Property only, and does not approve any construction, restoration or other activities. The User is required to provide proof of approved permits from the applicable permitting agency(s) prior to accessing the Property.

Term:	**October 2025 through October 2030 (5 Years). User to notify County of date of access and end of term with seven (7) days advance notice.**
Hours:	**Monday – Friday, 8:00 am to 5:00 pm**
County Contact:	**Department of Public Work (Facilities), Maintenance Manager Ryan Bell, (831) 755-4869, email: bellr@countyofmonterey.gov**
User Contact:	**Ryan Aeschliman, Development Director, Esperanza Carmel 831.250.7669, email: ryan.aeschliman@esperanzacarmel.com**
Fee:	**$1,072.00**
Payable:	**Payment made payable to the County of Monterey, Attn: PWFP Fiscal Section at 1441 Schilling Place, South Bldg., 2nd Floor, Salinas, CA 93901 within thirty (30) days of non-occupancy.**

1) PURPOSE OF OCCUPATION:
To perform necessary activities related to: all applicable restoration and remediation activities on the Property, stated in the California Coastal Commission Consent Cease and Desist Order (CCC-24-CD-02), **Exhibit "B",** which is attached and incorporated herein. The User shall restore, or cause the restoration of, the Property to a condition acceptable to the County upon completion of the purpose for entry onto the Property.

2) INDEMNITY:
In consideration and furtherance of the above specified purpose, the User shall indemnify, defend, and hold harmless the County, its officers, agents, and employees, from and against any and all claims, liabilities, and losses whatsoever (including damages to property and injuries to or death of persons, court costs, and reasonable attorneys' fees) occurring or resulting to any and all

persons, firms or corporations furnishing or supplying work, services, materials, or supplies in connection with the performance of this Agreement, and from any and all claims, liabilities, and losses occurring or resulting to any person, firm, or corporation for damage, injury, or death arising out of or connected with the User's performance of this Agreement, unless such claims, liabilities, or losses arise out of the sole negligence or willful misconduct of the County. "User's performance" includes User's action or inaction and the action or inaction of User's officers, employees, agents, contractors and subcontractors.

3) INSURANCE:

Evidence of Coverage:

User shall have the right to self-insure with respect to any of the insurance requirements required under this Indemnification Agreement, User shall submit a letter of self-insurance signed by a duly authorized representative evidencing that User's self-insurance program is in full force and effect.

This verification of coverage shall be sent to the County's, Contracts/Purchasing Department, unless otherwise directed. The User shall not undertake any activity under this Agreement, nor shall User receive a "Notice to Proceed" with the work under this Agreement until it has obtained all insurance required and such, insurance has been approved by the County. This approval of insurance shall neither relieve nor decrease the liability of the User.

Qualifying Insurers:

All coverage's, except surety, shall be issued by companies which hold a current policy holder's alphabetic and financial size category rating of not less than A- VII, according to the current Best's Key Rating Guide or a company of equal financial stability that is approved by the County's Purchasing Officer.

Insurance Coverage Requirements: Without limiting User's duty to indemnify, User shall maintain in effect throughout the term of this Agreement a policy or policies of insurance with the following minimum limits of liability:

- Commercial general liability insurance, including but not limited to premises and operations, including coverage for Bodily Injury and Property Damage, Personal Injury, Contractual Liability, Broadform Property Damage, Independent Contractors, Products and Completed Operations, with a combined single limit for Bodily Injury and Property Damage of not less than $10,000,000 per occurrence.

- Business automobile liability insurance, covering all motor vehicles, including owned, leased, non-owned, and hired vehicles, used in providing services under this Agreement, with a combined single limit for Bodily Injury and Property Damage of not less than $1,000,000 per occurrence.

- Workers' Compensation Insurance, if User employs others in the performance of this Agreement, in accordance with California Labor Code section 3700 and with Employer's Liability limits not less than $1,000,000 each person, $1,000,000 each accident and $1,000,000 each disease.

- Professional liability insurance, if required for the professional services being provided, (e.g., those persons authorized by a license to engage in a business or profession regulated by the California Business and Professions Code), in the amount of not less than $5,000,000 per claim and $20,000,000 in the aggregate, to cover liability for malpractice or errors or omissions made in the course of rendering professional services. If professional liability insurance is written on a "claims-made" basis rather than an occurrence basis, the User shall,upon the expiration or earlier termination of this Agreement, obtain extended reporting coverage ("tail coverage") with the same liability limits. Any such tail coverage shall continue for at least three years following the expiration or earlier termination of this Agreement.

Other Insurance Requirements.
All insurance required by this Agreement shall be with a company acceptable to the County and issued and executed by an admitted insurer authorized to transact Insurance business in the State of California. Unless otherwise specified by this Agreement, all such insurance shall be written on an occurrence basis, or, if the policy is not written on an occurrence basis, such policy with the coverage required herein shall continue in effect for a period of three (3) years following the date User completes all the work or performs all the services under this Agreement.

Each liability policy shall provide that the County shall be given notice in writing at least thirty (30) days in advance of any endorsed reduction in coverage or limit, cancellation, or intended non-renewal thereof. Each policy shall provide coverage for User and additional insureds with respect to claims arising from each subcontractor, if any, performing work or services under this Agreement, or be accompanied by a certificate of insurance from each subcontractor showing each subcontractor has identical insurance coverage to the above requirements.

Commercial general liability and automobile liability policies shall provide an endorsement naming the County of Monterey, its officers, agents, and employees as Additional Insureds with respect to liability arising out of the User's work, including ongoing and completed operations, and shall further provide that such insurance is primary insurance to any insurance or self-insurance maintained by the County and that the insurance of the Additional Insureds shall not be called upon to contribute to a loss covered by the User's insurance. The required endorsement form for Commercial General Liability Additional ***Insured is ISO Form CG 20 10 11-85 or CG 20 10 10 01 in tandem with CG 20 37 10 01 (2000)****. The required endorsement form for Automobile Additional Insured endorsement is* ***ISO Form CA 20 48 02 99.***

Prior to the execution of this Agreement by the County, User shall file certificates of insurance with the County's contract administrator and County's Contracts/Purchasing Division, showing that the User has in effect the insurance required by this Agreement. The User shall file a new or amended certificate of insurance within five (5) calendar days after any change is made in any insurance policy, which would alter the information on the certificate then on file. Acceptance or approval of insurance shall in no way modify or change the indemnification clause in this Agreement, which shall continue in full force and effect.

User shall at all times during the term of this Agreement maintain in force the insurance coverage required under this Agreement and shall send, without demand by County, annual certificates to County's Contract Administrator and County's Contracts/Purchasing Division. If the certificate is not received by the expiration date, County shall notify User and User shall have five (5) calendar

days to send in the certificate, evidencing no lapse in coverage during the interim. Failure by User to maintain such insurance is a default of this Agreement, which entitles County,at its sole discretion, to terminate this Agreement immediately.

User shall be a licensed, bonded and a properly insured (or permissibly self-insured) contractor, and be responsible for restoring the Property to a condition acceptable to the County upon completion of its purpose for using the Property.

Without relieving User of the foregoing insurance and indemnity obligations, County reserves the right to require User's contractor to execute a license agreement directly with County within twenty (20) days of County and User executing this Agreement. Said license agreement to include but not limited to a reasonable license fee, insurance and indemnification provisions, and restoration performance bonding. User will expressly require its contractors and sub-contractors to comply with the minimum insurance and indemnity provisions and contractually "flow down" requirements, as set forth above.

4) OTHER TERMS

The person executing this Agreement on behalf of the User herby covenants and warrants that he/she is duly authorized to execute this Agreement.

The County shall have the right to terminate this Agreement for any reason, or for no reason, by providing written notice to the other Party, during any time of the Term of this Agreement.

This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, and all of which together shall constitute a single agreement.

The Parties to this Agreement consent to the use of electronic signatures via DocuSign to execute this Agreement. The parties understand and agree that the legality of electronic signatures is governed by state and federal law, 15 U.S.C Section 7001 et seq.; California Government Code Section 16.5; and, California Civil Code Section 1633.1 et. seq. Pursuant to said state and federal law as may be amended from time to time, the Parties to this Agreement hereby authenticate and execute this Agreement, and any and all Exhibits to this Agreement, with their respective electronic signatures, including any and all scanned signatures in portable document format (PDF) which may be delivered by mail, EMail, or Facsimile.

THIS SECTION INTENTIONALLY LEFT BLANK

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement which shall be effective as of the last date opposite the respective signatures below.

COUNTY OF MONTEREY		**USER**	
By:			Esperanza Carmel, Commercial, LLC
Name:			User's Name
Title:	Director of Public Works, Facilities and Parks or Designee		
Date:		By:	
		Name:	
Approved as to Form		Title:	
Office of the County Counsel		Date:	
Susan K. Blitch, County Counsel			
By:		By:	
Name:		Name:	
Title:	Deputy County Counsel	Title:	
Date:		Date:	

Approved as to Indemnity and Insurance Provisions
Office of the County Counsel-Risk Management
Susan K. Blitch, County Counsel

By:	
Name:	David Bolton
Title:	Risk Manager
Date:	

*INSTRUCTIONS: If CONTRACTOR is a corporation, including non-profit corporations, the full legal name of the corporation shall be set forth above together with the signatures of two (2) specified officers per California Corporations Code Section 313. If CONTRACTOR is a Limited Liability Corporation (LLC), the full legal name of the LLC shall be set forth above together with the signatures of two (2) managers. If CONTRACTOR is a partnership, the full legal name of the partnership shall be set forth above together with the signature of a partner who has authority to execute this Agreement on behalf of the partnership. If CONTRACTOR is contracting in an individual capacity, the individual shall set forth the name of the business, if any, and shall personally sign the Agreement or Amendment to said Agreement.
1) Approval by County Counsel is required
2) Review by Risk Management is necessary only if changes are made in Indemnification or Insurance paragraphs.

Exhibit “A”

APN 243-262-003
Big Sur, California

Exhibit "B"

California Coastal Commission Consent Cease and Desist Order (CCC-24-CD-02)

THIS PAGE IS INTENTIONALLY LEFT BLANK

CONSENT CEASE AND DESIST ORDER CCC-24-CD-02,
CONSENT RESTORATION ORDER CCC-24-RO-02,
CONSENT ADMINISTRATIVE CIVIL PENALTY CCC-24-AP-02,
AND CONSENT ADMINISTRATIVE CIVIL PENALTY CCC-24-AP3-02

1.0 CONSENT CEASE AND DESIST ORDER CCC-24-CD-02

Pursuant to its authority under California Public Resource Code ("PRC") Section 30810, the California Coastal Commission ("the Commission") hereby orders and authorizes Esperanza Carmel Commercial, LLC; their successors in interest; heirs; officers; managers; assigns; employees; agents; contractors; and any other persons or entities acting in concert with any of the foregoing (hereinafter referred to as "Respondent") to:

1.1 Cease and desist from engaging in any further development, as that term is defined in the Coastal Act (at Public Resources Code ("PRC") Section 30106) and the Monterey County Local Coastal Program ("County LCP") at Title 21, Division 6, Chapter 310 of the Monterey Code of Ordinances, that requires a coastal development permit ("CDP") on any of the properties, identified in Section 4.5 below as "Properties," unless authorized or found to be exempt pursuant to the Coastal Act (PRC Sections 30000-30900) and the County LCP (Monterey County Code of Ordinances 20.170.120) in compliance with all substantive and procedural requirements, which includes development authorized through these Consent Orders, as that phrase is defined in Section 4.1, below.

1.2 Remove, pursuant to Section 7.3, below, all physical items and materials that were placed or allowed to come to rest on the Properties as a result of the Unpermitted Development, defined below in Sections 4.10, and as generally shown at Exhibit 1, with the exception of the Public Viewing Area and the Public Parking Area, both of which are required to be improved and maintained for public access pursuant to Section 13 and both of which are approximately shown at Exhibit 9. Removal shall be undertaken according to and consistent with the terms of an approved Removal Plan, as required by section 7.3 below, and pursuant to the terms and conditions of these Consent Orders.

1.3 Refrain from undertaking any activity in violation of the Coastal Act or in violation of any Coastal Development Permits ("CDP"s), including, but not limited to, placement of development, such as signs or guards, that deter or interfere with the public's ability to access and use: 1) any public trails located on the adjacent County Property (defined below in Section 4.3), 2) the road across the County Property, 3) state tidelands seaward of and adjacent to the Properties, 4) the public's existing rights on the Rocky Point Property, and 5) any areas included in the Public Access Easement or Public Access Deed Restriction areas described in Section 13, below.

1.4 Fully and completely comply with the terms and conditions set forth herein, including the terms and conditions of Consent Cease and Desist Order No. CCC-24-CD-02, Consent Restoration Order No. CCC-24-RO-02, Consent Administrative Civil Penalty No. CCC-

24-AP-02, and Consent Administrative Civil Penalty CCC-24-AP3-02

1.5 Comply in a timely manner with the terms and conditions of all other mandatory government approvals or permits for the work required herein that are issued by other government agencies having jurisdiction over that work, consistent with these Consent Orders. These Consent Orders provide Coastal Act authorization for all the work required herein, so long as such development is undertaken in accordance with the terms and conditions of these Consent Orders.

2.0 CONSENT RESTORATION ORDER CCC-24-RO-02

2.1 Pursuant to its authority under PRC Section 30811, the Commission hereby orders and authorizes Respondent to restore the Properties and any necessary adjacent properties pursuant to the requirements in Section 7.0, below.

3.0 CONSENT ADMINISTRATIVE PENALTY CCC-24-AP-02 AND CONSENT ADMINISTRATIVE PENALTY CCC-24-AP3-02

3.1 Pursuant to its authority under PRC Sections 30821 and 30821.3, the Commission hereby orders and Respondent agree to resolve their administrative civil penalties as specified in Section 13.0, below.

4.0 DEFINITIONS COMMON TO THESE CONSENT ORDERS

4.1 Consent Orders

Consent Cease and Desist Order No. CCC-24-CD-02, Consent Restoration Order No. CCC-24-RO-02, Consent Administrative Civil Penalty CCC-24-AP-02, and Consent Administrative Civil Penalty CCC-24-AP3-02 are collectively referred to herein as “the” or “these” Consent Orders.

4.2 Rocky Point Property

A 2.5-acre property owned by Esperanza Carmel Commercial, LLC, located at 36700 Highway 1 in Monterey County and identified as Assessor’s Parcel Number (“APN”) 243-262-004.

4.3 County Property

An 8.9-acre property owned by Monterey County, located adjacent to the Rocky Point Property, identified as APN 243-262-003.

4.4 Adjacent Private Property

A 12.4-acre, privately-owned property located adjacent to the County Property, at 36658 Highway 1 in Monterey County and identified as APN 243-251-025.

4.5 Properties

The County Property, Adjacent Private Property, and Rocky Point Property are collectively referred to herein as the Properties.

4.6 Prop 70 Deed Restriction

The deed restriction recorded by the County of Monterey on the County Property as required by Proposition 70 and County Board of Supervisors Resolution No. 87-151 (Document No. 94-51479, recorded July 19, 1994).

4.7 Water Tank Easement

Tank Lot and Water Line Easements, granted by the County of Monterey to Rocky Point Restaurant, LLC and Jones RP, through an Agreement and Grant of Easement (Document No. 2009-036330, recorded on June 11, 2009).[1]

4.8 Sign Easement

A Sign Easement, granted by Barbara B. Hall to Albert P. Moraz and Mary E. Moraz and Jack Currier and Jean Currier, through an Agreement and Grant of Easement (recorded on Reel 59, pages 21-24, on May 23, 1962).

4.9 Restoration Areas

All areas of the Properties that were impacted by the Unpermitted Development, or will be impacted by the removal of certain items of development pursuant to Section 7.3, below, and upon which restoration activities will occur.

4.10 Unpermitted Development

Means all “development” as that term is defined in PRC Section 30106 and Section 21.06.3109 of the Monterey Code of Ordinances, that occurred on the Properties without the authorization required under the Coastal Act, and is approximately shown at Exhibit 1, including, but not necessarily limited to: Unpermitted Development on the County Property, including: 1) a locked gate, signs restricting public access, and cameras; 2) sheds and a trash enclosure, 3) lighting along the driveway, and 4) fencing, mailboxes, rock walls, and other items between the Sign Easement and Highway One; Unpermitted Development on both the County Property and the Rocky Point Property undertaken and maintained by the owner of the Rocky Point Property, including 5) removal of native vegetation in two areas for use as private

[1] According to California Secretary of State records, Jones RP, LLC was terminated on March 14, 2014, and Rocky Point Restaurant, LLC was terminated on February 5, 2014. Esperanza Carmel Commercial, LLC now holds the easement, pursuant to Provision 8 of Document No. 2009-036330, which binds successors in interest to the Rocky Point Property.

parking lots, one to the north that is approximately 4,500 square feet, and one to the southeast that is approximately 10,000 square feet, along with grading and placement of decomposed granite; 6) posting of a guard and restrictive parking and No Trespassing' signs; 7) installation of garden or accessory items, non-native landscaping, and an irrigation system; Unpermitted Development on the Adjacent Private Property, County Property, and Rocky Point Property undertaken and maintained by the owner of the Rocky Point Property, including 8) grading of a trail and installation of metal T-poles, rope, and wood stairs; 9) a water tank and clearing of native vegetation around it; and Unpermitted Development that is limited to the Rocky Point Property, undertaken and maintained by the owner of that property, including 10) installation of an approximately 2,000 square foot lawn and outdoor patio with tables, a fence/wall, and stairs; 11) a new leach field; 12) remodeling of existing buildings, 13) an expansion of restaurant capacity from 120 to 200 diners, 14) paving with asphalt, 15) a building to the northeast of the restaurant building, 16) decks seaward of both the northern part of the restaurant and the residential unit to the north of the restaurant, and 17) placement of planters and woodchips seaward of the restaurant.

4.11 Permitted Development in Violation of Prop 70

Means all "development" as that term is defined in PRC Section 30106 and Section 21.06.3109 of the Monterey Code of Ordinances, that was authorized pursuant to a coastal development permit (Combined Development Permit No. PLN 050296, County Resolution No. 07039) on the County Property, but is in violation of the restrictions of the Prop 70 Deed Restriction, Proposition 70, and County Board of Supervisors Resolution No. 87-151, including: 1) one additional water tank on the hill above the road within the Water Tank Easement, and 2) a large lighted sign advertising "Rocky Point Restaurant" near Highway One but outside of the Sign Easement.

5.0 ENTITIES AND PERSONS SUBJECT TO THIS CEASE AND DESIST ORDER, RESTORATION ORDER, AND ADMINISTRATIVE PENALTY ACTION

The parties subject to these Consent Orders are Esperanza Carmel Commercial LLC; their successors in interest; heirs; officers; managers; assigns; employees; agents; contractors; lessees; and any other persons or entities acting in concert with any of the foregoing are jointly and severally subject to all the requirements of these Consent Orders and shall undertake the work required herein according to the terms of these Consent Orders. Respondent shall provide notice to all successors, assigns, lessees, and potential purchasers of the Rocky Point Property of any remaining obligations and restrictions under these Consent Orders.

6.0 NATURE OF ORDERS AND OF CONSENT

6.1 These Consent Orders represent a mutual agreement and settlement between Respondent and the Commission to, among other things, resolve this matter in the most efficient way and to avoid the cost and uncertainty of contested administrative proceedings and potential litigation related to the Unpermitted Development and the Permitted Development in Violation of Prop 70, as those terms are defined above.

Respondent does not acknowledge any wrongdoing with respect to the allegations regarding the above, and these Consent Orders shall not be construed or suggest or imply any such wrongdoing with respect to those allegations. Nonetheless, Respondent agrees for the purposes of this settlement that the jurisdictional requirements for issuance and enforcement of these Consent Orders have been met and agrees to not contest the issuance or enforcement of these Consent Orders. Through the execution of these Consent Orders, Respondent agrees to comply with the terms and conditions of these Consent Orders. These Consent Orders order and authorize the removal, restoration, mitigation, and public access improvement activities, among other activities, required to restore the Properties to their pre-violation condition and to address temporal losses of habitat and public access caused by the Unpermitted Development. Nothing in these Consent Orders guarantees or conveys any right to undertake development on the Properties other than the work expressly authorized herein. Any development subject to Coastal Act requirements that is not specifically authorized herein requires authorization or determination of exemption under the Coastal Act.

6.2 Respondent further agrees to condition any contracts for work related to these Consent Orders upon an agreement that any and all employees, agents, and contractors, and any persons acting in concert with any of the foregoing, adhere to and comply with the terms and conditions set forth herein.

7.0 RESTORATION PLAN

These Consent Orders require the preparation and implementation of a Temporary Erosion Control Plan, Removal Plan, Invasive Plant Control Plan, Remedial Grading Plan, Revegetation Plan, Mitigation Plan, and Monitoring Plan (hereinafter collectively referred to as "the Restoration Plan"). The Restoration Plan shall set forth the measures that Respondent shall undertake to install temporary erosion control measures, remove the physical items of Unpermitted Development, remove invasive plants, conduct remedial grading, revegetate the Restoration Area, mitigate for the temporal and permanent losses of habitat and other resources affected by the Unpermitted Development, and monitor the restoration to ensure the success of restoration activities.

7.1 General Provisions

7.1.1 Within 90 days of effective date of these Consent Orders, Respondent shall submit the Restoration Plan for the review and written approval of the Commission's Executive Director ("Executive Director").

7.1.2 The Restoration Plan, and any reports prepared pursuant to the Restoration Plan or these Consent Orders, shall be prepared by a qualified restoration ecologist(s), and/or resource specialist(s), and/or engineer(s) ("Specialist"). Within 30 days of the effective date of these Consent Orders, Respondent shall submit the qualifications of the proposed Specialist(s) for the Executive Director's review and approval. The qualifications shall include a description of the proposed Specialist's educational

background, training, and experience relevant to the preparation and implementation of the Restoration Plan described herein. To meet the requirements to be a qualified Specialist specifically for the restoration component of the Restoration Plan, the Specialist must have experience successfully completing restoration projects of a similar scale and scope involving restoration of coastal areas of Monterey County (preferably within the region covered by the Big Sur Coast segment of the Monterey County Local Coastal Program ("LCP"). If the Executive Director determines that the qualifications of Respondent's proposed specialist(s) are not adequate to plan for and conduct such restoration work, he/she shall notify Respondent and, within 10 days of such notification, Respondent shall submit a proposal for a different Specialist for the Executive Director's review and approval.

7.1.3 The Restoration Plan shall include a survey map from a licensed surveyor with input from the Specialist, drawn to scale, that shows the specific parameters, location, and extent of each of the following, as applicable: 1) all property boundaries; 2) the physical items placed or allowed to come to rest on the Properties as a result of Unpermitted Development and Permitted Development in Violation of Prop 70 that are to be removed under Section 7.3; 3) the Restoration Areas; 4) the areas where native vegetation removal occurred; 5) the areas where erosion control measures will be installed pursuant to Section 7.2.6; 6) the areas where remedial grading measures will be undertaken pursuant to Section 7.5; 7) the areas of existing non-native and/or invasive plants that shall be removed pursuant to Section 7.4 (delineate and label individual species and include a full list of such species); 8) the areas where native vegetation will be planted pursuant to Sections 7.6 (delineate and label individual species and include a full list of such species); 9) the location(s) of mitigation to be undertaken pursuant to Section 7.7; and 10) the specific locations and directions from which photographs will be taken for the annual monitoring reports pursuant to Section 7.8.

7.1.4 Each component of the Restoration Plan shall include a narrative report, specific to that component, describing the restoration activities to take place, the procedures to be used, and identification of the parties who will be conducting the restoration activities.

7.1.5 The Restoration Plan shall include a schedule/timeline of activities, with deadlines pursuant to these Consent Orders.

7.1.6 The Restoration Plan shall state that prior to the initiation of any activities required under these Consent Orders, including removal and restoration activities, the boundaries of the Restoration Areas, as well as any onsite mitigation areas, shall be physically delineated in the field, using temporary non-plastic measures such as fencing or colored wooden stakes. The Restoration Plan shall state further that all delineation materials shall be removed when no longer needed and verification of such removal shall be provided in the relevant completion or monitoring report that corresponds to the reporting period during which the removal occurred.

7.1.7 The Restoration Plan shall include a detailed description of all equipment to be used.

Hand tools shall be used wherever possible. It is understood by the parties that mechanized equipment will likely be used to complete the activities required to implement the Restoration Plan. The Restoration Plan shall state that mechanized equipment shall not impact resources protected under the Coastal Act and the Monterey County LCP, including, but not limited to: public access, geological stability, beach or bluff erosion, integrity of landforms, water quality, and the existing native vegetation. For any mechanized equipment proposed, the Restoration Plan shall provide for:

7.1.7.1 Limitations on the hours of operations for all equipment and a contingency plan that addresses, at a minimum: 1) potential impacts from equipment use, including disturbance of areas where revegetation and/or mitigation will occur and the responses thereto; 2) potential spills of fuel or other hazardous releases that may result from the use of mechanized equipment and the responses thereto; and 3) any potential water quality impacts.

7.1.7.2 Designated areas for staging of any construction equipment and materials, including receptacles and temporary stockpiles of materials. All stockpiles and construction materials shall be covered, enclosed on all sides, located as far away as possible from drain inlets and any waterway, and shall not be stored in contact with the soil. No demolition or construction materials, debris, or waste shall be placed or stored where it may enter sensitive habitat, receiving waters or a storm drain, or be subject to wind or runoff erosion and dispersion. All stockpiles, construction materials, and demolition debris shall be enclosed on all sides, covered during rain events, and not stored in contact with the soil, and shall be located a minimum of 100 feet from the bluff and other sensitive habitat.

7.1.7.3 Designated and confined areas for maintaining and washing machinery and equipment shall be specifically designed to control runoff. Thinners or solvents shall not be discharged into sanitary or storm sewer systems. The discharge of hazardous materials into any receiving waters is prohibited.

7.1.8 All work shall be conducted outside of the avian breeding season (February 1 to August 31) unless recommended by the Specialist and approved by the Executive Director. For any work approved to occur during the avian breeding season (i.e., February 1 to August 31), the following requirements shall apply:

7.1.8.1 Surveys will be completed by a qualified wildlife biologist with experience in observing reproductive and nesting behavior to identify displays of nesting behavior and/or active nests (i.e., as occupied by eggs or nestlings) in the proposed Restoration and Mitigation Areas. The following shall apply to these surveys:

7.1.8.1.1 A survey shall be conducted within 72 hours prior to the initiation of the restoration work. If Respondent wishes to conduct any additional surveys prior to the initiation of the restoration work, these surveys shall commence no more than

30 days prior to the initiation of restoration work.

7.1.8.1.2 Additional surveys shall be conducted weekly for the entirety of the project unless the Executive Director approves an alternative frequency.

7.1.8.1.3 Surveys shall include the project work area and extend 300 feet beyond to locate any active non-raptor nests, and 500 feet to locate any active raptor nests.

7.1.8.1.4 If active nests are located, clearly marked no-disturbance buffers of 300 feet shall be established for non-raptor species and 500 feet for raptors, unless evidence is provided to demonstrate to the Executive Director's satisfaction that a different distance is appropriate. A qualified biologist shall determine when a nest has fully fledged or is no longer in use, at which point its no-disturbance buffer can be removed. Additional surveys and protections may be required for Black Swifts along the bluff and for raptors in the eucalyptus grove. Specifically, if the presence of Black Swifts is observed, even if nests are not, buffers will still be required. Additionally, if raptor nests are located in the eucalyptus grove, further studies to determine if the nests are active will be required.

7.1.8.1.5 Maps identifying the location of any active nests detected shall be provided, and at a minimum, indicate the date of survey, nest stage (e.g., eggs, nestlings, etc.), and illustrate the buffered areas.

7.1.9 Any birds that begin nesting within an active work area or the designated survey area amid restoration activities may be assumed to be habituated to work-related noise and disturbance levels. No prescribed buffers are required to be established around active nests in these cases; however, further encroachment shall be avoided, the nests shall continue to be monitored by the biologist, and if the nesting birds begin to show distress associated with construction activities, the qualified biologist shall reestablish the prescribed no-disturbance buffers.

7.1.10 If under any circumstances either construction staff or the biologist observe signs of distress (e.g., parents flush from the nest and do not readily return as activities continue, anxious warning calls, etc.), work shall be stopped immediately, and the biologist shall consult with the Executive Director to determine necessary modifications to activities. Activities will resume only after the biologist is satisfied that the modifications are sufficient to avoid continued disturbance to the nests.

7.1.11 A survey report of the initial survey shall be provided to the Executive Director prior to the initiation of any work and shall include: all survey results and associated maps; along with a brief narrative describing the survey methods and observations of the species' tolerances to noise and visual disturbance cues. Survey reports shall also be provided to the Executive Director within 5 days of each survey conducted over the life of the project.

7.1.12 All work to be performed under these Consent Orders shall be done in compliance with all applicable laws and these Consent Orders do not obviate Respondent's need to obtain any and all government approvals necessary for any development ordered and authorized herein.

7.1.13 Prior to commencement of work under the approved Restoration Plan, Respondent shall submit to the Executive Director written evidence that all necessary approvals have been obtained. If an agency requires a change to the Restoration Plan as submitted and/or approved, Respondent shall submit proposed revisions for the Executive Director's review and approval under Section 19.0.

7.1.14 Any future modifications to the Restoration Plan must be approved by the Executive Director. Respondent shall obtain Executive Director approval prior to undertaking work in accordance with a proposed modification.

7.1.15 The Restoration Plan shall be subject to the following deadlines:

7.1.15.1 Within 30 days of the effective date of this Consent Order, Respondent shall submit the qualifications of the proposed Specialist(s) for the Executive Director's review and approval.

7.1.15.2 Within 90 days the effective date of this Consent Order, Respondent shall submit the Restoration Plan for the review and written approval of the Commission's Executive Director.

7.1.15.3 Within 15 days of the approval of the Restoration Plan by the Executive Director and any other required approvals consistent with 7.1.13, Respondent shall commence implementation of the Restoration Plan.

7.1.15.4 Respondent shall implement each phase of the Restoration Plan according to the deadlines set forth below.

7.1.15.5 Within 15 days of the completion of the work described in each phase of the Restoration Plan, Respondent shall submit a written report, prepared by the Specialist(s), for the review and approval of the Executive Director, documenting all restoration work performed pursuant to the specific plan. This report shall include a summary of dates on which work was performed and photographs taken from pre-designated locations (as identified on the map submitted pursuant to Section 7.1.3) documenting implementation of the respective components of the Restoration Plan.

7.1.15.6 Within 15 days of the completion of the Revegetation Plan, Respondent shall complete the implementation of the entire Restoration Plan consistent with the approved schedule and shall complete all restoration activities with the exception

of the long-term monitoring activities as described in Section 7.8, below.

7.2 Temporary Erosion Control Plan

7.2.1 Respondent shall submit, as part of the Restoration Plan, a Temporary Erosion Control Plan, prepared by a qualified Specialist approved pursuant to Section 7.1.2, to stabilize the soil and prevent erosion, to address ground disturbance during any restoration activities, and to stabilize the soil and prevent erosion during the establishment of any vegetation planted pursuant to Section 7.6, below.

7.2.2 The Temporary Erosion Control Plan shall include: 1) a narrative report describing all temporary run-off and erosion control measures to be used during and after remedial grading, removal, and restoration activities; 2) identify and delineate on the site or grading plan required pursuant to Section 7.5 the location of all temporary erosion control measures; and 3) specify that the remedial grading, removal work, and installation of erosion control features shall take place only during the dry season (June 15 through October 31). If recommended by the Specialist, this period may be extended for a limited period of time pursuant to Section 20.0 below.

7.2.3 The Temporary Erosion Control Plan shall indicate that all erosion control measures are required to be installed and fully functional in the Restoration Area prior to, or concurrent with, the initial removal activities required by these Consent Orders and maintained at all times of the year throughout the removal, remedial grading, revegetation, and monitoring process, to minimize erosion across the site, and consistent with the deadlines established herein for the removal of the temporary erosion control measures.

7.2.4 All temporary construction related erosion control materials shall be comprised of bio-degradable materials, including the material used to encase fiber rolls and other erosion control devices. To minimize wildlife entanglement and plastic debris pollution, the use of temporary rolled erosion and sediment control products with plastic netting (such as polypropylene, nylon, polyethylene, polyester, or other synthetic fibers used in fiber rolls, erosion control blankets, and mulch control netting) is prohibited. Any erosion-control associated netting shall be made of natural fibers and constructed in a loose-weave design with movable joints between the horizontal and vertical twines.

7.2.5 The erosion control measures shall remain in place and be maintained at all times of the year until the plantings have become established, or in the case of erosion control measures for winter rainstorms, until such time period established by the approved Restoration Plan, and then all such measures shall be removed and properly disposed of by Respondent. Verification of such removal shall be provided in the monitoring or completion report for the monitoring report period during which the removal occurred.

7.2.6 The Temporary Erosion Control Plan shall include the following deadlines:

7.2.6.1 Within 15 days of the approval of the Restoration Plan by the Executive Director and any other required approvals consistent with 7.1.13, Respondent shall commence the implementation of the Temporary Erosion Control Plan.

7.2.6.2 Within 15 days of commencing installation activities under the Temporary Erosion Control Plan, Respondent shall conclude installation.

7.2.6.3 Within 15 days of the completion of the installation of erosion control measures under the Temporary Erosion Control Plan, Respondent shall submit evidence for the Executive Director's review and approval in the form of a narrative report as described in 7.8.5 below. The Temporary Erosion Control Plan Report shall also show the devices installed, the type of devices installed, and document their impact, if any.

7.3 Removal Plan

7.3.1 Respondent shall submit, as part of the Restoration Plan, a Removal Plan, prepared by a qualified Specialist approved pursuant to Section 7.1.2. The Removal Plan shall include a description of the location, identity, and proposed plan for the removal of all physical items resulting from Unpermitted Development to be removed from the Properties, including, but not limited to, the items specifically identified in Sections 4.10, with the exception of those items required to be provided to the public as part of the Public Amenities Plan and Public Access Deed Restriction in section 13, including the Public Viewing Area and the Public Parking Area.

7.3.2 Respondent shall describe in detail the sequence of work, including whether work will be undertaken and/or completed in distinguished sections of the Properties at a time and how the sections will be divided and separated from the rest of the Restoration Areas while work is in progress. The Removal Plan shall clearly specify when removal activities shall be undertaken and how long each stage of removal work is expected to last.

7.3.3 The Removal Plan shall identify the location of the disposal site(s) for the disposal of all materials removed from the Properties and all waste generated during restoration activities pursuant to this Consent Order. If a disposal site is located in the Coastal Zone and is not an existing sanitary landfill, a Coastal Development Permit shall be required for such disposal. All hazardous waste must be disposed of at a suitable licensed disposal facility.

7.3.4 The Removal Plan shall indicate that removal activities shall not disturb areas outside of the Restoration Area.

7.3.5 Measures for the restoration of any area disturbed by the removal activities shall be included within the Revegetation Plan, including any further removal, temporary erosion

control, regrading, and/or revegetation measures that are required to address the additional disturbance.

7.3.6 The Removal Plan shall identify all mechanized equipment that could be used in any phase of the removal and clearly describe how it will be used.

7.3.7 The Removal Plan shall include the following deadlines:

7.3.7.1 Within 15 days of the completion of the implementation of the Temporary Erosion Control Plan, Respondent shall initiate removal of the physical items related to the Unpermitted Development, with the exception of removal of the unpermitted building northeast of the restaurant, including that unpermitted building's unpermitted attached deck. Respondent shall not remove that building unless and until Respondent has received Coastal Act authorization to replace it with a unit of employee housing on the Rocky Point Property.

7.3.7.2 Within 60 days of commencing the implementation of the Removal Plan, all removal activities shall be completed.

7.3.7.3 Within 15 days of the completion of the removal of all unpermitted items, Respondent shall submit evidence, for the Executive Director's review and approval, in the form of a narrative report as described in 7.8.5 below, showing that the removal has been completed pursuant to the approved Restoration Plan.

7.4 Invasive Plant Control Plan

7.4.1 The Invasive Plant Control Plan shall establish the standards to remove, control and reduce the presence of non-native plant species within the Restoration and Mitigation Areas for the duration of the Restoration Plan. This plan shall be designed to reach, by the conclusion of the monitoring period identified in Section 7.8, and maintain past the end of the monitoring period, non-native and invasive plant coverage that is consistent with the performance standards identified in Section 7.6.3. Respondent shall commence implementation of the Invasive Plant Control Plan prior to any grading operations on the Properties. The Invasive Plant Control Plan shall include:

7.4.1.1 Measures to remove non-native and invasive species outside the Restoration Area and Mitigation Area if the Specialist or the Executive Director determines that such invasive species could impact, supplant, or limit the success of the native plantings within the Restoration and Mitigation Areas. These non-native and invasive plants include those species listed as Moderate to High risk by the California Invasive Plant Council.

7.4.1.2 Measures to control non-native and invasive species, including but not limited to fallowing, mulching, mowing multiple times per year, grow and kill cycles, and solarization.

7.4.1.3 Periodic planting of native species, consistent with the approved plant list.

7.4.1.4 Description of an adaptive management approach that responds to potential adverse conditions as they occur, and which could include experimentation to ascertain barriers to project success.

7.4.2 The Invasive Plant Control Plan shall include the following deadlines:

7.4.2.1 Within 15 days of the completion of the of the implementation of the removal plan, Respondent shall commence removing invasive and non-native vegetation under the Invasive Plant Control Plan.

7.4.2.2 Within 60 days of commencing the implementation of the Invasive Plant Control Plan, Respondent shall complete the initial removal of invasive and non-native vegetation from the Restoration and Mitigation Areas.

7.4.2.3 Respondent shall repeat the removal of invasive and non-native vegetation according to the Invasive Plant Control Plan throughout the implementation of the Restoration Plan and the Monitoring Plan as required to meet the performance standards identified in Section 7.6.3. Removal of invasive and non-native vegetation according to the Invasive Plant Control Plan shall occur prior to any grading that shall occur pursuant to this Consent Order.

7.4.2.4 Within 15 days of the completion of the initial removal of invasive and non-native vegetation from the Restoration and Mitigation Areas, Respondent shall submit evidence, for the Executive Director's review and approval, in the form of a narrative report as described in 7.8.5 below, showing that the removal of invasive and non-native vegetation has been completed pursuant to the approved Restoration Plan.

7.5 Remedial Grading Plan

7.5.1 The Restoration Plan shall include a Remedial Grading Plan prepared by a qualified Specialist approved pursuant to Section 7.1.2 above, that will describe all measures necessary to return the Restoration Areas to the original, pre-violation topography.

7.5.2 The Remedial Grading Plan shall include a narrative description that demonstrates how the proposed remedial grading will restore the Restoration Areas to the pre-violation topography. If fill materials are to be used, the narrative shall discuss which fill materials will be used, how much of each type of material will be used, and the differences and similarities between the fill materials and existing materials located in the corresponding portions of the Restoration Areas.

7.5.3 If historic data or topographical maps are not available for this location, Respondent

shall propose an approximation of the topography which existed in the area prior to the Unpermitted Development based on undisturbed slopes in the area, for the review and approval of the Executive Director. If an approximation is used, the Specialist shall submit in writing that the proposed approximation is the most accurate depiction of what the topography looked like prior to the occurrence of the Unpermitted Development. If it is determined by the Specialist that a different topography will result in a more successful restoration and will benefit coastal resources, the Specialist may propose a different topography to meet these goals.

7.5.4 The Remedial Grading Plan shall include sections showing original and finished grades, and a quantitative breakdown of grading amounts (cut/fill), drawn to scale with contours that clearly illustrate, as accurately as possible, the pre-violation topography and the current, unpermitted topography. The Remedial Grading Plan shall demonstrate how the proposed remedial grading will restore impacted areas to their original, pre-violation topography. The Remedial Grading Plan shall identify the source and date for all of the data used to produce this information.

7.5.5 The Remedial Grading Plan shall state that remedial grading activities undertaken pursuant to the Restoration Plan shall not disturb areas outside of the Restoration Areas. Prior to initiation of any activities resulting in physical alteration of the Properties, the disturbance boundary shall be physically delineated in the field using temporary measures identified in Section 7.1.6, above.

7.5.6 The Remedial Grading Plan shall include the following deadlines:

7.5.6.1 Within 15 days of completing the initial removal of invasive and non-native vegetation under the Invasive Plant Control Plan, Respondent shall begin implementation of the Remedial Grading Plan.

7.5.6.2 Within 45 days of commencing implementation of the remedial grading activities, Respondent shall complete implementation of the Remedial Grading Plan.

7.5.6.3 Within 15 days of the completion of the implementation of the Remedial Grading Plan Respondent shall submit evidence, for the Executive Director’s review and approval, in the form of a narrative report as described in 7.8.5, below, showing that the remedial grading has been completed pursuant to the approved Restoration Plan.

7.6 Revegetation Plan

7.6.1 The Restoration Plan shall include a Revegetation Plan prepared by a qualified Specialist, approved pursuant to Section 7.1.2 above, that will describe the measures necessary to revegetate the Restoration Areas, as approximately shown in Exhibit 3, and the Mitigation Areas, as approximately shown in Exhibit 4, such that these areas have a similar plant density, total cover and species composition as that typical of

undisturbed habitat in the surrounding area and based on the reference site(s), pursuant to Section 7.6.3.

7.6.2 The Revegetation Plan shall include a detailed description of the methods that shall be utilized to restore the Restoration Area. The Revegetation Plan shall include detailed descriptions, including graphic representations, narrative reports, and photographic evidence, as necessary. The Revegetation Plan shall demonstrate that the Restoration Area will be revegetated using plant species endemic to and appropriate for the location of the Properties.

7.6.3 The Revegetation Plan shall identify the natural habitat types that are the model for the restoration and describe the desired relative abundance of particular species in each vegetation layer. This section shall explicitly lay out the restoration goals and objectives for the restoration based on that model. The Revegetation Plan shall be based on one or more reference sites specific to the habitat type upon which the Unpermitted Development occurred. The reference sites shall be used as models for the restoration. The reference sites shall be areas not disturbed by development and may be located on-site or, if suitable sites do not exist on the Properties, as close as possible to the Restoration Areas, so long as the habitat type is the same as that on the Properties. The Revegetation Plan shall include a detailed description of the reference sites, including rationale for selection, location, soil type, and plant species compositions, distributions, and densities. The reference sites shall be located as close as possible to the Restoration Areas, shall be reasonably similar in all relevant respects, and shall provide the standard for measuring success of the restoration under these Consent Orders.

7.6.3.1 The Revegetation Plan shall explicitly state the restoration goals and objectives for revegetation based upon the characteristics of the reference sites and upon information from scientific literature. Based on these goals, the Revegetation Plan shall identify the species that are to be planted (plant “palette”) and provide a rationale for and description of the size and number of container plants, seed mix, the rate and method of seed application, and the method of planting. The Revegetation Plan shall indicate that plant propagules and seeds must come from local, native stock of Monterey County. If plants, cuttings, or seeds are obtained from a nursery, the nursery must certify that they are of local origin (this section of Big Sur coast) and are not cultivars. The Revegetation Plan shall provide specifications for preparation of nursery stock. Technical details of planting methods (e.g., spacing, mycorrhizal inoculation, etc.) shall be included. Respondent shall not employ non-native plant species, which could supplant native plant species in the Restoration Area.

7.6.3.2 The Revegetation Plan shall contain performance standards based upon the approved reference sites. The performance standards shall identify that ‘x’ native species appropriate to the habitat should be present, each with at least ‘y’ percent cover or with a density of at least ‘z’ individuals per square meter. The

Revegetation Plan shall include a description of what constitutes restoration success, in sufficient detail to enable an independent specialist to duplicate it.

7.6.3.3 The Revegetation Plan shall include a map showing 1) the type, size, and location of all plant materials that will be planted; 2) the location of all non-native and/or invasive plants to be removed; 3) the topography of all other landscape features on the site; and 4) photograph locations, consistent with Section 7.1.3 that will provide reliable photographic evidence for annual monitoring reports, as described in Section 7.8 below.

7.6.4 The Revegetation Plan shall include a schedule for installation of plants, removal of non-native plants, and completion of revegetation on the Properties. The Specialist shall recommend removal of non-natives outside the Restoration Areas if he/she determines that such non-natives could impact or limit the success of the native plantings within the Restoration Areas.

7.6.4.1 The revegetation schedule shall include specific time periods and deadlines, including identifiable interim goals for planting, other revegetation activities, and additional non-native species removal work spread out over the time period established in this section.

7.6.4.2 Respondent is responsible for ensuring the ongoing survival of the plantings, shall undertake measures necessary to ensure the success of such plantings, and shall replace any dead or dying plants with native plants approved through this Revegetation Plan.

7.6.4.3 The Revegetation Plan shall specify that non-native vegetation removal shall occur year-round, including on a monthly basis during the rainy season (November through April) for the duration of the restoration project.

7.6.5 The Revegetation Plan shall describe the proposed use of artificial inputs, such as irrigation, fertilizer, or herbicides, including the full range of amounts of the inputs that may be utilized. The minimum amount necessary to support the establishment of the plantings for successful restoration shall be utilized. No permanent irrigation system is allowed in the Restoration Areas. Temporary above ground irrigation to provide for the establishment of plantings is allowed for a maximum of three (3) years or until the revegetation has become established, whichever comes first. If, after the three (3) year time limit, the vegetation planted pursuant to the Revegetation Plan has not become established, the Executive Director may, upon receipt of a written request from Respondent, allow for the continued use of the temporary irrigation system. The written request shall describe the need for and duration of the proposed extension.

7.6.6 The Revegetation Plan shall include the following deadlines:

7.6.6.1 Within 15 days of completing implementation of the Remedial Grading Plan,

Respondent shall begin implementation of the Revegetation Plan. The schedule/timeline of activities in the Restoration Plan shall be in accordance with the deadlines in these Consent Orders and shall be in accordance with the ideal planting seasons.

7.6.6.2 Within 60 days of commencing implementation of activities under the Revegetation Plan, Respondent shall complete implementation of all planting activities under the Revegetation Plan.

7.6.6.3 Within 15 days of the completion of all revegetation activities, Respondent shall submit evidence, for the Executive Director's review and approval, in the form of a narrative report as described in Section 7.8.5, below, demonstrating that the revegetation has been completed pursuant to these Consent Orders and the approved Restoration Plan.

7.6.6.4 If the Specialist recommends planting to occur at a certain time of year beyond deadlines set forth herein to benefit from natural rainfall and avoid the need to plant during the drier summer months, the Executive Director may, at the written request of Respondent, extend the deadlines as set forth in Section 19.0 of these Consent Orders in order to achieve optimal growth of the vegetation.

7.7 Mitigation Plan

7.7.1 Within 90 days of the effective date of these Consent Orders, Respondent shall submit, for review and approval of the Executive Director, a Mitigation Plan prepared by a qualified Specialist, approved pursuant to Section 7.1.2 above, that will describe the measures necessary to mitigate for the permanent and temporal loss of native habitat in the Restoration Areas on the Properties. The Mitigation Plan shall be prepared and implemented consistent with all the terms of the Restoration Plan.

7.7.2 The Mitigation Plan shall contain a map overlain with the dimensions of the Restoration Areas and the dimensions of each area where mitigation activities will occur ("the Mitigation Areas." Respondent shall additionally provide the aerial extent of each element calculated in square footage, as approximately shown at Exhibit 4.

7.7.3 Mitigation shall include the following, as approximately shown on Exhibit 4: 1) restoration of the area seaward of the restaurant on the Rocky Point Property and the County Property as shown on Exhibit 10, as well as removal of all invasive Monterey Cypresses in that area; 2) removal of permitted lighting along the bluffs; and 3) removal of wire on the bluff trail below the restaurant.

The Mitigation Plan shall also include an Invasives Removal Element, as approximately shown at Exhibit 10, which shall include 4) removal of all Pride of Madera (Echium) and Geranium throughout the Rocky Point property; 5) removal of Eucalyptus trees along the driveway on County property and on the Adjacent Private Property, as

approximately shown on Exhibit 4, after obtaining permission from the County per Section 16.0 of these Consent Orders; 6) removal of all invasive plants within 8 feet of both sides of the road on the County property; and 7) removal of all invasive plants in the area of the unpermitted stairway following removal of the stairway; 8) removal of all invasive plants in the area of the unpermitted decks at the northwest of the restaurant following their removal; and 9) removal of all invasive plants in the area of the woodchips and planters seaward of the restaurant building following their removal.

7.7.4 The Mitigation Plan shall indicate that mitigation activities carried out shall be consistent with the requirements of the Restoration Plan, including, but not limited to, requirements for the protection of avian species; the type, composition, and location of planting; and monitoring, with the exception of the Invasives Removal Element described below.

7.7.5 The Invasives Removal Element shall be consistent with the requirements of the Restoration Plan, however, only initial revegetation immediately following invasives removal is required, and monitoring shall only be required in order to ensure that the invasive plants do not grow back during the five year period.

7.7.6 The Mitigation Plan shall include the following deadlines:

7.7.6.1 Within 30 days of the effective date of these Consent Orders, Respondent shall submit the qualifications of the proposed Specialist(s) for the Executive Director's review and approval.

7.7.6.2 Within 90 days of the effective date of this Consent Order, Respondent shall submit, for review and approval of the Executive Director, the Mitigation Plan, including the methods for conducting the habitat survey of the eucalyptus and Monterey cypress trees. Respondent shall also submit their proposed methods for recommending which Monterey cypress trees may be too close to the bluff edge to safely remove.

7.7.6.3 Within 15 days of the approval of the Mitigation Plan by the Executive Director and any other required approvals consistent with 7.1.13, Respondent shall commence implementation of the Mitigation Plan.

7.7.6.4 Respondent shall complete the mitigation activities in compliance with the deadlines of the Restoration Plan, above, and shall complete implementation of the Mitigation Plan no later than completing the implementation of the Restoration Plan.

7.7.6.5 Within 15 days of the completion of the implementation of the Mitigation Plan Respondent shall submit evidence, for the Executive Director's review and approval, in the form of a narrative report as described in 7.8.5, below, showing that the mitigation activities have been completed pursuant to the approved Restoration Plan.

7.8 Monitoring Plan

7.8.1 The Restoration Plan shall include a Monitoring Plan prepared by a qualified Specialist, approved pursuant to Section 7.1.2 above, that will provide for monitoring the Restoration Area and Mitigation Area over a period of, at a minimum, 5 years from the completion and full implementation of the Restoration Plan to ensure successful restoration and mitigation.

7.8.2 The Monitoring Plan shall describe the monitoring and maintenance methodology, including sampling procedures, sampling frequency, and contingency plans to address potential problems with restoration activities or unsuccessful restoration of the Restoration Area and Mitigation Area.

7.8.3 The Monitoring Plan shall include a site survey showing the Restoration Area and Mitigation Area, the areas of revegetation, and specific photo points that will be used for the annual reports and site visits described below.

7.8.4 The Monitoring Plan shall specify that the Specialist shall conduct at least 4 site visits annually for the duration of the monitoring period for the purpose of inspecting and maintaining, at a minimum, the following: all erosion control measures; non-native species eradication; trash and debris removal; and the health and abundance of original and/or replacement plantings planted pursuant to these Consent Orders and consistent with the Revegetation Plan. It is Respondent's obligation to ensure a successful restoration that will meet the established success criteria, which may necessitate more site visits than required herein.

7.8.5 Respondent shall submit no later than December 31 of the first year of monitoring and subsequently on an annual basis and during the same one-month period of each year for at least 5 years from the completion of the revegetation phase of the Restoration Plan, for the review and approval of the Executive Director, a monitoring report prepared by the Specialist that evaluates compliance with the approved Restoration Plan. These reports shall also include photographs taken during the periodic site inspections from the same pre-designated locations as identified on the site plan submitted pursuant to Section 7.1.3, demonstrating the success of the restoration. The locations from which the photographs are taken shall not change over the course of the monitoring period unless recommended changes are approved by the Executive Director, pursuant to Section 20.0 of these Consent Orders.

7.8.6 If periodic inspections or the monitoring reports indicate that the restoration project or a portion thereof is not in conformance with the Restoration Plan or these Consent Orders, or has failed to meet the goals and/or performance standards specified in the Restoration Plan, Respondent shall submit a revised or supplemental Restoration Plan ("Revised Restoration Plan") for review and approval by the Executive Director.

7.8.7 The Revised Restoration Plan shall be prepared by the Specialist, approved by the

Executive Director, and shall specify measures to correct those restoration activities that have failed or are not in conformance with the original, approved Restoration Plan. The Executive Director will then determine whether the Revised Restoration Plan must be processed as a modification of these Consent Orders, a new Restoration Order, or a CDP. After the Revised Restoration Plan has been approved, these measures, and any subsequent measures necessary to carry out the original, approved Restoration Plan, shall be undertaken by Respondent as required by the Executive Director until the goals of the original, approved Restoration Plan have been met. Following Respondent's full implementation of the Revised Restoration Plan, the duration of the monitoring period shall be extended for a period of time equal to that during which the project remained out of compliance, but in no case less than two annual reporting periods.

7.8.8 At the end of the five-year monitoring period (or other duration, if the monitoring period is extended pursuant to Section 7.8.6), Respondent shall submit, for the review and approval of the Executive Director, a final detailed report prepared by the Specialist that documents the successful implementation of the Restoration Plan. If the Executive Director determines from this final report that the restoration has in part, or in whole, been unsuccessful, based on the requirements of the approved Restoration Plan, Respondent shall submit a Revised Restoration Plan, in accordance with the requirements of Section 7.8.6, and the monitoring program shall be revised accordingly.

7.8.9 The Monitoring Plan shall include the following deadlines:

7.8.9.1 Within 90 days of the effective date of these Consent Orders, Respondent shall submit, for review and approval of the Executive Director, the Monitoring Plan.

7.8.9.2 The monitoring period shall begin immediately upon the full implementation of the Restoration and Mitigation Plans and shall extend for a period of, at a minimum, 5 years.

7.8.9.3 Respondent shall submit no later than December 31 of the first year of monitoring and subsequently on an annual basis and during the same one-month period of each year for at least 5 years from the completion of the revegetation phase of the Restoration Plan, for the review and approval of the Executive Director, a monitoring report.

7.8.9.4 At the end of the five-year monitoring period (or other duration, if the monitoring period is extended pursuant to Section 7.8.6), Respondent shall submit, for the review and approval of the Executive Director, a final detailed report prepared by the Specialist that documents the successful implementation of the Restoration Plan.

ADDITIONAL PROVISIONS COMMON TO BOTH ORDERS

8.0 SUBMITTAL OF DOCUMENTS

All documents and funds submitted to the Commission pursuant to these Consent Orders shall be sent to:

	With a copy sent to:
California Coastal Commission	California Coastal Commission
Attn: Rob Moddelmog	Attn: Ellie Oliver
455 Market Street, Suite 300	725 Front Street, Suite 300
San Francisco, CA 94105	Santa Cruz, CA 95060
Robert.Moddelmog@coastal.ca.gov	Ellie.Oliver@coastal.ca.gov

9.0 FINDINGS

These Consent Orders are issued on the basis of the findings adopted by the Commission, as set forth in the document entitled "Staff Report: Recommendations and Findings for Consent Cease and Desist Order, Consent Restoration Order, and Consent Administrative Civil Penalties." The Commission has authorized the activities required in these Consent Orders and has determined them to be consistent with the resource protection policies set forth in Chapter 3 of the Coastal Act if carried out in compliance with the terms of these Consent Orders.

10.0 EFFECTIVE DATE AND TERMS OF THESE CONSENT ORDERS

The effective date of these Consent Orders is the date the Commission votes to approve these Consent Orders. These Consent Orders shall remain in effect permanently unless and until rescinded by the Commission.

11.0 COMMISSION JURISDICTION

The Commission has jurisdiction over resolution of these Coastal Act violations pursuant to PRC Sections 30810 and 30811, and jurisdiction to issue administrative civil penalties under PRC Sections 30821 and 30821.3. In light of the desire to settle these matters, Respondent agrees not to, and shall not, contest the Commission's jurisdiction to issue or enforce these Consent Orders at a public hearing or any other proceeding by or before the Commission or any other governmental agency, any administrative tribunal, or any court of law.

12.0 RESOLUTION OF MATTER VIA SETTLEMENT

In light of the intent of the parties to resolve these matters in settlement, Respondent have not submitted a "Statement of Defense" form as provided for in Sections 13181 and 13191 of Title 14 of the California Code of Regulations ("14 CCR") and have agreed not to contest the legal and factual bases for, the terms of, or the issuance of these Consent Orders, including the

allegations of Coastal Act violations contained in the Notice of Intent to Commence Cease and Desist and Restoration Order and Administrative Penalty Action Proceedings dated November 17, 2019, as well as in the Amended Notice of Intent to Commence Amended Notice of Intent to Commence Cease and Desist Order, Restoration Order, and Administrative Penalty Proceedings dated November 8, 2022. Specifically, Respondent has agreed not to, and shall not, seek a stay pursuant to PRC Section 30803(b) nor contest the issuance or enforcement of these Consent Orders at a public hearing or any other proceeding by or before the Commission or any other governmental agency, any administrative tribunal, or any court of law.

13.0 SETTLEMENT/COMPLIANCE OBLIGATION

In light of the intent of the parties to resolve these matters in settlement, which includes settlement of financial liability pursuant to PRC sections 30821 and 30821.3, Respondent has agreed to, and the Commission hereby orders Respondent to, submit and implement Public Amenities for the Rocky Point Property, and to record vertical and lateral Public Access Easements on the Rocky Point Property, a Deed Restriction, and a Conservation Easement, and to submit and implement a Prop 70 Compliance Plan and a Vehicular Entrance Safety Plan.

13.1 Public Amenities Plan

Within 60 days of issuance of these Consent Orders, Respondent shall submit, for the review and approval of the Executive Director, a proposed Public Amenities Plan ("Amenities Plan"). The Amenities Plan shall provide the means for and ensure the continued availability of public access to, on, and across the Rocky Point Property and the County Property, so that the general public may access and use the current public access resources and the new amenities described in the Amenities Plan and as approximately shown in Exhibits 5, 6, and 7. Respondent shall also provide and maintain all public amenities required by this Amenities Plan. The Amenities Plan shall include the following: 1) Public Restroom Element, 2) Public Parking Element, 3) Electric Vehicle Charger Element, 4) Trail Consolidation Element, 5) Public Viewing Area Element, 6) Sign Element, 7) Employee Training Element, and 8) Plastics Reduction Element. It is the sole responsibility of Respondent to design and, upon approval by the Executive Director and/or necessary approvals through a CDP, successfully implement and maintain the Amenities Plan. The Amenities Plan shall include full public access to and across the road on the County Property from Highway One to the Rocky Point Property and to and across the parking lot so that the public may use the designated public parking spaces, the public restroom, the public viewing area, and the trails, all described below.

13.2 Restroom Element

13.2.1 As part of the Amenities Plan, Respondent shall submit a Restroom Plan for the provision of a public restroom facility on the Rocky Point Property, with a

minimum of four restroom stalls and two wash stations. A trailer facility would be acceptable. At least two of the stalls must meet the accessibility standards of the Americans with Disabilities Act ("ADA").

13.2.2 Within 2 years, Respondent shall propose to replace the restrooms required above with a permanent restroom facility. If such a restroom facility is proposed to be located within a larger building, the restrooms shall have doors that allow for direct entrance to the restrooms from outside, such that the public does not have to walk into and through other indoor areas before finding the public restrooms. If the restroom is proposed to be located in a standalone building, it shall comply with the viewshed policies of the Monterey County LCP. Respondent shall submit the proposal to the Executive Director for their approval.

13.2.3 The Restroom Plan shall include a schedule and standards for the maintenance and cleaning of the restroom to ensure health and safety. At a minimum, the restroom facility shall be cleaned at the same frequency as the restroom facilities in the restaurant, ensuring that the restrooms and wash stations are fully stocked with appropriate sanitation products.

13.2.4 Implementation of the Restroom Plan shall comply with the deadlines set forth in Section 13.10, below.

13.3 Public Parking Element

13.3.1 After Respondent removes the unpermitted asphalt and other impermeable paving materials in the lower area that is currently used for parking and which includes the area of the Lateral Public Access Easement and the southern portion of the Vertical Public Access Easement, Respondent shall replace it with permeable pavement such as decomposed granite. Respondent shall also improve other areas of the Lateral Public Access Easement for parking, including with permeable pavement. The area required to be reserved for exclusive public parking use, as approximatelyshown at Exhibit 9. Respondent shall also stripe portions of the Lateral Public Access Easement so as to provide public parking spaces.

13.3.2 The Public Parking Plan shall also include a provision that until the Public Parking Element is implemented, the public may use all parking spaces in the current parking lot.

13.3.4 Respondent shall provide at least 24 total public parking spaces for exclusive use by the public. At least 4 general public parking spaces shall be located immediately adjacent to the public restroom. At least two of these spaces immediately adjacent to the public restroom shall be ADA accessible public parking spaces and two shall be short-term 30-minute public parking.

13.3.4 Implementation of the Public Parking Plan shall comply with the deadlines set forth in Section 13.10, below.

13.4 Electric Vehicle Charger Element

13.4.1 As part of the Amenities Plan, Respondent shall submit an Electric Vehicle Charger Plan that provides for at least 8 (eight) Level 2 Electronic Vehicle (EV) charging stations (including all necessary infrastructure and hook-ups) for exclusive use by the public. The Amenities Plan shall demonstrate that all charging spaces shall include a sign adjacent to it stating that use of the charger and associated parking space is limited to the time required to charge the vehicle. Respondent may also propose to limit the time allowed per vehicle to a shorter time than required to charge the vehicle, but for no shorter than one hour. EV chargers shall not show video or audio advertisements that can be seen or heard from the public viewing area or trails described below.

13.4.2 The EV Charger Plan shall describe, in detail, Respondent's proposed timeline for obtaining all necessary infrastructure upgrades to provide all eight public Level 2 EV Chargers. If necessary, Respondent may propose to stagger the implementation schedule for the full amount of chargers until such time as Respondent has obtained the infrastructure necessary for all eight Level 2 chargers.

13.4.3 The EV Charger Plan shall include a detailed report prepared by an electrical engineer. The electrical engineer shall be approved by the Executive Director prior to submitting their report. The electrical engineer's report shall provide a full analysis and narrative discussion of the existing electrical infrastructure on the Rocky Point Property and the County Property.

13.5 Trail Consolidation Element

13.5.1 As part of the Amenities Plan, Respondent shall submit a Trail Consolidation Plan for the two existing blufftop trails that traverse over the Rocky Point Property and the County Property, which are both approximately shown in Exhibit 7 to these Consent Orders. The purposes of the plan shall be to clearly demarcate the location of the trails so as to protect native vegetation on either side of the trails and to lessen erosion caused by the trails.

13.5.2 These measures shall include: adding a low fence made of poles and ropes, split-rail, or another low-profile, open fence design of no more than three feet high that are no more than two feet in width from each other, removing rocks from the trail, and adding erosion control measures to the trail, such as creating steps in the trail through the use of natural materials, installing water bars, or creating other drainage features.

13.5.3 These measures shall also include installing at least twelve signs, which shall be at least one foot wide, and that are positioned low to the ground near the trail and state “Please Stay on the Trail- Restoration in Progress” or something similar.

13.5.4 Implementation of the Trail Consolidation Plan shall comply with the deadlines set forth in Section 13.10, below.

13.6 Public Viewing Area Element

13.6.1 As part of the Amenities Plan, Respondent shall submit a Public Viewing Area Plan that shall provide for the unpermitted patio area, that was used as additional seating for the restaurant but is now included in the Lateral Public Access Easement as approximately shown at Exhibit 5, and also approximately shown more specifically at Exhibit 9, to be converted into a public viewing area for exclusive public use. This area shall contain at least 5 benches, at least 10 picnic tables, and 3 interpretive signs for the public to enjoy. The benches and tables shall consist of materials, color, and design that are not similar to those of the restaurant tables and chairs in order to make the clear distinction between the restaurant area outside of the Lateral Public Access Easement and the public viewing area. The interpretive signs shall be prepared by a specialist with experience creating interpretive signs that is proposed by Respondent and approved by the Executive Director. The interpretive signs shall be placed in a conspicuous location, visible to both children and adults, and shall minimize impacts to public views of the ocean. The signs shall comply with the requirements of Section 13.7, below. Additionally, the unpermitted stairway between the currently permitted lower concrete deck and the currently unpermitted patio area shall be removed, so as to separate and delineate the private and public areas.

13.6.2 The public viewing area shall comply with the accessibility standards outlined in the Americans with Disabilities Act.

13.6.3 Restaurant services, such as setting tables, taking orders, or delivering food or drinks, are specifically prohibited from occurring in the Public Viewing Area, and such prohibition shall be stated in the Public Viewing Area Plan.

13.6.4 Implementation of the Public Viewing Area Plan shall comply with the deadlines set forth in Section 13.10, below.

13.7 Sign Element

13.7.1 As part of the Amenities Plan, Respondent shall submit a Sign Plan that contains written and graphic plans for all public access related signs and all interpretive signs. Any text included in the signs shall be in, at a minimum, both English and Spanish. For each sign included in the Sign Plan, Respondent shall include a

description of the size of all signs, all additional languages used in the sign text, and the specific text and content of each sign. All signs proposed shall be made of metal and at least 3 x 2 feet. In addition, any other signs located on the Rocky Point Property or within any of the easements across neighboring properties that are owned by Respondent, such as the driveway access easement or the sign easement located on the County Property, shall also be included within the Sign Element to ensure that such signs and the graphics of those signs do not deter or preclude public use of public areas. If it is determined by the Executive Director that any existing signs have the effect of deterring public access to public areas, Respondent shall revise the Sign Plan, accordingly, remove the existing sign(s), and replace them consistent with the approved Sign Plan. Respondent shall not post signs restricting or limiting public access in any way, including 'Private Property' or 'No Trespassing' signs, at or adjacent to the entrance of the restaurant, including at the entrance to and along the driveway on the County Property, or near any employee housing on the Rocky Point Property.

13.7.2 New Public Access Signs

The Sign Plan shall include the design, installation, and maintenance of the new public access signs as listed below. The signs shall meet the specifications below and shall be submitted for the review and approval of the Executive Director. All signs shall be designed to be a consistent size, shape, material, and color with similar signs on public land on the Big Sur Coast, such as those in the region's many state parks. Respondent's sign obligations on County Property are subject to the receipt of any required approvals of Monterey County and Respondent shall make all reasonable efforts necessary to obtain required approvals for these signs by the County. The Sign Plan shall depict the following:

13.7.2.1 A sign within the sign easement near Highway 1. Respondent shall seek approval from Monterey County to place this sign. The sign shall state "Restrooms and Trails Open to the Public. Free Public Parking Available." Respondent shall also include a brown 'Coastal Access' sign with the standard graphic of feet and an arrow.

13.7.2.2 A sign at the western end of the driveway at the entrance to the parking lot stating that public parking is available, with an arrow pointing to it.

13.7.2.3 A sign on each door of the public restrooms stating that the restroom is for public use.

13.7.2.4 A sign at the public restroom showing a map of the Rocky Point Property and the County Property and highlighting the location of the public parking spaces, the public viewing area, and the public trails. This sign shall also include an interpretive guide to the proximate natural landforms and features of this segment of the Big Sur Coast.

13.7.2.5 A sign at the southern and the northern entrances to the trails stating that they are available for public use.

13.7.2.6 A sign at the southwest corner of the parking lot pointing to the entrance of the public viewing area and stating that it is for public use.

13.7.2.7 Each bench and picnic table shall have an engraved plaque on it stating that it is for public use.

13.7.2.8 Within the public parking area, a small sign shall be posted next to each public parking spot explaining that the spot is open to the public.

13.7.3 New Interpretive Signs

In addition to the above requirements, the Sign Plan shall include at least three new interpretive signs placed within the Public Viewing Area, all created by the interpretive sign specialist approved by the Executive Director. The interpretive signs shall include color photos and graphics and each sign shall measure 3’ by 5’. Each interpretive sign shall be located in conspicuous locations visible to both adults and children and shall be placed to minimize the impact to public views of the ocean. The interpretive signs shall provide educational information regarding the area through photographs, diagrams, and text. Each sign shall be unique in design and shall address the following themes:

13.7.3.1 A sign explaining what unique vegetation, habitat, and species exist on and around the Rocky Point Property, including the Smith’s Blue Butterfly and the Black Swift.

13.7.3.2 A sign explaining the rocky intertidal and coastal/marine habitat in the area.

13.7.3.3 A sign explaining the history of the area as used by Native Americans.

13.7.4 Implementation of the Sign Plan shall comply with the deadlines set forth in Section 13.10, below.

13.8 Employee Training Element

13.8.1 As part of the Amenities Plan, Respondent shall submit an Employee Training Plan that shall include a biannual public amenities training seminar for all employees who interact with the public. The seminar shall instruct the employees on how to inform the members of the public of their rights to use the public amenities listed in and required by these Consent Orders, and Respondent shall provide this training to employees into perpetuity. Each year Respondent shall submit a report to the Executive Director for review and approval by December

31 of each year, verifying that the seminar was conducted, listing the titles and number of employees that attended the training, and including the agenda of the seminar. Additionally, each new employee shall be individually instructed upon hiring on the public access amenities required in these Consent Orders, and such individual instruction shall be included in the report for the corresponding reporting period.

13.8.2 Implementation of the Employee Training Plan shall comply with the deadlines set forth in Section 13.10, below.

13.8.3 All employees, including any persons working to provide valet services, whether directly employed by the owner of the Rocky Point Property or not, shall be instructed that no employees may park within the Lateral Public Access Easement, as approximately shown on Exhibit 5, and no vehicles owned or leased by paying guests may be valet parked within the Lateral Public Access Easement.

13.9 Plastics Reduction Element

13.9.1 As part of the Amenities Plan, Respondent shall submit a Plastics Reduction Plan to reduce waste and single-use plastics foodware onsite and for takeout orders for the restaurant or other business into perpetuity. This Plan shall conform with the ReThink Disposable Program (RTDP), Surfrider's Ocean Friendly restaurants (OFR), or a substantially similar program. Respondent shall be responsible for the fees needed to participate in any such program. The success criteria for the Plastics Reduction Plan shall include, at a minimum, the following measures: only reusable foodware is used for onsite dining; straws made out of paper, metal, glass, or naturally occurring materials such as bamboo are only provided upon request; no plastic straws shall be used; no expanded polystyrene is used; no plastic bags are used for takeout or to-go orders; single-use utensils, straws, condiments, and other accessory items are provided only upon request, and shall be made of paper, metal, glass, or naturally occurring materials such as bamboo; beverages are not sold in plastic bottles; and proper recycling practices are followed.

13.9.2 Each year for five years following implementation, Respondent shall submit a report to the Executive Director for review and approval by December 31 of each year, verifying that the success criteria, listed above, have been met.

13.9.3 Implementation of the Plastics Reduction Plan shall comply with the deadlines set forth in Section 13.10, below.

13.10 Public Amenities Plan Deadlines

13.10.1 Within 10 days of the effective date of these Consent Orders, Respondent shall

submit, for review and approval of the Executive Director, the credentials of the specialist(s) who shall prepare the Public Amenities Plan.

13.10.2 Within 90 days of the effective date of these Consent Orders, Respondent shall submit, for review and approval of the Executive Director, the Public Amenities Plan.

13.10.3 Respondent shall complete all work required in the Public Amenities Plan within 180 days of commencing work.

13.10.4 Within 15 days of completion of the implementation of the Public Amenities Plan, Respondent shall submit evidence, for the Executive Director's review and approval, in the form of a narrative report as described in 7.8.5, showing that the activities have been completed pursuant to the approved Public Amenities Plan.

13.11 Public Access Easements

13.11.1 Respondent hereby agrees to execute and record an irrevocable offer to dedicate ("OTD") a lateral Public Access Easement over the Lateral OTD Area, defined below, in form and content approved by the Executive Director, for the purpose of protecting the public access and recreation values present on the Rocky Point Property.

13.11.2 The Lateral OTD Area shall extend across the area as approximately shown at Exhibit 5, and shall include the public parking spaces, the public viewing area, and the public access bluff top trail.

13.11.3 The lateral Public Access Easement shall state that the public has the right to access and use the trails, parking spaces, and public viewing area contained within the Lateral OTD Area. No seawall or similar structure shall be used to keep the blufftop public access trail in place, or to keep the public viewing area or public parking spaces in place, and the existence of said public access amenities shall not be used to justify a seawall or similar structure.

13.11.4 Respondent hereby also agrees to execute and record an irrevocable offer to dedicate a vertical Public Access Easement over the Vertical OTD Area, as approximately shown in Exhibit 6, in form and content approved by the Executive Director, for the purpose of protecting the public access and recreation values present on the Rocky Point Property.

13.11.5 The Vertical OTD Area shall extend over all sections of the driveway and parking lot on the Rocky Point Property as approximately shown on Exhibit 6. The easement shall state that the public has the right to access and pass over the driveway and parking lot, to access the trails and viewpoint, and to use the designated public parking spaces.

13.11.6 The OTD easements shall run with the land in favor of the People of the State of California, binding successors and assignees of Respondent. The offer of dedication shall be irrevocable for a period of 21 years, such a period running from the date of recording.

13.11.7 The recorded documents shall reflect that no development shall occur within the OTD Areas except as otherwise set forth in the conditions of the OTD. In the lateral Public Access Easement, this shall only include a trail, the public viewing area, public parking spaces, and restoration. In the vertical Public Access Easement, this shall only include a roadway and restoration. the OTD shall be recorded free of prior liens and encumbrances (other than existing easements for roads, trails, and utilities) that the Executive Director determines may affect the interest being offered and shall run with the land, binding all successors and assigns.

13.11.8 Within two years of the effective date of these Consent Orders, Respondent shall provide Commission staff with information customarily requested by the Commission to help in the review and approval of the form of the OTD, including a formal metes and bounds legal description and a corresponding graphic depiction of the Rocky Point Property prepared and stamped by a licensed surveyor. Additionally, within 30 days of the effective date of the Consent Orders, Respondent shall also provide a current Preliminary Title Report issued by a licensed title insurance company. Further, within 30 days of such notice from the Executive Director, Respondent shall provide an updated version of the Preliminary Title Report within 30 days of such notice. Commission staff will then provide the proposed document for the OTD.

13.11.9 Respondent shall execute and record the above OTDs within 60 days of receiving the proposed documents for the OTDs from Commission staff.

13.11.10 Within five days of recording the OTDs, Respondent shall submit to the Executive Director a certified copy of the recorded OTDs.

13.11.11 From the date of issuance of these Consent Orders, Respondent shall treat the OTD Areas as if the OTDs had been accepted, and Respondent shall comply with all conditions of the OTD documents from the effective date of these Consent Orders.

13.12 Public Access Deed Restriction

13.12.1 Respondent shall record a Public Access Deed Restriction against title to the Rocky Point Property, in form and content approved by the Executive Director. The purpose of the Deed Restriction shall be to preserve the public's exclusive use and enjoyment of the public amenities listed in Section 13. As such, the

Deed Restriction shall include the following language:

13.12.2 The owner of the Rocky Point Property must operate and maintain the Rocky Point Property consistent with the Public Amenities Plan, required by Section 13 of CCC-02-24-02, and approved by the Executive Director pursuant to their terms and conditions. The public amenities that must be improved and maintained on the property include the public restroom, the public parking area within the Lateral Public Access Easement, eight public electric vehicle chargers, the above-required measures to consolidate the public trails, the public viewing area, public access signs, employee training on the public amenities, and a plastics reduction program.

13.12.3 Failure to operate and maintain the Rocky Point Property consistent with the Consent Orders and approved Public Amenities Plan will constitute a violation of the Consent Orders and Coastal Act and is enforceable as such, and will subject the owner of the Rocky Point Property to stipulated penalties pursuant to Section 14 of these Consent Orders.

13.12.4 This Deed Restriction may not be altered or removed without the approval of the Executive Director of the California Coastal Commission.

13.12.5 The owner of the Rocky Point Property shall not prevent the public from accessing and using the road and trails on the County Property.

13.12.6 Within 60 days of the effective date of these Consent Orders, Respondent shall provide Commission staff with information customarily requested by the Commission to help in the review and approval of the form of the Deed Restriction, including a formal metes and bounds legal description and a corresponding graphic depiction of the Rocky Point Property prepared and stamped by a licensed surveyor. Additionally, upon notice by the Executive Director, Respondent shall also provide a current Preliminary Title Report issued by a licensed title insurance company within 30 days of such notice from the Executive Director. Commission staff will then provide the proposed document for the Deed Restriction.

13.12.7 Within 60 days of receiving the proposed text for the Deed Restriction from Commission staff, Respondent shall record the Deed Restriction on the Rocky Point Property.

13.12.8 Within 5 days of recording the Deed Restriction, Respondent shall submit to the Executive Director a certified copy of the recorded Deed Restriction.

13.13 Conservation Easement

13.13.1 Respondent hereby agrees to execute and record an irrevocable offer to

dedicate an Open Space and Habitat Conservation Easement ("the Conservation OTD") over the Conservation Easement area, defined below and approximately shown in Exhibit 8, in form and content approved by the Executive Director, for the purpose of protecting the habitat values and views present on the Rocky Point Property.

13.13.2 The Conservation OTD Area shall include the blufftop of the Rocky Point Property and shall extend from the mean high tide line up to the Public Viewing Area, and from a point six feet inland of the northwest corner of the Public Viewing Area to the point directly across the Rocky Point Property where the parcel boundary turns to the north, all as approximately shown at Exhibit 8.

13.13.3 The Conservation OTD shall restrict all development in the area other than that necessary to maintain the public trail there, and that necessary to restore the area with native plants. No seawall or similar structure shall be built within the Conservation Easement.

13.13.4 The Conservation OTD shall run with the land in favor of the People of the State of California, binding successors and assignees of Respondent. The offer of dedication shall be irrevocable for a period of 21 years, such a period running from the date of recording.

13.13.5 The recorded documents shall reflect that no development shall occur within the Conservation OTD Areas except as otherwise set forth in the conditions of the OTD. The Conservation OTD shall be recorded free of prior liens and encumbrances (other than existing easements for roads, trails, and utilities) that the Executive Director determines may affect the interest being offered and shall run with the land, binding all successors and assigns.

13.13.6 Within two years of the effective date of these Consent Orders, Respondent shall provide Commission staff with information customarily requested by the Commission to help in the review and approval of the form of the Conservation OTD, including a formal metes and bounds legal description and a corresponding graphic depiction of the Rocky Point Property prepared and stamped by a licensed surveyor. Additionally, upon notice by the Executive Director, Respondent shall also provide a current Preliminary Title Report issued by a licensed title insurance company within 30 days of such notice from the Executive Director. Commission staff will then provide the proposed document for the OTD.

13.13.7 Respondent shall execute and record the above Conservation OTD within 60 days of receiving the proposed documents for the OTD from Commission staff.

13.13.8 Within five days of recording the Conservation OTD, Respondent shall submit to the Executive Director a certified copy of the recorded OTD.

13.13.9 From the date of issuance of these Consent Orders, Respondent shall treat the Conservation OTD Area as if the OTD has been accepted, and Respondent shall comply with all conditions of the OTD documents from the effective date of these Consent Orders.

13.14 **Prop 70 Compliance Plan**

13.14.1 Respondent shall submit and implement a plan to remedy the Permitted Development in Violation of Prop 70. The Prop 70 Compliance Plan shall follow the same standards as the Invasives Removal Element of the Mitigation Plan at Section 7.

13.14.2 The Prop 70 Compliance Plan shall include removing the second water tank from the Water Tank easement. Respondent may elect to also remove the remaining water tank and water line via the same plan. Respondent shall also move the lighted sign advertising “Rocky Point Restaurant” on the County Property adjacent Highway One into a new location within the Sign Easement.

13.15 **Vehicular Entrance Safety Plan**

13.15.1 Respondent shall propose how to ensure that vehicles do not easily roll off the road on the County property near where it meets Highway One, such as through the construction of a small curb or other barrier that minimizes impacts on coastal views, while maximizing public safety.

13.15.2 Respondent shall obtain County approval for, and shall install, a sign near where the road on the County Property meets Highway One that demarcates the road with a name for wayfinding purposes. Respondent shall propose potential names that do not include the phrase ‘Rocky Point’ due to the potential for confusion with a similar coastal road that is already named that in Marin County. In addition and in order to avoid the appearance of the road being private, whatever name the Executive Director approves shall not share any words with any future business on the Rocky Point Property.

13.15.3 Respondent shall also install, or at a minimum pay for the installation of, two brown ‘Coastal Access’ signs with the standard graphic of feet and an arrow, one each on either side of Highway One, so that the public can more easily find the entrance to the road on the County Property.

14.0 STIPULATED PENALTIES

Respondent’s strict compliance with these Consent Orders is required. Failure to comply with any term or condition of these Consent Orders, including any deadline contained herein, unless the Executive Director grants an extension under Section 20.0, will constitute a violation

of these Consent Orders and shall result in Respondent being liable for stipulated penalties in the amount of $1,000 per day per violation. Respondent shall pay stipulated penalties within 10 days of receipt of written demand by the Executive Director, regardless of whether Respondent subsequently comply. If Respondent violate these Consent Orders, nothing in this agreement shall be construed as prohibiting, altering, or in any way limiting the ability of the Commission to seek any other remedies available, including the imposition of civil penalties and other remedies pursuant to PRC Sections 30820, 30821, 30821.3, 30821.6, and 30822, as a result of the lack of compliance with these Consent Orders.

15.0 SETTLEMENT OF CLAIMS

The Commission and Respondent agree that these Consent Orders settle the Commission's monetary claims for relief from Respondent for the violations of the Coastal Act specifically enumerated in Section 4.10, above, occurring prior to the date of these Consent Orders, specifically including claims for civil penalties, fines, or damages under the Coastal Act, including under PRC Sections 30805, 30820, 30821, 30821.3, and 30822, provided that the Restoration Plan discussed in Section 7.0 and Settlement/Compliance Obligation of Section 13.0 are fully implemented and the obligations of these Consent Orders are fully satisfied, and with the exception that, if Respondent fail to comply with any term or condition of these Consent Orders, the Commission may seek monetary or other claims for both the underlying violations of the Coastal Act and for the violation of these Consent Orders. In addition, these Consent Orders do not limit the Commission from taking enforcement action due to Coastal Act violations on the Properties beyond those that are the subject of the violations of the Coastal Act enumerated in Section 4.10.

16.0 SITE ACCESS

16.1 Respondent shall provide Commission staff and staff of any agency having jurisdiction over the work being performed under these Consent Orders with access to the Rocky Point Property. Nothing in these Consent Orders is intended to limit in any way the right of entry or inspection that any agency may otherwise have by operation of any law. The Commission staff and other relevant agency staff may enter and move freely about the following areas of the Rocky Point Property: (1) any areas on which the violations are located, (2) any areas where work is to be performed pursuant to these Consent Orders or pursuant to any plans adopted pursuant to these Consent Orders, (3) any areas necessary in order to view the areas where work is being performed pursuant to the requirements of these Consent Orders, (4) any areas where evidence of compliance with these Consent Orders may lie for purposes including but not limited to, inspecting records, logs and contracts relating to the Properties; and overseeing, inspecting, documenting, and reviewing the progress of Respondent in carrying out the terms of these Consent Orders.

16.1.1 Respondent shall notify and coordinate with the owners of the County Property and Adjacent Private Property regarding restoration, mitigation, and trail improvement activities, including work schedule, and shall provide to the

Executive Director, at least 15 days prior to the start date specified in the approved Restoration Plan, written confirmation from the owners of said properties that: 1) Respondent and other parties, including Commission staff, have permission to access and perform restoration, mitigation, and trail improvement work on any portion of said properties onto which Restoration Areas extend, and 2) they will not impede Respondent from undertaking the activities required by these Consent Orders.

16.1.2 If at any point prior to Respondent's completion of the obligations set forth in these Consent Orders, Respondent are denied permission to access or perform restoration, mitigation, or trail improvement work on any part of the County Property or the Adjacent Private Property, Respondent' obligations under these Consent Orders shall remain in effect. In such a situation, Respondent shall:

16.1.2.1 Refrain from accessing or performing work on said properties and notify the Executive Director immediately.

16.1.2.2 Utilize all reasonable efforts in a timely fashion to re-secure permission to access and complete restoration activities on said properties.

16.1.2.3 Continue to promptly complete restoration activities in all other Restoration Areas, in accordance with the deadlines prescribed in these Consent Orders.

17.0 GOVERNMENT LIABILITY

Neither the State of California, the Commission, nor its employees shall be liable for injuries or damages to persons or property resulting from acts or omissions by Respondent in carrying out activities pursuant to these Consent Orders, nor shall the State of California, the Commission or its employees be held as a party to any contract entered into by Respondent or their agents in carrying out activities pursuant to these Consent Orders.

18.0 SUCCESSORS AND ASSIGNS

These Consent Orders shall run with the land, binding Respondent, including successors in interest, heirs, and assigns of Respondent, as well as future owners of the Properties. Respondent agrees that they shall provide notice to all successors in interest, heirs, assigns, and potential purchasers of the Rocky Point Property of any remaining obligations under these Consent Orders. These Consent Orders bind the parties listed in Section 5.0, and Respondent is responsible for the work required by these Consent Orders. These Consent Orders constitute both administrative orders issued to Respondent and a contractual obligation between Respondent and the Commission, and therefore shall remain in effect and binding upon Respondent until all terms are fulfilled, regardless of whether Respondent owns or lives on the Rocky Point Property.

19.0 REVISION OF DELIVERABLES

The Executive Director may require revisions to deliverables under these Consent Orders, and Respondent shall revise any such deliverable consistent with the Executive Director's specifications and resubmit them for review and written approval by the Executive Director by the deadline established by the modification request from the Executive Director.

20.0 MODIFICATION OF DEADLINES

Prior to the expiration of any of the deadlines established by these Consent Orders, Respondent may request from the Executive Director an extension of any such unexpired deadline. Such a request shall be made in writing ten (10) days in advance of the deadline and directed to the Executive Director, care of Rob Moddelmog, at both the address for the Commission's San Francisco office identified in Section 8.0 and the electronic mail address. The Executive Director may grant an extension of deadlines upon a showing of good cause, if the Executive Director determines that Respondent has diligently worked to comply with their obligations under these Consent Orders but cannot meet deadlines due to unforeseen circumstances beyond their control. A violation of deadlines established pursuant to these Consent Orders will result in stipulated penalties, as provided for in Section 13 above.

21.0 SEVERABILITY

Should any provision of these Consent Orders be found invalid, void, or unenforceable, such illegality or unenforceability shall not invalidate the whole, but these Consent Orders shall be construed as if the provision(s) containing the illegal or unenforceable part were not a part hereof.

22.0 MODIFICATION OR AMENDMENT OF THESE CONSENT ORDERS

Except as provided in Section 19.0 of these Consent Orders, and for minor, immaterial matters upon mutual written agreement of the Executive Director and Respondent, Respondent agrees not to modify these Consent Orders indirectly by seeking a permit or an amendment to an existing permit that would purport to authorize: (i) any activity that is inconsistent with the terms and intent of these Consent Orders or (ii) any forbearance from any obligation under these Consent Orders.

23.0 GOVERNMENT JURISDICTION

These Consent Orders shall be interpreted, construed, governed, and enforced under and pursuant to the laws of the State of California.

24.0 NO LIMITATION OF AUTHORITY

24.1 Except as expressly provided herein, nothing in these Consent Orders shall limit or restrict the exercise of the Commission's enforcement authority pursuant to Chapter 9 of

the Coastal Act (PRC Sections 30800 to 30824), including the authority to require and enforce compliance with these Consent Orders and the authority to take enforcement action for Coastal Act violations beyond those that are specified in Section 4.10 of these Consent Orders.

24.2 Correspondingly, Respondent has entered into these Consent Orders and waived their right to contest the factual and legal bases for issuance of these Consent Orders, and the enforcement thereof according to its terms. Respondent has agreed not to contest the Commission's jurisdiction to issue and enforce these Consent Orders.

25.0 INTEGRATION

These Consent Orders constitute the entire agreement between the parties and may not be amended, supplemented, or modified except as provided in these Consent Orders.

26.0 CERTIFICATION OF AUTHORITY

The person who signs this document on behalf of Respondent attests that he or she has the legal authority to bind Respondent and represents that the aforementioned party owns the Rocky Point Property.

27.0 CERTIFICATION OF REVIEW

Respondent acknowledges, represents, and declares that they have carefully read these Consent Orders, know the content and execute the same voluntarily and without duress or pressure. Respondent and their respective counsel have reviewed these Consent Orders, and the rule of construction to the effect that any ambiguities in an agreement are to be resolved against the drafting party will not be employed in the interpretation of these Consent Orders. Respondent understands that their consent is final and stipulate to issuance of these Consent Orders by the Commission.

IT IS SO STIPULATED AND AGREED
On Behalf of Respondent:

Signature: _____ 05/17/2024
Date

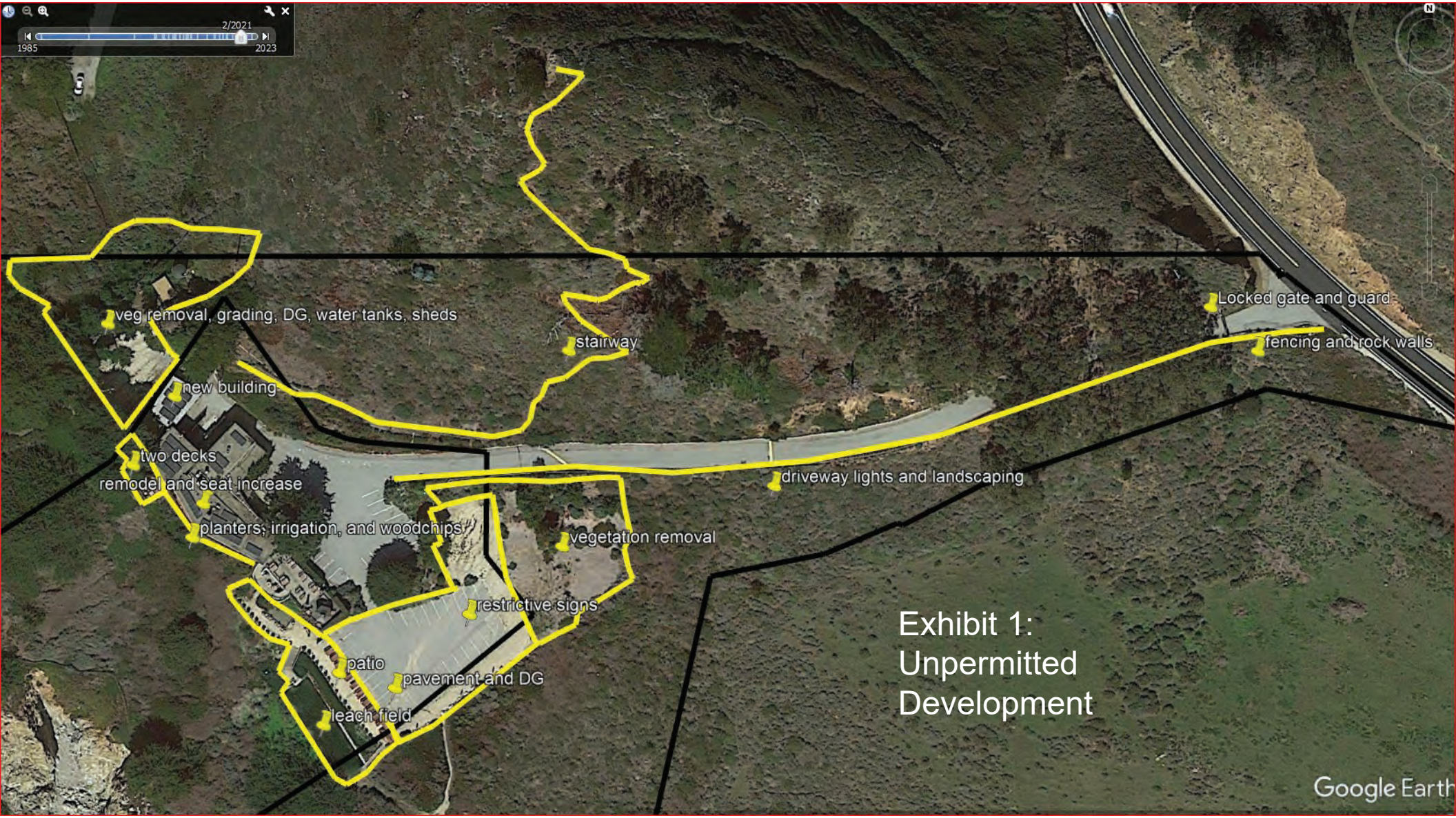
Name: Patrice Pastor

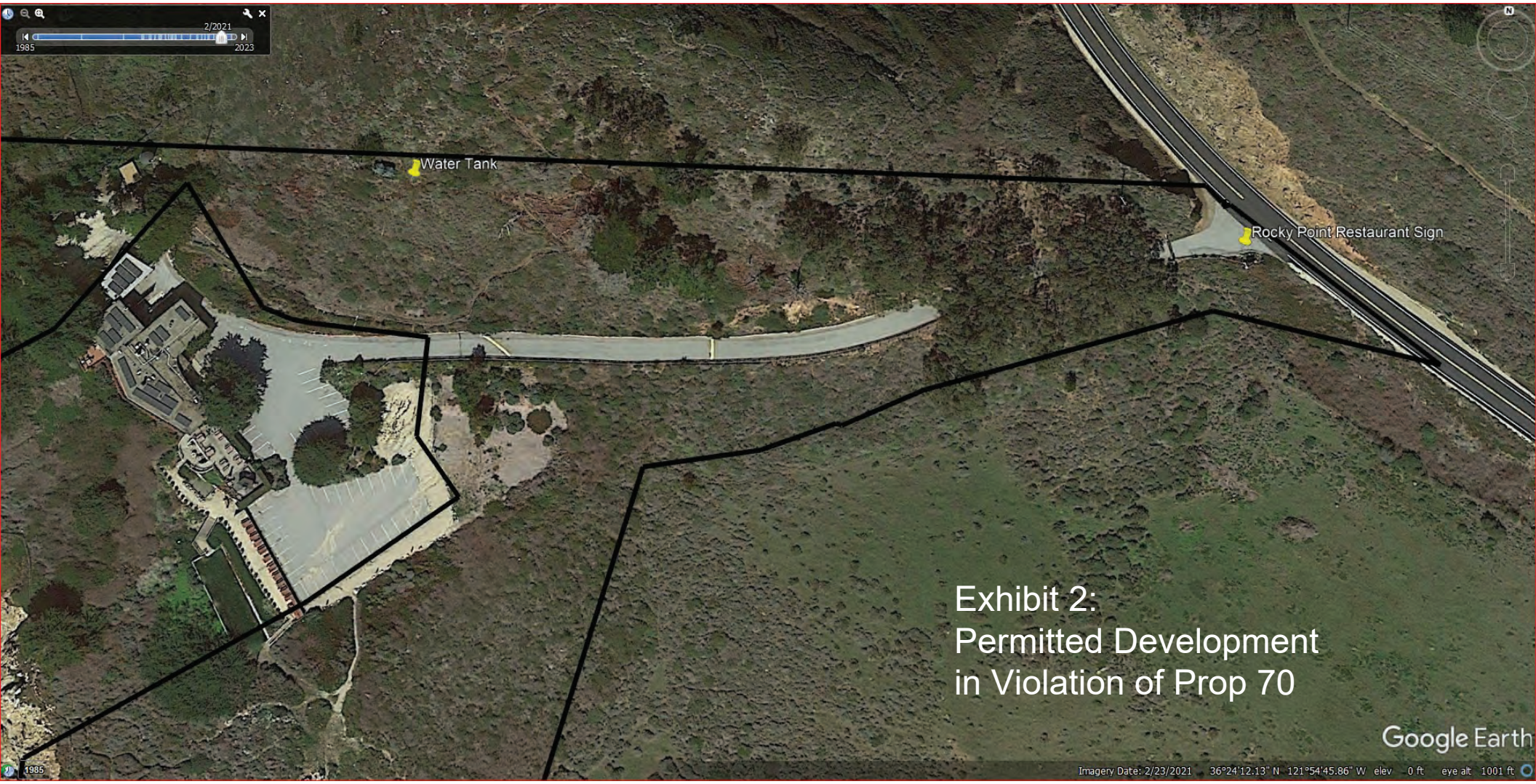
Title: President

Executed in Morro Bay, CA on behalf of the California Coastal Commission:

Dr. Kate Huckelbridge
Executive Director
California Coastal Commission

6/14/24
Date


2/2021
1985
2023
veg removal, grading, DG, water tanks, sheds
stairway
Locked gate and guard
fencing and rock walls
new building
two decks
remodel and seat increase
driveway lights and landscaping
planters, irrigation, and woodchips
vegetation removal
restrictive signs
patio
pavement and DG
leach field
Exhibit 1:
Unpermitted
Development
Google Earth


2/2021
1985
2023
Water Tank
Rocky Point Restaurant Sign
Exhibit 2:
Permitted Development
in Violation of Prop 70
Google Earth
1985
Imagery Date: 2/23/2021 36°24'12.13" N 121°54'45.86" W elev 0 ft eye alt 1001 ft

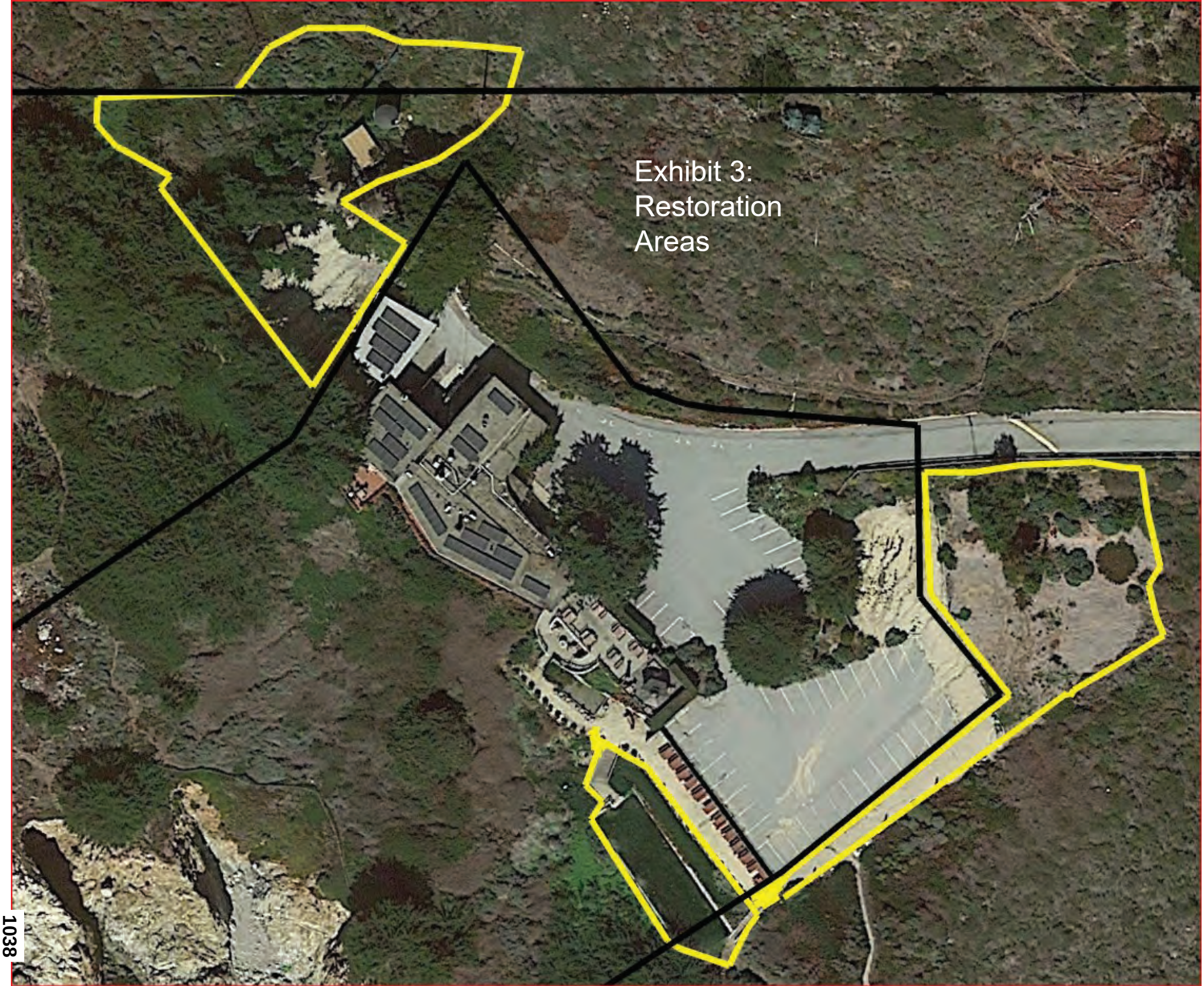


Exhibit 3:
Restoration
Areas

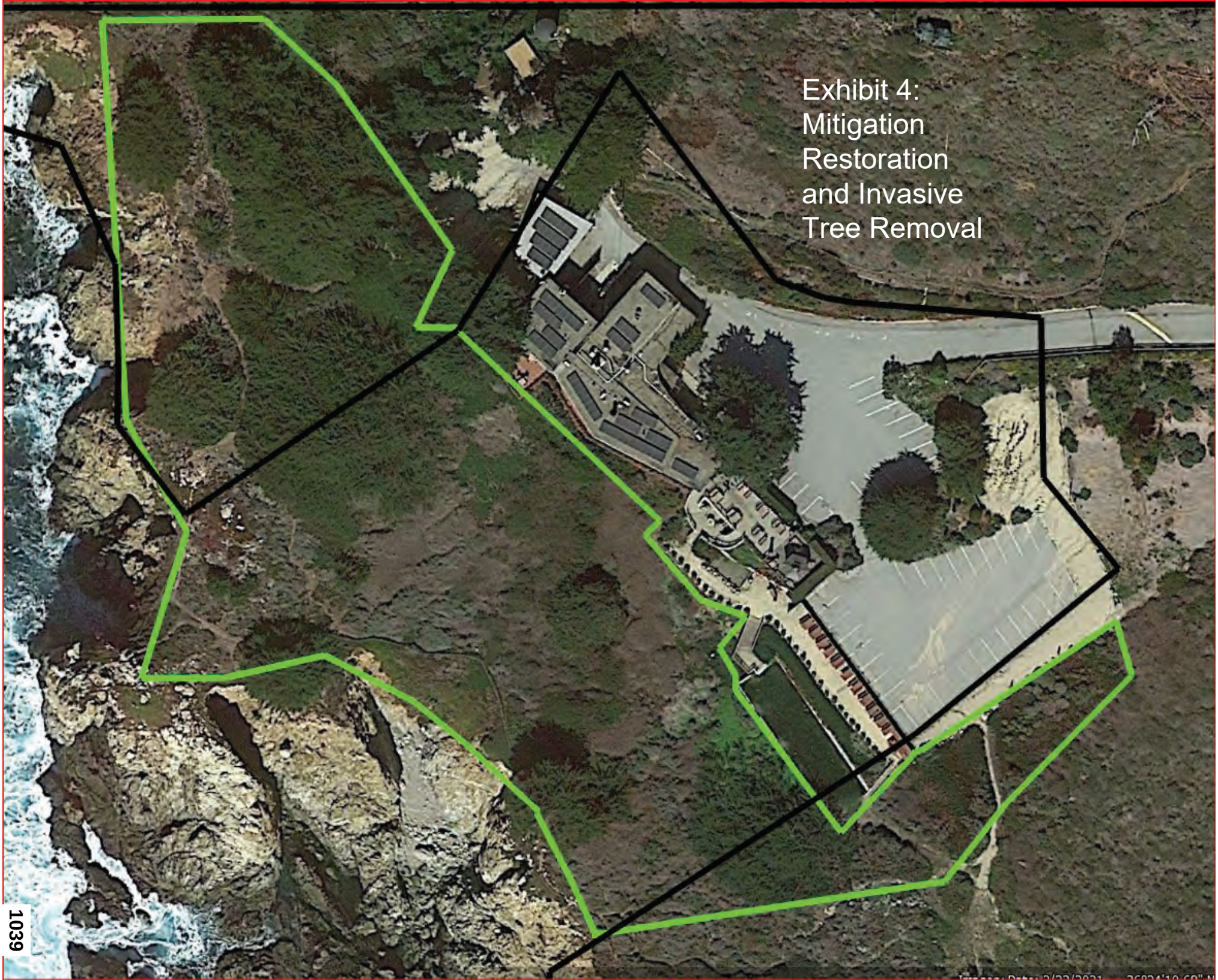


Exhibit 4:
Mitigation
Restoration
and Invasive
Tree Removal

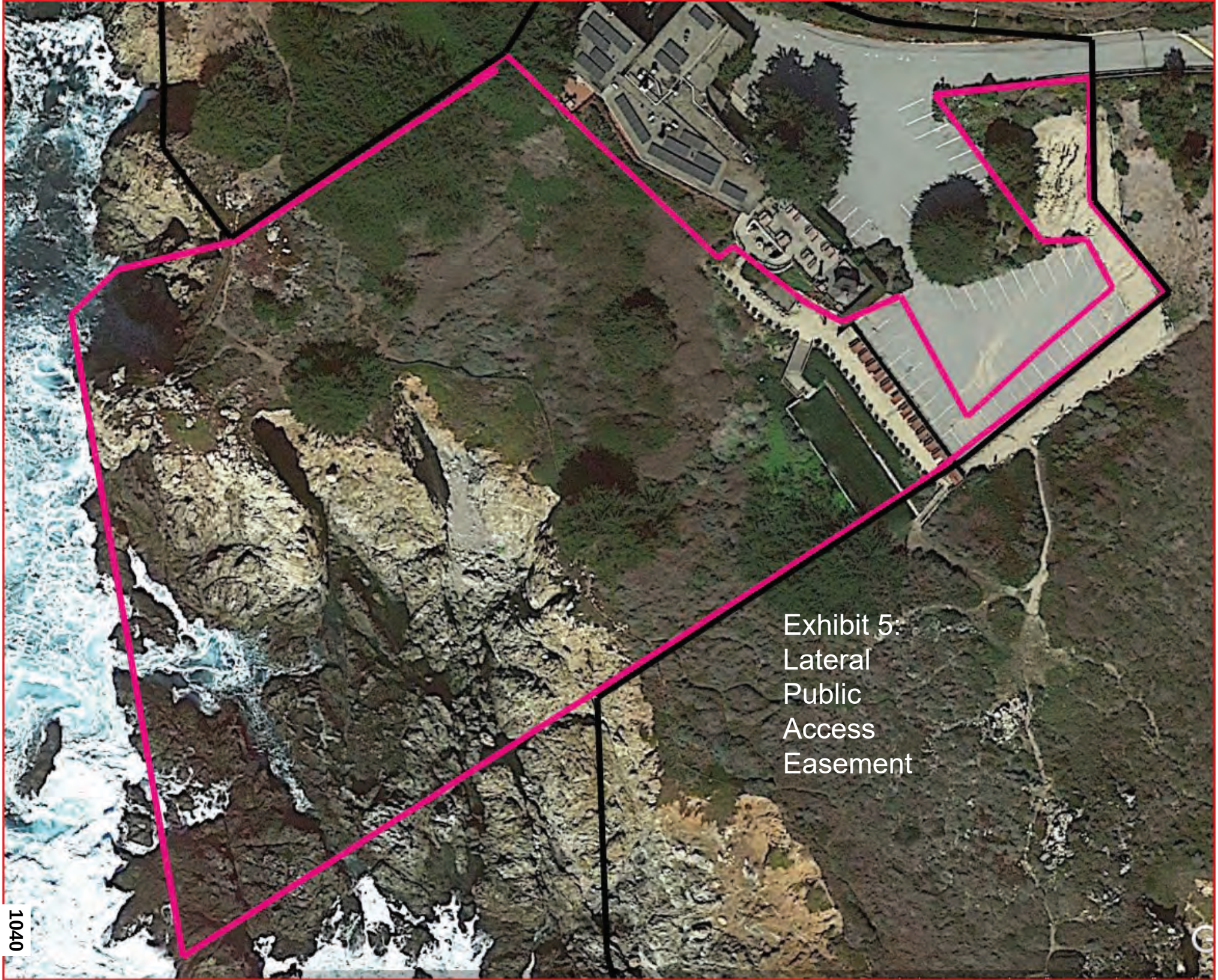


Exhibit 5:
Lateral
Public
Access
Easement

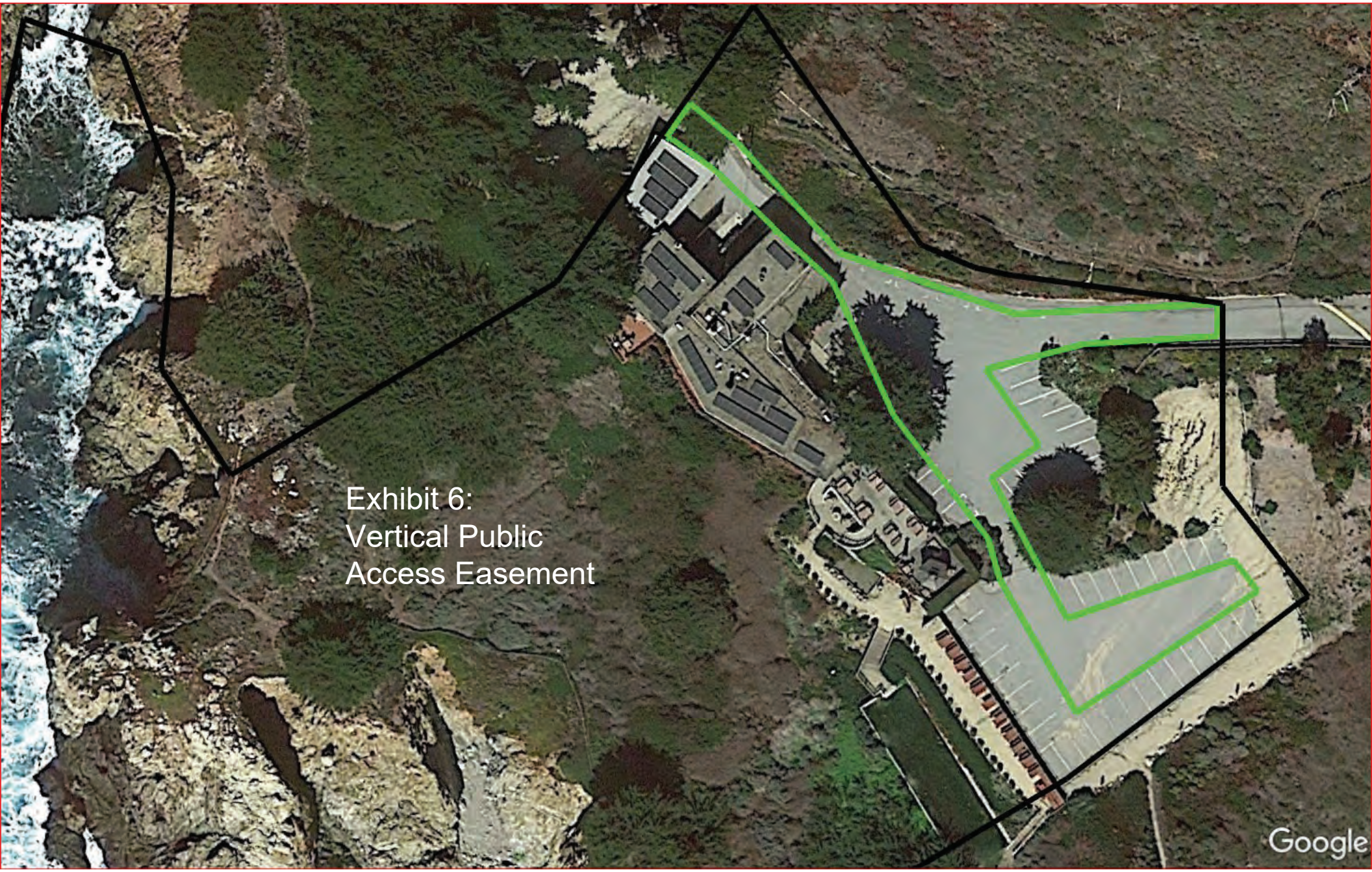


Exhibit 6:
Vertical Public
Access Easement
Google

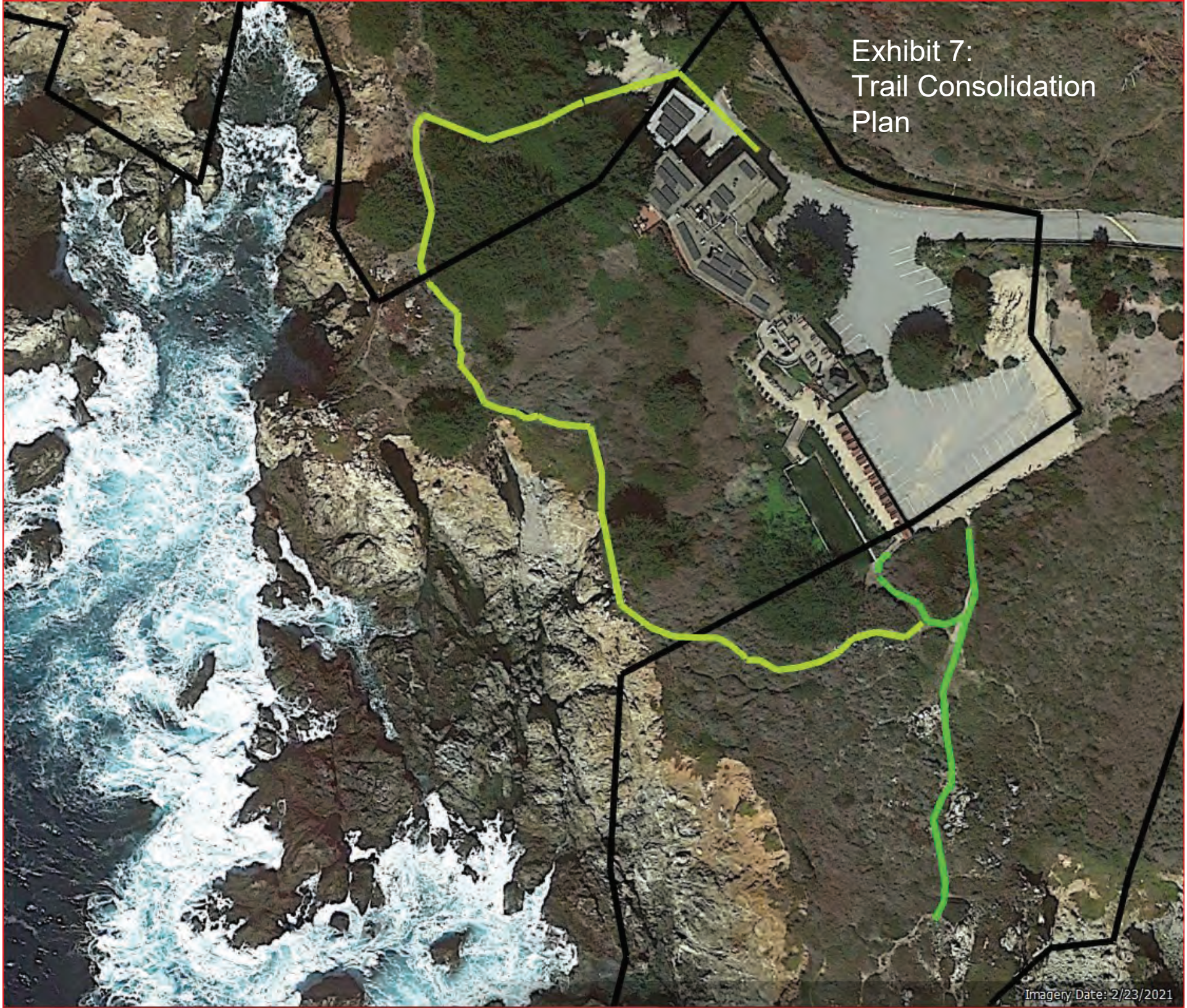


Exhibit 7:
Trail Consolidation
Plan
Imagery Date: 2/23/2021

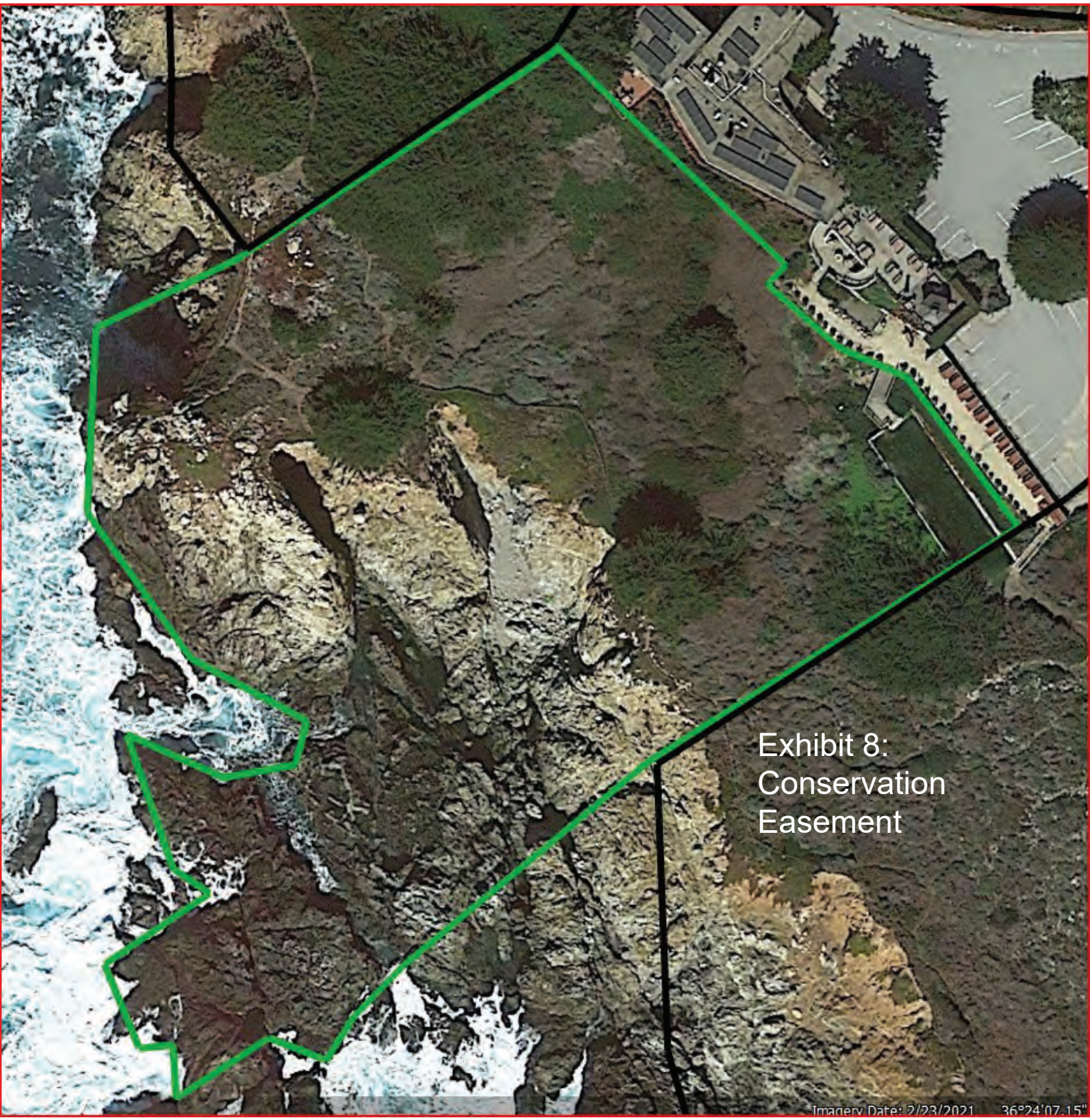


Exhibit 8:
Conservation
Easement
Imagery Date: 2/23/2021
36°24'07.15"

Exhibit 9:
Public Viewing Area
(Yellow)
and
Public Parking Area
(Blue)

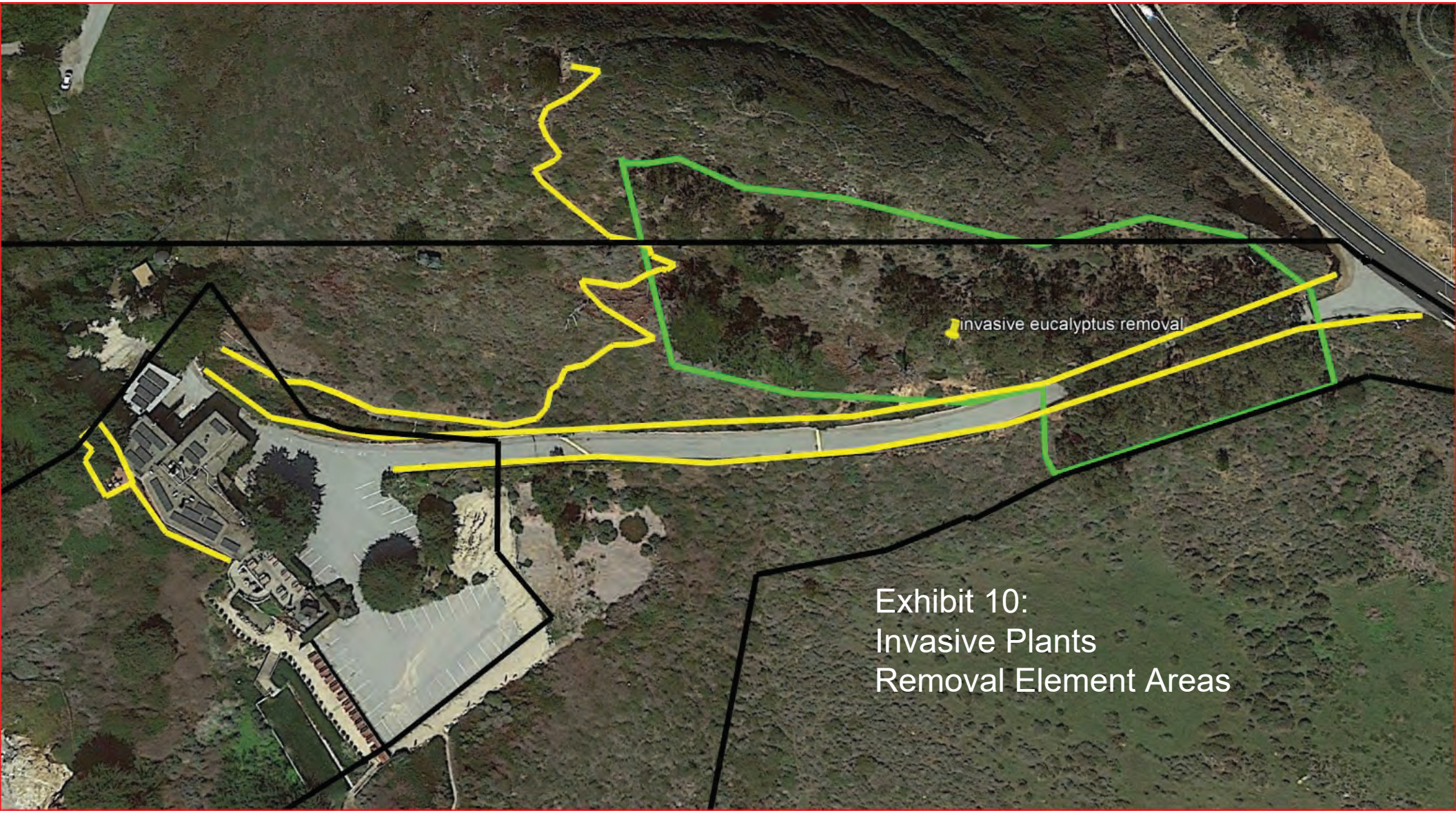


Exhibit 10:
Invasive Plants
Removal Element Areas

Before the Board of Supervisors in and for the County of Monterey, State of California

Resolution No.

Resolution of the Monterey County Board of Supervisors:

a. Approve and authorize the Director of the Public Works, Facilities and Parks (PWFP) Department or designee to execute a Right of Entry and Indemnification Agreement (Agreement) between the County of Monterey (County) and Esperanza Carmel, Commercial LLC, (User) for County owned Assessor's Parcel Number (APN) 243-262-003 (the Property), located off Highway 1 in the unincorporated area of Big Sur, to allow access to complete restoration and remediation activities on the Property related to California Coastal Commission Consent Cease and Desist Order (CCC-24-CD-02); and

b. Approve and authorize the Director of the Public Works, Facilities and Parks (PWFP) Department or designee to execute any future Right of Entry and Indemnification Agreements or related Right of Entry documents for County owned real property and right-of-ways, subject to the review and approval of the Office of the County Counsel-Risk Management.

WHEREAS, the Public Works, Facilities and Parks (PWFP) Department has developed a Right of Entry and Indemnification Agreement (Agreement) to facilitate access requests from private and public individuals and agencies; and

WHEREAS, Esperanza Carmel, Commercial LLC, (User) was provided a California Coastal Commission Consent Cease and Desist Order (CCC-24-CD-02) requiring the restoration of improvements located on County owned Assessor's Parcel Number (APN) 243-262-003 (the Property), located in Big Sur, CA, adjacent to the Rocky Point Restaurant; and

WHEREAS, the User is requesting access to conduct specific duties related to required restoration and remediation activities on the Property, the applicable restoration and remediation activities on the Property stated in CCC-24-CD-02, are shown within Exhibit B to the Agreement (Attachment B); and

WHEREAS, the Agreement allows access to the Property only, and does not approve any construction, restoration or other activities; the User is required to provide proof of approved permits from the applicable permitting agency(s) and applicable certificate of insurance prior to accessing the Property; and

WHEREAS, this resolution authorizes the PWFP Director or designee to execute other future Right of Entry and Indemnification Agreements with private and public individuals for County owned real property and right-of-ways, subject to the review and approval of the Office of the County Counsel-Risk Management.

NOW, THEREFORE, BE IT RESOLVED, that the Board of Supervisors of the County of Monterey hereby:

a. Approve and authorize the Director of the Public Works, Facilities and Parks (PWFP) Department or designee to execute a Right of Entry and Indemnification Agreement (Agreement) between the County of Monterey (County) and Esperanza Carmel, Commercial LLC, (User) for County owned Assessor's Parcel Number (APN) 243-262-003 (the Property), located off Highway 1 in the unincorporated area of Big Sur, to allow access to complete restoration and remediation activities on the Property related to California Coastal Commission Consent Cease and Desist Order (CCC-24-CD-02); and

b. Approve and authorize the Director of the Public Works, Facilities and Parks (PWFP) Department or designee to execute any future Right of Entry and Indemnification Agreements or related Right of Entry documents for County owned real property and right-of-ways, subject to the review and approval of the Office of the County Counsel-Risk Management.

PASSED AND ADOPTED on this _____ day of _____2025, by the following vote, to-wit:

AYES:
NOES:
ABSENT:

I, Valerie Ralph, Clerk of the Board of Supervisors of the County of Monterey, State of California, hereby certify that the foregoing is a true copy of an original order of said Board of Supervisors duly made and entered in the minutes thereof of Minute Book_____ for the meeting on _____.

Dated:

Valerie Ralph, Clerk of the Board of Supervisors
County of Monterey, State of California

By _____
, Deputy

Before the Board of Supervisors in and for the County of Monterey, State of California

Resolution No.

Resolution of the Monterey County Board of Supervisors:

a. Approve and authorize the Director of the Public Works, Facilities and Parks (PWFP) Department or designee to execute a Right of Entry and Indemnification Agreement (Agreement) between the County of Monterey (County) and Esperanza Carmel, Commercial LLC, (User) for County owned Assessor's Parcel Number (APN) 243-262-003 (the Property), located off Highway 1 in the unincorporated area of Big Sur, to allow access to complete restoration and remediation activities on the Property related to California Coastal Commission Consent Cease and Desist Order (CCC-24-CD-02); and

b. Approve and authorize the Director of the Public Works, Facilities and Parks (PWFP) Department or designee to execute any future Right of Entry and Indemnification Agreements or related Right of Entry documents for County owned real property and right-of-ways, subject to the review and approval of the Office of the County Counsel-Risk Management.

WHEREAS, the Public Works, Facilities and Parks (PWFP) Department has developed a Right of Entry and Indemnification Agreement (Agreement) to facilitate access requests from private and public individuals and agencies; and

WHEREAS, Esperanza Carmel, Commercial LLC, (User) was provided a California Coastal Commission Consent Cease and Desist Order (CCC-24-CD-02) requiring the restoration of improvements located on County owned Assessor's Parcel Number (APN) 243-262-003 (the Property), located in Big Sur, CA, adjacent to the Rocky Point Restaurant; and

WHEREAS, the User is requesting access to conduct specific duties related to required restoration and remediation activities on the Property, the applicable restoration and remediation activities on the Property stated in CCC-24-CD-02, are shown within Exhibit B to the Agreement (Attachment B); and

WHEREAS, the Agreement allows access to the Property only, and does not approve any construction, restoration or other activities; the User is required to provide proof of approved permits from the applicable permitting agency(s) and applicable certificate of insurance prior to accessing the Property; and

WHEREAS, this resolution authorizes the PWFP Director or designee to execute other future Right of Entry and Indemnification Agreements with private and public individuals for County owned real property and right-of-ways, subject to the review and approval of the Office of the County Counsel-Risk Management.

NOW, THEREFORE, BE IT RESOLVED, that the Board of Supervisors of the County of Monterey hereby:

a. Approve and authorize the Director of the Public Works, Facilities and Parks (PWFP) Department or designee to execute a Right of Entry and Indemnification Agreement (Agreement) between the County of Monterey (County) and Esperanza Carmel, Commercial LLC, (User) for County owned Assessor's Parcel Number (APN) 243-262-003 (the Property), located off Highway 1 in the unincorporated area of Big Sur, to allow access to complete restoration and remediation activities on the Property related to California Coastal Commission Consent Cease and Desist Order (CCC-24-CD-02); and

b. Approve and authorize the Director of the Public Works, Facilities and Parks (PWFP) Department or designee to execute any future Right of Entry and Indemnification Agreements or related Right of Entry documents for County owned real property and right-of-ways, subject to the review and approval of the Office of the County Counsel-Risk Management.

PASSED AND ADOPTED on this _____ day of _____2025, by the following vote, to-wit:

AYES:
NOES:
ABSENT:

I, Valerie Ralph, Clerk of the Board of Supervisors of the County of Monterey, State of California, hereby certify that the foregoing is a true copy of an original order of said Board of Supervisors duly made and entered in the minutes thereof of Minute Book_____ for the meeting on _____.

Dated:

Valerie Ralph, Clerk of the Board of Supervisors
County of Monterey, State of California

By _____
, Deputy

Docusign Envelope ID: 237D9975-4CD9-48E3-9825-D946D02A6AB2

FOURTH AMENDMENT TO PROFESSIONAL SERVICESAGREEMENT

THIS FOURTH AMENDMENT TO PROFESSIONAL SERVICE AGREEMENT (the **"Amendment"**) is made and entered into as of November 1, 2025 by and between COUNTY OF MONTEREY (**"County"**) on behalf of NATIVIDAD MEDICAL CENTER (**"Hospital"**), and VICTORIA CHEW, M.D., an individual **("Contractor")** with respect to the following:

RECITALS

A. County owns and operates Hospital, a general acute care teaching hospital facility located in Salinas, California under its acute care license.

B. Contractor and Hospital have entered into that certain Professional Services Agreement dated effective as of November 1, 2018, as amended effective January 1, 2020, January 1, 2022, and January 1, 2024 (collectively, the **"Agreement"**), pursuant to which Contractor provides Specialty services to Hospital's Patients.

C. Hospital and Contractor desire to amend the Agreement to extend the term by twenty-four (24) months, add clarifying language regarding availability and absences, update the Code of Conduct, replace compensation Exhibit 2.1, and add Two Hundred Thousand Dollars ($200,000) to the aggregate amount payable to the Contractor, as set forth below.

AGREEMENT

IN CONSIDERATION of the foregoing recitals and the mutual promises and covenants contained herein, Hospital and Contractor agree as follows:

1. **Defined Terms**. Capitalized terms not otherwise defined herein shall have the meaning ascribed to them in the Agreement.

2. **Section 1.6**. Section 1.6 to the Agreement is hereby amended and restated to read in its entirety as follows:

> **"1.6 Availability**. On or before the first (1st) day of each month, Contractor shall inform Hospital of Contractor's schedule of availability to perform the Services during the following month. Contractor must provide a minimum availability of two (2) shifts per month, including weekends, and one (1) minor and one (1) major holiday per year. Contractor shall use his or her best efforts to adjust such schedule of availability if reasonably requested by Hospital in order to meet Hospital's needs for the Services. Contractor shall provide thirty (30) days' prior written notice in advance of any absence, when practicable.**"**
>
> **(a) Absences**. In the event Contractor is unable to perform the obligations under this Agreement for any justifiable cause, Contractor shall designate a qualified replacement to provide the Services on behalf of Contractor, subject to the prior written approval of Hospital. Contractor shall ensure that any such designated replacement meets any and all obligations and requirements of Contractor under this Agreement. Contractor shall notify the Service Director or

Docusign Envelope ID: 237D9975-4CD9-48E3-9825-D946D02A6AB2

his/her designee in writing and in accordance with Hospital Rules and Department Policies. Except in the event of absence due to illness or disability, Hospital shall have the right to approve the length of Contractor's absence, and any unapproved absence shall constitute a breach of this Agreement."

3. **Section 2.1**. Section 2.1 to the Agreement is hereby amended and restated to reach in its entirety as follows:

> **"2.1 Compensation.** Hospital shall pay to Contractor the amount determined in accordance with **Exhibit 2.1** (the **"Compensation"**), upon the terms and conditions set forth therein. The total amount payable by Hospital to Contractor under this Agreement shall not exceed the aggregate amount of Six Hundred Thousand Dollars ($600,000)."

4. **Section 5.1**. Section 5.1 to the Agreement is hereby amended and restated to read in its entirety as follows:

> **"5.1 Term**. This Agreement shall become effective on November 1, 2018 (the **"Effective Date"**), and shall continue until December 31, 2027 (the **"Expiration Date"**), subject to the termination provisions of this Agreement."

5. **Exhibit 1.13**. Exhibit 1.13 is hereby deleted and replaced in its entirety and incorporated by reference as attached **Exhibit 1.13**.

6. **Exhibit 2.1**. Exhibit 2.1 to the Agreement shall be deleted and replaced in its entirety and attached hereto as **Exhibit 2.1**.

7. **Counterparts**. This Amendment may be executed in one or more counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.

8. **Continuing Effect of Agreement**. Except as herein provided, all of the terms and conditions of the Agreement remain in full force and effect from the Effective Date of the Agreement.

9. **Reference**. After the date of this Amendment, any reference to the Agreement shall mean the Agreement as amended by this Amendment.

[signature page follows]

Docusign Envelope ID: 237D9975-4CD9-48E3-9825-D946D02A6AB2

IN WITNESS WHEREOF, Hospital and Contractor have executed this Amendment as of the day and year first written above.

CONTRACTOR

VICTORIA CHEW, M.D., an individual

Signed by:
Victoria Chew
E00FB1014487405...

Date: 9/22/2025 | 1:23 PM PDT

NATIVIDAD MEDICAL CENTER

_____

Deputy Purchasing Agent

Date: _____

APPROVED AS TO LEGAL PROVISIONS:

DocuSigned by:
Stacy Saetta
C0ECE1B99F444A9...

Stacy Saetta, Deputy County Counsel

Date: 9/26/2025 | 4:06 PM PDT

APPROVED AS TO FISCAL PROVISIONS:

DocuSigned by:
Patricia Ruiz
E79EF64E5745...

Deputy Auditor/Controller

Date: 9/29/2025 | 2:20 PM PDT

Docusign Envelope ID: 237D9975-4CD9-48E3-9825-D946D02A6AB2

EXHIBIT 1.13

MEDICAL STAFF POLICY

Title: Practitioner Code of Conduct	**Number:** MSP004-2 BOT Approval: 1/2023
Standard: Medical Staff (MS)	MEC Approval: 12/22 Responsible: Medical Staff Services Manager

As a member of the Medical Staff or an Advanced Practice Professional (APP) of Natividad (collectively Practitioners), you must acknowledge that the ability of Practitioners and Natividad employees to jointly deliver high quality health care depends significantly upon their ability to communicate well, collaborate effectively, and work as a team, recognizing that patients, family members, visitors, colleagues and Natividad staff members must be treated in a dignified and respectful manner at all times.

POLICY

In keeping with the accepted standards of the health care profession as evidenced by the Hippocratic Oath, the Code of Ethics of the American Medical Association (AMA) and other professional societies, and the values of Natividad, Practitioners are leaders in maintaining professional standards of behavior. In keeping with this responsibility to maintain professional standards of behavior at Natividad, Practitioners:

1. Facilitate effective patient care by consistent, active, and cooperative participation as members of the Natividad health care team.

2. Recognize the individual and independent responsibilities of all other members of the Natividad health care team and their right to independently advocate on behalf of the patient.

3. Maintain respect for the dignity and sensitivities of patients and families, as well as colleagues, Natividad employees, and all other health care professionals.

4. Participate in the Medical Staff quality assessment and peer review activities, and in organizational performance improvement activities.

5. Reflect positively upon the reputation of the health care profession, the Medical Staff, and Natividad in their language, action, attitude, and behavior.
6. Commit and contribute to the overall educational mission of Natividad and promote an effective, inclusive, equitable and supportive clinical learning environment.

Behaviors of Practitioners which do not meet the professional behavior standards established in this Code of Conduct (Code) shall be referred to as Disruptive or Unprofessional Behavior.

Disruptive or Unprofessional Behavior by Practitioners exhibited on the premises of Natividad, whether or not the Practitioner is on duty or functioning in his/her professional capacity, are subject to this Code.

Docusign Envelope ID: 237D9975-4CD9-48E3-9825-D946D02A6AB2

EXAMPLES OF PROFESSIONAL BEHAVIOR

Practitioners are expected to exhibit professional behavior at Natividad, consistent with this Code, as follows:

1. Be consistently available with cooperative and timely responsiveness to appropriate requests from physicians, nurses, and all other members of the Natividad health care team in patient care and other professional responsibilities.

2. Provide for and communicate alternate coverage arrangements to assure the continuity and quality of care.

3. Demonstrate language, action, attitude, and behavior which consistently convey to patients, families, colleagues, and all other members of the Natividad health care team a sense of compassion and respect for human dignity.

4. Understand and accept individual cultural differences.

5. Maintain appropriate, timely, and legible medical record entries which enable all Natividad professionals to understand and effectively participate in a cohesive plan of management to assure continuity, quality, and efficiency of care and effective post-discharge planning and follow-up.

6. Respect the right of patients, families, or other designated surrogates to participate in an informed manner in decisions pertaining to patient care.

7. Treat patients and all persons functioning in any capacity within Natividad with courtesy, respect, and human dignity.

8. Conduct one's practice at Natividad in a manner that will facilitate timely commencement of medical/surgical procedures at Natividad, including but not limited to, timely arrival at the hospital, pre-ordering all needed special equipment and/or supplies, and timely notification of required staff.

EXAMPLES OF DISRUPTIVE OR UNPROFESSIONAL BEHAVIOR

Disruptive or Unprofessional Behavior, as characterized in this Code, includes but is not limited to:

1. Misappropriation or unauthorized removal or possession of Natividad owned property.

2. Falsification of medical records, including timekeeping records and other Natividad documents.

3. Working under the influence of alcohol or illegal drugs.

4. Working under the influence of prescription or over-the-counter medications when use of such medications significantly affects the practitioner's level of cognitive functioning.

5. Possession, distribution, purchase, sale, transfer, transport, or use of illegal drugs in the workplace.

Docusign Envelope ID: 237D9975-4CD9-48E3-9825-D946D02A6AB2

6. Possession of dangerous or unauthorized materials such as explosives, firearms, or other weapons in the workplace.

7. Writing derogatory and/or accusatory notes in the medical record which are not necessary for the provision of quality patient care services. Concerns regarding the performance of other Practitioners or Natividad employees should generate an Occurrence Report in Verge and submit pursuant to Natividad policy and should not be entered into the patient's medical record.

8. Harassment

    a. Harassment is verbal or physical contact that denigrates or shows hostility or aversion toward an individual based on race, religion, color, national origin, ancestry, age, disability, marital status, gender, sexual orientation, or any other basis protected by federal, state, or local law or ordinance, and that:

        1. Has the purpose or effect of creating an intimidating, hostile, or offensive working environment, or;

        2. Has the purpose or effect of unreasonably interfering with an individual's work performance, or;

        3. Otherwise aversely affects an individual's employment opportunity.

    b. Harassing conduct includes, but is not limited to:

        1. Epithets, slurs, negative stereotyping, threatening, intimidating, or hostile acts that relate to race, religion, color, national origin, ancestry, age, disability, marital status, gender, or sexual orientation.

        2. Written material or illustrations that denigrate or show hostility or aversion toward an individual or group because of race, religion, color, national origin, ancestry, age, disability, marital status, gender, or sexual orientation, and is placed on walls; bulletin boards, or elsewhere on
        Natividad's premises or circulated in the workplace.

9. Physical behavior that is harassing, intimidating, or threatening, from the viewpoint of the recipient, including touching, obscene or intimidating gestures, or throwing of objects.

10. Passive behaviors, such as refusing to perform assigned tasks or to answer questions, return phone calls, or pages.

11. Language that is a reasonable adult would consider to be foul, abusive, degrading, demeaning, or threatening, such as crude comments, degrading jokes or comments, yelling, or shouting at a person, or threatening violence or retribution.

12. Single incident of egregious behavior, such as an assault or other criminal act.

13. Criticism of Natividad staff in front of patients, families, or other staff.

Docusign Envelope ID: 237D9975-4CD9-48E3-9825-D946D02A6AB2

PROCEDURE

1. Any person who functions in any capacity at Natividad who observes Practitioner language, action, attitude, or behavior which may be unprofessional, harassing, or disruptive to the provision of quality patient care services should document the incident via an Occurrence Report in Verge.

2. Identified incidents involving Practitioners shall be reviewed pursuant to the current Road Map for Handling Reports of Disruptive or Unprofessional Behavior or the County Sexual Harassment Policy, as determined by the nature of the behavior and the person who exhibits it.

Docusign Envelope ID: 237D9975-4CD9-48E3-9825-D946D02A6AB2

MEDICAL STAFF POLICY

Title: Practitioner Code of Conduct	**Effective:** 05/09 **Reviewed/Revised:** 12/22
Standard: MSP004-2	**Approved: MEC** 12/22 **BOT** 1/23

I acknowledge that I have received and read this Practitioner Code of Conduct. I acknowledge that hospitals are required to define and address disruptive and inappropriate conduct to comply with The Joint Commission standards for accreditation. I agree to adhere to the guidelines in this Code and conduct myself in a professional manner. I further understand that failure to behave in a professional fashion may result in disciplinary actions set forth in the RoadMap for Handling Reports of Disruptive or Unprofessional Behavior or as determined by the Medical Executive Committee pursuant to the Medical Staff Bylaws.

Printed name Victoria Chew

Signature: Signed by: Victoria Chew E00FB1014487405... Date: 9/22/2025 | 1:23 PM PDT

Docusign Envelope ID: 237D9975-4CD9-48E3-9825-D946D02A6AB2

Exhibit 2.1

COMPENSATION

1. **Professional Services.** Hospital shall pay to Contractor the amount of One Hundred Sixteen Dollars ($116) per hour for those Professional Services rendered by Contractor to Patients while providing on-site coverage for Hospital's labor and delivery unit; provided, however, that Contractor is in compliance with the terms and conditions of this Agreement.

2. **Professional Liability Reimbursement.** In the event that Contractor does not purchase the professional liability insurance set forth in the Agreement, Hospital will deduct Twenty-One Dollars and Ninety Cents ($21.90) per day worked by Contractor to compensate for Hospital's payment of professional liability insurance premiums on behalf of Contractor.

3. **Timing.** Hospital shall pay the compensation due for Services performed by Contractor after Contractor's submission of the monthly invoice of preceding month's activity and time report in accordance with this Agreement; provided, however, that if Contractor does not submit an invoice and time sheet within sixty (60) days of the end of the month during which Services were performed, Hospital shall not be obligated to pay Contractor for Services performed during that month. The County of Monterey Standard Payment Terms for contracts/PSAs and paying invoices is "30 days after receipt of the certified invoice in the Auditor-Controller's Office".

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

PROFESSIONAL AND CALL COVERAGE SERVICES AGREEMENT

by and between COUNTY OF MONTEREY ("County") on behalf of

NATIVIDAD MEDICAL CENTER ("Hospital")

and

ATP PARTNERS OF CALIFORNIA, P.C. ("Contractor")

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

PROFESSIONAL AND CALL COVERAGE SERVICES AGREEMENT

THIS PROFESSIONAL AND CALL COVERAGE SERVICES AGREEMENT (this **"Agreement"**) is entered into as of November 1, 2025 by and between COUNTY OF MONTEREY (**"County"**) on behalf of NATIVIDAD MEDICAL CENTER (**"Hospital"**), and ATP PARTNERS OF CALIFORNIA, P.C., a California professional corporation (**"Contractor"**). County, Hospital and Contractor are sometimes referred to in this Agreement as a **"Party"** or, collectively, as the **"Parties."**

RECITALS

A. County owns and operates Hospital, a general acute care teaching hospital facility and Level II Trauma Center located in Salinas, California under its acute care license.

B. Contractor is a professional corporation organized under the laws of the State of California (the **"State"**), consisting of employees and contractors (collectively, **"Group Physicians"** and each, a **"Group Physician"**), each of whom is a physician duly licensed and qualified to practice medicine in the State. Each Group Physician is board certified for the practice of medicine in the specialty of neurology (the **"Specialty"**).

C. Contractor contracts with NeuroX LLC, a Florida-based virtual brain health company (**"NeuroX"**), for management and technology services. Contractor uses NeuroX platform (powered by SmartClinix) to provide services in this Agreement.

D. Hospital must arrange for the provision of professional consultation and treatment of patients who present to the emergency department (**"ED"**) and who are admitted as Hospital inpatients in need of medical care or treatment in the Specialty, including inpatient and outpatient procedures performed in Hospital's operating room (collectively, the **"Patients"**), , without regard to any consideration other than medical condition.

E. Hospital has considered the following factors in determining the necessity and amount of compensation payable to Contractor pursuant to this Agreement:

1. The nature of Contractor's duties as contemplated by this Agreement.

2. Contractor's qualifications.

3. The difficulty in obtaining a qualified physician to provide the services described in this Agreement.

4. The benefits to Hospital's community resulting from Contractor's performance of the services described in this Agreement.

5. The economic conditions locally and in the health care industry generally.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

AGREEMENT

THE PARTIES AGREE AS FOLLOWS:

ARTICLE I.
CONTRACTOR'S OBLIGATIONS

1.1 Telemedicine Services.

(a) Contractor shall provide the professional services described in **Exhibit 1.1(a)** (the **"Professional Services"**) to Patients, upon the terms and subject to the conditions set forth in this Agreement. Professional Services will be rendered by means of medical information exchanged via electronic communications by and between the Patient's treating physician and Group Physician (the **"Telemedicine Services"**).

(b) Contractor shall ensure at least Group Physician is available on an on-call basis, 24 hours a day / 7 days a week, to provide Telemedicine Services to Patients (**"Coverage Services"**), upon the terms and conditions set forth in this Agreement.

(c) Contractor shall provide timely initial follow-up care for all Hospital patients referred for care by the ED or attending physician. If Contractor is the physician on-call at the time of the referral, Contractor shall provide any necessary follow-up care for such patients regardless of the patient's ability to pay for services at the time of the first visit.

(d) Contractor shall ensure at least one (1) Group Physician is available for daily rounding services via electronic communications (**"Tele-Rounding"**) for Patients on the floor and in the intensive care unit (**"ICU"**), with support from an onsite nurse or designated Hospital staff member.

1.2 Teaching Services. Contractor shall provide to Hospital those teaching services set forth in **Exhibit 1.2** (collectively, the **"Teaching Services"**). Contractor shall not be separately compensated for the provision of Teaching Services under this Agreement.

1.3 Additional Services. Contractor shall provide to Hospital those additional services set forth in **Exhibit 1.3** (the **"Additional Services"**), upon the terms and subject to the conditions set forth in this Agreement. The Professional Services, Teaching Services, Telemedicine Services, Tele-Rounding, and Additional Services are sometimes referred to collectively in this Agreement as the **"Services**." Services may be provided remotely.

1.4 Time Commitment. Contractor shall allocate time among the Professional Services, Teaching Services and Additional Services as reasonably requested by Hospital from time to time.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

1.5 Availability. Contractor shall ensure that one (1) or more of its Group Physicians shall be available to provide the Services on a twenty-four (24) hour per day, seven (7) day per week basis. On or before the first (1st) day of each month, Contractor shall inform Hospital of Group Physicians' schedule of availability to perform the Services during the following month. Group Physicians shall use their best efforts to adjust such schedule of availability if reasonably requested by Hospital in order to meet Hospital's needs for the Services.

1.6 Medical Staff. Each Group Physician shall be a member in good standing and active on the Hospital's Medical Staff and have and maintain all clinical privileges at Hospital necessary for the performance of Group Physician's obligations under this Agreement. If, as of the Effective Date (as defined in Section 5.1), any Group Physician is not a member in good standing or active on the Medical Staff or does not hold all clinical privileges at Hospital necessary for the performance of Group Physician's obligations hereunder, such Group Physician shall have a reasonable amount of time, which in no event shall exceed sixty (60) calendar days from the Effective Date, to obtain such membership and/or clinical privileges; provided, however, that such Group Physician diligently pursues such membership and/or clinical privileges in accordance with the normal procedures set forth in the Medical Staff bylaws; and provided, however, that, at all times, Group Physician has been granted privileges to perform the Services. Any Group Physician may obtain and maintain medical staff privileges at any other hospital or health care facility at Group Physician's sole expense.

1.7 Professional Qualifications. Each Group Physician shall have and maintain an unrestricted license to practice medicine in the State. Each Group Physician shall be board certified in the Specialty by the applicable medical specialty board approved by the American Board of Medical Specialties. Each Group Physician shall have and maintain a valid and unrestricted United States Drug Enforcement Administration (**"DEA"**) registration.

1.8 Review of Office of the Inspector General ("OIG") Medicare Compliance Bulletins. The OIG from time to time issues Medicare compliance alert bulletins. To the extent applicable to Contractor's performance under this Agreement, Contractor and each Group Physician shall undertake to review, be familiar with and comply with all applicable requirements of such OIG compliance bulletins.

1.9 Performance Standards. Contractor and each Group Physician shall comply with all bylaws, Medical Staff policies, rules and regulations of Hospital and the Medical Staff (collectively, the **"Hospital Rules"**), and all protocols applicable to the Services or the Hospital (the **"Protocols"**).

1.10 Code of Conduct. Contractor hereby acknowledges receipt of Hospital's Code of Conduct which is attached to this Agreement as **Exhibit 1.10** (the **"Code"**), and agrees that Contractor and each Group Physician has been given ample opportunity to read, review and understand the Code. With respect to Contractor's and the Group Physicians' business dealings with Hospital and their performance of the Services described in this Agreement, neither Contractor nor any Group Physician shall act in any manner which conflicts with or violates the Code, nor cause another person to act in any manner which conflicts with or violates the Code. Contractor and each Group Physician shall comply with the Code as it relates to their business

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

relationship with Hospital or any Affiliate, subsidiaries, employees, agents, servants, officers, directors, contractors and suppliers of every kind.

1.11 Continuing Medical Education. Contractor shall ensure that each Group Physician participates in continuing medical education as necessary to maintain licensure, professional competence and skills commensurate with the standards of the medical community and as otherwise required by the medical profession.

1.12 Use of Space. Contractor and each Group Physician shall use Hospital's premises and space solely and exclusively for the provision of the Services, except in an emergency or with Hospital's prior written consent.

1.13 Notification of Certain Events. Contractor shall notify Hospital in writing within twenty-four (24) hours after the occurrence of any one or more of the following events:

(a) Contractor or any Group Physician becomes the subject of, or materially involved in, any investigation, proceeding, or disciplinary action by: Medicare and Medicaid programs or any other Federal health care program, as defined at 42 U.S.C. Section 1320a-7b(f) (collectively, the **"Federal Health Care Programs"**) or state equivalent, any state's medical board, any agency responsible for professional licensing, standards or behavior, or any medical staff;

(b) the medical staff membership or clinical privileges of any Group Physician at any hospital are denied, suspended, restricted, revoked or voluntarily relinquished, regardless of the availability of civil or administrative hearing rights or judicial review with respect thereto;

(c) any Group Physician becomes the subject of any suit, action or other legal proceeding arising out of Contractor's professional services;

(d) any Group Physician voluntarily or involuntarily retires from the practice of medicine;

(e) any Group Physician's license to practice medicine in the State is restricted, suspended or terminated, regardless of the availability of civil or administrative hearing rights or judicial review with respect thereto;

(f) Contractor or any Group Physician is charged with or convicted of a criminal offense;

(g) Contractor changes the location of Contractor's office;

(h) any act of nature or any other event occurs which has a material adverse effect on Contractor's or any Group Physician's ability to provide the Services; or

(i) Contractor or any Group Physician is debarred, suspended, excluded or otherwise ineligible to participate in any Federal Health Care Program or state equivalent.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

1.14 Representations and Warranties by Contractor. Contractor represents and warrants that: (a) no Group Physician's license to practice medicine in any state has ever been suspended, revoked or restricted; (b) neither Contractor nor any Group Physician has ever been reprimanded, sanctioned or disciplined by any licensing board or medical specialty board; (c) neither Contractor nor Group Physician has ever been excluded or suspended from participation in, or sanctioned by, any Federal Health Care Program; (d) no Group Physician has ever been denied membership and/or reappointment to the medical staff of any hospital or health care facility; (e) no Group Physician's medical staff membership or clinical privileges at any hospital or health care facility have ever been suspended, limited or revoked for a medical disciplinary cause or reason; and (f) no Group Physician has ever been charged with or convicted of a felony, a misdemeanor involving fraud, dishonesty, controlled substances, or moral turpitude, or any crime relevant to the provision of medical services or the practice of medicine.

1.15 Nondiscrimination. Neither Contractor nor any Group Physician shall differentiate or discriminate in performing the Services on the basis of race, religion, creed, color, national origin, ancestry, sex, physical disability, mental disability, medical condition, marital status, age, sexual orientation or payor, or on any other basis prohibited by applicable law.

1.16 Exclusive Services.

(a) During the term of this Agreement, Hospital shall not, employ or contract with any person or entity other than Contractor to provide Professional Services in the Specialty. Nothing in this Section is intended or shall be construed to preclude Hospital from granting clinical privileges to any other physician or physicians consistent with the Hospital Rules that would permit such physician or physicians to provide professional services.

(b) In the event Contractor fails to or is reasonably anticipated to be unable to provide staffing and/or coverage in accordance with the terms and conditions of this Agreement, Hospital shall have the right, at its option and notwithstanding any provision of this Agreement to the contrary, to make alternative arrangements for the provision of the Professional Services. Hospital's rights under this Section shall not (i) relieve Contractor of its obligations under this Agreement, (ii) affect Hospital's right to terminate this Agreement, or (iii) adversely affect Hospital's right to seek indemnity as a result of the breach of this Agreement by Contractor.

(c) Before sending a notice of default in accordance with Section 1.16 above, Parties shall first attempt to meet and confer to discuss the Contractor's alleged failure to perform or fulfill its obligations under this Agreement and shall permit Contractor a reasonable period, but not less than thirty (30) days and not more than sixty (60) days, to respond to or cure such alleged failure.

.

1.17 Compliance with Grant Terms. If this Agreement has been or will be funded with monies received by Hospital or County pursuant to a contract with the state or federal government or private entity in which Hospital or County is the grantee, Contractor and Group Physicians shall comply with all the provisions of said contract, and said provisions shall be

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

deemed a part of this Agreement, as though fully set forth herein. Upon request, Hospital shall deliver a copy of said contract to Contractor at no cost to Contractor.

1.18 Coordination with Attending Physicians. Contractor shall ensure that each Group Physician promptly reports the results of all professional services furnished to Patients to such Patients' attending physician(s) and any other physician(s) engaged in specialty consultation or treatment for such Patients.

1.19 Medical Records and Claims.

(a) Contractor shall ensure that each Group Physician prepares complete, timely, accurate and legible medical and other records with respect to the services and treatment furnished to Patients, in accordance with the Hospital Rules, federal and state laws and regulations, and standards and recommendations of such nationally recognized accrediting organization as Hospital designates from time to time. All such information and records relating to any Patient shall be: (i) prepared on forms developed, provided or approved by Hospital; (ii) the sole property of Hospital; and (iii) maintained at Hospital in accordance with the terms of this Agreement and for so long as is required by applicable laws and regulations.

(b) Contractor shall maintain and upon request provide to patients, Hospital, and state and federal agencies, all financial books and records and medical records and charts as may be necessary for Contractor and/or Hospital to comply with applicable state, federal, and local laws and regulations and with contracts between Hospital and third-party payors. Contractor shall cooperate with Hospital in completing such claim forms for patients as may be required by insurance carriers, health care service plans, governmental agencies, or other third-party payors. This Section 1.19(b) shall survive the expiration or termination of this Agreement.

1.20 Records Available to Contractor. Both during and after the term of this Agreement, Hospital shall permit Contractor and Contractor's agents to inspect and/or duplicate, at Contractor's sole cost and expense, any medical chart and record to the extent necessary to meet Contractor's professional responsibilities to patients, to assist in the defense of any malpractice or similar claim to which such chart or record may be pertinent, and/or to fulfill requirements pursuant to provider contracts to provide patient information; provided, however, such inspection or duplication is permitted and conducted in accordance with applicable legal requirements and pursuant to commonly accepted standards of patient confidentiality. Contractor shall be solely responsible for maintaining patient confidentiality with respect to any information which Contractor obtains pursuant to this Section.

1.21 Group Physicians.

(a) Contractor shall employ, contract with, or otherwise engage Group Physicians. Contractor has initially engaged those Group Physicians listed (and identified by NPI number) on **Exhibit 1.21(a)** to provide the Services, which Group Physicians are hereby approved and accepted by Hospital.

(b) Contractor may from time to time engage one (1) or more additional Group Physicians (including locum tenens physicians) to provide the Services under this Agreement, subject to Hospital's prior written approval, which approval may be given, withheld

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

or conditioned by Hospital in its sole discretion. In the event Hospital withholds approval with respect to any additional Group Physician, such Group Physician shall not be entitled to any "fair hearing" or any other hearing or appellate review under any provision of the Medical Staff Bylaws, unless Hospital determines that the withholding of approval is reportable to any state's medical board or other agency responsible for professional licensing, standards or behavior.

(c) Contractor shall ensure that, during the term of this Agreement, any and all Group Physicians (including locum tenens physicians) providing the Services satisfy the professional standards and qualifications set forth in this Article I of this Agreement.

(d) Contractor shall provide prompt written notice to Hospital in the event any Group Physician resigns, is terminated by Contractor, or otherwise ceases to provide the Services.

(e) Contractor shall ensure that the Services are performed only by Group Physicians who have been approved and accepted by Hospital, and have not been removed in accordance with this Agreement.

(f) Contractor shall cause each Group Physician providing the Services to comply with all obligations, prohibitions, covenants and conditions imposed on Contractor pursuant to this Agreement. Contractor shall cause each Group Physician to execute and deliver to Hospital a letter of acknowledgment in the form attached as **Exhibit 1.21(f)** prior to providing any Services under this Agreement.

ARTICLE II.
COMPENSATION

2.1 Compensation. Hospital shall pay to Contractor the amount determined in accordance with **Exhibit 2.1** (the **"Compensation"**), upon the terms and conditions set forth therein. The total amount payable by Hospital to Contractor under this Agreement shall not exceed the sum of One Million Five Hundred Thousand Dollars ($1,500,000).

2.2 Billing and Collection. Hospital shall have the sole and exclusive right to bill and collect for any and all Professional Services rendered to Patients by Contractor or any Group Physician under this Agreement (the **"NMC Services"**). Hospital shall have the sole and exclusive right, title and interest in and to accounts receivable with respect to such NMC Services.

(a) **Assignment of Claims.** Contractor hereby assigns (or reassigns, as the case may be) to Hospital all claims, demands and rights of Contractor for any and all NMC Services rendered by Contractor pursuant to this Agreement. Contractor shall take such action and execute such documents (e.g., CMS Forms 855R and 855I), as may be reasonably necessary or appropriate to effectuate the assignment (or reassignment, as the case may be) to Hospital of all claims, demands and rights of Contractor for any and all NMC Services rendered by Contractor pursuant to this Agreement.

(b) **Cooperation with Billing and Collections.** Contractor shall cooperate with Hospital in the billing and collection of fees with respect to NMC Services rendered by

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

Contractor. Without limiting the generality of the foregoing, Contractor shall cooperate with Hospital in completing such claim forms with respect to NMC Services rendered by Contractor pursuant to this Agreement as may be required by insurance carriers, health care service plans, governmental agencies, or other third party payors.

(c) **Hospital as Exclusive Source for Compensation for NMC Services.** Contractor shall seek and obtain compensation for the performance of NMC Services only from Hospital. Contractor shall not, bill, assess or charge any fee, assessment or charge of any type against any Hospital patient or any other person or entity for NMC Services rendered by Contractor pursuant to this Agreement. Contractor shall promptly deliver to Hospital any and all compensation, in whatever form, that is received by Contractor or any Group Physician for NMC Services rendered by Contractor or any Group Physician pursuant to this Agreement, including any amount received from any Managed Care Organization (as defined below) for NMC Services rendered by Contractor or any Group Physician pursuant to this Agreement.

(d) **Joint and Several Liability.** Hospital and Contractor acknowledge that they will be jointly and severally liable for any Federal Health Care Program overpayments relating to claims with respect to NMC Services furnished by Contractor pursuant to this Agreement. The foregoing is not intended and shall not be construed to diminish, limit, alter or otherwise modify in any way the Parties' respective indemnification obligations under this Agreement.

(e) **Indemnification for Billing Information.** Contractor hereby agrees to indemnify County, Hospital, its officers, supervisors, trustees, employees and agents, from and against any all liability, cost, lost penalty or expense (including without limitation, attorneys' fees and court costs) incurred by Hospital resulting from negligent acts or negligent omissions of Contractor which result in inaccurate and/or improper billing information furnished by Contractor and relied on by Hospital regarding Professional Services rendered by Contractor to Patients, to the extent such liability, cost, loss, penalty or expense exceeds the amount of payment or reimbursement actually received by Hospital for such services.

2.3 Third Party Payor Arrangements.

(a) Contractor shall cause Group Physician to cooperate in all reasonable respects necessary to facilitate Hospital's entry into or maintenance of any third-party payor arrangements for the provision of services under Federal Health Care Programs or any other public or private health and/or hospital care programs, including insurance programs, self-funded employer health programs, health care service plans and preferred provider organizations.

(b) To enable Hospital to participate in any third-party payor arrangement, Contractor shall cause Group Physician to, not more than ten (10) business days following Hospital's request:

(i) Initiate enrollment as a provider (if required by the third-party payor), separate from Hospital, with any third party payor or intermediate organization (including any independent practice association) (each, a **"Managed Care Organization"**) designated

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

by Hospital for the provision of Professional Services to Hospital patients covered by such Managed Care Organization;

(ii) Complete any documents (e.g., CAQH Universal Provider Datasource form) as may be reasonably necessary or appropriate to effectuate enrollment;

(iii) Enter into a written agreement with such Managed Care Organization as may be necessary or appropriate for the provision of Professional Services to Hospital patients covered by such Managed Care Organization; and/or

(iv) Enter into a written agreement with Hospital regarding global billing, capitation or other payment arrangements as may be necessary or appropriate for the provision of Professional Services to Hospital patients covered by such Managed Care Organization.

(c) Hospital shall retain all responsibility for billing, contracting, and reimbursement with third-party payors for services provided under this Agreement.

ARTICLE III.
INSURANCE AND INDEMNITY

3.1 Evidence of Coverage. Prior to commencement of this Agreement, the Contractor shall provide a "Certificate of Insurance" certifying that coverage as required herein has been obtained. Individual endorsements executed by the insurance carrier shall accompany the certificate. In addition, the Contractor upon request shall provide a certified copy of the policy or policies. This verification of coverage shall be sent to Hospital's Medical Staff Office, unless otherwise directed. The Contractor shall not receive a "Notice to Proceed" with the work under this Agreement until it has obtained all insurance required and Hospital has approved such insurance. This approval of insurance shall neither relieve nor decrease the liability of the Contractor.

3.2 Qualifying Insurers. All coverages except surety, shall be issued by companies which hold a current policy holder's alphabetic and financial size category rating of not less than A-VII, according to the current Best's Key Rating Guide or a company of equal financial stability that is approved by Hospital's Contracts/Purchasing Director.

3.3 Insurance Coverage Requirements. Without limiting Contractor's or Group Physician's duty to indemnify, Contractor shall maintain in effect throughout the term of this Agreement, at Contractor's sole cost and expense, a policy or policies of insurance with the following minimum limits of liability:

(a) **Professional liability insurance**, covering Contractor and each Group Physician with coverage of not less than One-Million Dollars ($1,000,000) per physician per occurrence and Three-Million Dollars ($3,000,000) per physician in the aggregate; or such other

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

amount(s) of professional liability insurance as may be required by Article 2.2-1 of Hospital's Medical Staff Bylaws from time to time, to cover liability for malpractice and/or errors or omissions made in the course of rendering services under this Agreement. If any professional liability insurance covering Contractor and Group Physician is procured on a "Claims Made" rather than "Occurrence" basis, then Contractor and Group Physician shall either continue such coverage or obtain extended reporting coverage (**"Tail Coverage"**), as appropriate, upon the occurrence of any of the following: (i) termination or expiration of this Agreement; (ii) change of coverage if such change shall result in a gap in coverage; or (iii) amendment, reduction or other material change in the then existing professional liability coverage of Contractor if such amendment, reduction or other material change will result in a gap in coverage. Any Tail Coverage shall have liability limits in the amount set forth above and shall in all events continue in existence until the greater of: (a) three (3) years or (b) the longest statute of limitations for professional and general liability for acts committed has expired. All insurance required by this Agreement shall be with a company acceptable to County and issued and executed by an admitted insurer authorized to transact insurance business in the State.

(b) **Commercial general liability insurance**, including but not limited to premises and operations, including coverage for Bodily Injury and Property Damage, Personal Injury, Contractual Liability, Broad form Property Damage, Independent Contractors, Products and Completed Operations, with a combined single limit for Bodily Injury and Property Damage of not less than One Million Dollars ($1,000,000) per occurrence.

☐ Exemption/Modification (Justification attached; subject to approval).

(c) **Business automobile liability insurance**, covering all motor vehicles, including owned, leased, non-owned, and hired vehicles, used in providing services under this Agreement, with a combined single limit for Bodily Injury and Property Damage of not less than One Million Dollars ($1,000,000) per occurrence.

☒ Exemption/Modification (Justification attached; subject to approval).

Contractor does not provide Services on the premises of Hospital and does not drive on county property to fulfill its obligations under the Agreement.

(d) **Workers' Compensation Insurance**, if Contractor employs others in the performance of this Agreement, in accordance with California Labor Code Section 3700 and with Employer's Liability limits not less than One Million Dollars ($1,000,000) each person, One Million Dollars ($1,000,000) each accident and One Million Dollars ($1,000,000) each disease.

☐ Exemption/Modification (Justification attached; subject to approval).

3.4 Other Insurance Requirements. All insurance required by this Agreement shall be with a company acceptable to Hospital and issued and executed by an admitted insurer authorized to transact insurance business in the State. Unless otherwise specified by this Agreement, all such insurance shall be written on an occurrence basis, or, if the policy is not written on an occurrence basis, such policy with the coverage required herein shall continue in

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

effect for a period of three (3) years following the date Contractor and Group Physicians complete their performance of services under this Agreement.

Each liability policy shall provide that Hospital shall be given notice in writing at least thirty (30) days in advance of any endorsed reduction in coverage or limit, cancellation, or intended non-renewal thereof. Each policy shall provide coverage for Contractor, Group Physicians, and additional insured with respect to claims arising from each subcontractor, if any, performing work under this Agreement, or be accompanied by a certificate of insurance from each subcontractor showing each subcontractor has identical insurance coverage to the above requirements.

Commercial general liability and automobile liability policies shall provide an endorsement naming the County of Monterey, its officers, agents, and employees as Additional Insureds with respect to liability arising out of the Contractor's work, including ongoing and completed operations, and shall further provide that such insurance is primary insurance to any insurance or self-insurance maintained by the County and that the insurance of the Additional Insureds shall not be called upon to contribute to a loss covered by the Contractor's insurance.

Prior to the execution of this Agreement by Hospital, Contractor shall file certificates of insurance with Hospital's Medical Staff Office, showing that the Contractor has in effect the insurance required by this Agreement. The Contractor shall file a new or amended certificate of insurance within five (5) calendar days after any change is made in any insurance policy, which would alter the information on the certificate then on file. Acceptance or approval of insurance shall in no way modify or change the indemnification clause in this Agreement, which shall continue in full force and effect.

Contractor and each Group Physician shall at all times during the term of this Agreement maintain in force the insurance coverage required under this Agreement and shall send, without demand by Hospital, annual certificates to Hospital's Medical Staff Office. If the certificate is not received by the expiration date, Hospital shall notify Contractor and Contractor shall have five (5) calendar days to send in the certificate, evidencing no lapse in coverage during the interim. Failure by Contractor to maintain such insurance is a default of this Agreement, which entitles Hospital, at its sole discretion, to terminate the Agreement immediately.

3.5 Right to Offset Insurance Costs.

(a) In the event that Contractor does not purchase or otherwise have the liability insurance set forth in this Section at any time during the term of this Agreement, and without limiting any rights or remedies of County, County may at its option and within its sole discretion provide the liability insurance required by this Section and continue to pay the premiums therefor. If Contractor does not promptly reimburse all such amounts, then County shall have the right to withhold and offset the compensation due to Contractor under this Agreement, in addition to such other rights or privileges as County may have at law or in equity.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

(b) The County's option to provide such insurance and to offset the compensation otherwise due to the Contractor shall also apply to the "Tail Coverage" referenced in Section 3.3, including for general liability if during the term of the Agreement such coverage has been written on a claims made basis, which is required to remain effective after the expiration or termination of this Agreement for any reason.

3.6 Indemnification.

(a) **Indemnification by Contractor.** Contractor and each Group Physician shall indemnify, defend, and hold harmless County, its officers, agents, and employees, from and against any and all claims, liabilities, and losses whatsoever (including damages to property and injuries to or death of persons, court costs, and reasonable attorneys' fees) occurring or resulting to any and all persons, firms or corporations furnishing or supplying work, services, materials, or supplies in connection with the performance of this Agreement, and from any and all claims, liabilities, and losses occurring or resulting to any person, firm, or corporation for damage, injury, or death arising out of or connected with Contractor's or Group Physicians' performance of this Agreement, unless such claims, liabilities, or losses arise out of the sole negligence or willful misconduct of County. "Contractor's performance" includes Contractor's and Group Physicians' acts or omissions and the acts or omissions of Contractor's officers, employees, agents and subcontractors.

(b) **Indemnification by County.** County agrees to defend, indemnify, and hold harmless Contractor and Group Physicians, to the extent permitted by applicable law, from and against any and all claims and losses whatsoever accruing or resulting to any person, firm or corporation for damages, injury or death arising out of or connected with any negligent act or omission or willful misconduct of County or any of its agents or employees.

3.7 Indemnification for Timely Payment of Tax Contributions. It is expressly agreed by the Parties hereto that no work, act, commission or omission of Contractor or any Group Physician shall be construed to make or render Contractor or any Group Physician the agent, employee or servant of County. Contractor and each Group Physician agrees to indemnify, defend and hold harmless County and Hospital from and against any and all liability, loss, costs or obligations (including, without limitation, interest, penalties and attorney's fees in defending against the same) against County or Hospital based upon any claim that Contractor has failed to make proper and timely payment of any required tax contributions for itself, its employees, or its purported agents or independent contractors.

3.8 Hospital Services. Hospital shall retain professional and administrative responsibility for the operation of the Hospital, as and to the extent required by Title 22, California Code of Regulations, Section 70713. Hospital's retention of such responsibility is not intended and shall not be construed to diminish, limit, alter or otherwise modify in any way the obligations of Contractor under this Agreement, including, without limitation, the obligations under the insurance and indemnification provisions set forth in this Article III.

3.9 Survival of Obligations. The Parties' obligations under this Article III shall survive the expiration or termination of this Agreement for any reason.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

ARTICLE IV.
RELATIONSHIP BETWEEN THE PARTIES

4.1 Independent Contractor.

(a) Contractor and each Group Physician is and shall at all times be an independent contractor with respect to Hospital in the performance of Contractor's and Group Physician's obligations under this Agreement. Nothing in this Agreement shall be construed to create an employer/employee, joint venture, partnership, lease or landlord/tenant relationship between Hospital and Contractor or Hospital and any Group Physician. No Group Physician shall hold himself or herself out as an officer, agent or employee of Hospital, and shall not incur any contractual or financial obligation on behalf of Hospital without Hospital's prior written consent.

(b) If the Internal Revenue Service (**"IRS"**) or any other governmental agency should inquire about, question or challenge the independent contractor status of Contractor or any Group Physician with respect to County, the Parties hereto mutually agree that: (i) each shall inform the other Party hereto of such inquiry or challenge; and (ii) County and Contractor shall each have the right to participate in any discussion or negotiation occurring with the taxing agency, regardless of who initiated such discussions or negotiations. In the event the taxing agency concludes that an independent contractor relationship does not exist, County may terminate this Agreement effective immediately upon written notice. In the event of such termination, the Parties remain free to negotiate an employer/employee contract with any Group Physician.

4.2 Limitation on Control. Hospital shall neither have nor exercise any control or direction over Contractor's or any Group Physician's professional medical judgment or the methods by which Contractor or any Group Physician performs professional medical services; provided, however, that Contractor and Group Physicians shall be subject to and shall at all times comply with the Protocols and the bylaws, guidelines, policies and rules applicable to other members of the Medical Staff.

4.3 Practice of Medicine. Contractor and Hospital acknowledge that Hospital is neither authorized nor qualified to engage in any activity which may be construed or deemed to constitute the practice of medicine. To the extent that any act or service required of, or reserved to, Hospital in this Agreement is construed or deemed to constitute the practice of medicine, the performance of such act or service by Hospital shall be deemed waived or unenforceable, unless this Agreement can be amended to comply with the law, in which case the Parties shall make such amendment.

4.4 No Benefit Contributions. Hospital shall have no obligation under this Agreement to compensate or pay applicable taxes for, or provide employee benefits of any kind (including contributions to government mandated, employment-related insurance and similar programs) to, or on behalf of, Contractor or any other person employed or retained by Contractor. Notwithstanding the foregoing, if Hospital determines or is advised that it is required by law to compensate or pay applicable taxes for, or provide employee benefits of any kind (including contributions to government mandated, employment-related insurance and

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

similar programs) to, or on behalf of, Contractor or any other person employed or retained by Contractor, Contractor shall reimburse Hospital for any such expenditure within thirty (30) calendar days after being notified of such expenditure.

4.5 Referrals. Contractor and the Group Physicians shall be entitled to refer patients to any hospital or other health care facility or provider deemed by Contractor or the Group Physicians best qualified to deliver medical services to any particular patient; provided; however, that neither Contractor nor any Group Physician shall refer any Hospital patient to any provider or health care services which either Contractor or any Group Physician knows or should have known is excluded or suspended from participation in, or sanctioned by, any Federal Health Care Program or state equivalent. Nothing in this Agreement or in any other written or oral agreement between Hospital and Contractor or Hospital and the Group Physicians, nor any consideration offered or paid in connection with this Agreement, contemplates or requires the admission or referral of any patients or business to Hospital or any Affiliate. In the event that any governmental agency, any court or any other judicial body of competent jurisdiction, as applicable, issues an opinion, ruling or decision that any payment, fee or consideration provided for hereunder is made or given in return for patient referrals, either Party may at its option terminate this Agreement with three (3) days notice to the other Party. Contractor's rights under this Agreement shall not be dependent in any way on the referral of patients or business to Hospital or any Affiliate by Contractor, Group Physician or any person employed or retained by Contractor.

4.6 Form 1099 or W-2. If required to do so under applicable law, Hospital shall issue an Internal Revenue Service Form 1099 or Form W-2 to Contractor.

4.7 Contractor Compensation Arrangements. Contractor represents and warrants to Hospital that the compensation paid or to be paid by Contractor to any physician is and will at all times be fair market value for services and items actually provided by such physician, not taking into account the value or volume of referrals or other business generated by such physician for Hospital or any Affiliate. Contractor further represents and warrants to Hospital that Contractor has and will at all times maintain a written agreement with each physician receiving compensation from Contractor.

4.8 Cooperation.

(a) The Parties recognize that, during the term of this Agreement and for an undetermined time period thereafter, certain risk management issues, legal issues, claims or actions may arise that involve or could potentially involve the Parties and their respective employees and agents. The Parties further recognize the importance of cooperating with each other in good faith when such issues, claims or actions arise, to the extent such cooperation does not violate any applicable laws, cause the breach of any duties created by any policies of insurance or programs of self-insurance, or otherwise compromise the confidentiality of communications or information regarding the issues, claims or actions. As such, the Parties hereby agree to cooperate in good faith, using their best efforts, to address such risk management and legal issues, claims, or actions.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

(b) The Parties further agree that if a controversy, dispute, claim, action or lawsuit (each, an **"Action"**) arises with a third party wherein both the Parties are included as defendants, each Party shall promptly disclose to the other Party in writing the existence and continuing status of the Action and any negotiations relating thereto. Each Party shall make every reasonable attempt to include the other Party in any settlement offer or negotiations. In the event the other Party is not included in the settlement, the settling Party shall immediately disclose to the other Party in writing the acceptance of any settlement and terms relating thereto, if allowed by the settlement agreement.

(c) Contractor shall cooperate with the individual designated by Hospital to have principal responsibility for the administration and operation of the Hospital. Such cooperation shall include supervision, selection, assignment, and evaluation of personnel; management and direction of equipment maintenance; development of budgets; and oversight of the acquisition of materials, supplies, and equipment.

(d) Contractor shall assist Hospital, as reasonably requested by Hospital, in Hospital's compliance with applicable laws and the standards, requirements, guidelines and recommendations of any governing or advisory body having authority to set standards relating to the operation of Hospital, or any nationally recognized accrediting organization that Hospital designates from time to time.

4.9 Contractor's Performance. County or Hospital, at its option and within its sole discretion, may seek evaluation of contractual performance by requesting input from Hospital's Medical Director/Chief Medical Officer and from other professionals within Hospital.

4.10 Right of Inspection. Upon reasonable prior written notice, Hospital and County officials and their designees may inspect the books and records of Contractor which are necessary to determine that work performed by Contractor or any Group Physician to patients hereunder is in accord with the requirements of this Agreement. Such inspection shall be made in a manner so as not to disrupt the operations of Hospital or Contractor.

4.11 Access to and Audit of Records. Hospital shall have the right to examine, monitor and audit all records, documents, conditions, and activities of the Contractor and its subcontractors related to services provided under this Agreement. Pursuant to Government Code Section 8546.7, if this Agreement involves the expenditure of public funds in excess of Ten Thousand Dollars ($10,000), the Parties may be subject, at the request of Hospital or as part of any audit of Hospital, to the examination and audit of the State Auditor pertaining to matters connected with the performance of this Agreement for a period of three (3) years after final payment under the Agreement.

ARTICLE V.
TERM AND TERMINATION

5.1 Term. This Agreement shall become effective on November 1, 2025 (the **"Effective Date"**), with Services commencing on December 6, 2025 (the "**Go-Live Date**") and shall continue until December 31, 2028 (the **"Expiration Date"**), subject to the termination provisions of this Agreement.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

5.2 Termination by Hospital. Hospital shall have the right to terminate this Agreement upon the occurrence of any one or more of the following events:

(a) breach of this Agreement by Contractor or any Group Physician where the breach is not cured within thirty (30) calendar days after Hospital gives written notice of the breach to Contractor;

(b) neglect of professional duty by Contractor or any Group Physician in a manner that poses an imminent danger to the health or safety of any individual, or violates Hospital's policies, rules or regulations;

(c) there is a "substantial change" in Contractor which has not received prior written approval or subsequent ratification by Hospital. The retirement, withdrawal, termination, or suspension of one (1) or more Group Physicians of Contractor at any time during the term of this Agreement shall be considered to be a "substantial change" in Contractor only if there is a reduction in hours equivalent to in excess of one full-time Group Physician. Notwithstanding anything in the foregoing to the contrary, the retirement, withdrawal, termination, or suspension of any single Group Physician of Contractor shall not constitute a "substantial change" in Contractor as that term is used herein;

(d) breach by Contractor or any Group Physician of any HIPAA Obligation (as defined in **Exhibit 6.3**);

(e) Contractor makes an assignment for the benefit of creditors, admits in writing the inability to pay its debts as they mature, applies to any court for the appointment of a trustee or receiver over its assets, or upon commencement of any voluntary or involuntary proceedings under any bankruptcy, reorganization, arrangement, insolvency, readjustment of debt, dissolution liquidation or other similar law of any jurisdiction;

(f) the insurance required to be maintained by Contractor under this Agreement is terminated, reduced below the minimum coverage requirements set forth in this Agreement, not renewed or cancelled (whether by action of the insurance company or Contractor) for any reason, and Contractor has not obtained replacement coverage as required by this Agreement prior to the effective date of such termination, reduction, non-renewal or cancellation;

(g) Contractor is rendered unable to comply with the terms of this Agreement for any reason; or

(h) upon a sale of all or substantially all assets comprising Hospital's acute care hospital facility, any change of control in Hospital's organization, or any change in control of its day to day operations, whether through a membership change or by management contract. Hospital shall notify Contractor in writing of such sale or change of control at least thirty (30) days prior to the closing date of any such sale or the effective date of any such change of control.

5.3 Termination by Contractor. Contractor shall have the right to terminate this Agreement upon breach of this Agreement by Hospital where the breach is not cured within thirty (30) calendar days after Contractor gives written notice of the breach to Hospital.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

5.4 Termination or Modification in the Event of Government Action.

(a) If the Parties receive notice of any Government Action, the Parties shall attempt to amend this Agreement in order to comply with the Government Action.

(b) If the Parties, acting in good faith, are unable to make the amendments necessary to comply with the Government Action, or, alternatively, if either Party determines in good faith that compliance with the Government Action is impossible or infeasible, this Agreement shall terminate ten (10) calendar days after one Party notices the other of such fact.

(c) For the purposes of this Section, **"Government Action"** shall mean any legislation, regulation, rule or procedure passed, adopted or implemented by any federal, state or local government or legislative body or any private agency, or any notice of a decision, finding, interpretation or action by any governmental or private agency, court or other third party which, in the opinion of counsel to Hospital, because of the arrangement between the Parties pursuant to this Agreement, if or when implemented, would:

(i) revoke or jeopardize the status of any health facility license granted to Hospital or any Affiliate of Hospital;

(ii) revoke or jeopardize the federal, state or local tax-exempt status of Hospital or any Affiliate of Hospital, or their respective tax-exempt financial obligations;

(iii) prevent Contractor or any Group Physician from being able to access and use the facilities of Hospital or any Affiliate of Hospital;

(iv) constitute a violation of 42 U.S.C. Section 1395nn (commonly referred to as the Stark law) if Contractor or any Group Physician referred patients to Hospital or any Affiliate of Hospital;

(v) prohibit Hospital or any Affiliate of Hospital from billing for services provided to patients referred to by Contractor or any Group Physician;

(vi) subject Hospital or Contractor, any Group Physician, or any Affiliate of Hospital, or any of their respective employees or agents, to civil or criminal prosecution (including any excise tax penalty under Internal Revenue Code Section 4958), on the basis of their participation in executing this Agreement or performing their respective obligations under this Agreement; or

(vii) jeopardize Hospital's full accreditation with any accrediting organization as Hospital designates from time to time.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

(d) For the purposes of this Agreement, **"Affiliate"** shall mean any entity which, directly or indirectly, controls, is controlled by, or is under common control with Hospital.

5.5 Termination without Cause. Either Party may terminate this Agreement without cause, expense or penalty, effective one hundred twenty (120) calendar days after written notice of termination is given to the other Party.

5.6 Effect of Termination or Expiration. Upon any termination or expiration of this Agreement:

(a) all rights and obligations of the Parties shall cease except (i) those rights and obligations that have accrued and remain unsatisfied prior to the termination or expiration of this Agreement, and (ii) those rights and obligations which expressly survive termination or expiration of this Agreement;

(b) upon Hospital's request, Contractor and any Group Physician shall immediately vacate the premises, removing any and all of Contractor's and Group Physicians' personal property, and Hospital may remove and store, at Contractor's expense, any personal property that either Contractor or any Group Physician has not so removed;

(c) Contractor and Group Physicians shall immediately return to Hospital all of Hospital's property, including Hospital's equipment, supplies, furniture, furnishings and patient records, in Contractor's or Group Physicians' possession or under Contractor's or Group Physicians' control;

(d) Contractor and Group Physicians shall not do anything or cause any other person to do anything that interferes with Hospital's efforts to engage any other person or entity for the provision of the Services, or interferes in any way with any relationship between Hospital and any other person or entity who may be engaged to provide the Services to Hospital;

(e) The expiration or termination of this Agreement shall not entitle Contractor or Group Physicians to the right to a "fair hearing" or any other similar rights or procedures more particularly set forth in the Medical Staff bylaws or otherwise; and

(f) This Section 5.6 shall survive the expiration or termination for any reason of this Agreement.

5.7 Immediate Removal of Group Physicians. Contractor shall immediately remove any Group Physician from furnishing Services under this Agreement who:

(a) has his or her Medical Staff membership or clinical privileges at Hospital terminated, suspended, revoked or relinquished for any reason, whether voluntarily or involuntarily, temporarily or permanently, regardless of the availability of civil or administrative hearing rights or judicial review with respect thereto;

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

(b) has his or her license to practice medicine in the State, DEA registration denied, suspended, restricted, terminated, revoked or relinquished for any reason, whether voluntarily or involuntarily, temporarily or permanently, regardless of the availability of civil or administrative hearing rights or judicial review with respect thereto;

(c) is convicted of a felony, a misdemeanor involving fraud, dishonesty, or moral turpitude, or any crime relevant to Professional Services or the practice of medicine;

(d) is debarred, suspended, excluded or otherwise ineligible to participate in any Federal Health Care Program or state equivalent;

(e) fails to satisfy any of the standards and qualifications set forth in Sections 1.6, 1.7, 1.9, 1.10 and 1.11 of this Agreement; or

(f) fails to be covered by the professional liability insurance required to be maintained under this Agreement.

5.8 Removal of Group Physicians upon Hospital Request. Upon written request by Hospital, Contractor shall immediately remove any Group Physician from furnishing Services under this Agreement who:

(a) engages in conduct that, in Hospital's good faith determination, jeopardizes the mental or physical health, safety or well-being of any person or damages the reputation of Hospital;

(b) fails to comply with any other material terms or conditions of this Agreement after being given written notice of that failure and a reasonable opportunity to comply;

(c) within a twelve (12) month period, has two (2) or more medical malpractice judgments filed against him or her, or he or she becomes the subject of two (2) or more proceedings by the Medical Staff regarding the performance of professional medical services.

5.9 Effect of Removal. Upon the removal of a Group Physician pursuant to Section 5.7 or Section 5.8 of this Agreement, Contractor shall employ, contract with, or otherwise engage, at its cost and expense, a qualified substitute for the removed Group Physician, or shall demonstrate to Hospital's satisfaction Contractor's ability to continuously perform the Services without such a substitute. Failure to take such action shall constitute a material breach of this Agreement, subject to Section 5.2. Nothing herein shall be construed to limit Hospital's rights under Section 5.2 or any other provision of this Agreement.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

5.10 Return of Property. Upon any termination or expiration of this Agreement, Contractor shall immediately return to Hospital all of Hospital's property, including Hospital's equipment, supplies, furniture, furnishings and patient records, which is in Contractor's or any Group Physician's possession or under Contractor's or any Group Physician's control.

5.11 Termination or Amendment in Response to Reduction of Government Funding. Notwithstanding any other provision of this Agreement, if Federal, State or local government terminates or reduces its funding to the County for services that are to be provided under this Agreement, County, in its sole and absolute discretion after consultation with the Contractor, may elect to terminate this Agreement by giving written notice of termination to Contractor effective immediately or on such other date as County specifies in the notice. Alternatively, County and Contractor may mutually agree to amend the Agreement in response to a reduction in Federal, State or local funding.

ARTICLE VI.
GENERAL PROVISIONS

6.1 Amendment. This Agreement may be modified or amended only by mutual written agreement of the Parties. Any such modification or amendment must be in writing, dated and signed by the Parties and attached to this Agreement.

6.2 Assignment. This Agreement is entered into by Hospital in reliance on the professional and administrative skills of Contractor. Contractor shall be solely responsible for providing the Services and otherwise fulfilling the terms of this Agreement, except as specifically set forth in this Agreement. Except for assignment by Hospital to an entity owned, controlled by, or under common control with Hospital, neither Party may assign any interest or obligation under this Agreement without the other Party's prior written consent. Subject to the foregoing, this Agreement shall be binding on and shall inure to the benefit of the Parties and their respective successors and assigns.

6.3 Compliance with HIPAA. Contractor and Group Physicians shall comply with the obligations under the Health Insurance Portability and Accountability Act of 1996 (42 U.S.C. § 1320d et seq.), as amended by the Health Information Technology for Economic and Clinical Health Act of 2009, and all rules and regulations promulgated thereunder (collectively, **"HIPAA,"** the obligations collectively referred to herein as **"HIPAA Obligations"**), as set forth in **Exhibit 6.3**. The HIPAA Obligations shall survive the expiration or termination of this Agreement for any reason.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

6.4 Compliance with Laws and Accreditation. Contractor shall comply with all applicable laws, ordinances, codes and regulations of federal, state and local governments (collectively, **"Laws"**) applicable to Contractor, the provision of the Services, or the obligations of Contractor under this Agreement, including without limitation laws that require Contractor to disclose any economic interest or relationship with Hospital, the Emergency Medical Treatment and Active Labor Act and the rules and regulations thereunder (**"EMTALA"**), and California Health and Safety Code Section 1317 and the rules and regulations thereunder (**"Health and Safety Code §1317"**). Contractor shall perform and handle all patient transfers and reports in accordance with applicable Laws, including EMTALA, and Health and Safety Code §1317. Contractor shall take actions necessary to ensure that the Hospital is operated in accordance with: all requirements of a nationally recognized accrediting organization that Hospital designates from time to time, all applicable licensing requirements, and all other relevant requirements promulgated by any federal, state or local agency.

6.5 Compliance with Medicare Rules. To the extent required by law or regulation, Contractor shall make available, upon written request from Hospital, the Secretary of Health and Human Services, the Comptroller General of the United States, or any other duly authorized agent or representative, a copy of this Agreement and Contractor's books, documents and records. Contractor shall preserve and make available such books, documents and records for a period of ten (10) years after the end of the term of this Agreement, or the length of time required by state or federal law. If Contractor is requested to disclose books, documents or records pursuant to this Section for any purpose, Contractor shall notify Hospital of the nature and scope of such request, and Contractor shall make available, upon written request of Hospital, all such books, documents or records. Contractor shall indemnify and hold harmless Hospital if any amount of reimbursement is denied or disallowed because of Contractor's failure to comply with the obligations set forth in this Section. Hospital shall remain responsible for any losses solely attributable to its own billing practices. Such indemnity shall include, but not be limited to, the amount of reimbursement denied, plus any interest, penalties and legal costs. This Section shall survive the expiration or termination for any reason of this Agreement.

If Contractor carries out any of the duties of the contract through a subcontract, with a value or cost of Ten Thousand Dollars ($10,000) or more over a twelve (12) month period, with a related organization, such subcontract shall contain a clause to the effect that until the expiration of ten (10) years after the furnishing of such Services pursuant to such subcontract, the related organization shall make available, upon written request by the Secretary, or upon request by the Comptroller General, or any of their duly authorized representatives, the subcontract and books, documents and records of such organization that are necessary to verify the nature and extent of such costs.

6.6 Confidential Information.

(a) During the term of this Agreement, Contractor and Group Physicians may have access to and become acquainted with Trade Secrets and Confidential Information of Hospital. **"Trade Secrets"** includes information and data relating to payor contracts and accounts, clients, patients, patient groups, patient lists, billing practices and procedures, business techniques and methods, strategic plans, operations and related data. **"Confidential Information"** includes Trade Secrets and any information related to the past, current or

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

proposed operations, business or strategic plans, financial statements or reports, technology or services of Hospital or any Affiliate that Hospital discloses or otherwise makes available in any manner to Contractor or Group Physicians, or to which Contractor or Group Physicians may gain access in the performance of the Services under this Agreement, or which Contractor or any Group Physician knows or has reason to know is confidential information of Hospital or any Affiliate; whether such information is disclosed orally, visually or in writing, and whether or not bearing any legend or marking indicating that such information or data is confidential. By way of example, but not limitation, Confidential Information includes any and all know-how, processes, manuals, confidential reports, procedures and methods of Hospital, any Hospital patient's individually identifiable health information (as defined under HIPAA), and any information, records and proceedings of Hospital and/or Medical Staff committees, peer review bodies, quality committees and other committees or bodies charged with the evaluation and improvement of the quality of care. Confidential Information also includes proprietary or confidential information of any third party that may be in Hospital's or any Affiliate's possession.

(b) Confidential Information shall be and remain the sole property of Hospital, and shall, as applicable, be proprietary information protected under the Uniform Trade Secrets Act. Neither Contractor nor any Group Physician shall use any Confidential Information for any purpose not expressly permitted by this Agreement, or disclose any Confidential Information to any person or entity, without the prior written consent of Hospital. Contractor and Group Physicians shall protect the Confidential Information from unauthorized use, access, or disclosure in the same manner as Contractor and any Group Physician protects his, her, or its own confidential or proprietary information of a similar nature and with no less than reasonable care. All documents that Contractor and Group Physicians prepare, or Confidential Information that might be given to Contractor in the course of providing Services under this Agreement, are the exclusive property of Hospital, and, without the prior written consent of Hospital, shall not be removed from Hospital's premises.

(c) Contractor and Group Physicians shall return to Hospital all Confidential Information and all copies thereof in Contractor's and Group Physicians' possession or control, and permanently erase all electronic copies of such Confidential Information, promptly upon the written request of Hospital, or the termination or expiration of this Agreement. Neither Contractor nor any Group Physician shall copy, duplicate or reproduce any Confidential Information without the prior written consent of Hospital.

(d) Hospital acknowledges that in the course of performing Services under this Agreement, Contractor may disclose or Hospital may otherwise gain access to confidential or proprietary information belonging to Contractor, including without limitation, technology platforms, workflows, pricing structures, operational methods, and strategic plans ("Contractor Confidential Information"). Hospital agrees to maintain the confidentiality of all such Contractor Confidential Information with the same degree of care it uses to protect its own confidential information, and not less than reasonable care. Hospital shall not use or disclose Contractor Confidential Information for any purpose other than to fulfill its obligations under this Agreement and shall not disclose such information to any third party without the prior written consent of Contractor. The obligations in this section shall survive the termination or expiration

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

of this Agreement. This Agreement or any amendments thereto, including pricing terms, are deemed public records pursuant to the California Public Records Act.

(e) This Section shall survive the expiration or termination of this Agreement.

6.7 Counterparts. This Agreement may be executed in one or more counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.

6.8 Disclosure of Interests. Contractor or any Group Physician shall provide to Hospital, as requested by Hospital from time to time, information sufficient to disclose any ownership, investment or compensation interest or arrangement of Contractor, or any of Contractor's or any Group Physician's immediate family members, in any entity providing "designated health services" (as such term is defined in the Stark Law (42 U.S.C. Section 1395nn) and its regulations) or any other health care services. This Section shall not impose on Hospital any disclosure or reporting requirements or obligations imposed on Contractor or any Group Physician under any governmental program or create an assumption of such disclosure obligations by Hospital. Contractor and Group Physicians shall have the sole responsibility to fulfill any such federal and/or state reporting requirements or obligations.

6.9 Dispute Resolution. In the event of any dispute, controversy, claim or disagreement arising out of or related to this Agreement or the acts or omissions of the Parties with respect to this Agreement (each, a **"Dispute"**), the Parties shall resolve such Dispute as follows:

(a) **Meet and Confer.** The Parties shall, as soon as reasonably practicable, but in no case more than ten (10) days after one Party gives written notice of a Dispute to the other Party (the **"Dispute Notice"**), meet and confer in good faith regarding such Dispute at such time and place as mutually agreed upon by the Parties (the **"Meet and Confer"**). The obligation to conduct a Meet and Confer pursuant to this Section does not obligate either Party to agree to any compromise or resolution of the Dispute that such Party does not determine, in its sole and absolute discretion, to be a satisfactory resolution of the Dispute. The Meet and Confer shall be considered a settlement negotiation for the purpose of all applicable Laws protecting statements, disclosures or conduct in such context, and any offer in compromise or other statements or conduct made at or in connection with any Meet and Confer shall be protected under such Laws.

(b) **Arbitration.** If any Dispute is not resolved to the mutual satisfaction of the Parties within ten (10) business days after delivery of the Dispute Notice (or such other period as may be mutually agreed upon by the Parties in writing), the Parties shall submit such Dispute to arbitration conducted by Judicial Arbitration and Mediation Services, Inc. (**"JAMS"**), or other arbitration and/or mediation services company as agreed to by the Parties, in accordance with the following rules and procedures:

(i) Each Party may commence arbitration by giving written notice to the other Party demanding arbitration (the **"Arbitration Notice"**). The Arbitration Notice shall specify the Dispute, the particular claims and/or causes of actions alleged by the Party demanding

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

arbitration, and the factual and legal basis in support of such claims and/or causes of action.

(ii) The arbitration shall be conducted in the County in which the Hospital is located and in accordance with the commercial arbitration rules and procedures of JAMS (or other arbitration company as mutually agreed to by the Parties) to the extent such rules and procedures are not inconsistent with the provisions set forth in this Section. In the event of a conflict between any rules and/or procedures of JAMS (or other arbitration company as mutually agreed to by the Parties) and the rules and/or procedures set forth in this Section, the rules and/or procedures set forth in this Section shall govern.

(iii) The arbitration shall be conducted before a single impartial retired member of the JAMS panel of arbitrators (or panel of arbitrators from such other arbitration company as mutually agreed to by the Parties) covering the County in which the Hospital is located (the **"Panel"**). The Parties shall use their good faith efforts to agree upon a mutually acceptable arbitrator within thirty (30) days after delivery of the Arbitration Notice. If the Parties are unable to agree upon a mutually acceptable arbitrator within such time period, then each Party shall select one arbitrator from the Panel, and those arbitrators shall select a single impartial arbitrator from the Panel to serve as arbitrator of the Dispute.

(iv) The Parties expressly waive any right to any and all discovery in connection with the arbitration; provided, however, that each Party shall have the right to conduct no more than two (2) depositions and submit one set of interrogatories with a maximum of forty (40) questions, including subparts of such questions.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

(v) The arbitration hearing shall commence within thirty (30) days after appointment of the arbitrator. The substantive internal law (and not the conflict of laws) of the State shall be applied by the arbitrator to the resolution of the Dispute, and the Evidence Code of the State shall apply to all testimony and documents submitted to the arbitrator. The arbitrator shall have no authority to amend or modify the limitation on the discovery rights of the Parties or any of the other rules and/or procedures set forth in this Section. As soon as reasonably practicable, but not later than thirty (30) days after the arbitration hearing is completed, the arbitrator shall arrive at a final decision, which shall be reduced to writing, signed by the arbitrator and mailed to each of the Parties and their respective legal counsel.

(vi) Any Party may apply to a court of competent jurisdiction for entry and enforcement of judgment based on the arbitration award. The award of the arbitrator shall be final and binding upon the Parties without appeal or review except as permitted by the Arbitration Act of the State.

(vii) The fees and costs of JAMS (or other arbitration company as mutually agreed to by the Parties) and the arbitrator, including any costs and expenses incurred by the arbitrator in connection with the arbitration, shall be borne equally by the Parties, unless otherwise agreed to by the Parties.

(viii) Except as set forth in Section 6.9(b)(vii), each Party shall be responsible for the costs and expenses incurred by such Party in connection with the arbitration, including its own attorneys' fees and costs; provided, however, that the arbitrator shall require one Party to pay the costs and expenses of the prevailing Party, including attorneys' fees and costs and the fees and costs of experts and consultants, incurred in connection with the arbitration if the arbitrator determines that the claims and/or position of a Party were frivolous and without reasonable foundation.

(c) **Waiver of Injunctive or Similar Relief.** The Parties hereby waive the right to seek specific performance or any other form of injunctive or equitable relief or remedy arising out of any Dispute, except that such remedies may be utilized for purposes of enforcing this Section and sections governing Confidential Information, Compliance with HIPAA, Compliance with Laws and Accreditation and Compliance with Medicare Rules of this Agreement. Except as expressly provided herein, upon any determination by a court or by an arbitrator that a Party has breached this Agreement or improperly terminated this Agreement, the other Party shall accept monetary damages, if any, as full and complete relief and remedy, to the exclusion of specific performance or any other form of injunctive or equitable relief or remedy.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

(d) **Injunctive or Similar Relief.** Notwithstanding anything to the contrary in this Section, the Parties reserve the right to seek specific performance or any other form of injunctive relief or remedy in any state or federal court located within the County in which the Hospital is located for purposes of enforcing this Section and sections governing Confidential Information, Compliance with HIPAA, Compliance with Laws and Accreditation and Compliance with Medicare Rules of this Agreement. Contractor hereby consents to the jurisdiction of any such court and to venue therein, waives any and all rights under the Laws of any other state to object to jurisdiction within the State, and consents to the service of process in any such action or proceeding, in addition to any other manner permitted by applicable Law, by compliance with the notices provision of this Agreement. The non-prevailing Party in any such action or proceeding shall pay to the prevailing Party reasonable fees and costs incurred in such action or proceeding, including attorneys' fees and costs and the fees and costs of experts and consultants. The prevailing Party shall be the Party who is entitled to recover its costs of suit (as determined by the court of competent jurisdiction), whether or not the action or proceeding proceeds to final judgment or award.

(e) **Survival.** This Section shall survive the expiration or termination of this Agreement.

6.10 Entire Agreement. This Agreement is the entire understanding and agreement of the Parties regarding its subject matter, and supersedes any prior oral or written agreements, representations, understandings or discussions between the Parties. No other understanding between the Parties shall be binding on them unless set forth in writing, signed and attached to this Agreement.

6.11 Exhibits. The attached exhibits, together with all documents incorporated by reference in the exhibits, form an integral part of this Agreement and are incorporated by reference into this Agreement, wherever reference is made to them to the same extent as if they were set out in full at the point at which such reference is made.

6.12 Force Majeure. Neither Party shall be liable for nonperformance or defective or late performance of any of its obligations under this Agreement to the extent and for such periods of time as such nonperformance, defective performance or late performance is due to reasons outside such Party's control, including acts of God, war (declared or undeclared), terrorism, action of any governmental authority, civil disturbances, riots, revolutions, vandalism, accidents, fire, floods, explosions, sabotage, nuclear incidents, lightning, weather, earthquakes, storms, sinkholes, epidemics, failure of transportation infrastructure, disruption of public utilities, supply chain interruptions, information systems interruptions or failures, breakdown of machinery or strikes (or similar nonperformance, defective performance or late performance of employees, suppliers or subcontractors); provided, however, that in any such event, each Party shall use its good faith efforts to perform its duties and obligations under this Agreement.

6.13 Governing Law. This Agreement shall be construed in accordance with and governed by the laws of the State.

6.14 Headings. The headings in this Agreement are intended solely for convenience of reference and shall be given no effect in the construction or interpretation of this Agreement.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

6.15 Litigation Consultation. Contractor shall ensure that no Group Physician accepts consulting assignments or otherwise contract, agree, or enter into any arrangement to provide expert testimony or evaluation on behalf of a plaintiff in connection with any claim against Hospital or any Affiliate named, or expected to be named as a defendant. Contractor shall ensure that no Group Physician accepts similar consulting assignments if (a) the defendants or anticipated defendants include a member of the medical staff of Hospital or any Affiliate, and (b) the matter relates to events that occurred at Hospital or any Affiliate; provided, however, the provisions of this Section shall not apply to situations in which a Group Physician served as a treating physician.

6.16 Master List. The Parties acknowledge and agree that this Agreement, together with any other contracts between Hospital and Contractor, will be included on the master list of physician contracts maintained by Hospital.

6.17 Meaning of Certain Words. Wherever the context may require, any pronouns used in this Agreement shall include the corresponding masculine, feminine, or neuter forms, and the singular form of nouns shall include the plural and vice versa. Unless otherwise specified: (i) "days" shall be considered "calendar days;" (ii) "months" shall be considered "calendar months;" and (iii) "including" means "including, without limitation" in this Agreement and its exhibits and attachments.

6.18 New Group Physicians. Each new Group Physician shall agree in writing to be bound by the terms of and conditions of this Agreement.

6.19 No Conflicting Obligations. Contractor represents and warrants that the execution and delivery of this Agreement and the performance of its obligations hereunder do not and will not: (a) present a conflict of interest or materially interfere with the performance of Contractor's duties under any other agreement or arrangement; or (b) violate, conflict with, or result in a breach of any provision of, or constitute a default (or an event which, with notice and/or lapse of time, would constitute a default) under, terminate, accelerate the performance required by, or result in a right of termination or acceleration under any of the terms, conditions or provisions of any other agreement, indebtedness, note, bond, indenture, security or pledge agreement, license, franchise, permit, or other instrument or obligation to which Contractor is a party or by which Contractor is bound. Contractor shall immediately inform Hospital of any other agreements to which Contractor is a party that may present a conflict of interest or materially interfere with performance of Contractor's or Group Physicians' duties under this Agreement.

6.20 No Third Party Beneficiary Rights. The Parties do not intend to confer and this Agreement shall not be construed to confer any rights or benefits to any person, firm, group, corporation or entity other than the Parties.

6.21 Notices. All notices or communications required or permitted under this Agreement shall be given in writing and delivered personally or sent by United States registered or certified mail with postage prepaid and return receipt requested or by overnight delivery service (e.g., Federal Express, DHL). Notice shall be deemed given when sent, if sent as

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

specified in this Section, or otherwise deemed given when received. In each case, notice shall be delivered or sent to:

If to Hospital, addressed to:

NATIVIDAD MEDICAL CENTER
1441 Constitution Blvd., Bldg. 300
Salinas, California 93906
Attention: Physician Services

If to Contractor, addressed to:

ATP Partners of California, P.C.
10175 Fortune Parkway, Suite 302
Jacksonville, FL 322556

6.22 Participation in Federal Health Care Programs. Contractor hereby represents that neither it nor any Group Physician is debarred, suspended, excluded or otherwise ineligible to participate in any Federal Health Care Program.

6.23 Representations. Each Party represents with respect to itself that: (a) no representation or promise not expressly contained in this Agreement has been made by any other Party or by any Parties' agents, employees, representatives or attorneys; (b) this Agreement is not being entered into on the basis of, or in reliance on, any promise or representation, expressed or implied, other than such as are set forth expressly in this Agreement; and (c) Party has been represented by legal counsel of Party's own choice or has elected not to be represented by legal counsel in this matter.

6.24 Severability. If any provision of this Agreement is determined to be illegal or unenforceable, that provision shall be severed from this Agreement, and such severance shall have no effect upon the enforceability of the remainder of this Agreement.

6.25 Statutes and Regulations. Any reference in this Agreement to any statute, regulation, ruling, or administrative order or decree shall include, and be a reference to any successor statute, regulation, ruling, or administrative order or decree.

6.26 Waiver. No delay or failure to require performance of any provision of this Agreement shall constitute a waiver of that provision as to that or any other instance. Any waiver granted by a Party must be in writing to be effective, and shall apply solely to the specific instance expressly stated.

[*signature page follows*]

The Parties have executed this Agreement on the date first above written, and signify their agreement with duly authorized signatures.

CONTRACTOR

ATP PARTNERS OF CALIFORNIA, P.C., a California professional corporation

DocuSigned by:
By: Waqas Ahmed Date: 9/24/2025 | 2:00 PM EDT
5D7F3507C415411...
Its CEO

By: _____
Its _____

NATIVIDAD MEDICAL CENTER

_____ Date: _____
Deputy Purchasing Agent

APPROVED AS TO LEGAL PROVISIONS:

DocuSigned by:
Stacy Saetta Date: 9/24/2025 | 2:43 PM PDT
C0ECE1B99F444A9...
Stacy Saetta, Deputy County Counsel

APPROVED AS TO FISCAL PROVISIONS:

DocuSigned by:
Patricia Ruiz Date: 9/25/2025 | 1:52 PM PDT
E79EF64E57454F6...
Deputy Auditor/Controller

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

Exhibit 1.1(a)

PROFESSIONAL SERVICES

1. Contractor shall provide sufficient amount of Group Physicians for the continuous coverage for ED and Hospital Patients.

2. At least one Group Physician shall be available daily to provide Telemedicine Service for Patients on the floor and in the ICU, with support from an onsite nurse or designated hospital staff member. Neurologists shall conduct video consultations using a mutually agreed-upon telemedicine platform, including the NeuroX platform if selected, and shall document encounters in the Hospital's EMR system directly or through available integration.

3. Telemedicine Services will be delivered using the Hospital's existing telehealth carts and hardware. Contractor shall utilize a secure and compliant telemedicine platform agreed upon by both Parties for conducting video consultations and coordinating care. The NeuroX platform may be used for this purpose if mutually agreed. Contractor will collaborate with the Hospital's IT team to ensure access, support, and documentation compatibility.

4. Hospital shall identify and schedule appropriate onsite personnel to support the delivery of Telemedicine Services. These Hospital staff members shall be trained in accordance with Contractor's standard training protocols and made available during scheduled Tele-Rounding hours.

a. Typical Diagnoses May Include:
Subacute stroke/TIA management, encephalopathy, vertigo, headache, epilepsy, and similar conditions.

b. Out-of-Scope Diagnoses Include:
Neurosurgical conditions, brain death determination, hypoxic-ischemic injury prognostication, and spinal or peripheral nervous system disorders that require in-person evaluation.

c. Hospital Staff Responsibilities:
Hospital shall designate clinical staff to perform medically necessary procedures as ordered by the consulting neurologist, including but not limited to:
- CT Scan
- EKG
- EEG
- STAT laboratory tests
- MRI
- Lumbar puncture

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

- Echocardiogram

If such procedures are unavailable, Contractor may recommend transfer of the patient to another facility, where appropriate.

d. Onsite Support During Service Hours:
Hospital shall ensure coverage by an onsite physician and trained tele-presenter.
i. The tele-presenter must be proficient in conducting Neurological Assessments under remote physician supervision.
ii. Neurologic evaluations are limited by the skills of the tele-presenter, available clinical data, and technology. When limitations impact diagnostic certainty, the consulting physician may recommend a higher level of care or patient transfer.

e. The Contractor shall not be liable for delays in service delivery resulting from temporary downtime, internet outages, or other technical interruptions of the cart or platform. Contractor shall also not be responsible for clinical outcomes impacted by any technical limitations beyond its control.

f. Clinical Criteria and Workflow:
Hospital shall collaborate with Contractor to establish appropriate clinical criteria and care pathways for Telemedicine Services. These criteria shall be documented in an Operating Manual maintained by both Parties.

g. Workflow Finalization:
Hospital and Contractor shall mutually define and agree upon an inpatient clinical workflow to ensure smooth service delivery, including, without limitation, the following:

i. indirect physical examination, history taking, diagnostic protocols (paper and/or computer driven), imaging analysis and recommendations for therapeutic interventions and/or diagnostic tests for any neurologic emergencies. Hospital shall ensure that an appropriate healthcare provider (physician, NP, PA, or specifically trained RN) is available at the bedside at the time of the consult to assist with the physical exam;

ii. videoconferencing and teleconferencing, including the discussions between the Group Physician and the patient, the patient's family members and/or adult(s) accompanying the patient regarding any neurologic emergency;

iii. transmission of still images and of vital signs to provide Hospital's physicians with assistance with diagnosis and therapy for specific Patients with neurologic emergencies; and

iv. review of information may include, results, images, reports or records in synchronous (video chat/screen share) or asynchronous (file/document/video recording review). In no case does any Group Physician assume the primary responsibility for the care of the Patient.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

Group Physicians shall transmit the results of their assessment and recommendation to the Patient's attending physician within approximately thirty (30) minutes after the evaluation is completed.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

Attachment C

Neurox Platform and Support Services. Contractor shall deliver its proprietary telemedicine platform ("NeuroX platform (powered by SmartClinix)") for use by the Hospital in connection with the services under this Agreement. Contractor shall not supply telemedicine carts or hardware unless explicitly requested by Hospital. If requested, carts shall be made available on a lease basis at $50 per cart per calendar day. A one-time setup and configuration fee of $2,000 will apply per cart leased.

1. **Platform Support**. Contractor shall provide 24/7 remote technical support for the NeuroX platform (powered by SmartClinix), including assistance with login issues, software navigation, connectivity, and performance. Contractor is not responsible for resolving hardware or local network issues within the Hospital's environment.

2. **Hospital Responsibilities**. Hospital shall be solely responsible for the procurement, functionality, maintenance, and support of all hardware used for telemedicine services, including carts, peripherals, and local IT infrastructure. Hospital shall serve as the first line of support for any technical issues, as most issues typically involve connectivity, hardware setup, or facility-related configurations.

    a. Hospital shall ensure compatibility of its equipment with the NeuroX platform (powered by SmartClinix) based on technical requirements provided by Contractor.

    b. Hospital's IT team shall support Contractor's IT team in addressing platform-related issues, including providing access, logs, or other technical information necessary for troubleshooting and platform optimization.

    c. Hospital shall ensure compatibility of its equipment with the NeuroX platform, based on Contractor's technical requirements.

    d. Hospital shall provide adequate internal IT support to resolve any issues related to its own equipment, internet connectivity, or facility-specific systems.

3. **Limited Warranty.** Contractor warrants that platform support services will be delivered in a professional and workmanlike manner by qualified personnel. Except for the express warranty above, Contractor disclaims all other warranties, including any implied warranties of merchantability or fitness for a particular purpose. Contractor does not warrant uninterrupted access or compatibility with Hospital-owned systems.

4. **Optional Cart Leasing (If requested).** Should the Hospital request Contractor to supply telemedicine carts or other physical equipment, a separate Equipment Lease Addendum shall be executed outlining the applicable terms, including lease rates, setup fees, maintenance, and support responsibilities. Until such addendum is executed, Contractor shall have no obligation to supply or support any physical equipment.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

Exhibit 1.2

TEACHING SERVICES TO BE PROVIDED BY CONTRACTOR

Hospital is a teaching facility. Residents and/or students may be present from time to time. When reasonably requested by Hospital, Group Provider shall:

:

1. supervise patient care in a constructive and supportive way;

2. demonstrate effective interviewing, physical examination, procedures, use of diagnostic and therapeutic interventions, and medical records documentation;

3. create a professional role model; and

4. evaluate resident performance in a meaningful, objective fashion.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

Exhibit 1.3

ADDITIONAL SERVICES TO BE PROVIDED BY CONTRACTOR

Contractor shall:

1. provide teaching, educational or training services, as reasonably requested by Hospital;

2. participate in utilization review programs, as reasonably requested by Hospital;

3. participate in risk management, quality assurance and peer review programs, as reasonably requested by Hospital;

4. accept third party insured patients and referrals of patients which are made by members of the Medical Staff, subject only to the limitations of scheduling and Contractor's professional qualifications;

5.

6. assist Hospital management with all preparation for, and conduct of, any inspections and on-site surveys of Hospital conducted by governmental agencies or accrediting organizations;

7. cooperate with Hospital in all litigation matters affecting Contractor or Hospital, consistent with advice from Contractor's legal counsel;

8. cooperate and comply with Hospital's policies and procedures which are pertinent to patient relations, quality assurance, scheduling, billing, collections and other administrative matters and cooperate with Hospital's efforts to bill and collect fees for services rendered to Hospital's patients. All business transactions related to the Services provided by Contractor, such as enrollment, verification and billings, shall be conducted by and in the name of Hospital; and

9. assist Hospital in developing, implementing and monitoring a program by which quality measures are reportable to Hospital with respect to the Specialty.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

Exhibit 1.10

Natividad
Inspiring healthy lives

MEDICAL STAFF POLICY

Title: Practitioner Code of Conduct	**Number:** MSP004-2 BOT Approval: 1/2023
Standard: Medical Staff (MS)	MEC Approval: 12/22 Responsible: Medical Staff Services Manager

As a member of the Medical Staff or an Advanced Practice Professional (APP) of Natividad (collectively Practitioners), you must acknowledge that the ability of Practitioners and Natividad employees to jointly deliver high quality health care depends significantly upon their ability to communicate well, collaborate effectively, and work as a team, recognizing that patients, family members, visitors, colleagues and Natividad staff members must be treated in a dignified and respectful manner at all times.

1. **POLICY**

In keeping with the accepted standards of the health care profession as evidenced by the Hippocratic Oath, the Code of Ethics of the American Medical Association (AMA) and other professional societies, and the values of Natividad, Practitioners are leaders in maintaining professional standards of behavior. In keeping with this responsibility to maintain professional standards of behavior at Natividad, Practitioners:

1. Facilitate effective patient care by consistent, active, and cooperative participation as members of the Natividad health care team.

2. Recognize the individual and independent responsibilities of all other members of the Natividad health care team and their right to independently advocate on behalf of the patient.

3. Maintain respect for the dignity and sensitivities of patients and families, as well as colleagues, Natividad employees, and all other health care professionals.

4. Participate in the Medical Staff quality assessment and peer review activities, and in organizational performance improvement activities.

5. Reflect positively upon the reputation of the health care profession, the Medical Staff, and Natividad in their language, action, attitude, and behavior.

6. Commit and contribute to the overall educational mission of Natividad and promote an effective, inclusive, equitable and supportive clinical learning environment.

Behaviors of Practitioners which do not meet the professional behavior standards established in

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

this Code of Conduct (Code) shall be referred to as Disruptive or Unprofessional Behavior.

Disruptive or Unprofessional Behavior by Practitioners exhibited on the premises of Natividad, whether or not the Practitioner is on duty or functioning in his/her professional capacity, are subject to this Code.

2. EXAMPLES OF PROFESSIONAL BEHAVIOR

Practitioners are expected to exhibit professional behavior at Natividad, consistent with this Code, as follows:

1. Be consistently available with cooperative and timely responsiveness to appropriate requests from physicians, nurses, and all other members of the Natividad health care team in patient care and other professional responsibilities.

2. Provide for and communicate alternate coverage arrangements to assure the continuity and quality of care.

3. Demonstrate language, action, attitude, and behavior which consistently convey to patients, families, colleagues, and all other members of the Natividad health care team a sense of compassion and respect for human dignity.

4. Understand and accept individual cultural differences.

5. Maintain appropriate, timely, and legible medical record entries which enable all Natividad professionals to understand and effectively participate in a cohesive plan of management to assure continuity, quality, and efficiency of care and effective post-discharge planning and follow-up.

6. Respect the right of patients, families, or other designated surrogates to participate in an informed manner in decisions pertaining to patient care.

7. Treat patients and all persons functioning in any capacity within Natividad with courtesy, respect, and human dignity.

8. Conduct one's practice at Natividad in a manner that will facilitate timely commencement of medical/surgical procedures at Natividad, including but not limited to, timely arrival at the hospital, pre-ordering all needed special equipment and/or supplies, and timely notification of required staff.

3. EXAMPLES OF DISRUPTIVE OR UNPROFESSIONAL BEHAVIOR

Disruptive or Unprofessional Behavior, as characterized in this Code, includes but is not limited to:

1. Misappropriation or unauthorized removal or possession of Natividad owned property.

2. Falsification of medical records, including timekeeping records and other Natividad documents.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

3. Working under the influence of alcohol or illegal drugs.

4. Working under the influence of prescription or over-the-counter medications when use of such medications significantly affects the practitioner's level of cognitive functioning.

5. Possession, distribution, purchase, sale, transfer, transport, or use of illegal drugs in the workplace.

6. Possession of dangerous or unauthorized materials such as explosives, firearms, or other weapons in the workplace.

7. Writing derogatory and/or accusatory notes in the medical record which are not necessary for the provision of quality patient care services. Concerns regarding the performance of other Practitioners or Natividad employees should generate an Occurrence Report in Verge and submit pursuant to Natividad policy and should not be entered into the patient's medical record.

8. Harassment

    a. Harassment is verbal or physical contact that denigrates or shows hostility or aversion toward an individual based on race, religion, color, national origin, ancestry, age, disability, marital status, gender, sexual orientation, or any other basis protected by federal, state, or local law or ordinance, and that:

        1. Has the purpose or effect of creating an intimidating, hostile, or offensive working environment, or;

        2. Has the purpose or effect of unreasonably interfering with an individual's work performance, or;

        3. Otherwise aversely affects an individual's employment opportunity.

    b. Harassing conduct includes, but is not limited to:

        1. Epithets, slurs, negative stereotyping, threatening, intimidating, or hostile acts that relate to race, religion, color, national origin, ancestry, age, disability, marital status, gender, or sexual orientation.

        2. Written material or illustrations that denigrate or show hostility or aversion toward an individual or group because of race, religion, color, national origin, ancestry, age, disability, marital status, gender, or sexual orientation, and is placed on walls; bulletin boards, or elsewhere on Natividad's premises or circulated in the workplace.

9. Physical behavior that is harassing, intimidating, or threatening, from the viewpoint of the recipient, including touching, obscene or intimidating gestures, or throwing of objects.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

10. Passive behaviors, such as refusing to perform assigned tasks or to answer questions, return phone calls, or pages.

11. Language that is a reasonable adult would consider to be foul, abusive, degrading, demeaning, or threatening, such as crude comments, degrading jokes or comments, yelling, or shouting at a person, or threatening violence or retribution.

12. Single incident of egregious behavior, such as an assault or other criminal act.

13. Criticism of Natividad staff in front of patients, families, or other staff.

4. PROCEDURE

5. Any person who functions in any capacity at Natividad who observes Practitioner language, action, attitude, or behavior which may be unprofessional, harassing, or disruptive to the provision of quality patient care services should document the incident via an Occurrence Report in Verge.

6. Identified incidents involving Practitioners shall be reviewed pursuant to the current Road Map for Handling Reports of Disruptive or Unprofessional Behavior or the County Sexual Harassment Policy, as determined by the nature of the behavior and the person who exhibits it.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

Natividad
Inspiring healthy lives

MEDICAL STAFF POLICY

Title: Practitioner Code of Conduct	**Effective:** 05/09 **Reviewed/Revised:** 12/22
Standard: MSP004-2	**Approved:** **MEC** 12/22 **BOT** 1/23

I acknowledge that I have received and read this Practitioner Code of Conduct. I acknowledge that hospitals are required to define and address disruptive and inappropriate conduct to comply with The Joint Commission standards for accreditation. I agree to adhere to the guidelines in this Code and conduct myself in a professional manner. I further understand that failure to behave in a professional fashion may result in disciplinary actions set forth in the RoadMap for Handling Reports of Disruptive or Unprofessional Behavior or as determined by the Medical Executive Committee pursuant to the Medical Staff Bylaws.

Printed name: _____

Signature: _____ Date: _____

Exhibit 1.10-1

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

Exhibit 1.21(a)

GROUP PHYSICIANS

[List Approved Group Physicians Below]

Group Physician	NPI Number

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

Exhibit 1.21(f)

LETTER OF ACKNOWLEDGEMENT

[Hospital Contact]
NATIVIDAD MEDICAL CENTER
1441 Constitution Blvd., Bldg. 300
Salinas, California 93906

Ladies and Gentlemen:

I acknowledge that NATIVIDAD MEDICAL CENTER (***"Hospital"***) and ATP Partners of California, P.C. (***"Contractor"***) have entered into a Professional and Call Coverage Services Agreement (***"Agreement"***) under which Contractor shall perform specified Services (as defined in the Agreement), and that I have been engaged by Contractor to provide Professional Services as a ***"Group Physician"*** (as defined in the Agreement). In consideration of Hospital's approval of me as a Group Physician eligible to furnish the Services, I expressly:

1. Acknowledge that I have read those portions of the Agreement referenced in this Letter of Acknowledgement, and agree to abide by and comply with all of the requirements of the Agreement applicable to Group Physicians;

2. Acknowledge that I have read the Code, and agree to abide by and comply with the Code as they relate to my business relationship with Hospital or any Affiliates, subsidiaries, employees, agents, servants, officers, directors, contractors and suppliers of every kind;

3. Acknowledge that I have no employment, independent contractor or other contractual relationship with Hospital, that my right to practice at Hospital as a Group Physician is derived solely through my employment or contractual relationship with Contractor;

4. Acknowledge that upon the expiration or termination of the Agreement for any reason, or the termination of my employment or other affiliation with Contractor for any reason my clinical privileges to provide Professional Services and my Medical Staff membership if such clinical privileges are the only privileges I hold, will each immediately be relinquished, without any action on the part of Hospital and/or the Medical Staff;

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

5. Acknowledge that, with regard to all of the foregoing, I will not be entitled to any "fair hearing" or any other hearing or appellate review under any provision of the Medical Staff Bylaws, unless Hospital determines that my removal, or the termination of my right to provide Professional Services, as applicable, is reportable to any state's medical board or other agency responsible for professional licensing, standards or behavior, and hereby waive any right to demand or otherwise initiate any such hearing or appellate review under any provision of the Medical Staff Bylaws.

Sincerely,

_____

[Name of Group Physician]

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

Exhibit 2.1

COMPENSATION

1. **Professional Services.** Hospital shall pay to Contractor for those Professional Services rendered by Contractor under this Agreement; provided, however, that Contractor is in compliance with the terms and conditions of this Agreement.

Service	Price
Coverage Services	$250 per calendar day
Each New Consult	$275 per encounter
Each Follow-Up Video Encounter	$175 per video consult
Telephone Consult (Physician-to-Physician)	$95 per consult
Telemedicine Platform with 24/7 IT Support	Included (No Additional Charge)
Routine EEG Reading (Inpatient or Outpatient)	$110 per study
EEG with Video Monitoring (Real-Time Charting)	Up to 12 Hours: $300 13–26 Hours: $450
EEG with Video Monitoring (Single Report)	36–60 Hours: $550 61–84 Hours: $640 >84 Hours: $800
EEG without Video Monitoring (Real-Time Charting)	Up to 12 Hours: $250 13–26 Hours: $375
EEG without Video Monitoring (Single Report)	36–60 Hours: $475 61–84 Hours: $550 >84 Hours: $675

2. **Timing.** Hospital shall pay the compensation due for Services performed by Contractor after Contractor's submission of an invoice of preceding activity in accordance with this Agreement; provided, however, that if Contractor does not submit an invoice within sixty (60) days of the end of the month during which Services were performed, Hospital shall not be obligated to pay Contractor for Services performed during that month. The County of Monterey Standard Payment Terms for contracts/PSAs and paying invoices is "30 days after receipt of the certified invoice in the Auditor-Controller's Office". No payments in advance or in anticipation of services or supplies to be provided under this Agreement shall be made by County.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

Exhibit 2.1-2

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

Exhibit 6.3

BUSINESS ASSOCIATE AGREEMENT

This Business Associate Agreement ("Agreement"), effective November 1, 2025 ("Effective Date"), is entered into by and among the County of Monterey, a political subdivision of the State of California, on behalf of Natividad Medical Center ("Covered Entity") and **ATP Partners of California, P.C.** ("Business Associate") (each a "Party" and collectively the "Parties").

Business Associate provides certain services for Covered Entity ("Services") that involve the use and disclosure of Protected Health Information that is created or received by Business Associate from or on behalf of Covered Entity ("PHI"). The Parties are committed to complying with the Standards for Privacy of Individually Identifiable Health Information, 45 C.F.R. Part 160 and Part 164, Subparts A and E as amended from time to time (the "Privacy Rule"), and with the Security Standards, 45 C.F.R. Part 160 and Part 164, Subpart C as amended from time to time (the "Security Rule"), under the Health Insurance Portability and Accountability Act of 1996 ("HIPAA"), as amended by the Health Information Technology for Economic and Clinical Health Act and its implementing regulations ("HITECH"). Business Associate acknowledges that, pursuant to HITECH, 45 C.F.R. §§ 164.308 (administrative safeguards), 164.310 (physical safeguards), 164.312 (technical safeguards), 164.316 (policies and procedures and documentation requirements) and 164.502 *et. seq.* apply to Business Associate in the same manner that such sections apply to Covered Entity. The additional requirements of Title XIII of HITECH contained in Public Law 111-005 that relate to privacy and security and that are made applicable with respect to covered entities shall also be applicable to Business Associate. The Parties are also committed to complying with the California Confidentiality of Medical Information Act, Ca. Civil Code §§ 56 *et seq.* ("CMIA"), where applicable. Business Associate acknowledges that the CMIA prohibits Business Associate from further disclosing the PHI it receives from Covered Entity where such disclosure would be violative of the CMIA. The Parties are also committed to complying with applicable requirements of the Red Flag Rules issued pursuant to the Fair and Accurate Credit Transactions Act of 2003 ("Red Flag Rules"). This Agreement sets forth the terms and conditions pursuant to which PHI, and, when applicable, Electronic Protected Health Information ("EPHI"), shall be handled. The Parties further acknowledge that state statutes or other laws or precedents may impose data breach notification or information security obligations, and it is their further intention that each shall comply with such laws as well as HITECH and HIPAA in the collection, handling, storage, and disclosure of personal data of patients or other personal identifying information exchanged or stored in connection with their relationship.

The Parties agree as follows:

1. DEFINITIONS

All capitalized terms used in this Agreement but not otherwise defined shall have the meaning set forth in the Privacy Rule, Security Rule and HITECH.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

2. PERMITTED USES AND DISCLOSURES OF PHI

2.1 Unless otherwise limited herein, Business Associate may:

(a) use or disclose PHI to perform functions, activities or Services for, or on behalf of, Covered Entity as requested by Covered Entity from time to time, provided that such use or disclosure would not violate the Privacy or Security Rules or the standards for Business Associate Agreements set forth in 45 C.F.R. § 164.504(e), exceed the minimum necessary to accomplish the intended purpose of such use or disclosure, violate the additional requirements of HITECH contained in Public Law 111-005 that relate to privacy and security, or violate the CMIA;

(b) disclose PHI for the purposes authorized by this Agreement only: (i) to its employees, subcontractors and agents; (ii) as directed by this Agreement; or (iii) as otherwise permitted by the terms of this Agreement;

(c) use PHI in its possession to provide Data Aggregation Services to Covered Entity as permitted by 45 C.F.R. § 164.504(e)(2)(i)(B);

(d) use PHI in its possession for proper management and administration of Business Associate or to carry out the legal responsibilities of Business Associate as permitted by 45 C.F.R. § 164.504(e)(4)(i);

(e) disclose the PHI in its possession to third parties for the proper management and administration of Business Associate to the extent and in the manner permitted under 45 C.F.R. § 164.504(e)(4)(ii); provided that disclosures are Required by Law , or Business Associate obtains reasonable assurances from the persons to whom the information is disclosed that it will remain confidential and used or further disclosed only as Required by Law or for the purpose for which it was disclosed to the person, and the person notifies the Business Associate of any instances of which it is aware in which the confidentiality of the information has been breached;

(f) use PHI to report violations of law to appropriate Federal and state authorities, consistent with 45 C.F.R. § 164.502(j)(1);

(g) de-identify any PHI obtained by Business Associate under this Agreement for further use or disclosure only to the extent such de-identification is pursuant to this Agreement, and use such de-identified data in accordance with 45 C.F.R. § 164.502(d)(1).

3. RESPONSIBILITIES OF THE PARTIES WITH RESPECT TO PHI

3.1 Responsibilities of Business Associate. With regard to its use and/or disclosure of PHI, Business Associate shall:

(a) use and/or disclose the PHI only as permitted or required by this Agreement or as otherwise Required by Law;

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

(b) report to the privacy officer of Covered Entity, in writing, (i) any use and/or disclosure of the PHI that is not permitted or required by this Agreement of which Business Associate becomes aware, and (ii) any Breach of unsecured PHI as specified by HITECH, within two (2) days of Business Associate's determination of the occurrence of such unauthorized use and/or disclosure. In such event, the Business Associate shall, in consultation with the Covered Entity, mitigate, to the extent practicable, any harmful effect that is known to the Business Associate of such improper use or disclosure. The notification of any Breach of unsecured PHI shall include, to the extent possible, the identification of each individual whose unsecured PHI has been, or is reasonably believed by the Business Associate to have been, accessed, acquired, used or disclosed during the Breach.

(c) use commercially reasonable safeguards to maintain the security of the PHI and to prevent use and/or disclosure of such PHI other than as provided herein;

(d) obtain and maintain an agreement with all of its subcontractors and agents that receive, use, or have access to, PHI pursuant to which agreement such subcontractors and agents agree to adhere to the same restrictions and conditions on the use and/or disclosure of PHI that apply to Business Associate pursuant to this Agreement;

(e) make available all internal practices, records, books, agreements, policies and procedures and PHI relating to the use and/or disclosure of PHI to the Secretary for purposes of determining Covered Entity or Business Associate's compliance with the Privacy Rule;

(f) document disclosures of PHI and information related to such disclosure and, within ten (10) days of receiving a written request from Covered Entity, provide to Covered Entity such information as is requested by Covered Entity to permit Covered Entity to respond to a request by an individual for an accounting of the disclosures of the individual's PHI in accordance with 45 C.F.R. § 164.528, as well as provide an accounting of disclosures, as required by HITECH, directly to an individual provided that the individual has made a request directly to Business Associate for such an accounting. At a minimum, the Business Associate shall provide the Covered Entity with the following information: (i) the date of the disclosure, (ii) the name of the entity or person who received the PHI, and if known, the address of such entity or person; (iii) a brief description of the PHI disclosed; and (iv) a brief statement of the purpose of such disclosure which includes an explanation of the basis for such disclosure. In the event the request for an accounting is delivered directly to the Business Associate, the Business Associate shall, within two (2) days, forward such request to the Covered Entity. The Business Associate shall implement an appropriate recordkeeping process to enable it to comply with the requirements of this Section;

(g) subject to Section 4.4 below, return to Covered Entity within twenty-one (21) days of the termination of this Agreement, the PHI in its possession and retain no copies, including backup copies;

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

(h) disclose to its subcontractors, agents or other third parties, and request from Covered Entity, only the minimum PHI necessary to perform or fulfill a specific function required or permitted hereunder;

(i) if all or any portion of the PHI is maintained in a Designated Record Set:

(i) upon ten (10) days' prior written request from Covered Entity, provide access to the PHI in a Designated Record Set to Covered Entity or, as directed by Covered Entity, the individual to whom such PHI relates or his or her authorized representative to meet a request by such individual under 45 C.F.R. § 164.524; and

(ii) upon ten (10) days' prior written request from Covered Entity, make any amendment(s) to the PHI that Covered Entity directs pursuant to 45 C.F.R. § 164.526;

(j) maintain policies and procedures to detect and prevent identity theft in connection with the provision of the Services, to the extent required to comply with the Red Flag Rules;

(k) notify the Covered Entity within five (5) days of the Business Associate's receipt of any request or subpoena for PHI. To the extent that the Covered Entity decides to assume responsibility for challenging the validity of such request, the Business Associate shall cooperate fully with the Covered Entity in such challenge;

(l) maintain a formal security program materially in accordance with all applicable data security and privacy laws and industry standards designed to ensure the security and integrity of the Covered Entity's data and protect against threats or hazards to such security

The Business Associate acknowledges that, as between the Business Associate and the Covered Entity, all PHI shall be and remain the sole property of the Covered Entity.

3.2 Additional Responsibilities of Business Associate with Respect to EPHI. In the event that Business Associate has access to EPHI, in addition to the other requirements set forth in this Agreement relating to PHI, Business Associate shall:

(a) implement administrative, physical, and technical safeguards that reasonably and appropriately protect the confidentiality, integrity, and availability of EPHI that Business Associate creates, receives, maintains, or transmits on behalf of Covered Entity as required by 45 C.F.R. Part 164, Subpart C;

(b) ensure that any subcontractor or agent to whom Business Associate provides any EPHI agrees in writing to implement reasonable and appropriate safeguards to protect such EPHI; and

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

(c) report to the privacy officer of Covered Entity, in writing, any Security Incident involving EPHI of which Business Associate becomes aware within two (2) days of Business Associate's discovery of such Security Incident. For purposes of this Section, a Security Incident shall mean (consistent with the definition set forth at 45 C.F.R. § 164.304), the attempted or successful unauthorized access, use, disclosure, modification, or destruction of information or interference with systems operations in an information system. In such event, the Business Associate shall, in consultation with the Covered Entity, mitigate, to the extent practicable, any harmful effect that is known to the Business Associate of such improper use or disclosure.

3.3 Responsibilities of Covered Entity. Covered Entity shall, with respect to Business Associate:

(a) provide Business Associate a copy of Covered Entity's notice of privacy practices ("Notice") currently in use;

(b) notify Business Associate of any limitations in the Notice pursuant to 45 C.F.R.
§ 164.520, to the extent that such limitations may affect Business Associate's use or disclosure of PHI;

(c) notify Business Associate of any changes to the Notice that Covered Entity provides to individuals pursuant to 45 C.F.R. § 164.520, to the extent that such changes may affect Business Associate's use or disclosure of PHI;

(d) notify Business Associate of any changes in, or withdrawal of, the consent or authorization of an individual regarding the use or disclosure of PHI provided to Covered Entity pursuant to 45 C.F.R. § 164.506 or § 164.508, to the extent that such changes may affect Business Associate's use or disclosure of PHI; and

(e) notify Business Associate, in writing and in a timely manner, of any restrictions on use and/or disclosure of PHI as provided for in 45 C.F.R. § 164.522 agreed to by Covered Entity, to the extent that such restriction may affect Business Associate's use or disclosure of PHI.

4. TERMS AND TERMINATION

4.1 Term. This Agreement shall become effective on the Effective Date and shall continue in effect unless terminated as provided in this Article 4. Certain provisions and requirements of this Agreement shall survive its expiration or other termination as set forth in Section 5.1 herein.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

4.2 Termination. Either Covered Entity or Business Associate may terminate this Agreement and any related agreements if the terminating Party determines in good faith that the terminated Party has breached a material term of this Agreement; provided, however, that no Party may terminate this Agreement if the breaching Party cures such breach to the reasonable satisfaction of the terminating Party within thirty (30) days after the breaching Party's receipt of written notice of such breach.

4.3 Automatic Termination. This Agreement shall automatically terminate without any further action of the Parties upon the termination or expiration of Business Associate's provision of Services to Covered Entity.

4.4 Effect of Termination. Upon termination or expiration of this Agreement for any reason, Business Associate shall return all PHI pursuant to 45 C.F.R. § 164.504(e)(2)(ii)(I) if, and to the extent that, it is feasible to do so. Prior to doing so, Business Associate shall recover any PHI in the possession of its subcontractors or agents. To the extent it is not feasible for Business Associate to return or destroy any portion of the PHI, Business Associate shall provide Covered Entity a statement that Business Associate has determined that it is infeasible to return or destroy all or some portion of the PHI in its possession or in possession of its subcontractors or agents. Business Associate shall extend any and all protections, limitations and restrictions contained in this Agreement to any PHI retained after the termination of this Agreement until such time as the PHI is returned to Covered Entity or destroyed.

5. MISCELLANEOUS

5.1 Survival. The respective rights and obligations of Business Associate and Covered Entity under the provisions of Sections 4.4, 5.1, 5.6, and 5.7, and Section 2.1 (solely with respect to PHI that Business Associate retains in accordance with Section 4.4 because it is not feasible to return or destroy such PHI), shall survive termination of this Agreement until such time as the PHI is returned to Covered Entity or destroyed. In addition, Section 3.1(i) shall survive termination of this Agreement, provided that Covered Entity determines that the PHI being retained pursuant to Section 4.4 constitutes a Designated Record Set.

5.2 Amendments; Waiver. This Agreement may not be modified or amended, except in a writing duly signed by authorized representatives of the Parties. To the extent that any relevant provision of the HIPAA, HITECH or Red Flag Rules is materially amended in a manner that changes the obligations of Business Associates or Covered Entities, the Parties agree to negotiate in good faith appropriate amendment(s) to this Agreement to give effect to the revised obligations. Further, no provision of this Agreement shall be waived, except in a writing duly signed by authorized representatives of the Parties. A waiver with respect to one event shall not be construed as continuing, or as a bar to or waiver of any right or remedy as to subsequent events.

5.3 No Third Party Beneficiaries. Nothing express or implied in this Agreement is intended to confer, nor shall anything herein confer, upon any person other than the Parties and the respective successors or assigns of the Parties, any rights, remedies, obligations, or liabilities whatsoever.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

5.4 Notices. Any notices to be given hereunder to a Party shall be made via U.S. Mail or express courier to such Party's address given below, and/or via facsimile to the facsimile telephone numbers listed below.

If to Business Associate, to:

ATP Partners of California, P.C.
10175 Fortune Parkway, Suite 302
Jacksonville, FL 322556
Attn: Waqas Ahmed
Phone: 8886662042
Fax: 8886264250

If to Covered Entity, to:

NATIVIDAD MEDICAL CENTER
1441 Constitution Blvd., Bldg. 300
Salinas, California 93906
Attn: Compliance Officer
Phone: 831.755.4111
Fax: 831.755.6297

Each Party named above may change its address and that of its representative for notice by the giving of notice thereof in the manner hereinabove provided. Such notice is effective upon receipt of notice, but receipt is deemed to occur on next business day if notice is sent by FedEx or other overnight delivery service.

5.5 Counterparts; Facsimiles. This Agreement may be executed in any number of counterparts, each of which shall be deemed an original. Facsimile copies hereof shall be deemed to be originals.

5.6 Choice of Law; Interpretation. This Agreement shall be governed by the laws of the State of California; as provided, however, that any ambiguities in this Agreement shall be resolved in a manner that allows Business Associate to comply with the Privacy Rule, and, if applicable, the Security Rule and the CMIA.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

5.7 Indemnification. Contractor shall indemnify, defend, and hold harmless the County of Monterey (hereinafter County), its officers, agents, and employees from any claim, liability, loss, injury, cost, expense, penalty or damage, including the County's reasonable cost of providing notification of and of mitigating any acquisition, access, use or disclosure of PHI in a manner not permitted by this BAA, arising out of, or in connection with, performance of this BAA by Contractor and/or its agents, members, employees, or sub-contractors, excepting only loss, injury, cost, expense, penalty or damage caused by the negligence or willful misconduct of personnel employed by the County. It is the intent of the parties to this BAA to provide the broadest possible indemnification for the County. Contractor shall reimburse the County for all costs, attorneys' fees, expenses, and liabilities incurred by the County with respect to any investigation, enforcement proceeding or litigation in which Contractor is obligated to indemnify, defend, and hold harmless the County under this BAA. This provision is in addition to and independent of any indemnification provision in any related or other agreement between the Covered Entity and the Business Associate.

Docusign Envelope ID: 3ECA2742-6D4F-4588-AA61-E6B56EF58122

IN WITNESS WHEREOF, each of the undersigned has caused this Agreement to be duly executed in its name and on its behalf as of the Effective Date.

ATP PARTNERS OF CALIFORNIA, P.C.

By: Waqas Ahmed

Print Name: Waqas Ahmed

Print Title: CEO

Date: 9/24/2025 | 2:00 PM EDT

COUNTY OF MONTEREY, ON BEHALF OF
NATIVIDAD MEDICAL CENTER

By: _____

Print Name: Dr. Charles R. Harris

Print Title: Chief Executive Officer

Date: _____

DocuSign Envelope ID: 1DD998E3-A3D5-43BF-A0BC-2414F731031E

FIRST AMENDMENT TO PROFESSIONAL AND CALL COVERAGE SERVICES AGREEMENT

THIS FIRST AMENDMENT TO PROFESSIONAL AND CALL COVERAGE SERVICES AGREEMENT (the **"Amendment"**) is made and entered into as of October 1, 2023, by and between COUNTY OF MONTEREY (**"County"**) on behalf of NATIVIDAD MEDICAL CENTER (**"Hospital"**), and KATHARINA PELLEGRIN, M.D., an individual (**"Contractor"**) with respect to the following:

RECITALS

A. County owns and operates Hospital, a general acute care teaching hospital facility and Level II Trauma Center located in Salinas, California and various outpatient clinics (collectively, the **"Clinic"**) under its acute care license.

B. Contractor and Hospital have entered into that certain Professional Services Agreement dated effective as of October 1, 2021 (the **"Agreement"**), pursuant to which Contractor provides Specialty services.

C. Hospital and Contractor desire to amend the Agreement to extend the term for an additional twenty-four (24) months, as set forth below.

AGREEMENT

IN CONSIDERATION of the foregoing recitals and the mutual promises and covenants contained herein, Hospital and Contractor agree as follows:

1. **Defined Terms**. Capitalized terms not otherwise defined herein shall have the meaning ascribed to them in the Agreement.

2. **Section 5.1**. Section 5.1 to the Agreement is hereby amended and restated to read in its entirety as follows:

> **"5.1 Term.** This Agreement shall become effective on October 1, 2021 (the **"Effective Date"**), and shall continue until September 30, 2025 (the **"Expiration Date"**), subject to the termination provisions of this Agreement.**"**

3. **Counterparts**. This Amendment may be executed in one or more counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.

4. **Continuing Effect of Agreement**. Except as herein provided, all of the terms and conditions of the Agreement remain in full force and effect from the Effective Date of the Agreement.

5. **Reference**. After the date of this Amendment, any reference to the Agreement shall mean the Agreement as amended by this Amendment.

[signature page follows]

IN WITNESS WHEREOF, Hospital and Contractor have executed this Amendment as of the day and year first written above.

CONTRACTOR

KATHARINA PELLEGRIN, M.D., an individual

DocuSigned by:
Katharina Pellegrin
3E7BCFC32DCE42F...

Date: 8/31/2023 | 4:35 PM PDT

NATIVIDAD MEDICAL CENTER

DocuSigned by:
Charles Harris
4E1F837D204E481...

Date: 9/1/2023 | 9:45 AM PDT

Deputy Purchasing Agent

APPROVED AS TO LEGAL PROVISIONS:

DocuSigned by:
Stacy Saetta
C0ECE1B99F444A9...

Date: 8/31/2023 | 6:28 PM PDT

Stacy Saetta, Deputy County Counsel

APPROVED AS TO FISCAL PROVISIONS:

DocuSigned by:
Jennifer Forsyth
4E7E657875454AE...

Date: 9/1/2023 | 8:56 AM PDT

Deputy Auditor/Controller

Docusign Envelope ID: 2B93578C-920B-4F2F-8244-6A7BEB0EA60C

SECOND AMENDMENT TO PROFESSIONAL AND CALL COVERAGE SERVICES AGREEMENT

THIS SECOND AMENDMENT TO PROFESSIONAL AND CALL COVERAGE SERVICES AGREEMENT (the **"Amendment"**) is made and entered into as of May 1, 2025, by and between COUNTY OF MONTEREY (**"County"**) on behalf of NATIVIDAD MEDICAL CENTER (**"Hospital"**), and KATHARINA PELLEGRIN, M.D., an individual (**"Contractor"**) with respect to the following:

RECITALS

A. County owns and operates Hospital, a general acute care teaching hospital facility and Level II Trauma Center located in Salinas, California and various outpatient clinics (collectively, the **"Clinic"**) under its acute care license.

B. Contractor and Hospital have entered into that certain Professional Services Agreement dated effective as of October 1, 2021, as amended effective October 1, 2023 (collectively, the **"Agreement"**), pursuant to which Contractor provides Specialty services.

C. Hospital and Contractor desire to amend the Agreement to extend the term by nine (9) months, and add One Hundred Thousand Dollars ($100,000) to the aggregate amount payable to Contractor.

AGREEMENT

IN CONSIDERATION of the foregoing recitals and the mutual promises and covenants contained herein, Hospital and Contractor agree as follows:

1. **Defined Terms**. Capitalized terms not otherwise defined herein shall have the meaning ascribed to them in the Agreement.

2. **Section 2.1**. Section 2.1 to the Agreement is hereby amended and restated to read in its entirety as follows:

> **"2.1 Compensation.** Hospital shall pay to Contractor the amount determined in accordance with **Exhibit 2.1** (the **"Compensation"**), upon the terms and conditions set forth therein. The total amount payable by Hospital to Contractor under this Agreement shall not exceed the sum of Two hundred Thousand Dollars ($200,000)."

Docusign Envelope ID: 2B93578C-920B-4F2F-8244-6A7BEB0EA60C

3. **Section 5.1**. Section 5.1 to the Agreement is hereby amended and restated to read in its entirety as follows:

> **"5.1 Term.** This Agreement shall become effective on October 1, 2021 (the **"Effective Date"**), and shall continue until June 30, 2026 (the **"Expiration Date"**), subject to the termination provisions of this Agreement."

4. **Counterparts**. This Amendment may be executed in one or more counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.

5. **Continuing Effect of Agreement**. Except as herein provided, all of the terms and conditions of the Agreement remain in full force and effect from the Effective Date of the Agreement.

6. **Reference**. After the date of this Amendment, any reference to the Agreement shall mean the Agreement as amended by this Amendment.

[signature page follows]

IN WITNESS WHEREOF, Hospital and Contractor have executed this Amendment as of the day and year first written above.

CONTRACTOR

KATHARINA PELLEGRIN, M.D., an individual

DocuSigned by:
Katharina Pellegrin
3E7BCFC32DCE42F...

Date: 4/2/2025 | 6:49 PM PDT

NATIVIDAD MEDICAL CENTER

DocuSigned by:
Charles R. Harris
[illegible]

Date: 4/3/2025 | 2:13 PM PDT

Deputy Purchasing Agent

APPROVED AS TO LEGAL PROVISIONS:

Signed by:
Stacy Saetta
696E21B44C134D...

Date: 4/3/2025 | 2:09 PM PDT

Stacy Saetta, Deputy County Counsel

APPROVED AS TO FISCAL PROVISIONS:

DocuSigned by:
Patricia Ruiz
[illegible]

Date: 4/3/2025 | 2:00 PM PDT

Deputy Auditor/Controller

Docusign Envelope ID: CC9BCE14-F81F-46A8-AE31-7A48769CA935

THIRD AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT

THIS THIRD AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT (the **"Amendment"**) is made and entered into as of November 1, 2025, by and between COUNTY OF MONTEREY (**"County"**) on behalf of NATIVIDAD MEDICAL CENTER (**"Hospital"**), and KATHARINA PELLEGRIN, M.D., an individual (**"Contractor"**) with respect to the following:

RECITALS

A. County owns and operates Hospital, a general acute care teaching hospital facility and Level II Trauma Center located in Salinas, California and various outpatient clinics (collectively, the **"Clinic"**) under its acute care license.

B. Contractor and Hospital have entered into that certain Professional Services Agreement dated effective as of September 20, 2022, as amended effective September 20, 2023 and May 1, 2025 (collectively, the **"Agreement"**) pursuant to which Contractor provides Specialty services.

C. Hospital and Contractor desire to amend the Agreement to add backup call coverage services, extend the term by twelve (12) months, and add Two Hundred Thousand Dollars ($200,000) to the aggregate amount payable to Contractor.

AGREEMENT

IN CONSIDERATION of the foregoing recitals and the mutual promises and covenants contained herein, Hospital and Contractor agree as follows:

1. **Defined Terms**. Capitalized terms not otherwise defined herein shall have the meaning ascribed to them in the Agreement.

2. **Section 1.1**. Section 1.1 to the Agreement is hereby amended and restated to read in its entirety as follows:

> **"1.1 Professional Services.**
>
> (a) Contractor shall provide professional services in the Specialty to Patients, upon the terms and subject to the conditions set forth in this Agreement (the **"Professional Services"**).

Docusign Envelope ID: CC9BCE14-F81F-46A8-AE31-7A48769CA935

(b) Contractor shall be available to provide, twenty-four (24) hour shifts (each a **"Shift"** and collectively, **"Shifts"**) of on-site coverage services at Hospital and be available on an on-call basis to provide Professional Services to Patients within fifteen (15) minutes of notification, upon the terms and conditions set forth in this Agreement (**"Trauma Coverage Services"**). Trauma Coverage Services shall include acute care surgery and critical care services as well as inpatient and outpatient procedures performed in Hospital's operating rooms.

(c) Contractor shall also be available on an on-call basis to serve as the back- up physician in the Specialty to provide Professional Services to Patients when the primary on- call Specialty physician is unavailable (**"Back-Up Call Coverage Services"**). For the purpose of this Agreement, Back-Up Call Coverage Services shall be provided in Shifts.

(d) Contractor shall be available to provide Shifts of off-site coverage services at Hospital and be available on an on-call basis to provide Professional Services to Patients within thirty (30) minutes of notification, upon the terms and conditions set forth in this Agreement (**"General Surgery Coverage Services"**). General Surgery Coverage Services shall include trauma back-up coverage services, follow-up and inpatient rounding on patients as necessary during the twenty (24) hour period. Trauma Coverage Services, Back-up Call Coverage Services and General Surgery Coverage Services are sometimes referred to collectively in this Agreement as **"Coverage Services"**.

(e) Contractor shall provide Coverage Services along with other Panel Members in a manner that is sufficient to ensure Specialty coverage for the Hospital twenty-four (24) hours per day, seven (7) days per week, including all holidays, in accordance with the schedule developed by the trauma program director designated by Hospital (the **"Trauma Program Director"**). For the avoidance of doubt, Contractor shall provide Coverage Services with other Panel Members, and nothing in this Agreement or in any other written or oral agreement between Hospital and Contractor contemplates or guarantees any minimum number of Shifts of Coverage Services to be provided by Contractor.

(f) Contractor shall provide timely initial follow-up care for all Hospital patients referred for care by the ED or attending physician. If Contractor is the physician on-call at the time of the referral, Contractor shall provide any necessary follow-up care for such patients regardless of the patient's ability to pay for services at the time of the first visit.

Docusign Envelope ID: CC9BCE14-F81F-46A8-AE31-7A48769CA935

(g) Contractor shall also be available to provide Professional Services in the Clinic (the **"Clinic Services"**).

3. **Section 1.3.** Section 1.3 to the Agreement is hereby amended and restated to read in its entirety as follows:

> **"1.3 Additional Services.** Contractor shall provide to Hospital those additional services set forth in **Exhibit 1.3** (the **"Additional Services"**), upon the terms and subject to the conditions set forth in this Agreement. The Professional Services, Teaching Services, Coverage Services, Clinic Services, and Additional Services are sometimes referred to collectively in this Agreement as the **"Services**.**"**

4. **Section 2.1**. Section 5.1 to the Agreement is hereby amended and restated to read in its entirety as follows:

> **"2.1 Compensation.** Hospital shall pay to Contractor the amount determined in accordance with **Exhibit 2.1** (the **"Compensation"**), upon the terms and conditions set forth therein. The total amount payable by Hospital to Contractor under this Agreement shall not exceed the sum of Four hundred Thousand Dollars ($400,000).**"**

5. **Section 5.1**. Section 5.1 to the Agreement is hereby amended and restated to read in its entirety as follows:

> **"5.1 Term.** This Agreement shall become effective on November 1, 2025 (the **"Effective Date"**) and shall continue until June 30, 2027 (the **"Expiration Date"**), subject to the termination provisions of this Agreement.**"**

6. **Exhibit 2.1.** Exhibit 2.1 to the Agreement is herby deleted and replaced in its entirety and incorporated by reference as attached **Exhibit 2.1**.

7. **Counterparts**. This Amendment may be executed in one or more counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.

8. **Continuing Effect of Agreement**. Except as herein provided, all of the terms and conditions of the Agreement remain in full force and effect from the Effective Date of the Agreement.

9. **Reference**. After the date of this Amendment, any reference to the Agreement shall mean the Agreement as amended by this Amendment.

[signature page follows]

Docusign Envelope ID: CC9BCE14-F81F-46A8-AE31-7A48769CA935

IN WITNESS WHEREOF, Hospital and Contractor have executed this Amendment as of the day and year first written above.

CONTRACTOR

KATHARINA PELLEGRIN, M.D., an individual

DocuSigned by:
Katharina Pellegrin
3E7BCFC32DCE42F...

Date: 9/23/2025 | 5:37 PM PDT

NATIVIDAD MEDICAL CENTER

_____

Deputy Purchasing Agent

Date: _____

APPROVED AS TO LEGAL PROVISIONS:

Signed by:
Stacy Saetta
696D2ADD44C4341D...

Stacy Saetta, Deputy County Counsel

Date: 9/24/2025 | 5:11 PM PDT

APPROVED AS TO FISCAL PROVISIONS:

DocuSigned by:
Patricia Ruiz
E79E64E5745456...

Deputy Auditor/Controller

Date: 9/26/2025 | 7:49 AM PDT

Docusign Envelope ID: CC9BCE14-F81F-46A8-AE31-7A48769CA935

Exhibit 2.1

COMPENSATION

1. **Coverage Services Compensation.**

   a. Hospital shall pay to Contractor an amount equal to Four Thousand Six Hundred Sixty Dollars ($4,600) per Shift of Trauma Coverage Services;

   b. Hospital shall pay to Contractor an amount equal to Two Thousand Dollars ($2,000) per Shift of General Surgery Coverage Services provided pursuant to this Agreement; provided, however, that Contractor is in compliance with the terms and conditions of this Agreement. For the avoidance of doubt, Contractor shall not simultaneously provide Trauma Coverage Services and General Surgery Coverage Services during the same Shift.

   c. If Contractor is asked to provide trauma back-up call coverage separate of General Surgery Coverage Services, Contractor shall be paid an amount equal to Five Hundred Dollars ($500) per Shift (**"Back-up Call Coverage Compensation"**), plus One Hundred Ninety One Dollars and Sixty Six Cents ($191.66) per each hour that Contractor is required to be physically present at Hospital, not to exceed Four Thousand Five Hundred Sixty Dollars ($4,600) per day in the aggregate.

2. **Professional Liability Reimbursement.** In the event that Contractor does not purchase the professional liability insurance set forth in the Agreement, Hospital will deduct Twenty-Eight Dollars and Eleven Cents ($28.11) per Shift, not to exceed Eight Hundred Fifty-Four Dollars and Ninety-One Cents ($854.91) per month to compensate for Hospital's payment of professional liability insurance premiums on behalf of Contractor. This amount reflects the then-current rate, rates are subject to change.

3. **Timing.** Hospital shall pay the compensation due for Services performed by Contractor after Contractor's submission of the monthly invoice of preceding month's activity and time report in accordance with this Agreement; provided, however, that if Contractor does not submit an invoice and time sheet within sixty (60) days of the end of the month during which Services were performed, Hospital shall not be obligated to pay Contractor for Services performed during that month. The County of Monterey Standard Payment Terms for contracts/PSAs and paying invoices is "30 days after receipt of the certified invoice in the Auditor-Controller's Office".

Docusign Envelope ID: A29EB7E2-2B95-49DA-AE91-BE731F6B65B7

AMENDMENT NO. 1
TO SERVICES AGREEMENT
BETWEEN WALD, RUHNKE & DOST ARCHITECTS, LLP AND
THE COUNTY OF MONTEREY ON BEHALF OF NATIVIDAD MEDICAL CENTER
FOR
ARCHITECTURAL SERVICES

This Amendment No. 1 to the Services Agreement ("Agreement") which was effective on March 25, 2022 is entered into by and between the County of Monterey, on behalf of Natividad Medical Center ("NMC"), and Wald, Ruhnke & Dost Architects, LLP ("CONTRACTOR"); **From this point forward, the party referenced previously as "NMC" shall be referenced as "COUNTY" and collectively, COUNTY and CONTRACTOR are referred to as the "Parties" to this Agreement, with respect to the following:**

RECITALS

WHEREAS, the Agreement was executed for Architectural Services pursuant to RFQ #9600-86 with a term February 1, 2022 through January 31, 2027 and a total aggregate amount for all Agreements not to exceed $5,000,000; and

WHEREAS, COUNTY and CONTRACTOR currently wish to amend the Agreement to add an additional $5,000,000 for a revised total aggregate amount not to exceed $10,000,000 with no changes to the Agreement term of February 1, 2022 through January 31, 2027 or scope of services.

AGREEMENT

NOW, THEREFORE, the Parties agree to amend the Agreement as follows:

The Agreement is hereby renewed on the terms and conditions as set forth in the Original Agreement incorporated herein by this reference, except as specifically set forth below.

1. Section 5.0 under, "COMPENSATION AND PAYMENTS" shall be amended to the following: ***"There is no specific dollar amount associated with the Agreement(s) awarded per RFQ #9600-86. Services are on an as-needed basis and shall be authorized by NMC only upon mutual agreement of CONTRACTORS project proposal. Project proposals will be requested as needed and are subject to negotiations. The total amount payable by*** **COUNTY** ***to CONTRACTOR under this Agreement shall not exceed the sum of $10,000,000."***

2. Except as provided herein, all remaining terms, conditions and provisions of the Agreement are unchanged and unaffected by this Amendment No. 1 and shall continue in full force and effect as set forth in the Agreement.

3. A copy of this Amendment No. 1 shall be attached to the Agreement.

4. This Amendment No. 1 shall be effective when both parties have signed.

Docusign Envelope ID: A29EB7E2-2B95-49DA-AE91-BE731F6B65B7

IN WITNESS WHEREOF, the Parties hereto are in agreement with this Amendment No. 1 on the basis set forth in this document and have executed this Amendment No. 1 on the day and year set forth herein.

COUNTY OF MONTEREY on behalf of NATIVIDAD MEDICAL CENTER

By: _____
Charles R. Harris, CEO

Date: _____

APPROVED AS TO LEGAL PROVISIONS

Signed by:
By: Stacy Saetta
696D21D44C4341D...
Monterey County Deputy County Counsel

Date: 9/18/2025 | 8:27 AM PDT

APPROVED AS TO FISCAL PROVISIONS

DocuSigned by:
By: Patricia Ruiz
F79EF64E57454F6...
Monterey County Deputy Auditor/Controller

Date: 9/19/2025 | 10:04 AM PDT

CONTRACTOR

Wald, Ruhnke, & Dost Architects, LLP
CONTRACTOR's Business Name
See instructions below

DocuSigned by:
By: _____
F865AE00901540C...
(Signature of: Chair, President, or Vice-President)

Chris Barlow Principal
Name and Title

Date: 7/11/2025 | 10:16 AM PDT

DocuSigned by:
By: Henry Ruhnke
82800C7BF4CC422...
(Signature of: Secretary, Asst. Secretary, CFO, Treasurer, or Asst. Treasurer)

Henry Ruhnke Partner
Name and Title

Date: 7/21/2025 | 6:55 AM PDT

Instructions

If CONTRACTOR is a corporation; including limited liability and non-profit corporations, the full legal name of the corporation shall be set forth above together with the signatures of two specified officers (two signatures required).

If CONTRACTOR is a partnership; the name of the partnership shall be set forth above together with the signature of a partner who has authority to execute this Agreement on behalf of the partnership (two signatures required).

If CONTRACTOR is contracting in an individual capacity, the individual shall set forth the name of the business, if any and shall personally sign the Agreement (one signature required).

Docusign Envelope ID: A29EB7E2-2B95-49DA-AE91-BE731F6B65B7

AMENDMENT NO. 1
TO SERVICES AGREEMENT
BETWEEN KASAVAN ARCHITECTS AND
THE COUNTY OF MONTEREY ON BEHALF OF NATIVIDAD MEDICAL CENTER
FOR
ARCHITECTURAL SERVICES

This Amendment No. 1 to the Services Agreement ("Agreement") which was effective on March 25, 2022 is entered into by and between the County of Monterey, on behalf of Natividad Medical Center ("NMC"), and Kasavan Architects ("CONTRACTOR"); **From this point forward, the party referenced previously as "NMC" shall be referenced as "COUNTY" and collectively, COUNTY and CONTRACTOR are referred to as the "Parties" to this Agreement, with respect to the following:**

RECITALS

WHEREAS, the Agreement was executed for Architectural Services pursuant to RFQ #9600-86 with a term February 1, 2022 through January 31, 2027 and a total aggregate amount for all Agreements not to exceed $5,000,000; and

WHEREAS, COUNTY and CONTRACTOR currently wish to amend the Agreement to add an additional $5,000,000 for a revised total aggregate amount not to exceed $10,000,000 with no changes to the Agreement term of February 1, 2022 through January 31, 2027 or scope of services.

AGREEMENT

NOW, THEREFORE, the Parties agree to amend the Agreement as follows:

The Agreement is hereby renewed on the terms and conditions as set forth in the Original Agreement incorporated herein by this reference, except as specifically set forth below.

1. Section 5.0 under, "COMPENSATION AND PAYMENTS" shall be amended to the following: ***"There is no specific dollar amount associated with the Agreement(s) awarded per RFQ #9600-86. Services are on an as-needed basis and shall be authorized by NMC only upon mutual agreement of CONTRACTORS project proposal. Project proposals will be requested as needed and are subject to negotiations. The total amount payable by*** **COUNTY** ***to CONTRACTOR under this Agreement shall not exceed the sum of $10,000,000."***

2. Except as provided herein, all remaining terms, conditions and provisions of the Agreement are unchanged and unaffected by this Amendment No. 1 and shall continue in full force and effect as set forth in the Agreement.

3. A copy of this Amendment No. 1 shall be attached to the Agreement.

4. This Amendment No. 1 shall be effective when both parties have signed.

Docusign Envelope ID: A29EB7E2-2B95-49DA-AE91-BE731F6B65B7

IN WITNESS WHEREOF, the Parties hereto are in agreement with this Amendment No. 1 on the basis set forth in this document and have executed this Amendment No. 1 on the day and year set forth herein.

COUNTY OF MONTEREY on behalf of NATIVIDAD MEDICAL CENTER

By: _____
Charles R. Harris, CEO

Date: _____

APPROVED AS TO LEGAL PROVISIONS

By: _____
Signed by: Stacy Saetta 696D21D44C4341D...
Monterey County Deputy County Counsel

Date: 9/18/2025 | 8:27 AM PDT

APPROVED AS TO FISCAL PROVISIONS

By: _____
DocuSigned by: Patricia Ruiz E79EF64E57454F6...
Monterey County Deputy Auditor/Controller

Date: 9/19/2025 | 10:04 AM PDT

CONTRACTOR

Kasavan Architects
CONTRACTOR's Business Name
See instructions below

By: _____
DocuSigned by: Peter Kasavan 3408F7AFF7B2453...
(Signature of: Chair, President, or Vice-President)

Peter Kasavan President
Name and Title

Date: 7/13/2025 | 7:34 PM EDT

By: _____
DocuSigned by: Peter Kasavan 3408F7AFF7B2453...
(Signature of: Secretary, Asst. Secretary, CFO, Treasurer, or Asst. Treasurer)

Peter Kasavan Secretary
Name and Title

Date: 7/13/2025 | 7:34 PM EDT

Instructions

If CONTRACTOR is a corporation; including limited liability and non-profit corporations, the full legal name of the corporation shall be set forth above together with the signatures of two specified officers (two signatures required).

If CONTRACTOR is a partnership; the name of the partnership shall be set forth above together with the signature of a partner who has authority to execute this Agreement on behalf of the partnership (two signatures required).

If CONTRACTOR is contracting in an individual capacity, the individual shall set forth the name of the business, if any and shall personally sign the Agreement (one signature required).

Docusign Envelope ID: A29EB7E2-2B95-49DA-AE91-BE731F6B65B7

AMENDMENT NO. 1
TO SERVICES AGREEMENT
BETWEEN CEDARBLADE CONSULTING AND
THE COUNTY OF MONTEREY ON BEHALF OF NATIVIDAD MEDICAL CENTER
FOR
ARCHITECTURAL SERVICES

This Amendment No. 1 to the Services Agreement ("Agreement") which was effective on March 25, 2022 is entered into by and between the County of Monterey, on behalf of Natividad Medical Center ("NMC"), and Cedarblade Consulting ("CONTRACTOR"); **From this point forward, the party referenced previously as "NMC" shall be referenced as "COUNTY" and collectively, COUNTY and CONTRACTOR are referred to as the "Parties" to this Agreement, with respect to the following:**

RECITALS

WHEREAS, the Agreement was executed for Architectural Services pursuant to RFQ #9600-86 with a term February 1, 2022 through January 31, 2027 and a total aggregate amount for all Agreements not to exceed $5,000,000; and

WHEREAS, COUNTY and CONTRACTOR currently wish to amend the Agreement to add an additional $5,000,000 for a revised total aggregate amount not to exceed $10,000,000 with no changes to the Agreement term of February 1, 2022 through January 31, 2027 or scope of services.

AGREEMENT

NOW, THEREFORE, the Parties agree to amend the Agreement as follows:

The Agreement is hereby renewed on the terms and conditions as set forth in the Original Agreement incorporated herein by this reference, except as specifically set forth below.

1. Section 5.0 under, "COMPENSATION AND PAYMENTS" shall be amended to the following: ***"There is no specific dollar amount associated with the Agreement(s) awarded per RFQ #9600-86. Services are on an as-needed basis and shall be authorized by NMC only upon mutual agreement of CONTRACTORS project proposal. Project proposals will be requested as needed and are subject to negotiations. The total amount payable by*** **COUNTY** ***to CONTRACTOR under this Agreement shall not exceed the sum of $10,000,000."***

2. Except as provided herein, all remaining terms, conditions and provisions of the Agreement are unchanged and unaffected by this Amendment No. 1 and shall continue in full force and effect as set forth in the Agreement.

3. A copy of this Amendment No. 1 shall be attached to the Agreement.

4. This Amendment No. 1 shall be effective when both parties have signed.

Docusign Envelope ID: A29EB7E2-2B95-49DA-AE91-BE731F6B65B7

IN WITNESS WHEREOF, the Parties hereto are in agreement with this Amendment No. 1 on the basis set forth in this document and have executed this Amendment No. 1 on the day and year set forth herein.

COUNTY OF MONTEREY on behalf of NATIVIDAD MEDICAL CENTER

By: _____
Charles R. Harris, CEO

Date: _____

APPROVED AS TO LEGAL PROVISIONS

By: Signed by: Stacy Saetta 696D21D44C4341D...
Monterey County Deputy County Counsel

Date: 9/18/2025 | 8:27 AM PDT

APPROVED AS TO FISCAL PROVISIONS

By: DocuSigned by: Patricia Ruiz E79EF64E57454F6...
Monterey County Deputy Auditor/Controller

Date: 9/19/2025 | 10:04 AM PDT

CONTRACTOR

Cedarblade Consulting
CONTRACTOR's Business Name
See instructions below

By: DocuSigned by: Frank Cedarblade 943B23E8A07A4E2...
(Signature of: Chair, President, or Vice-President)

Frank Cedarblade Principal Architect
Name and Title

Date: 7/11/2025 | 10:43 AM PDT

By: DocuSigned by: Frank Cedarblade 943B23E8A07A4E2...
(Signature of: Secretary, Asst. Secretary, CFO, Treasurer, or Asst. Treasurer)

Frank Cedarblade Principal Architect
Name and Title

Date: 7/11/2025 | 10:43 AM PDT

Instructions

If CONTRACTOR is a corporation; including limited liability and non-profit corporations, the full legal name of the corporation shall be set forth above together with the signatures of two specified officers (two signatures required).

If CONTRACTOR is a partnership; the name of the partnership shall be set forth above together with the signature of a partner who has authority to execute this Agreement on behalf of the partnership (two signatures required).

If CONTRACTOR is contracting in an individual capacity, the individual shall set forth the name of the business, if any and shall personally sign the Agreement (one signature required).

Docusign Envelope ID: A29EB7E2-2B95-49DA-AE91-BE731F6B65B7

AMENDMENT NO. 1
TO SERVICES AGREEMENT
BETWEEN 19SIX ACRHITECTS AND
THE COUNTY OF MONTEREY ON BEHALF OF NATIVIDAD MEDICAL CENTER
FOR
ARCHITECTURAL SERVICES

This Amendment No. 1 to the Services Agreement ("Agreement") which was effective on March 25, 2022 is entered into by and between the County of Monterey, on behalf of Natividad Medical Center ("NMC"), and 19six Architects ("CONTRACTOR"); **From this point forward, the party referenced previously as "NMC" shall be referenced as "COUNTY" and collectively, COUNTY and CONTRACTOR are referred to as the "Parties" to this Agreement, with respect to the following:**

RECITALS

WHEREAS, the Agreement was executed for Architectural Services pursuant to RFQ #9600-86 with a term February 1, 2022 through January 31, 2027 and a total aggregate amount for all Agreements not to exceed $5,000,000; and

WHEREAS, COUNTY and CONTRACTOR currently wish to amend the Agreement to add an additional $5,000,000 for a revised total aggregate amount not to exceed $10,000,000 with no changes to the Agreement term of February 1, 2022 through January 31, 2027 or scope of services.

AGREEMENT

NOW, THEREFORE, the Parties agree to amend the Agreement as follows:

The Agreement is hereby renewed on the terms and conditions as set forth in the Original Agreement incorporated herein by this reference, except as specifically set forth below.

1. Section 5.0 under, "COMPENSATION AND PAYMENTS" shall be amended to the following: ***"There is no specific dollar amount associated with the Agreement(s) awarded per RFQ #9600-86. Services are on an as-needed basis and shall be authorized by NMC only upon mutual agreement of CONTRACTORS project proposal. Project proposals will be requested as needed and are subject to negotiations. The total amount payable by*** **COUNTY** ***to CONTRACTOR under this Agreement shall not exceed the sum of $10,000,000."***

2. Except as provided herein, all remaining terms, conditions and provisions of the Agreement are unchanged and unaffected by this Amendment No. 1 and shall continue in full force and effect as set forth in the Agreement.

3. A copy of this Amendment No. 1 shall be attached to the Agreement.

4. This Amendment No. 1 shall be effective when both parties have signed.

Docusign Envelope ID: A29EB7E2-2B95-49DA-AE91-BE731F6B65B7

IN WITNESS WHEREOF, the Parties hereto are in agreement with this Amendment No. 1 on the basis set forth in this document and have executed this Amendment No. 1 on the day and year set forth herein.

COUNTY OF MONTEREY on behalf of NATIVIDAD MEDICAL CENTER

By: _____
Charles R. Harris, CEO

Date: _____

APPROVED AS TO LEGAL PROVISIONS

By: Signed by: Stacy Saetta 696D21D44C4341D...
Monterey County Deputy County Counsel

Date: 9/18/2025 | 8:27 AM PDT

APPROVED AS TO FISCAL PROVISIONS

By: DocuSigned by: Patricia Ruiz E79EF64E57454F6...
Monterey County Deputy Auditor/Controller

Date: 9/19/2025 | 10:04 AM PDT

CONTRACTOR

19SIX ARCHITECTS
CONTRACTOR's Business Name
See instructions below

By: DocuSigned by: D62AA079F3D3425...
(Signature of: Chair, President, or Vice-President)

Alan Kroeker President
Name and Title

Date: 7/21/2025 | 8:11 AM PDT

By: Signed by: Jon Ornellas 78B47694758940C...
(Signature of: Secretary, Asst. Secretary, CFO, Treasurer, or Asst. Treasurer)

Jon Ornellas Project Accounting Manager
Name and Title

Date: 7/21/2025 | 8:35 AM PDT

Instructions

If CONTRACTOR is a corporation; including limited liability and non-profit corporations, the full legal name of the corporation shall be set forth above together with the signatures of two specified officers (two signatures required).

If CONTRACTOR is a partnership; the name of the partnership shall be set forth above together with the signature of a partner who has authority to execute this Agreement on behalf of the partnership (two signatures required).

If CONTRACTOR is contracting in an individual capacity, the individual shall set forth the name of the business, if any and shall personally sign the Agreement (one signature required).

Docusign Envelope ID: A29EB7E2-2B95-49DA-AE91-BE731F6B65B7

AMENDMENT NO. 1
TO SERVICES AGREEMENT
BETWEEN HAMMEL, GREEN, AND ABRAHAMSON, INC. AND
THE COUNTY OF MONTEREY ON BEHALF OF NATIVIDAD MEDICAL CENTER
FOR
ARCHITECTURAL SERVICES

This Amendment No. 1 to the Services Agreement ("Agreement") which was effective on March 25, 2022 is entered into by and between the County of Monterey, on behalf of Natividad Medical Center ("NMC"), and Hammel, Green, and Abrahamson, Inc. ("CONTRACTOR"); **From this point forward, the party referenced previously as "NMC" shall be referenced as "COUNTY" and collectively, COUNTY and CONTRACTOR are referred to as the "Parties" to this Agreement, with respect to the following:**

RECITALS

WHEREAS, the Agreement was executed for Architectural Services pursuant to RFQ #9600-86 with a term February 1, 2022 through January 31, 2027 and a total aggregate amount for all Agreements not to exceed $5,000,000; and

WHEREAS, COUNTY and CONTRACTOR currently wish to amend the Agreement to add an additional $5,000,000 for a revised total aggregate amount not to exceed $10,000,000 with no changes to the Agreement term of February 1, 2022 through January 31, 2027 or scope of services.

AGREEMENT

NOW, THEREFORE, the Parties agree to amend the Agreement as follows:

The Agreement is hereby renewed on the terms and conditions as set forth in the Original Agreement incorporated herein by this reference, except as specifically set forth below.

1. Section 5.0 under, "COMPENSATION AND PAYMENTS" shall be amended to the following: ***"There is no specific dollar amount associated with the Agreement(s) awarded per RFQ #9600-86. Services are on an as-needed basis and shall be authorized by NMC only upon mutual agreement of CONTRACTORS project proposal. Project proposals will be requested as needed and are subject to negotiations. The total amount payable by*** **COUNTY** ***to CONTRACTOR under this Agreement shall not exceed the sum of $10,000,000."***

2. Except as provided herein, all remaining terms, conditions and provisions of the Agreement are unchanged and unaffected by this Amendment No. 1 and shall continue in full force and effect as set forth in the Agreement.

3. A copy of this Amendment No. 1 shall be attached to the Agreement.

4. This Amendment No. 1 shall be effective when both parties have signed.

Docusign Envelope ID: A29EB7E2-2B95-49DA-AE91-BE731F6B65B7

IN WITNESS WHEREOF, the Parties hereto are in agreement with this Amendment No. 1 on the basis set forth in this document and have executed this Amendment No. 1 on the day and year set forth herein.

COUNTY OF MONTEREY on behalf of NATIVIDAD MEDICAL CENTER

By: _____
Charles R. Harris, CEO

Date: _____

APPROVED AS TO LEGAL PROVISIONS

By: Signed by: Stacy Saetta 696D21D44C4341D...
Monterey County Deputy County Counsel

Date: 9/18/2025 | 8:27 AM PDT

APPROVED AS TO FISCAL PROVISIONS

By: DocuSigned by: Patricia Ruiz E79EF64E57454F6...
Monterey County Deputy Auditor/Controller

Date: 9/19/2025 | 10:04 AM PDT

CONTRACTOR

Hammel, Green, and Abrahamson, Inc.
CONTRACTOR's Business Name
See instructions below

By: Signed by: Kevin Day 6B230F416EC04CF...
(Signature of: Chair, President, or Vice-President)

Kevin Day, Vice President
Name and Title

Date: 9/10/2025

By: DocuSigned by: Adam Pepple 5612CE7D5E184F4...
(Signature of: Secretary, Asst. Secretary, CFO, Treasurer, or Asst. Treasurer)

Adam Pepple, Director of Finance (Interim CFO)
Name and Title

Date: 9/10/2025

Instructions

If CONTRACTOR is a corporation; including limited liability and non-profit corporations, the full legal name of the corporation shall be set forth above together with the signatures of two specified officers (two signatures required).

If CONTRACTOR is a partnership; the name of the partnership shall be set forth above together with the signature of a partner who has authority to execute this Agreement on behalf of the partnership (two signatures required).

If CONTRACTOR is contracting in an individual capacity, the individual shall set forth the name of the business, if any and shall personally sign the Agreement (one signature required).