Exhibit A

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EXHIBIT A DRAFT RESOLUTION

Before the Housing and Community Development Chief of Planning in and for the County of Monterey, State of California

In the matter of the application of: MCNICKLE JAMES RYAN & RACHEL A TRS (PLN240291) RESOLUTION NO. ----

Resolution by the Monterey County HCD Chief of Planning:

- Finding that the project qualifies for a Categorical Exemption pursuant to CEQA Guidelines section 15303 (a); none of the exceptions pursuant to Section 15300.2 apply; and
- Approving an Administrative Permit and Design Approval to allow construction of an approximately 4,445 square foot singlefamily dwelling inclusive of a 1,160 square foot lower-level and a 945 square foot attached garage; and installation of an on-site wastewater treatment system, and associated site improvements. Grading of approximately 2,017 cubic yards of cut, and 60 cubic yards of fill.

[PLN240291 MCNICKLE JAMES RYAN & RACHEL A TRS, 4185 Marguerita Way, Carmel, Carmel Valley Master Plan (APN: 015-042-015-000)]

The MCNICKLE JAMES RYAN & RACHEL A TRS (PLN240291) came on for hearing before the County of Monterey Chief of Planning on June 18, 2025. Having considered all the written and documentary evidence, the administrative record, the staff report, written testimony, and other evidence presented the Monterey County HCD Chief of Planning finds and decides as follows:

FINDINGS

1. FINDING: CONSISTENCY – The Project, as conditioned, is consistent with the applicable plans and policies which designate this area as appropriate for development.

EVIDENCE: a) During the course of review of this application, the project has been reviewed for consistency with the text, policies, and regulations in:

- the 2010 Monterey County General Plan;
- Carmel Valley Master Plan; and
- Monterey County Zoning Ordinance (Title 21);

No conflicts were found to exist. No communications were received during the course of review of the project indicating any inconsistencies with the text, policies, and regulations in these documents.

- b) <u>Project Scope.</u> The project is the construction of approximately 4,445 square two-story single-family dwelling with a 1,160 square foot lower-level office and bonus room, and a 945 square foot attached garage. The project also includes the creation of a driveway; installation of a new on-site wastewater treatment system; and associated site improvements; and grading of approximately 2,017 cubic yards of cut, and 60 cubic yards of fill.
- c) <u>Allowed Use.</u> The property is located at 4185 Marguerita Way, Carmel (APN: 015-042-015-000), in the Carmel Valley Master Plan. The parcel is zoned Low Density Residential with a gross density of 1 acre per unit, with Design Control, Site Plan Review, and Residential Allocation Zoning District overlay zones, or "LDR/1-D-S-RAZ," which allows one single-family dwelling and a garage as a principally allowed use subject to compliance with the site development standards of Section 21.14.060. The subject property encompasses a Design Control and Site Plan Review Overlay that requires an Administrative Permit and Design Approval for such development pursuant to Title 21 section 21.45.040.B. Therefore, the project is an allowed use for this site subject to an Administrative Permit and Design Approval in each case.
- d) <u>Site Inspection.</u> The project planner conducted a virtual site inspection on April 1, 2025 and assessed site photos submitted by the applicant to verify that the project on the subject parcel conforms to the plans listed above.
- e) <u>Lot Legality.</u> The property is shown in its current configuration as Lot 9B on the map entitled "Record of Survey of Lots 8B, 9B and 10B," which was filed in the office of the Recorder of the County of Monterey on September 30, 2021, in Volume 35 of Surveys, at Page 63. It is part of the Rancho Rio Vista Subdivision, a portion of Lot 4, Hatton Partition in Rancho Canada de le Segunda. Therefore, the County recognizes the property as a legal lot of record.
- Design/Neighborhood and Community Character. The property is f) subject to the regulations within the Design Control "D" overlay zoning district outlined in Chapter 21.44. These regulations require design review of project development to assure protection of the public viewshed and compatibility with the neighborhood character. Consistent with Chapter 21.44 of the Zoning Ordinance, a Design Approval Application was submitted. Colors and materials consist of gravish exterior stucco and fire-resistant cedar shake siding, white trim windows, dark stained oak entry door, and sloped composite asphalt shingle roof. The colors, materials, and mass of the single-family dwelling and accessory structure have been designed to blend with the environment and to be substantively similar to other homes in the area. Other developments in the area consist of ranch style and contemporary builds consisting of organic colors and materials. The development will be congruent with the neighborhood character.

Further, General Plan Policy LU-1.13 outlines that all exterior lighting is down-lit, unobtrusive, and harmonious with the areas. A standard condition of approval (Condition No. 6) is included to ensure compliance with this policy. The project, as conditioned, designed and

sited, assures protection of the public viewshed, is consistent with the neighborhood character, and assures visual integrity.

- Site Plan Review. The property is subject to the Site Plan Review "S" **g**) overlay zoning district, which provides regulations for development, which by reason of its location, has the potential to adversely affect or be adversely affected by natural resources or site constraints outlined in Chapter 21.45. A site plan is included in the application and an Administrative Permit application has been received and reviewed pursuant to these regulations. The applicant provided grading and erosion control plans to demonstrate the feasibility of their proposed project. A geotechnical report (LIB200078) and soils & percolation report (LIB250100) were also prepared, which analyzed the soil conditions of the site and determined it was suitable for development of the proposed project. Pursuant to Title 16 section 16.08.110, all recommendations made in the geotechnical report will be incorporated in the final grading plans and specification. The site plan did not identify any nearby environmentally sensitive habitat area or archaeological resources. Staff reviewed County records and data from California Fish and Wildlife, there are no known resources located within the subject property.
- h) <u>Residential Allocation</u> Zoning. The property is located within a Residential Allocation Zoning (RAZ) overlay district which denotes a specific area that is subject to policies or ordinances which specify limitations on the number of lots or units which may be created in a given period of time. In accordance with Carmel Valley Master Plan Policy CV-1.5, development of the property is subject to the maximum density shown on the Carmel Valley Land Use Map, which is one acre per unit. The project includes establishment of the first single family dwelling on a property approximately one acre in size. Therefore, the project is consistent with unit limitations in the Carmel Valley Master Plan of the 2010 General Plan and the RAZ zoning overlay regulations.
- Development Standards. Development standards for the Low Density i) Residential zoning district can be found in Title 21 Section 21.14.060. The development is consistent with applicable development standards. Required setbacks in the LDR district for main dwelling units are 30 feet (front), 20 feet (rear), and ten (10) percent of the average lot width, to a maximum required of twenty (20) feet (sides). Ten (10) percent of the average lot width (144.375 feet) is 14.43 feet. As demonstrated in the attached site plan, the location of the single-family dwelling is 16 feet 7 inches from the north side setback; 21 feet 7 ¹/₂ inches from the south side setback; 129 feet 7 1/2 inches from the front property line; and 120 feet 2 inches from the rear property line, consistent with the required setbacks of the LDR district. The maximum allowed site coverage for LDR zoning is 25% (10,397 square feet); the project will have a site coverage of 8.67% (3.608 square feet). The maximum height allowed for main structures in LDR zoning districts is 30 feet. The height for the main dwelling is 22 feet and 3 inches above the average natural grade. The attached garage shares the same height regulations as the main structure according to Section 21.62.030.D of Title 21. A 2-foot-tall chimney atop the main residence is exempt from the height

measurement pursuant to Section 21.62.030.A. Therefore, the development complies with all applicable development standards.

- j) <u>Development on slopes in excess of 25%.</u> The proposed project includes approximately 388 square feet of development on slopes in excess of 25%. General Plan Policy OS-3.5 prohibits development on slopes in excess of 25% unless one or both of the following findings can be made, based on substantial evidence:
 - 1) There is no feasible alternative which would allow development to occur on slopes of less than 25%; or
 - 2) the project better achieves the resource protection objectives and policies contained in the Monterey County General Plan, accompanying Area Plans, and all applicable master plans.

The project includes approximately 388 total square feet of development on slopes in excess of 25% to establish the driveway and fire engine turnaround. There is no feasible alternative location for the driveway to occur on slopes less than 25%. The property is located on a hill with descending slopes going down to Marguerita Way. The building site for the single-family dwelling is in the most suitable place to avoid slopes exceeding 25%. The driveway must cross the area of slopes exceeding 25% in order to reach the project site of the single-family dwelling. Siting the driveway in another location would not avoid impacts to slopes exceeding 25%. As illustrated in the attached plans, the location of the driveway has the least impact to slopes exceeding 25%.

Further, General Plan Policy OS-3.5 1.c states that where proposed development impacting slopes in excess of twenty five percent (25%) does not exceed ten percent (10%), or 500 square feet of the total development footprint (whichever is less), a discretionary permit shall not be required. As such, the project includes approximately 388 square feet of development on slopes in excess of 25%. 388 square feet is less than ten percent (10%) of the total development footprint (10% of 9,289 square feet of hardscape and lot coverage is 929 square feet), and the 500 square feet threshold. Therefore, a discretionary permit is not required for development on slopes in excess of 25%.

- k) <u>Cultural Resources.</u> The project site is an area identified in County records as having a high archaeological sensitivity. In accordance with General Plan Open Space Policy OS-6.3, any new development being proposed within moderate or high sensitivity zones, or within 150 feet of a known recorded archaeological and/or cultural site, shall complete a Phase One Archaeological survey. As such, an archeeological report (LIB250099) was submitted during the project proposal; this parcel did not have any archaeological resources identified on the property. The report indicated that sloping hillsides would not have been conducive to establishment of a habitation site. Nothing was found that would indicate a prehistoric archaeological site in the area.
- Land Use Advisory Committee (LUAC) Review. Based on the Land Use Advisory Committee (LUAC) procedure guidelines adopted by the Monterey County Board of Supervisors per Resolution No. 08-338, this application does not meet any of the criteria in the guidelines requiring LUAC review because it does not involve a lot line adjustment, does not

need review by the Zoning Administrator or Planning Commission, and can be exempt from environmental review (see Finding No. 5).

- m) The application, project plans, and related support materials submitted by the project applicant to Monterey County HCD-Planning found in Project File PLN240291.
- 2. FINDING: SITE SUITABILITY The site is physically suitable for the proposed development and/or use.
 - **EVIDENCE:** a) The project has been reviewed for site suitability by the following departments and agencies: HCD-Planning, HCD-Engineering Services, HCD-Environmental Services, Environmental Health Bureau, and Cypress Fire Protection District. County staff reviewed the application materials and plans to verify that the project on the subject site conforms to the applicable plans and regulations, and there has been no indication from these departments/agencies that the site is not suitable for the development. Conditions recommended have been incorporated.
 - b) Staff identified potential impacts to soils, and archeological resources. The following reports have been prepared:
 - "OWTS Feasibility Report" (LIB250100) prepared by Paul Myer, Soquel, CA, March 30, 2023.
 - "Geotechnical Report" (LIB200078) prepared by Lawrence E. Grice, Salinas, CA, April 23, 2019.
 - "Cultural Resources Study" (LIB250099) prepared by Susan Morley, Pebble Beach, CA, May 2017.

County staff independently reviewed these reports and concurs with their conclusions. There are no physical or environmental constraints that would indicate that the site is not suitable for the use. All development shall be in accordance with these reports.

- c) The project planner conducted a virtual site inspection on April 1, 2025 and assessed site photos submitted by the applicant to verify that the project on the subject parcel conforms to the plans listed above.
- d) The application, project plans, and related support materials submitted by the project applicant to Monterey County HCD-Planning found in Project File PLN240291.
- 3. FINDING: HEALTH AND SAFETY The establishment, maintenance, or operation of the use or structure applied for will not, under the circumstances of this particular case, be detrimental to the health, safety, peace, morals, comfort, and general welfare of persons residing or working in the neighborhood of such proposed use, or be detrimental or injurious to property and improvements in the neighborhood, or to the general welfare of the County.
 - **EVIDENCE:** a) The project was reviewed by HCD-Planning, HCD- Engineering Services, HCD-Environmental Services, Environmental Health Bureau, and Cypress Fire Protection District. The respective agencies have recommended conditions, where appropriate, to ensure that the project will not have an adverse effect on the health, safety, and welfare of persons either residing or working in the neighborhood.
 - b) Necessary public facilities will be provided. Domestic water will be provided by the California American Water who provided a "Can and

Will Serve" letter dated November 27, 2017, confirming their ability to serve all proposed development.

- c) In order to verify the site soils could adequately support a septic / Onsite Wastewater Treatment System (OWTS), Myer Engineering, INC. performed percolation tests and assessed soil characteristics described in a report dated March 30, 2023. Test holes were prepared and percolated in the suitable range for wastewater disposal. The Environmental Health Bureau approved the OWTS designs with the calculations provided.
- d) The subject parcel is located within a State Responsibility Area classified as having a high fire hazard. The construction of the new single-family dwelling is designed to be a fire-resistant structure that meets current fire and building code standard.
- e) The project planner conducted a virtual site inspection on April 1, 2025 and assessed site photos submitted by the applicant to verify that the project on the subject parcel conforms to the plans listed above.
- f) The application, project plans, and related support materials submitted by the project applicant to Monterey County HCD-Planning found in Project File PLN240291.
- 4. FINDING: NO VIOLATIONS The subject property is in compliance with all rules and regulations pertaining to zoning uses, subdivision, and any other applicable provisions of the County's zoning ordinance. No violations exist on the property.
 - **EVIDENCE:** a) Staff reviewed Monterey County HCD-Planning and HCD-Building Services records and is not aware of any violations existing on subject property.
 - b) The project planner conducted a virtual site inspection on April 1, 2025 and assessed site photos submitted by the applicant to verify that the project on the subject parcel conforms to the plans listed above.
 - c) The application, project plans, and related support materials submitted by the project applicant to Monterey County HCD-Planning found in Project File PLN240291.

5. FINDING: CEQA (Exempt) – The project is categorically exempt from environmental review and no unusual circumstances were identified to exist for the proposed project.

- **EVIDENCE:** a) California Environmental Quality Act (CEQA) Guidelines Section 15303(a) categorically exempts construction of a single-family dwelling. The project consists of establishing the first single family dwelling on a vacant lot within a residential zoning district.
 - b) No adverse environmental effects were identified during staff review of the development application during a virtual site visit on April 1, 2025.
 - c) None of the exceptions under CEQA Guidelines Section 15300.2 apply to this project, as detailed in Evidence "d" through "i" below.
 - d) Section 15300.2 of CEQA Guidelines states that construction of the first single-family dwelling within a residential zoning district is ordinarily insignificant in its impact on the environment. However, there may be potential impacts on an environmental resource of hazardous or critical concern where designated, precisely mapped, and officially adopted

pursuant to law by federal, state, or local agencies due to the project's location. No such impact is identified in the project area.

- e) This is the only remaining undeveloped lot in the immediate area. As such, successive projects of the same type and in the same place (construction of a single-family dwelling on this lot which is zoned to allow such uses) would not occur resulting in contributing to a significant cumulative impact. The project, construction of a single-family residence and associated site improvements on a property zoned to allow such uses and without potentially significant impacts, would not contribute to a potential cumulative impact.
- f) The building site is located beyond the natural woodland vegetation and settled among hillsides which helps avoid adversely affecting the visual sensitivity of the area.
- g) The project site is not located near a hazardous waste site compiled pursuant to Section 65962.5 of the Government Code.
- h) There are no unusual circumstances associated with the project that would cause a potential environmental impact (see Findings 1 and 2 and supporting evidence).

6. FINDING: APPEALABILITY – The decision on this project may be appealed to the Planning Commission.

EVIDENCE: Pursuant to Title 21 Section 21.80.040.A, an aggrieved party may appeal a decision of the Chief of Planning to the Planning Commission.

DECISION

NOW, THEREFORE, based on the above findings and evidence, the Chief of Planning does hereby:

- 1. Find the project categorically exempt per Section 15303(a) of the CEQA Guidelines; and
- 2. Approve an Administrative Permit and Design Approval to allow construction of an approximately 4,445 square foot single-family dwelling inclusive of a 1,160 square foot lower-level and a 945 square foot attached garage; and installation of an on-site wastewater treatment system, and associated site improvements. Grading of approximately 2,017 cubic yards of cut, and 60 cubic yards of fill.

Said decision is to be in substantial conformance with the attached plan and subject to the attached conditions where are incorporated herein by reference.

PASSED AND ADOPTED this 18th day of June, 2025.

Melanie Beretti, AICP HCD Chief of Planning

COPY OF THIS DECISION MAILED TO APPLICANT ON _____.

THIS APPLICATION IS APPEALABLE TO THE PLANNING COMMISSION.

IF ANYONE WISHES TO APPEAL THIS DECISION, AN APPEAL FORM MUST BE COMPLETED AND SUBMITTED TO THE SECRETARY OF THE PLANNING COMMISSION ALONG WITH THE APPROPRIATE FILING FEE ON OR BEFORE ______.

This decision, if this is the final administrative decision, is subject to judicial review pursuant to California Code of Civil Procedure Sections 1094.5 and 1094.6. Any Petition for Writ of Mandate must be filed with the Court no later than the 90th day following the date on which this decision becomes final.

NOTES

1. You will need a building permit and must comply with the Monterey County Building Ordinance in every respect.

Additionally, the Zoning Ordinance provides that no building permit shall be issued, nor any use conducted, otherwise than in accordance with the conditions and terms of the permit granted or until ten days after the mailing of notice of the granting of the permit by the appropriate authority, or after granting of the permit by the Board of Supervisors in the event of appeal.

Do not start any construction or occupy any building until you have obtained the necessary permits and use clearances from Monterey County HCD-Planning and HCD-Building Services Department office in Salinas.

2. This permit expires 3 years after the above date of granting thereof unless construction or use is started within this period.

Form Rev. 1-27-2021

County of Monterey HCD Planning

DRAFT Conditions of Approval/Implementation Plan/Mitigation Monitoring and Reporting Plan

PLN240291

1. PD001 - SPECIFIC USES ONLY

Responsible Department: Planning

Performed:

Condition/Mitigation This Administrative Permit and Design Approval permit (PLN240291) allows **Monitoring Measure:** construction of an approximately 4,445 square foot single-family dwelling inclusive of a 1,160 square foot lower-level and a 945 square foot attached garage; and installation of an on-site wastewater treatment system, and associated site improvements. Grading of approximately 2,017 cubic yards of cut, and 60 cubic yards of fill. The property is 4185 Carmel (Assessor's located at Marguerita Way, Parcel Number 015-042-015-000), Carmel Valley Master Plan. This permit approved was in accordance with County ordinances and land use regulations subject to the terms and conditions described in the project file. Neither the uses nor the construction allowed by this permit shall commence unless and until all of the conditions of this permit are met to the satisfaction of the Director of HCD - Planning. Any use or construction not in substantial conformance with the terms and conditions of this permit is a violation of County regulations and may result in modification or revocation of this permit and subsequent legal action. No use or construction other than that specified by this permit is allowed unless additional permits are approved by the appropriate authorities. To the extent that the County has delegated any condition compliance or mitigation monitoring to the Monterey County Water Resources Agency, the Water Resources Agency shall provide all information requested by the County and the County shall bear ultimate responsibility to ensure that conditions and mitigation measures are properly fulfilled. (HCD - Planning)

Compliance or Monitoring Action to be on-going basis unless otherwise stated.

2. PD002 - NOTICE PERMIT APPROVAL

Responsible Department: Planning

Condition/Mitigation The applicant shall record a Permit Approval Notice. This notice shall state:

"An Administrative Permit and Design Approval (Resolution Number _____) was approved by the Chief of Planning for Assessor's Parcel Number 015-042-015-000 on June 18th, 2025. The permit was granted subject to 11 conditions of approval which run with the land. A copy of the permit is on file with Monterey County HCD - Planning."

Proof of recordation of this notice shall be furnished to the Director of HCD - Planning prior to issuance of grading and building permits, Certificates of Compliance, or commencement of use, whichever occurs first and as applicable. (HCD - Planning)

Compliance or Monitoring Action to be Performed:Prior to the issuance of grading and building permits, certificates of compliance, or commencement of use, whichever occurs first and as applicable, the Owner/Applicant shall provide proof of recordation of this notice to the HCD - Planning.

3. PD003(A) - CULTURAL RESOURCES NEGATIVE ARCHAEOLOGICAL REPORT

Responsible Department: Planning

Condition/Mitigation archaeological, lf. during the course of construction, cultural, historical or **Monitoring Measure:** paleontological resources are uncovered at the site (surface or subsurface resources) work shall be halted immediately within 50 meters (165 feet) of the find until a gualified professional archaeologist can evaluate it. Monterey County HCD - Planning and a archaeologist archaeologist registered qualified (i.e., an with the Register of Professional Archaeologists) immediately shall be contacted by the responsible individual present on-site. When contacted, the project planner and the archaeologist shall immediately visit the site to determine the extent of the resources and to develop proper mitigation measures required for recovery. (HCD - Planning)

Compliance or Monitoring Action to be Performed:

or The Owner/Applicant shall adhere to this condition on an on-going basis.

Prior to the issuance of grading or building permits and/or prior to the recordation of the final/parcel map, whichever occurs first, the Owner/Applicant shall include requirements of this condition as a note on all grading and building plans. The note shall state "Stop work within 50 meters (165 feet) of uncovered resource and contact Monterey County HCD - Planning and a qualified archaeologist immediately if cultural, archaeological, historical or paleontological resources are uncovered."

When contacted, the project planner and the archaeologist shall immediately visit the site to determine the extent of the resources and to develop proper mitigation measures required for the discovery.

4. PD011 - TREE AND ROOT PROTECTION

Responsible Department: Planning

> Condition/Mitigation Trees which are located close to construction site(s) shall be protected from Monitoring Measure: inadvertent damage from construction equipment by fencing off the canopy driplines and/or critical root zones (whichever is greater) with protective materials, wrapping trunks with protective materials, avoiding fill of any type against the base of the trunks and avoiding an increase in soil depth at the feeding zone or drip-line of the retained Said protection, approved by certified arborist, shall be demonstrated prior to trees. issuance of building permits subject to the approval of HCD - Director of Planning. lf there is any potential for damage, all work must stop in the area and a report, with mitigation measures, shall be submitted by certified arborist. Should any additional trees not included in this permit be harmed, during grading or construction activities, in such a way where removal is required, the owner/applicant shall obtain required permits. (HCD - Planning)

Compliance or Prior to issuance of grading and/or building permits, the Owner/Applicant shall submit Monitorina evidence of tree protection to HCD - Planning for review and approval. Action to be

damage is possible, submit an interim report prepared by a certified arborist.

Performed: During construction, the Owner/Applicant/Arborist shall submit on-going evidence that tree protection measures are in place throughout grading and construction phases.

> Prior to final inspection, the Owner/Applicant shall submit photos of the trees on the property to HCD-Planning after construction to document that tree protection has been successful or if follow-up remediation or additional permits are required.

lf

5. PD012(D) - LANDSCAPE PLAN AND MAINTENANCE

Responsible Department: Planning

- **Condition/Mitigation Monitoring Measure:** The site shall be landscaped. Prior to the issuance of building permits, an electronic copy of the final landscaping plan shall be submitted to HCD - Planning. The landscaping plan shall be in sufficient detail to identify the location, species, and size of the proposed landscaping materials and shall include an irrigation plan. The plan shall be accompanied by a nursery or contractor's estimate of the cost of installation of the plan. Before occupancy, landscaping shall be either installed or a certificate of deposit or other form of surety made payable to Monterey County for that cost estimate shall be submitted to Monterey County HCD- Planning. All landscaped areas and fences shall be continuously maintained by the applicant; all plant material shall be continuously maintained in a litter-free, weed-free, healthy, growing condition. (HCD– Planning)
 - **Compliance or** Prior to issuance of Building Permits, the Owner/Applicant/Agent/Contractor shall Monitoring submit final landscape plans and contractor's estimate to HCD- Planning for review Action to be and approval. Landscaping plans shall include the recommendations from the Forest Performed: Management Plan. All landscape plans shall be signed and stamped by licensed professional under the following statement, "I certify that this landscaping and irrigation plan complies with all Monterey County landscaping requirements including use of non-invasive species; limited turf; native. drought-tolerant, and low-flow, water conserving irrigation fixtures."

Prior to issuance of Building Permits, the Owner/Applicant/Agent/Contractor shall submit to HCD– Planning approved landscape plans, a Maximum Applied Water Allowance (MAWA) calculation, and a completed "Residential Water Release Form and Water Permit Application" to the Monterey Peninsula Water Management District for review and approval.

6. PD014(A) - LIGHTING - EXTERIOR LIGHTING PLAN

Responsible Department: Planning

Condition/Mitigation Monitoring Measure: All exterior lighting shall be unobtrusive, down-lit, harmonious with the local area, and constructed or located so that only the intended area is illuminated, and off-site glare is fully controlled. The lighting source shall be shielded and recessed into the fixture. The applicant shall submit three (3) copies of an exterior lighting plan which shall indicate the location, type, and wattage of all light fixtures and include catalog sheets for each fixture. The lighting shall comply with the requirements of the California Energy Code set forth in California Code of Regulations Title 24 Part 6. The exterior lighting plan shall be subject to approval by the Director of HCD - Planning, prior to the issuance of building permits.

(HCD - Planning)

Compliance or Monitoring Action to be Performed: Prior to the issuance of building permits, the Owner/Applicant shall submit three copies of the lighting plans to HCD - Planning for review and approval. Approved lighting plans shall be incorporated into final building plans.

Prior to final/occupancy, the Owner/Applicant/Contractor shall submit written and photographic evidence demonstrating that the lighting has been installed according to the approved plan.

On an on-going basis, the Owner/Applicant shall ensure that the lighting is installed and maintained in accordance with the approved plan.

7. PD006(A) - CONDITION COMPLIANCE FEE

Responsible Department: Planning

Condition/Mitigation Monitoring Measure: The Owner/Applicant shall pay the Condition Compliance fee, as set forth in the fee schedule adopted by the Board of Supervisors, for the staff time required to satisfy conditions of approval. The fee in effect at the time of payment shall be paid prior to clearing any conditions of approval.

Compliance or Monitoring Action to be Prior to clearance of conditions, the Owner/Applicant shall pay the Condition **Compliance fee, as set forth in the fee schedule adopted by the Board of Supervisors. Performed:**

8. PW0005 - DRIVEWAY IMPROVEMENTS

Responsible Department: Public Works

Condition/Mitigation Construct driveway connection to Margurita Way. The design and construction is **Monitoring Measure:** subject to the approval of the HCD -PWFP. Encroachment Permits are required for all work within the public right-of-way. Compliance or Owner/Applicant shall submit the design for review and approval of the HCD-PWFP, Monitoring obtain an Action to be encroachment permit from the HCD -PWFP prior to issuance of building or grading Performed: permits, and construct and complete improvements prior to occupancy or commencement of use. Applicant is responsible to obtain all permits and environmental clearances.

9. PW0006 - CARMEL VALLEY

Responsible Department: Public Works

 Condition/Mitigation Monitoring Measure:
 The Applicant shall pay the Carmel Valley Master Plan Area Traffic Mitigation fee pursuant to the Board of Supervisors Resolution NO. 95-140, adopted September 12, 1995 (Fees are updated annually based on CCI). (Public Works)

 Compliance or Monitoring Lation to building Permits Issuance Owner/Applicant shall pay to PBI the required traffic mitigation fee.

Action to be Performed:

10. PW0043 - REGIONAL DEVELOPMENT IMPACT FEE

Responsible Department:	Public Works
Condition/Mitigation Monitoring Measure:	Prior to issuance of building permits, applicant shall pay the Regional Development Impact Fee (RDIF) pursuant to Monterey Code Chapter 12.90. The fee amount shall be determined based on the parameters adopted in the current fee schedule.
Compliance or Monitoring Action to be Performed:	Prior to issuance of Building Permits Owner/Applicant shall pay Monterey County Building Services Department the traffic mitigation fee. Owner/Applicant shall submit proof of payment to the HCD-Engineering Services.

11. PW0044 - CONSTRUCTION MANAGEMENT PLAN

Responsible Department: Public Works

Condition/Mitigation Monitoring Measure:	The applicant shall submit a Construction Management Plan (CMP) to HCD-Planning and HCD-Engineering Services for review and approval. The CMP shall include measures to minimize traffic impacts during the construction/grading phase of the project. CMP shall include, at a minimum, duration of the construction, hours of operation, truck routes, estimated number of truck trips that will be generated, number of construction workers, and on-site/off-site parking areas for equipment and workers and locations of truck staging areas. Approved measures included in the CMP shall be implemented by the applicant during the construction/grading phase of the project. (Public Works)
Compliance or Monitoring Action to be Performed:	 Prior to issuance of the Grading Permit or Building Permit, Owner/Applicant/Contractor shall prepare a CMP and shall submit the CMP to the HCD-Planning and HCD- Engineering Services for review and approval. On-going through construction phases Owner/Applicant/Contractor shall implement the approved measures during the construction/grading phase of the project.

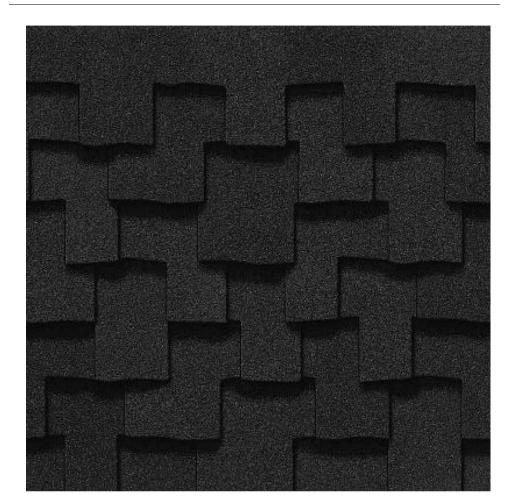






3 LITE DARK STAINED OAK ENTRY DOOR





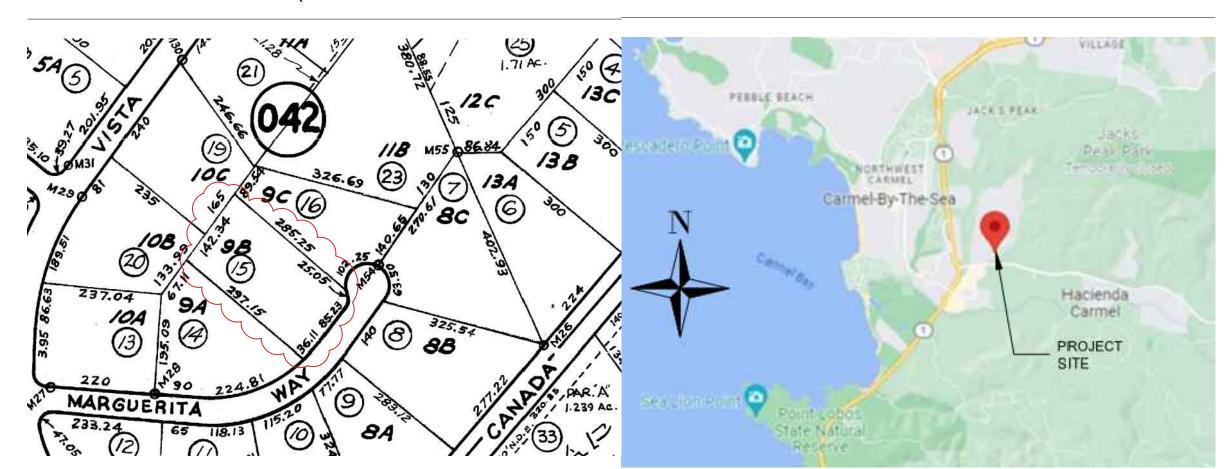
ROOFING



EAST VIEW



WEST VIEW



WINDOW

VICINITY MAP

NORTH VIEW



SOUTH VIEW



STUCCO

COLOR

TEXTURE



SCOPE OF WORK:

PROPOSED DEVELOPMENT OF A NEW 2421 SQ. FT. RESIDENTIAL SINGLE FAMILY HOME, WITH 945 SQ.FT ATTACHED GARAGE, AND 1,160 SQ.FT. LOWER LEVEL OFFICE/BONUS ROOM. CONCRETE SLAB ON GRADE FOUNDATION WITH WOOD FRAMING AND WOOD TRUSSES. EXTERIOR WALL COVERINGS CONSIST OF STUCCO AROUND GARAGE/BACK OF HOUSE AND LOWER LEVEL; WOOD SHINGLES PROPOSED ON UPPER LEVEL. ROOF TO BE COMPOSITE ASPHALT SHINGLES WITH PAINTED METAIL GUTTERS/DOWNSPOUTS. WINDOWS TO BE ALUMINUM CLAD WOOD WINDOWS. SITE IMPROVEMENTS CONSIST OF 4,650 SQ.FT. IMPERVIOUS DRIVEWAY AND 176 SQ.FT. TILE DECK ON UPPER LEVEL, AND APPROXIMATELY 1,110 SQ.FT. OF PERVIOUS PAVERS ON FRONT AND BACK PATIOS; TO INCLUDE STAIRS.

SHEET INDEX:

G1.0	PROJECT INFORMATION
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STRUCTURAL	TBD
STRUCTURAL	TBD
MECHANICAL	TBD
MECHANICAL	TBD
MECHANICAL	TBD

TITLE 24 TBD

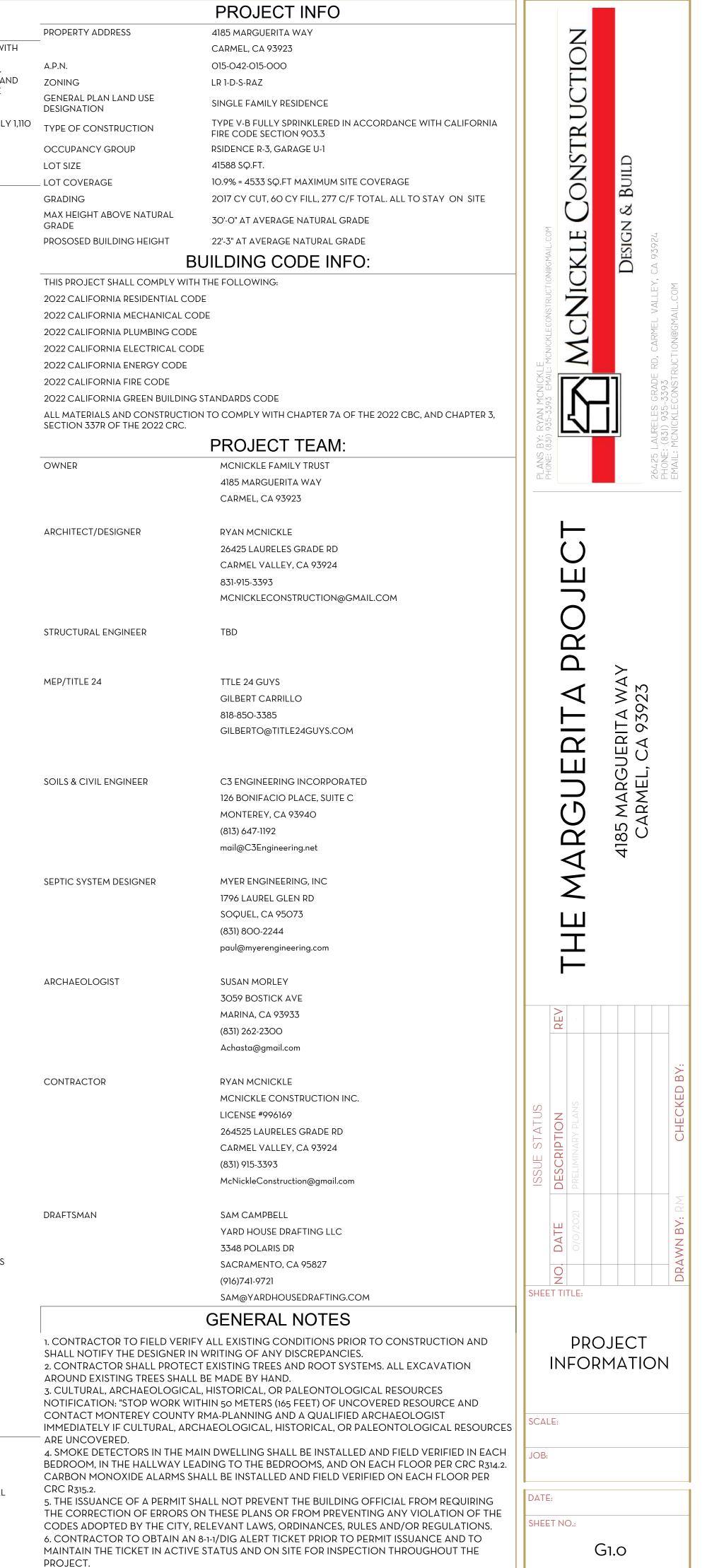
BUILDING INFORMATION + LOT COVERAGE

lot s	IZE	41588	SQ.FT.	
ALLOWABLE LOT COVERAGE		10,397	SQ.FT.	OR 25%
ΤΟΤΑ	L LOT COVERAGE	3608	SQ.FT	OR 8.67%
(P) FL	OOR AREA:	10.68%		
	MAIN HOUSE LEVEL	2,337.4	SQ.FT.	
	MAIN HOUSE LOWER LEVEL	1,159.8	SQ.FT.	
(P) GA	RAGE	945	SQ.FT.	
FLOO	R AREA RATIO	4442	SQ.FT	OR 10.68%
PARKI	NG STALLS	5 TOTAL		
	GARAGE PARKING	3	COVERE	ED PARKING STALLS
	DRIVEWAY OUTLET	2	UNCOVI	ERED PARKING STALLS
IMPER	RVIOUS COVERAGE			

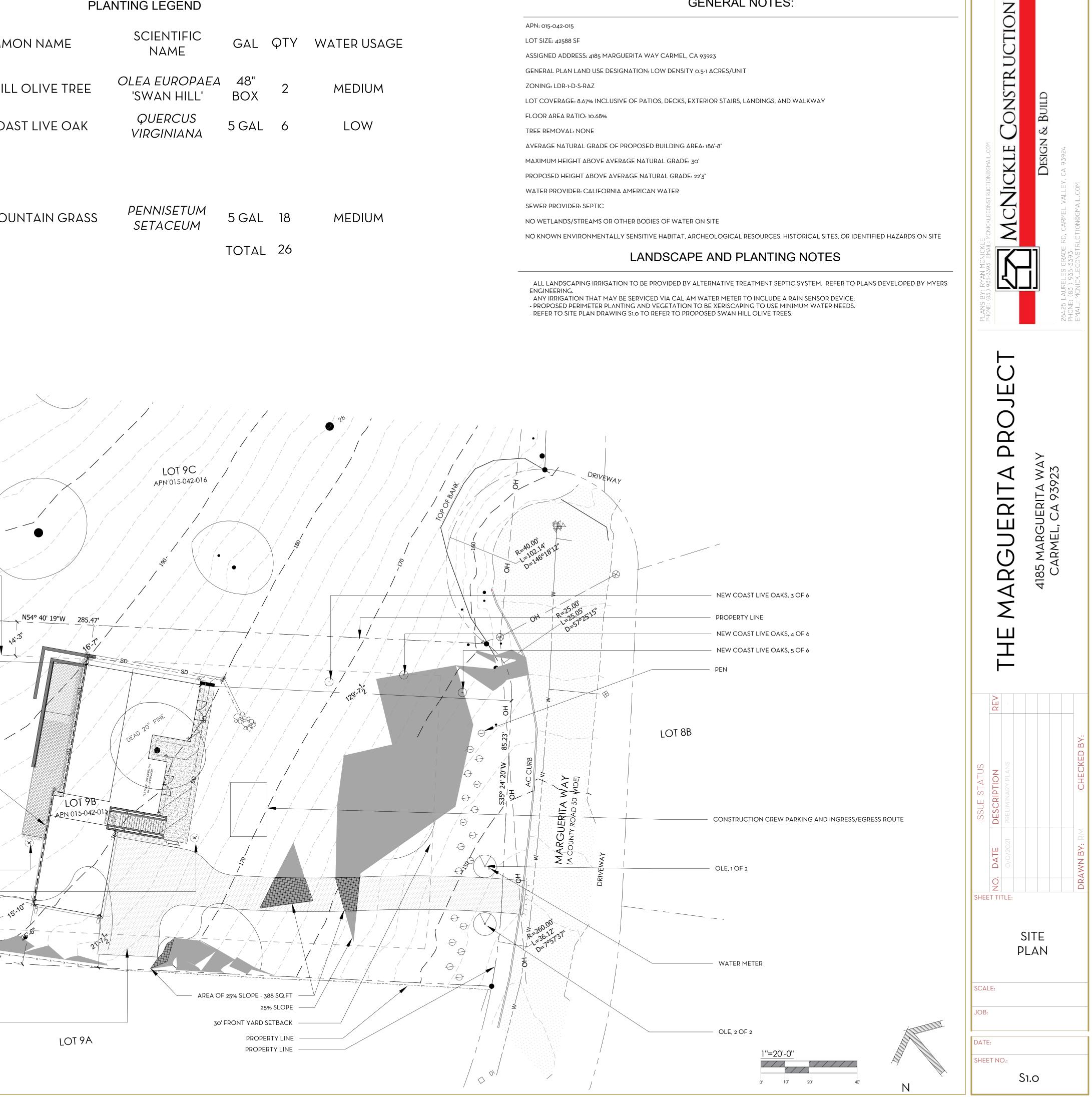
IMPERVIOUS COVERAGE							
4,847	SQ.FT						
4442.2	SQ.FT						
9,289	SQ.FT						
	4442.2						

MISCELLANEOUS

WATER SOURCE	CAL-AM
WASTE DISPOSAL SYSTEM	ATERNATIVE TREATMENT SEPTIC
GRADING ESTIMATES	2017 CY CUT, 60 CY FILL,277 C/F TOTAI
TREES TO BE REMOVED	NONE
(E) PARKING EXISTING	3 CAR PARKING GARAGE
(E) BUILDING SPRINKLERED	MAIN HOUSE & BASEMENT



			PL/	ANTING LEGEND				
	NAME OF	TREES	COMMON NAME	SCIENTIFIC NAME	GAL	φτγ	WATER USAGE	APN: 015-042-015 LOT SIZE: 42588 SF ASSIGNED ADDRESS: 4185 N
		OLE	SWAN HILL OLIVE TREE	<i>OLEA EUROPAEA</i> 'SWAN HILL'	48" BOX	2	MEDIUM	GENERAL PLAN LAND USE ZONING: LDR-1-D-S-RAZ LOT COVERAGE: 8.67% INC
		QUE	NEW COAST LIVE OAK	<i>QUERCUS</i> VIRGINIANA	5 GAL	6	LOW	FLOOR AREA RATIO: 10.689 TREE REMOVAL: NONE AVERAGE NATURAL GRAD
OLIVE TREE	GREEN FOUNTAIN GRASS	SHRUBS						MAXIMUM HEIGHT ABOVE PROPOSED HEIGHT ABOVE WATER PROVIDER: CALIFC
the state where where the		PEN	GREEN FOUNTAIN GRASS	PENNISETUM SETACEUM	5 GAL		MEDIUM	SEWER PROVIDER: SEPTIC NO WETLANDS/STREAMS (NO KNOWN ENVIRONMEN
					TOTAL	26		- ALL LANDSCAPING IRRIG ENGINEERING. - ANY IRRIGATION THAT N - PROPOSED PERIMETER - REFER TO SITE PLAN DR
	OH				i i	/		
NEW COAST LIVE OAK								
	° 34' 28"E 89			LOT 9C APN 015-042-016				DRIVE HO HO
						180°		8 NO.00 A
14.2' SID	LOT 10C			- Start -	•			
NEW COAST L	LIVE OAKS, 2 OF 6		<u> </u>					• • • • • • • • • • • • • •
			120 ¹²	= $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$				
	LIVE OAKS, 1 OF 6						÷ 129.712	Н
NEW COAST				DEAD 20° PINE				85.23
	142.35	•		The body of the second se				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	20' REAR SETBACK		LOT 9B APN 015-042-01					MARGUERITA V (A GOUNTY ROAD 50'
2' TOP	O INTERVALS, TYP.	►			Q _I			MAROUN C
REMOVE 1 OF 2 COAST LIVE C REMOVE 2 OF 2 COAST LIVE C		105-6						HO HO MENIO
			75-10					/
	LOT 10B	N5	4° 40' 17"W 297.41' × × × × × ×					$ \overline{\mathbf{b}} $ $ \overline{\mathbf{b} $ $ \overline{\mathbf{b}} $ $ \overline{\mathbf{b} $ $ \overline{\mathbf{b}} $ $ \overline{\mathbf{b}} $
GENER	IDE YARD SETBACK Wate ATOR PAD, SEE A5.3 Acro	er Tanks Encroach ss Property Line			F 25% SLOPE - 3	388 SQ.FT —	x	
PRO	PANE PAD, SEE A5.3 FIRE TRUCK TURN AROUND		LOT 9A	3C	FRONT YARD	5% SLOPE – SETBACK – ERTY LINE –		
			LOI AM			RTY LINE –		



GENERAL NOTES:

FUEL MANAGEMENT PLAN NOTES:

"GREEN ZONE" WITHIN 30 FEET SURROUNDING THE BUILDING.

1-CUT FLAMMABLE VEGETATION AROUND BUILDINGS A MINIMUM 30 FEET OR TO EH PROPERTY LINE. WHICHEVER IS CLOSER, EXCEPT FOR THE LANDSCAPING. AS FOLLOWS:

1.1-CUT DRY WAND DEAD GRASS TO A MAXIMUM HEIGH OF 4 INCHES.

1.2-MAINTAIN THE ROOF AND GUTTERS OF THE STRUCTURE FREE OF LEAVES, NEEDLES OR OTHER DEAD VEGETATIVE GROWTH 1.3-MAINTAIN ANY TREE ADJACENT TO OR OVERHANGING A BUILDING FREE OF DEAD WOOD.

1.4-TRIM TREE LIMBS THAT EXTEND WITHIN 10 FEET OF THE OUTLET OF A CHIMNEY OR STOVE PIPE. OR TRIM DEAD PORTIONS OF TREE LIMBS WITHIN 10 FEET FROM THE GROUND.

1.5-REMOVE ALL LIMBS WITHIN 6 FEET OF THE GROUND

1.6-REMOVE ALL DEAD FALLEN MATERIAL UNLESS IT IS EMBEDDED IN THE SOIL.

1.7-REMOVE ALL CUT MATERIAL FROM THE AREA.

2-REMOVE ALL CUT MATERIAL FROM THE AREA OR CHIP AND SPREAD ON SITE 3-PROVIDE AND MAINTAIN AT ALL TIMES A SCREEN OVER THE OUTLET OF EVERY CHIMNEY OR STOVE PIPE THAT IS ATTACHED TO A FIREPLACE, STOVE OR OTHER DEVICE THAT BURNS ANY SOLID OR LIQUID FUEL. THE SCREEN SHALL BE CONSTRUCTED OF NON FLAMMABLE MATERIAL AND OPENINGS OF NOT MORE THAN ." IN SIZE. 4-POST HOUSE NUMBERS PER FIRE DEPARTMENT REQUIREMENTS.

"REDUCED FUEL ZONE" BETWEEN 30 AND 100 FEET AROUND THE BUILDING.

1-CUT PLANTS AND GRASS BENEATH TREE CANOPIES TO PREVENT FIRE FROM SPREADING TO THE TREES. THESE PLANTS SHOULD BE "TOPPED OFF" LEAVING THE ROOT STRUCTURE INTACT TO MINIMIZE EROSION. 2-CUT OR MOW ANNUAL GRASS DOWN TO A MAXIMUM HEIGHT OF 4 INCHES.

3-CREATE HORIZONTAL SPACING BETWEEN SHRUBS AND TREES

4-CREATE VERTICAL SPACING BETWEEN GRASS, SHRUBS AND TREES 5-DO NOT USE HERBICIDE OR CHEMICAL METHODS TO REMOVE VEGETATION.

FUEL MANAGEMENT LEGEND

- GREEN ZONE- WITHIN 30 FEET SURROUNDING THE BUILDING.

- REDUCED FUEL ZONE- BETWEEN 30-100 FEET AROUND THE BUILDING.



GENERAL NOTES:

APN: 015-042-015
LOT SIZE: 41588 SF
ASSIGNED ADDRESS: 4185 MARGUERITA WAY CARMEL, CA 93923
GENERAL PLAN LAND USE DESIGNATION: LOW DENSITY 0.5-1 ACRES/UNIT
ZONING: LDR-1-D-S-RAZ
LOT COVERAGE: 8.67% INCLUSIVE OF PATIOS, DECKS, EXTERIOR STAIRS, LANDINGS, AND WALKWAY
FLOOR AREA RATIO: 10.68%
TREE REMOVAL: NONE
AVERAGE NATURAL GRADE OF PROPOSED BUILDING AREA: 186'-8"
MAXIMUM HEIGHT ABOVE AVERAGE NATURAL GRADE: 30'
PROPOSED HEIGHT ABOVE AVERAGE NATURAL GRADE: 22'3"
WATER PROVIDER: CALIFORNIA AMERICAN WATER
SEWER PROVIDER: SEPTIC
NO WETLANDS/STREAMS OR OTHER BODIES OF WATER ON SITE
NO KNOWN ENVIRONMENTALLY SENSITIVE HABITAT, ARCHEOLOGICAL RESOURCES, HISTORICAL SITES, OR IDENTIFIED HAZARDS ON SITE

CONSTRUCTION NOTES FOR VERY HIGH FIRE HAZARD SEVERITY ZONES

NEW BUILDINGS AND STRUCTURES LOCATED IN "HIGH" FIRE HAZARD SEVERITY ZONES SHALL COMPLY WITH THE REQUIREMENTS OF CBC AND, CHAPTER 7A SECTION 701A.1. & CRC, CHAPTER 3, SECTION 337R.

2. ROOF GUTTERS SHALL BE PROVIDED WITH THE MEANS TO PREVENT THE ACCUMULATION OF LEAVES AND DEBRIS IN THE GUTTER. [§R327.5.4]

3. ROOF AND ATTIC VENTS SHALL RESIST THE INTRUSION OF FLAME AND EMBERS INTO THE ATTIC AREA OF THE STRUCTURE, OR SHALL BE PROTECTED BY CORROSION-RESISTANT, NONCOMBUSTIBLE WIRE MESH WITH OPENINGS A MINIMUM OF 1/16-INCH AND SHALL NOT EXCEED 1/8-INCH. [§R327.6.2] 4. VENTS SHALL NOT BE INSTALLED ON THE UNDERSIDE OF EAVES AND CORNICES, UNLESS THE VENTS ARE APPROVED TO RESIST THE INTRUSION OF FLAME AND EMBERS, THE ATTIC SPACE IS SPRINKLERED IN ACCORDANCE WITH CBC SEC. 903.3.1.1, OR IF THE EXTERIOR WALL AND UNDERSIDE OF THE EAVE ARE OF IGNITION RESISTANT MATERIALS AND THE VENTS ARE LOCATED MORE THAN 12 FEET FROM THE GROUND OR WALKING SURFACE. [§R327.6.3]

5. EXTERIOR WALL COVERING OR WALL ASSEMBLY SHALL BE APPROVED NONCOMBUSTIBLE MATERIAL, IGNITION-RESISTANT MATERIAL, HEAVY TIMBER, LOG WALL CONSTRUCTION, OR SHALL MEET THE PERFORMANCE CRITERIA OF STANDARD SFM 12-7A-1 FOR 10-MINUTE DIRECT FLAME CONTACT EXPOSURE TEST. [§R327.7.3] SEE EXCEPTIONS TO THIS SECTION FOR OTHER ALTERNATIVES.

EXTERIOR WALL COVERINGS SHALL EXTEND FROM THE TOP OF THE FOUNDATION TO THE ROOF, AND TERMINATE AT 2-INCH NOMINAL SOLID WOOD BLOCKING BETWEEN RAFTERS AND EAVES AT ALL ROOF OVERHANGS, OR IN THE CASE OF ENCLOSED EAVES, TERMINATE AT THE ENCLOSURE. [§R327.7.3.1] 7. THE EXPOSED ROOF DECK ON THE UNDERSIDE OF UNENCLOSED EAVES SHALL BE APPROVED NONCOMBUSTIBLE MATERIAL, IGNITION-RESISTANT MATERIAL, ONE LAYER OF 5/8" TYPE X GYPSUM BOARD, OR EXTERIOR PORTION OF AN APPROVED ONE HOUR WALL ASSEMBLY. [§R327.7.4] SEE EXCEPTIONS TO THESE SECTIONS FOR OTHER ALTERNATIVES. EXTERIOR WINDOWS AND EXTERIOR GLAZED DOORS SHALL BE MULTIPANE GLAZING WITH A MINIMUM OF ONE TEMPERED PANE. GLASS BLOCK UNITS, HAVE A FIRE RESISTANCE RATING OF 20 MINUTES WHEN TESTED IN ACCORDANCE WITH NFPA 257, OR MEET THE REQUIREMENTS OF SFM 12-7A-2. [§R327.8.2.1] 9. EXTERIOR DOORS SHALL BE OF APPROVED NONCOMBUSTIBLE CONSTRUCTION OR IGNITIONRESISTANT MATERIAL, SOLID CORE WOOD HAVING STILES AND RAILS NOT LESS THAN 1-3/8 INCHES THICK WITH INTERIOR FIELD PANEL THICKNESS NO LESS THAN 1-1/4 INCHES THICK. SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED ACCORDING TO NFPA 252, OR MEET THE REQUIREMENTS OF SFM-7A-1.

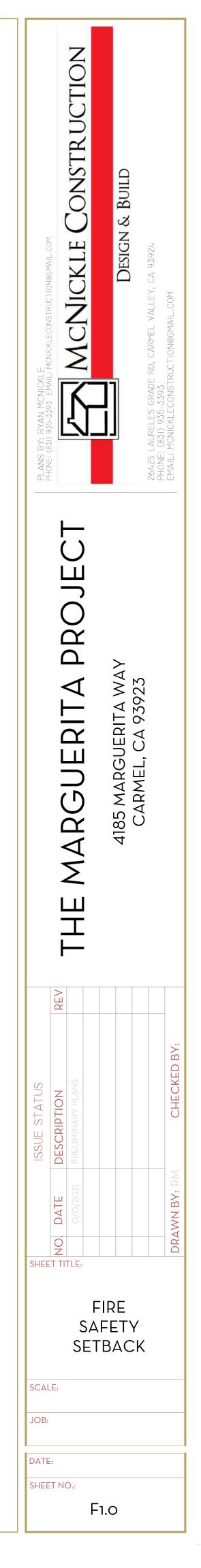
POLLUTANT CONTROL MEASURES

IN ACCORDANCE WITH SECTION 4.504, THE FOLLOWING POLLUTANT CONTROL MEASURES SHALL BE IMPLEMENTED. 1.1. PAINT, STAINS AND OTHER COATINGS SHALL BE COMPLIANT WITH

1.2. AEROSOL PAINTS AND COATINGS SHALL BE COMPLIANT WITH PRODUCT WEIGHTED MIR LIMITS FOR ROC AND OTHER TOXIC COMPOUNDS. DOCUMENTATION SHALL BE PROVIDED TO VERIFY COMPLIANT VOC LIMIT FINISH MATERIALS HAVE BEEN USED. 1.3. CARPET AND CARPET SYSTEMS SHALL BE COMPLIANT WITH VOC

1.4. 50% OF THE FLOOR AREA RECEIVING RESILIENT FLOORINGS SHALL COMPLY WITH THE VOC EMISSION LIMITS DEFINED IN THE COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CHPS) LOW-EMITTING MATERIALS LIST OR BE CERTIFIED UNDER THE RESILIENT FLOOR COVERING INSTITUTE (RFCI) FLOORSCORE

1.5. PARTICLEBOARD, MEDIUM DENSITY FIBERBOARD (MDF) AND HARDWOOD PLYWOOD USED IN INTERIOR FINISH SYSTEMS SHALL COMPLY WITH LOW FORMALDEHYDE EMISSION STANDARDS.





CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPs)



Non-Hazardous Materials

- Berm and cover stockpiles of sand, dirt or other construction material with tarps when rain is forecast or if not actively being used within 14 days.
- □ Use (but don't overuse) reclaimed water for dust control.

Hazardous Materials

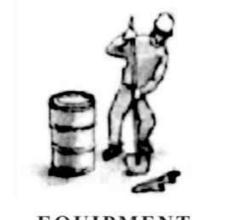
- Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state and federal regulations.
- □ Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecast.
- □ Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
- Arrange for appropriate disposal of all hazardous wastes.

Waste Management

- Cover waste disposal containers securely with tarps at the end of every work day and during wet weather.
- Check waste disposal containers frequently for leaks and to make sure they are not overfilled. Never hose down a dumpster on the construction site.
- Clean or replace portable toilets, and inspect them frequently for leaks and spills.
- Dispose of all wastes and debris properly. Recycle materials and wastes that can be recycled (such as asphalt, concrete, aggregate base materials, wood, gyp board, pipe, etc.)
- Dispose of liquid residues from paints, thinners, solvents, glues, and cleaning fluids as hazardous waste.

Construction Entrances and Perimeter

- Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.
- Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking. Never hose down streets to clean up tracking.



EQUIPMENT **MANAGEMENT & SPILL CONTROL**

Maintenance and Parking

- Designate an area, fitted with appropriate BMPs, for vehicle and equipment parking and storage.
- Perform major maintenance, repair jobs, and vehicle and equipment washing off site.
- □ If refueling or vehicle maintenance must be done onsite, work in a bermed area away from storm drains and over a drip pan big enough to collect fluids. Recycle or dispose of fluids as hazardous waste.
- □ If vehicle or equipment cleaning must be done onsite, clean with water only in a bermed area that will not allow rinse water to run into gutters. streets, storm drains, or surface waters.
- Do not clean vehicle or equipment onsite using soaps, solvents, degreasers, steam cleaning equipment, etc.

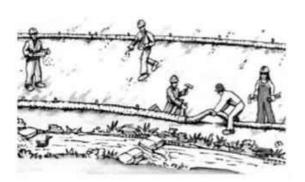
STORM DRAIN POLLUTERS MAY BE LIABLE FOR FINES OF UP TO \$10,000 PER DAY!

Construction Projects Are Required to Implement the Stormwater Best Management Practices (BMP) on this Page, as they Apply to Your Project, All Year Long.

Spill Prevention and Control

□ Keep spill cleanup materials (rags, absorbents, etc.) available at the construction site at all times.

- Inspect vehicles and equipment frequently for and repair leaks promptly. Use drip pans to catch leaks until repairs are made.
- Clean up spills or leaks immediately and dispose of cleanup materials properly.
- Do not hose down surfaces where fluids have spilled. Use dry cleanup methods (absorbent materials, cat litter, and/or rags).
- □ Sweep up spilled dry material immediately. Do not try to wash them away with water, or bury them.
- □ Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- □ Report significant spills immediately. You are required by law to report all significant releases of hazardous materials, including oil. To report a spill: 1) Dial 911 or your local emergency response number, 2) Call the Governor's Office of **Emergency Services Warning** Center, (800) 852-7550 (24 hours).



EARTHWORK & CONTAMINATED SOILS

Erosion Control

□ Schedule grading and excavation work for dry weather only.

- □ Stabilize all denuded areas, install and maintain temporary erosion controls (such as erosion control fabric or bonded fiber matrix) until vegetation is established.
- Seed or plant vegetation for erosion control on slopes or where construction is not immediately planned.

Sediment Control

- Protect storm drain inlets. gutters, ditches, and drainage courses with appropriate BMPs, such as gravel bags, fiber rolls, berms, etc.
- Prevent sediment from migrating offsite by installing and maintaining sediment controls, such as fiber rolls, silt fences, or sediment basins.
- Ger Keep excavated soil on the site where it will not collect into the street.
- Transfer excavated materials to dump trucks on the site, not in the street.
- Contaminated Soils
- □ If any of the following conditions are observed, test for contamination and contact the Regional Water Quality Control Board:
- · Unusual soil conditions,
- discoloration, or odor.
- Abandoned underground tanks Abandoned wells
- · Buried barrels, debris, or trash.



PAVING/ASPHALT WORK

- Avoid paving and seal coating in wet weather, or when rain is forecast before fresh pavement will have time to cure.
- Cover storm drain inlets and manholes when applying seal coat, tack coat, slurry seal, fog seal, etc.
- Collect and recycle or appropriately dispose of excess abrasive gravel or sand. Do NOT sweep or wash it into gutters.
- Do not use water to wash down fresh asphalt concrete pavement.

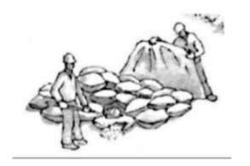
Sawcutting & Asphalt/Concrete Removal

- Completely cover or barricade storm drain inlets when saw cutting. Use filter fabric, catch basin inlet filters, or gravel bags to keep slurry out of the storm drain system.
- □ Shovel, abosorb, or vacuum saw-cut slurry and dispose of all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- □ If sawcut slurry enters a catch basin, clean it up immediately.



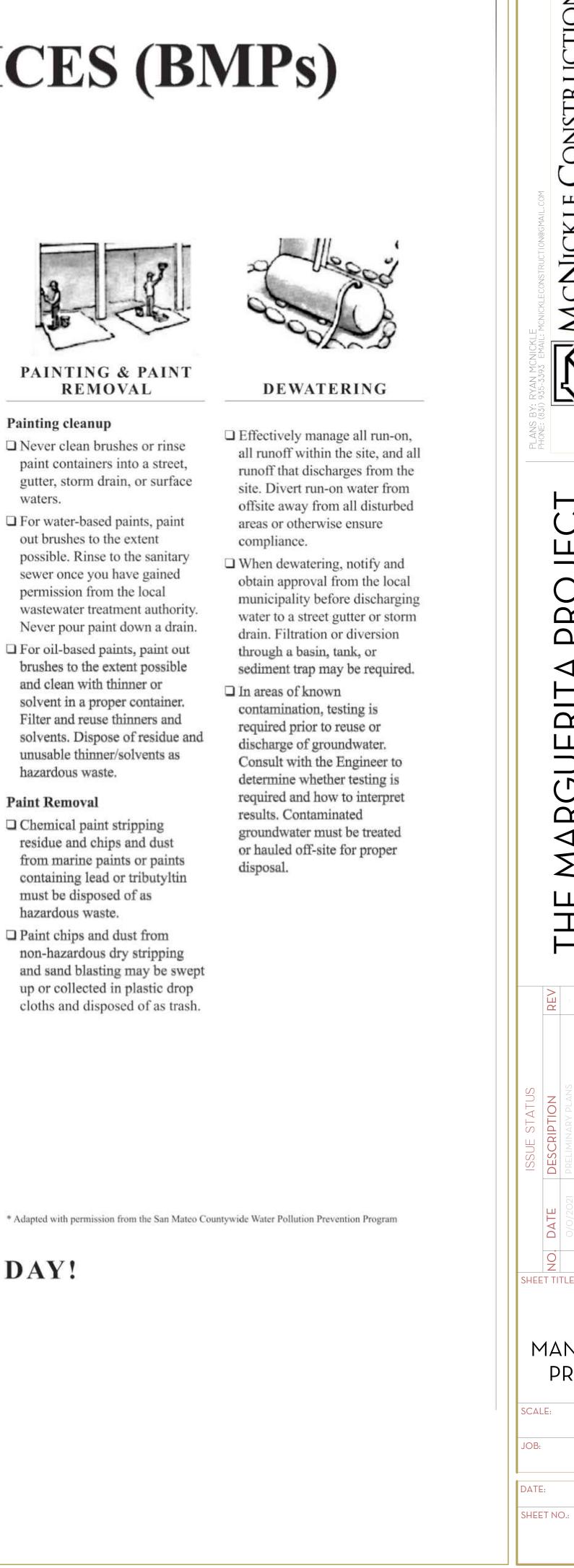
CONCRETE, GROUT & MORTAR APPLICATION

- □ Store concrete, grout and mortar under cover, on pallets and away from drainage areas. These materials must never reach a storm drain.
- □ Wash out concrete equipment/ trucks offsite or in a contained area, so there is no discharge into the underlying soil or onto surrounding areas. Let concrete harden and dispose of as garbage.
- Collect the wash water from washing exposed aggregate concrete and remove it for appropriate disposal offsite.



LANDSCAPE MATERIALS

- Contain stockpiled landscaping materials by storing them under tarps when they are not actively being used.
- □ Stack erodible landscape material on pallets. Cover or store these materials when they are not actively being used or applied.
- Discontinue application of any erodible landscape material within 2 days before a forecast rain event or during wet weather.



Filter and reuse thinners and solvents. Dispose of residue and unusable thinner/solvents as

Paint Removal

Painting cleanup

waters

- Chemical paint stripping residue and chips and dust from marine paints or paints containing lead or tributyltin must be disposed of as hazardous waste.
- □ Paint chips and dust from non-hazardous dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash

* Adapted with permission from the San Mateo Countywide Water Pollution Prevention Program

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CONSTRUCTION

& Build

SNE NE

MARGUERITA WA ARMEL, CA 93923 4185 C2

REV DÜ DATE HEET TITLE: BEST MANAGEMENT PRACTICES SCALE: JOB:

G1.2

California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE **RESIDENTIAL MANDATORY MEASURES, SHEET 1** (January 2023)

		_	_		
Y NA RESPON	CHAPTER 3		124	RESPO	<u>/</u>
	GREEN BUILDING SECTION 301 GENERAL				4.106.4.2 New multifamily dwellings, hotels When parking is provided, parking spaces for requirements of Sections 4.106.4.2.1 and 4.10
	301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code,				whole number. A parking space served by elect space shall count as at least one standard auto applicable minimum parking space requirement for further details.
	but are not required unless adopted by a city, county, or city and county as specified in Section 101.7. 301.1.1 Additions and alterations. [HCD] The mandatory provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the		0		4.106.4.2.1Multifamily development projects than 20 sleeping units or guest rooms. The number of dwelling units, sleeping units or this section.
	specific area of the addition or alteration. The mandatory provision of Section 4.106.4.2 may apply to additions or alterations of existing parking facilities or the addition of new parking facilities serving existing multifamily buildings. See Section 4.106.4.3 for application.				 EV Capable. Ten (10) percent of the t of parking facilities, shall be electric veh EVSE. Electrical load calculations shall system, including any on-site distribution
	Note: Repairs including, but not limited to, resurfacing, restriping and repairing or maintaining existing lighting fixtures are not considered alterations for the purpose of this section.				EVs at all required EV spaces at a minin The service panel or subpanel circuit dir for future EV charging purposes as "EV
	Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures.				Exceptions:
	Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.				1. When EV chargers (Level 2 EVSE) of EV capable spaces. 2. When EV chargers (Level 2 EVSE)
	301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] The provisions of individual sections of CALGreen may apply to either low-rise residential buildings high-rise residential buildings, or both. Individual sections will be designated by banners to indicate where the section applies specifically to low-rise only (LR) or high-rise only (HR). When the section applies to both low-rise and high-rise buildings, no banner will be used.				spaces, the number of EV capable EV chargers installed. Notes: a.Construction documents are intensi
	SECTION 302 MIXED OCCUPANCY BUILDINGS				future EV charging. b.There is no requirement for EV spe
	302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building				EV chargers are installed for use. 2.EV Ready. Twenty-five (25) percent of
	shall comply with the specific green building measures applicable to each specific occupancy. Exceptions: 1. [HCD] Accessory structures and accessory occupancies serving residential buildings shall				Level 2 EV charging receptacles. For m dwelling unit when more than one parking
	comply with Chapter 4 and Appendix A4, as applicable. 2. [HCD] For purposes of CALGrean, live/work units, complying with Section 419 of the California				Exception: Areas of parking facilities set
	Building Code, shall not be considered mixed occupancies. Live/Work units shall comply with Chapter 4 and Appendix A4, as applicable. DIVISION 4.1 PLANNING AND DESIGN				 4,106.4.2.2 Multifamily development project sleeping units or guest rooms. The number of dwelling units, sleeping units of this section.
	ABBREVIATION DEFINITIONS: HCD Department of Housing and Community Development BSC California Building Standards Commission				1.EV Capable. Ten (10) percent of the to of parking facilities, shall be electric veh
	DSA-SS Division of the State Architect, Structural Safety OSHPD Office of Statewide Health Planning and Development LR Low Rise HR High Rise				EVSE. Electrical load calculations shall system, including any on-site distribution EVs at all required EV spaces at a minin
	AA Additions and Alterations N New				The service panel or subpanel circuit dir for future EV charging purposes as "EV
	CHAPTER 4 RESIDENTIAL MANDATORY MEASURES				Exception: When EV chargers (Level parking spaces required by Section 4 reduced by a number equal to the nu Notes:
	SECTION 4.102 DEFINITIONS				a.Construction documents shall show
	4.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference)				b.There is no requirement for EV spi EV chargers are installed for use.
	FRENCH DRAIN. A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar pervious material used to collect or channel drainage or runoff water. WATTLES. Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials				2.EV Ready. Twenty-five (25) percent of Level 2 EV charging receptacles. For m dwelling unit when more than one parking
	such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also used for perimeter and inlet controls.				Exception: Areas of parking facilities
	 4.106 SITE DEVELOPMENT 4.106.1 GENERAL. Preservation and use of available natural resources shall be accomplished through evaluation and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes, management of storm water drainage and erosion controls shall comply with this section. 				3.EV Chargers. Five (5) percent of the Where common use parking is provided area and shall be available for use by al
00	4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. Projects which disturb less than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre or more, shall manage storm water drainage during construction. In order to manage storm water drainage during construction, one or more of the following measures shall be implemented to prevent flooding of adjacent property, prevent erosion and retain soil runoff on the site.				When low power Level 2 EV charging re an automatic load management system capacity to each space served by the Al shall have sufficient capacity to deliver a served by the ALMS. The branch circuit have a capacity of not less than 30 amp capacity to the required EV capable spa
	 Retention basins of sufficient size shall be utilized to retain storm water on the site. Where storm water is conveyed to a public drainage system, collection point, gutter or similar disposal method, water shall be filtered by use of a barrier system, wattle or other method approved by the enforcing agency. 				4.106.4.2.2.1 Electric vehicle charging st Electric vehicle charging stations required t
	 Compliance with a lawfully enacted storm water management ordinance. Note: Refer to the State Water Resources Control Board for projects which disturb one acre or more of soil, or are part of a larger common plan of development which in total disturbs one acre or more of soil. 				Exception: Electric vehicle charging static shall not be required to comply with this s requirements.
	(Website: https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html)				4.106.4.2.2.1.1 Location. EVCS shall comply with at least one of the
00	4.106.3 GRADING AND PAVING. Construction plans shall indicate how the site grading or drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:				1. The charging space shall be located the California Building Code, Chapter
	1. Swales 2. Water collection and disposal systems				 The charging space shall be located Chapter 2, to the building.
	 French drains French drains Water retention gardens Other water measures which keep surface water away from buildings and aid in groundwater recharge. 				Exception: Electric vehicle charging st Building Code, Chapter 11B, are not n 4.106.4.2.2.1.2, Item 3.
	Exception: Additions and alterations not altering the drainage path.				4.106.4.2.2.1.2 Electric vehicle charging The charging spaces shall be designed to
00	4.106.4 Electric vehicle (EV) charging for new construction. New construction shall comply with Sections 4.106.4.1 or 4.106.4.2 to facilitate future installation and use of EV chargers. Electric vehicle supply equipment (EVSE) shall be installed in accordance with the California Electrical Code, Article 625.				1. The minimum length of each EV space a 2. The minimum width of each EV space a
	Exceptions: 1. On a case-by-case basis, where the local enforcing agency has determined EV charging and infrastructure are not feasible based upon one or more of the following conditions:				3.One in every 25 charging spaces, but n aisle. A 5-foot (1524 mm) wide minimum 12 feet (3658 mm).
	 1.1 Where there is no local utility power supply or the local utility is unable to supply adequate power. 1.2 Where there is evidence suitable to the local enforcing agency substantiating that additional time is a supply of the local enforcing agency substantiating that additional supply and the local enforcing agency substantiating that additional supply and the local enforcing agency substantiating that additional supply and the local enforcing agency substantiating that additional supply and the local enforcing agency substantiating that additional supply and the local enforcing agency substantiating that additional supply and the local enforcing agency substantiating that additional supply are supply and the local enforcing agency substantiating that additional supply and the local enforcing agency substantiating that additional supply are supply and the local enforcing agency substantiating that additional supply are supply and the local enforcing agency substantiating that additional supply are supply and the local enforcing agency substantiating that additional supply are supply and the local enforcing agency substantiating that additional supply are supply at the local enforcing agency substantiating that additional supply are supply at the local enforcement of the l				a.Surface slope for this EV space and the percent slope) in any direction.
	 local utility infrastructure design requirements, directly related to the implementation of Section 4.106.4, may adversely impact the construction cost of the project. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional parking facilities. 				4.106.4.2.2.1.3 Accessible EV spaces. In addition to the requirements in Sections comply with the accessibility provisions for spaces and EVCS in multifamily development
	4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere 208/240-volt minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.				 1109A. 4.106.4.2.3 EV space requirements. 1.Single EV space required. Install a listed circuit. The raceway shall not be less than to originate at the main service or subpanel as proximity to the location or the proposed locraceway termination point, neceptacle or chhave a 40-ampere minimum dedicated bran installed, or space(s) reserved to permit line
	Exemption: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed in close proximity to the proposed location of an EV charger at the time of original construction in accordance with the <i>California Electrical Code</i> .				Exception: A raceway is not required if a installed in close proximity to the location construction in accordance with the Califor
	4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".				2.Multiple EV spaces required. Construction location of installed or future EV spaces, re- information on amperage of installed or futu- electrical load calculations. Plan design sha raceways and related components that are
DISCLAIMER	THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFOR	MIA	GRE	EN BL	electrical load calculations. Plan design raceways and related components that a concealed areas and spaces shall be in

	_	-	I (balladi y 2020)	_	_	
	Y N	A RESPON	Exception: A raceway is not required in a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed in close proximity to the location or the proposed location of the EV space at the time of original construction in accordance with the California Electrical Code.	N/A	RES	
is, hotels and motels and new residential parking facilities. baces for new multifamily dwellings, hotels and motels shall meet the			4.106.4.2.4 Identification			
and 4.105.4.2.2. Calculations for spaces shall be rounded up to the nearest ed by electric vehicle supply equipment or designed as a future EV charging			The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code.		-	
ndard automobile parking space only for the purpose of complying with any equirements established by a local jurisdiction. See Vehicle Code Section 22511.2			4.106.4.2.5 Electric Vehicle Ready Space Signage.			
t projects with less than 20 dwelling units; and hotels and motels with less			Electric vehicle ready spaces shall be identified by signage or pavement markings, in compliance with Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its			
oms. Ing units or guest rooms shall be based on all buildings on a project site subject to			successor(s).			
iñ nure ol ônear lonue avail ne naser ou all nnigitiñe ou a budarr ses anniarr in	00	3	 4.106.4.3 Electric vehicle charging for additions and alterations of parking facilities serving existing multifamily buildings. 			
nt of the total number of parking spaces on a building site, provided for all types ectric vehicle charging spaces (EV spaces) capable of supporting future Level 2			When new parking facilities are added, or electrical systems or lighting of existing parking facilities are added or altered and the work requires a building parmit, tan (10) percent of the total number of parking spaces added or altered shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 EVSE.			
ons shall demonstrate that the electrical panel service capacity and electrical distribution transformer(s), have sufficient capacity to simultaneously charge all			Notes:			
at a minimum of 40 amperes.			1.Construction documents are intended to demonstrate the project's capability and capacity for facilitating future		-	
circuit directory shall identify the overcurrent protective device space(s) reserved as as "EV CAPABLE" In accordance with the California Electrical Code.			EV charging.			
			2. There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use.		L	
2 EVSE) are installed in a number equal to or greater than the required number					+	
			4.201 GENERAL 4.201.1 SCOPE. For the purposes of mandatory energy efficiency standards in this code, the California Energy			
I 2 EVSE) are installed in a number less than the required number of EV capable EV capable spaces required may be reduced by a number equal to the number of			Commission will continue to adopt mandatory standards.			
			DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION			
are intended to demonstrate the project's capability and capacity for facilitating		3	4.303 INDOOR WATER USE 4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and			
the substance to comprise the project a capacity of the memory of			 urinals) and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and 4.303.4.4. 			
for EV spaces to be constructed or available until receptacles for EV charging or or use.			Note: All noncompliant plumbing fixtures in any residential real property shall be replaced with water-conserving		+	
percent of the total number of parking spaces shall be equipped with low power			completion, certificate of occupancy, or final permit approval by the local building department. See Civil	T	T	
es. For multifamily parking facilities, no more than one receptacle is required per one parking space is provided for use by a single dwelling unit.			Code Section 1101.1, et seq., for the definition of a noncompliant plumbing focure, types of residential buildings affected and other important enactment dates.			
cilities served by parking lifts.			4.303.1.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense			
nt projects with 20 or more dwelling units, hotels and motels with 20 or more			Specification for Tank-type Toilets.			
ng units or guest rooms shall be based on all buildings on a project site subject to			Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.			
			4.303.1.2 Urinals. The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush.			
nt of the total number of parking spaces on a building site, provided for all types ectric vehicle charging spaces (EV spaces) capable of supporting future Level 2			The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush.		_	
ons shall demonstrate that the electrical panel service capacity and electrical distribution transformer(s), have sufficient capacity to simultaneously charge all			4.303.1.3 Showerheads.		F	
at a minimum of 40 amperes. circuit directory shall identify the overcurrent protective device space(s) reserved			4.303.1.3.1 Single Showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 pst. Showerheads shall be certified to the performance criteria of the U.S. EPA			
as as "EV CAPABLE" in accordance with the California Electrical Code.			WaterSense Specification for Showerheads.			
ers (Level 2 EVSE) are installed in a number greater than five (5) percent of Section 4.106.4.2.2, Item 3, the number of EV capable spaces required may be			showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by		-	
I to the number of EV chargers installed over the five (5) percent required.			a single valve shall not exceed 1.8 gallons per minute at 60 psi, or the shower shall be designed to only allow one shower outlet to be in operation at a time.			
			Note: A hand-held shower shall be considered a showerhead.			
shall show locations of future EV spaces.			4.303.1.4 Faucets.			
for EV spaces to be constructed or available until receptacles for EV charging or or use.			4.303.1.4.1 Residential Lavatory Faucets. The maximum flow rate of residential lavatory faucets shall not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall		L	
percent of the total number of parking spaces shall be equipped with low power			not be less than 0.8 gallons per minute at 20 psi.		\vdash	
es. For multifamily parking facilities, no more than one receptacle is required per one parking space is provided for use by a single dwelling unit.			4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas. The maximum flow rate of lavatory faucets installed in common and public use areas (outside of dwellings or sleeping units) in residential			
a facilities served by parking lifts.			buildings shall not exceed 0.5 gallons per minute at 60 psi.			
ant of the total number of parking spaces shall be equipped with Level 2 EVSE. a provided, at least one EV charger shall be located in the common use parking			4.303.1.4.3 Metering Faucets. Metering faucets when installed in residential buildings shall not deliver more than 0.2 gallons per cycle.			
use by all residents or guests.			4.303.1.4.4 Kitchen Faucets. The maximum flow rate of kitchen faucets shall not exceed 1.8 gallons			
harging receptacles or Level 2 EVSE are installed beyond the minimum required, nt system (ALMS) may be used to reduce the maximum required electrical			per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.			
by the ALMS. The electrical system and any on-site distribution transformers o deliver at least 3.3 kW simultaneously to each EV charging station (EVCS)			Note: Where complying faucets are unavailable, aerators or other means may be used to achieve			
ich circuit shall have a minimum capacity of 40 amperes, and installed EVSE shall in 30 amperes. ALMS shall not be used to reduce the minimum required electrical			reduction.			
pable spaces. arging stations (EVCS).			4.303.1.4.5 Pre-rinse spray valves. When Installed, shall meet the requirements in the California Code of Regulations, Title 20 (Appliance)			
required by Section 4.106.4.2.2, Item 3, shall comply with Section 4.106.4.2.2.1.			Efficiency Regulations), Sections 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d)(7) and shall be equipped with an integral automatic shutoff.			
ging stations serving public accommodations, public housing, motels and hotels with this section. See California Building Code, Chapter 11B, for applicable			FOR REFERENCE ONLY: The following table and code section have been reprinted from the California			
			Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A).			
ne of the following options:			TABLE H-2			
e located adjacent to an accessible parking space meeting the requirements of			TABLE II-2			
Chapter 11A, to allow use of the EV charger from the accessible parking space.			STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019			
e located on an accessible route, as defined in the California Building Code,						
arging stations designed and constructed in compliance with the California are not required to comply with Section 4.106.4.2.2.1.1 and Section			PRODUCT CLASS [spray force in ounce force (ozf)] MAXIMUM FLOW RATE (gpm)			
			Product Class 1 (≤ 5.0 ozt) 1.00			
charging stations (EVCS) dimensions. ssigned to comply with the following:			Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf) 1.20			
EV space shall be 18 fest (5486 mm).			Product Class 3 (> 8.0 czf) 1.28			
V space shall be 9 feat (2743 mm).			Title 20 Section 1605.3 (h)(4)(A): Commercial prerinse spray values manufactured on or after January 1, 2006, shall have a minimum spray force of not less than 4.0 ounces-force (ozf)[113 grams-force(gf)]		+	
ces, but not less than one, shall also have an 8-foot (2438 mm) wide minimum	DC	_	4.303.2 Submeters for multifamily buildings and dwelling units in mixed-used residential/commercial			
minimum aisle shall be permitted provided the minimum width of the EV space is		-	buildings. Submeters shall be installed to measure water usage of individual rental dwelling units in accordance with the			
e and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083			California Plumbing Code.			
paces.		3	4.303.3 Standards for plumbing fixtures and fittings. Plumbing fixtures and fittings shall be installed in accordance with the Celifornia Plumbing Code, and shall meet the applicable standards referenced in Table			
Sections 4.106.4.2.2.1.1 and 4.106.4.2.2.1.2, all EVSE, when installed, shall isions for EV chargers in the California Building Code, Chapter 11B. EV ready			1701.1 of the California Plumbing Code.			
levelopments shall comply with California Building Code, Chapter 11A, Section			NOTE: THIS TABLE COMPILES THE DATA IN SECTION 4.303.1, AND IS INCLUDED AS A CONVENIENCE FOR THE USER.			
nts.			TABLE - MAXIMUM FIXTURE WATER USE			
Il a listed raceway capable of accommodating a 208/240-volt dedicated branch ess than trade size 1 (nominal 1-inch inside diameter). The raceway shall			FIXTURE TYPE FLOW RATE			
beanel and shall terminate into a listed cabinet, box or enclosure in close posed location of the EV space. Construction documents shall identify the acle or charger location, as applicable. The service panel and/ or subpanel shall	all terminate into a listed cabinet, box or enclosure in close of the EV space. Construction documents shall identify the					
cated branch circuit, including branch circuit overcurrent protective device permit installation of a branch circuit overcurrent protective device.			SHOWER HEADS (RESIDENTIAL) 1.8 GMP @ 80 PSI LAVATORY FALICIETS (RESIDENTIAL) MAX. 1.2 GPM @ 60 PSI_MIN. 0.8 GPM @ 20			
uired if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is			LAVATORY FALICETS IN COMMON & PURILIC			
s location or the proposed location of the EV space, at the time of original the California Electrical Code.			LAVATORY FAUCETS IN COMMON & PUBLIC 0.5 GPM @ 60 PSI USE AREAS 0.5 GPM @ 60 PSI			
onstruction documents shall indicate the raceway termination point and the			KITCHEN FAUCETS 1.8 GPM @ 60 PSI			
paces, receptacles or EV chargers. Construction documents shall also provide led or future receptacles or EVSE, raceway method(s), wiring schematics and						
design shall be based upon a 40-ampere minimum branch circuit. Required s that are planned to be installed underground, enclosed, inaccessible or in			URINALS 0.125 GAL/FLUSH			
I be installed at the time of original construction.		1		1	1	

Y "YES N/A = NOT APPLICABLE RESPON. PARTY "RESPONDIBLE PARTY (N: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)	Construction
 4.304 OUTDOOR WATER USE 4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Residential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent. NOTES: 1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code Regulations, Title 23, Chapter 2.7, Division 2. MWELO and supporting documents, including water budget calculator, are available at: https://www.water.ca.gov/ DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY 4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE 4.406.1 RODENT PROOFING. Annular spaces around pipes, electric cables, conduits or other openings in sole/bottom piales at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing agency. 	MCNICKLE CONSTRUCTION®GMAIL.COM
 4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING 4.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65 percent of the non-hazardous construction and demolition waste in accordance with either Section 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste management ordinance. Exceptions: 1. Excavated soil and land-clearing debris. 2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably close to the jobsite. 3. The enforcing agency may make exceptions to the requirements of this section when isolated jobsites are located in areas beyond the haul boundaries of the diversion facility. 	PLANS BY: RYAN MCNICKLE PHONE: (831) 935-3393 EMAIL: MC
 4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN. Submit a construction waste management plan in conformance with Items 1 through 5. The construction waste management plan shall be updated as necessary and shall be available during construction for examination by the enforcing agency. Identify the construction and demolition waste materials to be diverted from disposal by recycling, reuse on the project or salvage for future use or sale. Specify if construction and demolition waste materials will be sorted on-site (source separated) or bulk mixed (single stream). Identify diversion facilities where the construction and demolition waste material collected will be taken. Identify construction methods employed to reduce the amount of construction and demolition waste generated. Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both. 	OJECT
 4.408.3 WASTE MANAGEMENT COMPANY. Utilize a waste management company, approved by the enforcing agency, which can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with Section 4.408.1. Note: The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste management company. 4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 lbs./sq.fl. of the building area shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1 4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 2 pounds per square foot of the building area, shall meet the minimum 65% construction waste reduction requirement in section 4.408.1 	JERITA PR
 A.408.5 DOCUMENTATION. Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 4.408.2, items 1 through 5, Section 4.408.3 or Section 4.408.4 Notes: Sample forms found in "A Guide to the California Green Building Standards Code (Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in documenting compliance with this section. Mixed construction and demolition debris (C & D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle). 4.410 BUILDING MAINTENANCE AND OPERATION 4.410.1 OPERATION AND MAINTENANCE MANUAL. At the time of final inspection, a manual, compact disc, web-based reference or other media acceptable to the enforcing agency which includes all of the following shall be placed in the building: Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure. 	THE MARGU

- Operation and maintenance instructions for the following: Equipment and appliances, including water-saving devices and systems, HVAC systems,
 - photovoltaic systems, electric vehicle chargers, water-heating systems and other major appliances and equipment.
- b. Roof and yard drainage, including gutters and downspouts. Space conditioning systems, including condensers and air filters.
- Landscape irrigation systems.
- e. Water reuse systems. Information from local utility, water and waste recovery providers on methods to further reduce
- resource consumption, including recycle programs and locations.
- 4. Public transportation and/or carpool options available in the area. 5. Educational material on the positive impacts of an interior relative humidity between 30-60 percent and what methods an occupant may use to maintain the relative humidity level in that range.
- 6. Information about water-conserving landscape and irrigation design and controllers which conserve
- 7. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation. Information on required routine maintenance measures, including, but not limited to, caulking,
- painting, grading around the building, etc.
- Information about state solar energy and incentive programs available.
 A copy of all special inspections verifications required by the enforcing agency or this code.
 Information from the Department of Forestry and Fire Protection on maintenance of defensible space around residential structures.
- 12. Information and/or drawings identifying the location of grab bar reinforcements.

4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible area(s) that serves all buildings on the site and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waster, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 42649.82 (a)(2)(A) et seq. are note required to comply with the organic waste portion of this section.

DIVISION 4.5 ENVIRONMENTAL QUALITY

SECTION 4.501 GENERAL 4.501.1 Scope

The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorous, irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors.

SECTION 4.502 DEFINITIONS 5.102.1 DEFINITIONS

The following terms are defined in Chapter 2 (and are included here for reference)

AGRIFIBER PRODUCTS. Agrifiber products include wheatboard, strawboard, panel substrates and door cores, not including furniture, focures and equipment (FF&E) not considered base building elements.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated wood I-joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section 93120.1.

DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING VERIFICATION WITH THE FULL CODE.

A W/ 3923 တ R DA HEET TITLE:



SCALE:

JOB:

DATE:

SHEET NO.:

G1.3

California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE **RESIDENTIAL MANDATORY MEASURES, SHEET 2** (January 2023)

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r	NEA	RESPON.			Y NIA RESPON.	
1	+	PANTY			PRACET	
						I
			MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum chang	ge in weight of ozone formed by adding a		I
			compound to the "Base Reactive Organic Gas (ROG) Mixture" par well hundredths of a gram (g O ³ /g ROC).	ght of compound added, expressed to		I
			Note: MIR values for individual compounds and hydrocarbon solvents and 94701.	are specified in CCR, Title 17, Sections 947	00	I
					8	I
			MOISTURE CONTENT. The weight of the water in wood expressed in	percentage of the weight of the oven-dry we	xod.	I
			PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for article. The PWMIR is the total product reactivity expressed to hundred			I
			product (excluding container and packaging).	1월 28일 전 1월 17일 전 1월 18일 전 19일 전 19일 전 19일		I
			Note: PWMIR is calculated according to equations found in CCR, Title			I
			REACTIVE ORGANIC COMPOUND (ROC). Any compound that has t ozone formation in the troposphere.	he potential, once emitted, to contribute to		I
			VOC. A volatile organic compound (VOC) broadly dafined as a chemic	e compound based on carbon chains or sin	75	I
			with vapor pressures greater than 0.1 millimeters of mercury at room to	emperature. These compounds typically con		I
			hydrogen and may contain oxygen, nitrogen and other elements. See	CCR Title 17, Section 94508(a).		I
2			4.503 FIREPLACES 4.503.1 GENERAL. Any installed gas fireplace shall be a direct-vent s	sealed-combustion type. Any installed		I
1			woodstove or pellet stove shall comply with U.S. EPA New Source Per applicable, and shall have a permanent label indicating they are certific	formance Standards (NSPS) emission limits		I
			pellet stoves and fireplaces shall also comply with applicable local ordi		s	I
			4.504 POLLUTANT CONTROL			I
1			4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MED CONSTRUCTION. At the time of rough installation, during storage on			I
			startup of the heating, cooling and ventilating equipment, all duct and o	other related air distribution component		I
			openings shall be covered with tape, plastic, sheet metal or other meth reduce the amount of water, dust or debris which may enter the system			I
7		_	4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materia	is shall comply with this section.		I
-			4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, seala		the	I
1			requirements of the following standards unless more stringent ic		Long.	I
			management district rules apply:			I
			 Adhesives, adhesive bonding primers, adhesive prime shall comply with local or regional air pollution control 	ers, sealants, sealant primers and caulks or air quality management district rules whe	re	I
			applicable or SCAQMD Rule 1168 VOC limits, as sho	wn in Table 4.504.1 or 4.504.2, as applicable	8.	1
			Such products also shall comply with the Rule 1168 p compounds (chloroform, ethylene dichloride, methyle	ne chloride, perchloroethylene and		1
			tricloroethylene), except for aerosol products, as spec			1
			Aerosol adhesives, and smaller unit sizes of adhesive units of product lear packaging which do not work to			I
			units of product, less packaging, which do not weigh r than 16 fluid ounces) shall comply with statewide VO	C standards and other requirements, includir		1
			prohibitions on use of certain toxic compounds, of Ca commencing with section 94507.	illomia Code of Regulations, Title 17,		I
1			4.504.2.2 Paints and Coatings. Architectural paints and coating	as shall comply with VOC limits in Table 1 o		I
			the ARB Architectural Suggested Control Measure, as shown in	Table 4.504.3, unless more stringent local I	imits	I
			apply. The VOC content limit for coatings that do not meet the o listed in Table 4.504.3 shall be determined by classifying the co	ating as a Flat, Nonflat or Nonflat-High Gloss	5	I
			coating, based on its gloss, as defined in subsections 4.21, 4.36 Board, Suggested Control Measure, and the corresponding Flat		Ces	I
			Table 4.504.3 shall apply.			I
1			4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and or		2	I
			Limits for ROC in Section 94522(a)(2) and other requirements, in compounds and ozone depleting substances, in Sections 94522	(e)(1) and (f)(1) of California Code of		I
			Regulations, Title 17, commencing with Section 94520; and in a Quality Management District additionally comply with the percent	reas under the jurisdiction of the Bay Area A of VOC by weight of product limits of Regula	lir Son	I
			8, Rule 49.		75.02	I
2			4.504.2.4 Verification. Verification of compliance with this sect	ion shall be provided at the request of the		I
			enforcing agency. Documentation may include, but is not limited	d to, the following:		I
			 Manufacturer's product specification. Field verification of on-site product containers. 			I
						I
						I
			TABLE 4.504.1 - ADHESIVE VOC LIMI	T1,2		I
			(Less Water and Less Exempt Compounds in Grams	per Liter)		I
			ARCHITECTURAL APPLICATIONS	VOC LIMIT		I
			INDOOR CARPET ADHESIVES	50		I
			CARPET PAD ADHESIVES	50		I
			OUTDOOR CARPET ADHESIVES	150		1
			WOOD FLOORING ADHESIVES	100		1
			RUBBER FLOOR ADHESIVES	60		1
			SUBFLOOR ADHESIVES	50		1
			CERAMIC TILE ADHESIVES	65		1
			VCT & ASPHALT TILE ADHESIVES	50		1
			DRYWALL & PANEL ADHESIVES	50		1
			COVE BASE ADHESIVES	50		1
			MULTIPURPOSE CONSTRUCTION ADHESIVE	70		1
			STRUCTURAL GLAZING ADHESIVES	100		1
			SINGLE-PLY ROOF MEMBRANE ADHESIVES	250		1
			OTHER ADHESIVES NOT LISTED	50		1
			SPECIALTY APPLICATIONS			1
			PVC WELDING	510		1
			CPVC WELDING	490		1
			ABS WELDING	325		1
			PLASTIC CEMENT WELDING	250		1
			ADHESIVE PRIMER FOR PLASTIC	550		1
			CONTACT ADHESIVE	80		1
			SPECIAL PURPOSE CONTACT ADHESIVE	250		1
			STRUCTURAL WOOD MEMBER ADHESIVE	140		1
			TOP & TRIM ADHESIVE	250		1
			SUBSTRATE SPECIFIC APPLICATIONS			1
			METAL TO METAL	30		1
			PLASTIC FOAMS	50		1
			POROUS MATERIAL (EXCEPT WOOD)	50		1
			WOOD	30		1
			FIBERGLASS	80		1
						1
			1. IF AN ADHESIVE IS USED TO BOND DISSIMILA			1
			THE ADHESIVE WITH THE HIGHEST VOC CONTE			
			THE ADHESIVE WITH THE HIGHEST VOC CONTE 2. FOR ADDITIONAL INFORMATION REGARDING	NT SHALL BE ALLOWED. METHODS TO MEASURE		
			THE ADHESIVE WITH THE HIGHEST VOC CONTE	NT SHALL BE ALLOWED. METHODS TO MEASURE		

(Less Water and Less Exempt Compounds in Grams per Liter)					
SEALANTS	VOC LIMIT				
ARCHITECTURAL	250				
MARINE DECK	760				
NONMEMBRANE ROOF	300				
ROADWAY	250				
SINGLE-PLY ROOF MEMBRANE	450				
OTHER	420				
SEALANT PRIMERS					
ARCHITECTURAL					
NON-POROUS	250				
POROUS	775				
MODIFIED BITUMINOUS	500				
MARINE DECK	760				
OTHER	750				

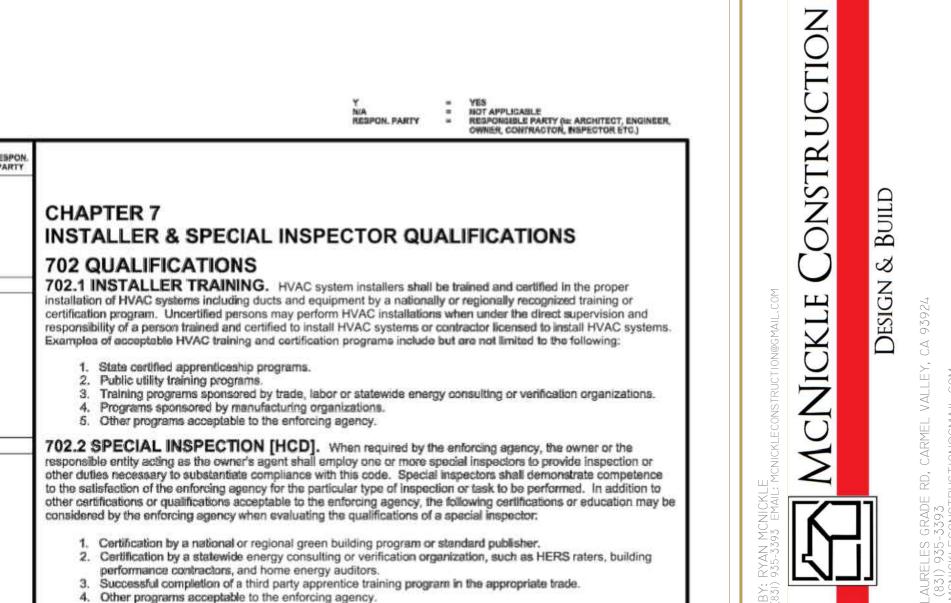
TABLE 4.504.3 - VOC CONTENT LIMIT ARCHITECTURAL COATINGS23	SFOR
GRAMS OF VOC PER LITER OF COATING, LESS V COMPOUNDS	WATER & LESS EXEMPT
COATING CATEGORY	VOC LIMIT
FLAT COATINGS	50
NON-FLAT COATINGS	100
NONFLAT-HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS	200
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS &	100
UNDERCOATERS	250
STONE CONSOLIDANTS	450
	2.507.673.
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

۷	N/A	RESPON.		۷	N/A	REP
	T			F		
L			TABLE 4.504.5 - FORMALDEHYDE LIMITS	L		
L			MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION	L		
L			PRODUCT CURRENT LIMIT			
L			HARDWOOD PLYWOOD VENEER CORE 0.05			⊢
L			HARDWOOD PLYWOOD COMPOSITE CORE 0.05	L		
L			PARTICLE BOARD 0.09	L		
			MEDIUM DENSITY FIBERBOARD 0.11	L		
L			THIN MEDIUM DENSITY FIBERBOARD2 0.13	L		
			1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED	L		
			BY THE CALIF. AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE	-		_
			WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIF.	<u></u>	-	-
			CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.	L		
			2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM	L		
			THICKNESS OF 5/16" (8 MM).	L		
				L		
			DIVISION 4.5 ENVIRONMENTAL QUALITY (continued) 4.504.3 CARPET SYSTEMS. All carpet installed in the building interior shall meet the regularements of the California	L		
			Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for	L		
			California Specification 01350)	L		
			See California Department of Public Health's website for certification programs and testing labs.	L		
			https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx.	L		
				L		
			4.504.3.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Teeting and Evaluation of Volatile Organic	L		
			Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350)	L		
				L		
			See California Department of Public Health's website for certification programs and testing labs.	L		
	_		https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx.	L		
			4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 4.504.1.	L		
			4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring is installed , at least 80% of floor area receiving			
			resilient flooring shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers,"			-
			Version 1.2, January 2017 (Emission testing method for California Specification 01350)	Γ		
			See California Department of Public Health's wabsite for certification programs and testing labs.			
			hhtps://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx.	L		
				L		
			4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the Interior or exterior of the buildings shall meet the requirements for	L		
			formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.),	L		
	0		by or before the dates specified in those sections, as shown in Table 4.504.5	L		
	Ē		4.504.5.1 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:	L		
			1. Product certifications and specifications.	L		
			Chain of custody certifications.	L		
			 Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.). 	L		
			 Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269, European 636 3S standards, and Canadian CSA 	L		
			0121, CSA 0151, CSA 0153 and CSA 0325 standards.	L		
L			Other methods acceptable to the enforcing agency.	L		
				L		
			4.505 INTERIOR MOISTURE CONTROL 4.505.1 General. Buildings shall meet or exceed the provisions of the California Building Standards Code.	L		
	-		4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundations required to have a vapor retarder by	L		
-	1		California Building Code, Chapter 19, or concrete slab-on-ground floors required to have a vapor retarder by the	L		
			California Residential Code, Chapter 5, shall also comply with this section.	L		
			4.505.2.1 Capillary break. A capillary break shall be installed in compliance with at least one of the following:	L		
			1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided with	L		
			a vapor barrier in direct contact with concrete and a concrete mix design, which will address bleeding,	L		
			shrinkage, and curling, shall be used. For additional information, see American Concrete Institute, ACI 302.2R-06.	L		
			 Other equivalent methods approved by the enforcing agency. A slab design specified by a licensed design professional. 			
-	-			L		
		-	4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19 percent	L		
			moisture content. Moisture content shall be verified in compliance with the following:	L		
			 Moisture content shall be determined with either a probe-type or contact-type moisture meter. Equivalent moisture verification methods may be approved by the enforcing agency and shall, esticly requirements 	L		
			moisture verification methods may be approved by the enforcing agency and shall satisfy requirements found in Section 101.8 of this code.	L		
			Moisture readings shall be taken at a point 2 feet (610 mm) to 4 feet (1219 mm) from the grade stamped end of each piece verified.			
			 At least three random moisture readings shall be performed on wall and floor framing with documentation acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor framing. 	L		
				L		
			Insulation products which are visibly wet or have a high moisture content shall be replaced or allowed to dry prior to enclosure in wall or floor cavities. Wet-applied insulation products shall follow the manufacturers' drying	L		
			recommendations prior to enclosure.	L		
			4.506 INDOOR AIR QUALITY AND EXHAUST	L		
			4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanically ventilated and shall comply with the following:	L		
			 Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building. 	L		
			2. Unless functioning as a component of a whole house ventilation system, fans must be controlled by a	L		
			humidity control.	L		
			a. Humidity controls shall be capable of adjustment between a relative humidity range less than or equal to 50% to a maximum of 80%. A humidity control may utilize manual or automatic means of	L		
			adjustment.	L		
			A humidity control may be a separate component to the exhaust fan and is not required to be integral (i.e., built-in)	L		
			Notes:	L		
			 For the purposes of this section, a bathroom is a room which contains a bathlub, shower or 	L		
			tub/shower combination.	L		
			Lighting integral to bathroom exhaust fans shall comply with the California Energy Code.	L		
Ē	-	-	4.507 ENVIRONMENTAL COMFORT 4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN. Heating and air conditioning systems shall be	L		
-	F		sized, designed and have their equipment selected using the following methods:			
			1. The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J - 2011 (Residential	L		
			Load Calculation), ASHRAE handbooks or other equivalent design software or methods. 2. Duct systems are sized according to ANSI/ACCA 1 Manual D - 2014 (Residential Duct Systems),	L		
			ASHRAE handbooks or other equivalent design software or methods.	L		
			 Select heating and cooling equipment according to ANSI/ACCA 3 Manual S - 2014 (Residential Equipment Selection), or other equivalent design software or methods. 			
			Exception: Use of alternate design temperatures necessary to ensure the system functions are			
			Exception: Use of alternate design temperatures necessary to ensure the system functions are acceptable.	L		
				1		1



1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. 2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

IBSCI When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

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ISSUE STATUS	DESCRIPTION	PRELIMINARY PLANS						CHECKED BY:
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- BATHROOM ELECTRICAL NOTES 1. AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED IN BATHROOM WITHIN 3'-0" FROM BASIN. AT LEAST ONE 20-AMPERE BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY BATHROOM RECEPTACLE OUTLET(S). BATHROOM OUTLETS SHALL HAVE GFCI PROTECTION. [CEC 210.52(D), 210.11(C)(3) & 210.8(A)(1)] 2. ALL 125VOLT, 15-AMPERE AND 20-AMPERE RECEPTACLES SHALL BE LISTED TAMPER RESISTANT. [CEC 406.12] BOTH NEW AND MODIFIED BRANCH WIRING CIRCUITS SHALL HAVE ARC-FAULT CIRCUIT PROTECTION FOR 120-VOLT, SINGLE PHASE, 15 AND 20- AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS IN DWELLINGS. [CEC 210.12(A)] 4. NO PART OF A HANGING FIXTURE IS ALLOWED CLOSER THAN 8 FEET ABOVE THE TUB RIM OR 3 FEET HORIZONTALLY FROM THE TUB RIM, UNLESS LIGHT FIXTURE(S) IN SHOWER ENCLOSURE AREA IS LISTED FOR DAMP AREAS OR LISTED FOR WET LOCATIONS. [CEC 410.10(D)] 5. ALL INSTALLED LUMINAIRES SHALL BE HIGH EFFICACY; EITHER LISTED BY SOURCE TYPE OR BY BEING JA8-2019 CERTIFIED AND LABELED. [CENC 150.0(K)1A] A MINIMUM OF ONE LUMINAIRE SHALL BE INSTALLED IN EACH BATHROOM CONTROLLED BY A VACANCY SENSOR. 7. LUMINAIRES RECESSED INTO CEILINGS MUST MEET ALL OF THE REQUIREMENTS FOR: INSULATION CONTACT (IC) LABELING; AIR LEAKAGE; SEALING; MAINTENANCE; AND SOCKET AND LIGHT SOURCE AS DESCRIBED IN § 150.0(K)1C. ONLY JA8-2019-E CERTIFIED AND MARKED LIGHT SOURCE, RATED FOR ELEVATED TEMPERATURE, MUST BE INSTALLED BY FINAL INSPECTION. [CENC 150(K)1C] ALL EXHAUST FANS SHALL BE SWITCHED SEPARATELY FROM LIGHTING SYSTEMS. [CENC 150(K)2B] BATHROOM MECHANICAL NOTES BATH AND TOILET ROOMS SHALL HAVE AN EXHAUST RATE OF 50 CFM INTERMITTENT OR 20 CFM CONTINUOUS. [CMC TABLE 403.7] EACH BATHROOM, OR ROOM CONTAINING A BATHTUB, SHOWER, OR TUB SHOWER COMBINATION, SHALL BE MECHANICALLY VENTILATED. UNLESS FUNCTIONING AS A PART OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A HUMIDITY CONTROL CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF < 50 PERCENT TO A MAXIMUM OF 80 PERCENT. THE CONTROL MAY UTILIZE MANUAL OR AUTOMATIC MEANS OF ADJUSTMENT. THE CONTROL MAY BE A SEPARATE COMPONENT OR INTEGRAL TO THE EXHAUST FAN. [CMC 402.5, CALGREEN 4.506] BATH AND TOILET ROOM WINDOWS SHALL NOT BE LESS THAN 3 SQUARE FEET, ONE HALF OF WHICH MUST BE OPERABLE. [CRC R303.3] 4. A BATH EXHAUST FAN, WITH BACK DRAFT DAMPER AND HUMIDITY CONTROL. IS REQUIRED REGARDLESS OF THE PRESENCE OF A WINDOW (ROOM CONTAINING A BATHTUB SHOWER, SPA OR OTHER SIMILAR SOURCE OF MOISTURE). [CRC R303.3] EXHAUST MUST VENT TO OUTDOOR IN AN APPROVED DUCT. TERMINATE THE OUTLET A MINIMUM OF 3 FEET FROM AN OPENING OR PROPERTY LINE. [CMC 504.5] MECHANICAL AND GRAVITY OUTDOOR AIR INTAKE OPENINGS SHALL BE LOCATED A MINIMUM OF 10 FEET FROM ANY PLUMBING VENTS AND SUCH OPENING SHALL BE LOCATED A MINIMUM OF 3 FEET BELOW THE CONTAMINANT SOURCE. [CRC R303.51 7. SHOW FAN/DUCT/VENT TERMINATION LOCATIONS. INDICATE THAT FAN AND DUCT OPENINGS (ENVIRONMENTAL AIR DUCTS) SHALL TERMINATE AT LEAST THREE (3) FEET FROM PROPERTY LINES OR OPENINGS INTO THE BUILDING WITH BACK DRAFT DAMPER. PLUMBING VENTS WITHIN TEN (10) FEET OF OPERABLE SKYLIGHTS SHALL EXTEND A MINIMUM OF THREE (3) FEET ABOVE SUCH OPENINGS. [CMC 504.1, 504.5, CPC 906.2] ADDITIONAL CONSTRUCTION NOTES ARC-FAULT CIRCUIT-INTERRUPTER PROTECTION. ALL 120-VOLT 15 AND 20 AMPERE OR BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREA SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER COMBINATION-TYPE. GUESTROOMS (210-18) AND GUEST SUITES THAT ARE PROVIDED WITH PERMANENT PROVISIONS FOR COOKING SHALL HAVE AFCI. [210-12 (B)]. 2. DWELLING UNIT RECEPTACLE OUTLETS. IN EVERY KITCHEN,
- FAMILY ROOM, DINING ROOM, LIVING ROOM, PARLOR, LIBRARY, DEN, SUNROOM, BEDROOM, RECREATION ROOM, OR SIMILAR ROOM OR AREA OF DWELLING UNITS, RECEPTACLE OUTLETS SHALL BE INSTALLED. RECEPTACLES SHALL BE INSTALLED SUCH THAT NO POINT MEASURED HORIZONTALLY ALONG THE FLOOR LINE IN ANY WALL SPACE IS MORE THAN 6' FROM A RECEPTACLE OUTLET. ANY SPACE 2' OR MORE IN WIDTH INCLUDING SPACE MEASURED AROUND CORNERS AND UNBROKEN ALONG THE FLOOR LINE BY DOORWAYS, FIREPLACES AND SIMILAR OPENINGS. FLOOR RECEPTACLE SHALL NOT BE COUNTED AS A PART OF THE REQUIRED RECEPTACLES UNLESS WITHIN 18" OF WALL. [210-52 (A)]

BE:

WATER CLOSET KITCHEN FAUCET LAVATORY FAUCET SHOWER HEAD DISHWASHER

- CLOTHES WASHER
- PLUMBING FIXTURES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, AND SHALL MEET THE APPLICABLE STANDARDS REFERENCED IN TABLE 1701.1 OF THE CALIFORNIA PLUMBING CODE. [4.303.2 CGBSC]
- 5. PLUMBING FIXTURES AND FITTINGS SHALL COMPLY WITH THE SPECIFIED PERFORMANCE REQUIREMENTS OF SECTION 4.303 OF CGBSC.
- SHOWERS, AND SINKS.
- WITH A LISTED ATMOSPHERIC VACUUM BREAKER.

BATHROOM PLUMBING NOTES

- 2. PROVIDE SAFETY GLAZING IN WALLS ENCLOSING DRAIN INLET. [CRC R308.4.5]
- 3. SHOWERS AND TUB SHOWER COMBINATIONS SHALL BE PROVIDED WITH INDIVIDUAL CONTROL VALVES OF THE
- OR FIBERGLASS) OVER A MOISTURE RESISTANT BACKING BOARD SHALL NOT BE USED OVER A VAPOR RETARDER IN SHOWER OR BATHTUB COMPARTMENTS. [R702.3.8, R307.2]
- SHOWER SPRAY. [CPC 408.9]
- CLOSEIN. [CPC 408.0].
- LINE.[CPC TABLE 703.2]
- SIDE OF LAVATORY FAUCET. [CPC 417.5]
- WHERE A FIXTURE IS INSTALLED ON A FLOOR LEVEL THAT IS VALVE PER [CPC 710.1]
- 11. DRAINAGE PIPING SERVING FIXTURES THAT ARE LOCATED WASTES BY GRAVITY. [CPC 710.2]

LAUNDRY ROOM NOTES

CIRCUITS SHALL HAVE NO OTHER OUTLETS.

PLUMBING NOTES

1. ALL PLUMBING FIXTURES ARE REQUIRED TO BE LISTED BY AN ACCEPTABLE NATIONALLY RECOGNIZED TESTING LABORATORY. 2. PER CPC 2022. MAXIMUM PLUMBING FIXTURE FLOW RATES SHALL

1.28 GPF

- 1.8 GPM @ 60 PSI
- 1.2 GPM @ 60 PSI
- 1.8 GPM @ 80 PSI
- 2.0 GPM
- 2.0 GPM

3. THIS IS A PARTIAL LIST OF PRIMARY PLUMBING FIXTURES, AND IS NOT INTENDED AS A COMPREHENSIVE LIST OF ALL PLUMBING FIXTURES. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INCLUDE ALL FIXTURES, SUPPLIES, PARTS, AND EQUIPMENT TO ENSURE PROPER FUNCTIONING OF ALL FIXTURES.

USE WATER RESISTANT GYPSUM WALL BOARD BEHIND NEW TILE.

EXTERIOR HOSE BIBS: PROVIDE ANTI-SIPHON DEVICE AT ALL HOSE BIBS, ALL HOSE BIBS SHALL BE PROTECTED BY A LISTED NON-REMOVABLE HOSE BIB TYPE BACKFLOW PREVENTER OR

BATHROOMS SHALL HAVE A MINIMUM CEILING HEIGHT OF 7 FEET EXCEPT AT THE CENTER OF THE FRONT CLEARANCE AREA FOR FIXTURES AND AT SHOWERS THE CEILING HEIGHT MAY BE 6 FEET 8 INCHES. [CRC R305.1 AND R305.1 EXCEPTION 2] TUBS/SHOWERS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60" ABOVE A STANDING SURFACE AND

PRESSURE BALANCE, THERMOSTATIC, OR COMBINATION PRESSURE BALANCE AND THERMOSTATIC TYPES THAT PROVIDE SCALD AND THERMAL SHOCK PROTECTION. [CPC 408.3] BATHTUB AND SHOWER FLOORS, WALLS ABOVE BATHTUBS WITH A SHOWERHEAD, AND SHOWER COMPARTMENTS SHALL BE FINISHED WITH A NONABSORBENT SURFACE (E.G., CERAMIC TILE

UNDERLAYMENT (E.G., CEMENT, FIBER CEMENT, OR GLASS MAT GYPSUM BACKER) EXTENDING TO A HEIGHT OF NOT LESS THAN 6 FEET ABOVE THE DRAIN INLET. WATER-RESISTANT GYPSUM

5. CONTROL VALVES AND SHOWERHEADS SHALL BE LOCATED ON THE SIDEWALL OF SHOWER COMPARTMENTS, ARRANGED SO THAT THE SHOWERHEAD DOES NOT DISCHARGE DIRECTLY AT THE ENTRANCE TO THE COMPARTMENT SO THAT THE BATHER CAN ADJUST THE VALVES PRIOR TO STEPPING INTO THE

6. A MINIMUM 12"X12" ACCESS PANEL IS REQUIRED WHEN A SLIP JOINT P-TRAP WASTE & OVERFLOW IS PROVIDED. [CPC 402.11] 7. SITE BUILT SHOWER STALLS SHALL BE WATER TESTED BEFORE

8. WHEN ADDITIONAL WATER CLOSETS (TOILETS) ARE INSTALLED, A MAXIMUM OF 3 WATER CLOSETS ARE ALLOWED ON A 3" WASTE

9. THE HOT WATER CONTROL SHALL BE INSTALLED ON THE LEFT

LOWER THAN THE NEXT UPSTREAM MANHOLE COVER OF THE PUBLIC OR PRIVATE SEWER (AT BASEMENT), SERVING SUCH DRAINAGE PIPING, SHALL BE PROTECTED FROM BACKFLOW OF SEWAGE BY INSTALLING AN APPROVED TYPE OF BACKWATER

BELOW THE CROWN LEVEL OF THE MAIN SEWER (AT BASEMENT) SHALL DISCHARGE INTO AN APPROVED WATER-TIGHT SUMP OR RECEIVING TANK, SO LOCATED AS TO RECEIVE THE SEWAGE OR

1. LAUNDRY - AT LEAST ONE 20-AMP BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY LAUNDRY RECEPTACLE OUTLETS. SUCH

KITCHEN PLUMBING NOTES		
	1.	ALL
		KIT0 210
PROVIDE A SINGLE LINE DIAGRAM OF GAS PIPING, SHOWING	2.	ALL
수	3	BE I BOT
	0.	HAV
HOUR FOR EACH FIVE-HUNDRED (500) CUBIC FEET OF PIPE		PHA
	4.	WAI
SYSTEM IN A SINGLE-FAMILY DWELLING, THE TEST DURATION		WID
SHALL BE NOT LESS THAN TEN (10) MINUTES. THE DURATION OF		NO
		MEA THE
GAS LINES THAT RUN UNDER A SLAB SHALL RUN THROUGH AN	5.	ISLA
그 말을 알는 것 것 수밖에서 잘 잘 알려서 한다. 좀 도망 그 것 수밖에서 왜 편 돈을 해서 것 것 것 것 것 것 것 것 같아요. 것은 것 같아요. 같아요. 것 같아요. 같아요. 같아요. 같아요. 것 같아요. 같아요. 같아요. 같아요. 같아요. 것 같아요. 같아요. 것 같아요. ????????????????????????????????????		SHA
NONDISPLACEABLE VALVE MEMBER, OR A LISTED GAS		DIM
CONVENIENCE OUTLET INSTALLED WITHIN SIX (6) FEET OF THE	6.	PEN
VALVE SHALL BE INSTALLED UPSTREAM OF THE CONNECTOR. A		SPA
UNION OR FLANGED CONNECTION SHALL BE PROVIDED		AND
		PEN
NO DOMESTIC DISHWASHING MACHINE SHALL BE DIRECTLY	7.	SEF
CONNECTED TO A DRAINAGE SYSTEM OR FOOD WASTE		TOF
		SEP
MACHINE. LISTED AIRGAPS SHALL BE INSTALLED WITH THE	8.	COL
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		BEI
KITCHEN MECHANICAL NOTES		OR REA
IN KITCHEN SPECIFY THE LOCAL EXHAUST SYSTEM VENTED TO		APP
		210
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SMOOTH INTERIOR SURFACE DUCT REQUIRED ON VENT HOOD	9.	TWO
		REC
ADD THIS NOTE TO THE PLANS: UPPER CABINETS SHALL BE A	10.	IND
		MAJ
CLEARANCES AS REQUIRED BY THE RANGE/COOK TOP	11.	GAF
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916.1.2]	13.	MIN CIR
LIGHTING NOTES	14.	PRC
	15.	(B) (IF U
		FOR
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AND MARKED FOR THE MAXIMUM WEIGHT.		BRA
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REFERENCE JOINT APPENDIX JA8; AND		
	18	.3.
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CERTIFIED TO COMPLY WITH SECTION 110.9 AND ALLOW		SHA
		ALL REA
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CONTROLLED BY A PHOTOCELL AND MOTION SENSOR OR BY PHOTOCONTROL AND AUTOMATIC TIME SWITCH CONTROL OR BY ASTRONOMICAL TIME CLOCK CONTROL THAT	22.	BLA MOI
CONTROLLED BY A PHOTOCELL AND MOTION SENSOR OR BY PHOTOCONTROL AND AUTOMATIC TIME SWITCH CONTROL OR BY ASTRONOMICAL TIME CLOCK CONTROL THAT AUTOMATICALLY TURNS THE OUTDOOR LIGHTING OFF DURING	22.	BLA
CONTROLLED BY A PHOTOCELL AND MOTION SENSOR OR BY PHOTOCONTROL AND AUTOMATIC TIME SWITCH CONTROL OR BY ASTRONOMICAL TIME CLOCK CONTROL THAT		BLA MOU NO
	FAUCETS AT KITCHENS SHALL NOT HAVE A FLOW RATE OF GREATER THAN 1.8 GPM AT 60 PSI. NEW GAS APPLIANCES AT KITCHEN SHOULD BE SPECIFIED. PROVIDE A SINGLE LINE DIAGRAM OF GAS PIPINO, SHOWING PIPE SIZES, LENGTHS, AND BTU DEMAND RATINGS FOR ALL GAS APPLIANCES. GAS TEST DURATION SHALL BE NOT LESS THAN ONE-HALF (½) HOUR FOR EACH FIVE-HUNDRED (500) CUBIC FEET OF PIPE VOLUME OF FRACTION THEREOF. WHEN TESTING A SYSTEM HAVING A VOLUME LESS THAN TEN (10) CUBIC FEET OR A SYSTEM IN A SINGLE-FAMILY DWELLING, THE TEST DURATION SHALL BE NOT LESS THAN TEN (10) MINUTES. THE DURATION OF THE TEST SHALL NOT BE REQUIRED TO EXCEED TWENTY FOUR (24) HOURS, INFPA 54.8.1.4.3, CPC 1214.3.3] GAS LINES THAT TRUN UNDER A SLAB SHALL RUN THROUGH AN APPROVED, VENTED, GAS TIGHT CONDUT. [CPC 1211.1.6] AN ACCESSIBLE, APPROVED MANUAL SHUTOFF VALVE WITH A NONDISPLACEABLE VALVE MEMBER, OR A LISTED GAS CONVENIENCE OUTLET INSTALLED WITHIN SIX (6) FEET OF THE APPLIANCE IT SERVES. WHERE A CONNECTOR IS USED, THE VALVE SHALL BE INSTALLED WITHIN SIX (6) FEET OF THE APPLIANCE IT SERVES. WHERE A CONNECTOR IS USED, THE VALVE SHALL BE INSTALLED WITHIN SIX (6) FEET OF THE APPLIANCE IT SERVES. WHERE A CONNECTOR IS USED, THE VALVE SHALL BE INSTALLED WITHIN SIX (6) FEET OF THE APPLIANCE IT SERVES. WHERE A CONNECTOR IS USED, THE VALVE SHALL BE INSTALLED WITHIN SIX (6) FEET OF THE APPLIANCE IT SERVES. WHERE A CONNECTOR IS USED, THE VALVE SHALL BE INSTALLED WITHIN SIX (6) FEET OF THE APPLIANCE IT SERVES. WHERE A CONNECTOR IS USED, THE VALVE SHALL BE INSTALLED WITHIN SIX (6) FEET OF THE APPLIANCE IT SERVES. WHERE A CONNECTOR IS USED, THE VALVE SHALL BE INSTALLED WITH THE CONNECTOR. A UNICON OR FLANGAD SYSTEM OR FOOD WASTE DISPOSER WITHOUT THE USE OF AN APPROVED DISINASHER ANGAGHINE. LISTED AIRGAPS SHALL BE INSTALLED WITH THE FLODD-LEVEL (FL) MARKING AT OR ABOVE THE FLOOD LEVEL OF THE SINK OR DRAINAGE SYSTEM OR FOOD WASTE DISPOSER WITHOUT THE USED ARGE SIDE OF THE DISINASHING MACHINE. LISTED AIRGAPS SHALL BE INSTALLED WITH THE FLODD-LEVEL (FL) MARKING AT OR ABOVE THE FLODO	FAUGETS AT KITCHENS SHALL NOT HAVE A FLOW RATE OF 1. GREATER THAN 1.8 GPM AT 60 PSI. 1. NEW GAS APPLIANCES AT KICHEN SHOULD BE SPECIFIED. 2. PROVIDE A SINGLE LINE DIAGRAM OF GAS PIPING, SHOWING 2. OTHER SIZES, LENGTINS, AND BTU DEMAND RATINGS FOR ALL GAS 3. GAS TEST DURATION SHALL BE NOT LESS THAN ONE-HALF (%) 4. HOURF FOR EACH FWE-HUNDRED (600) CUBIC FEET OF PIPE 4. VOLLIME OF FRACTION THEREOF. WHEN TESTING A SYSTEM IN A SINGLE FAMILY DWELLING, THE TEST DURATION 5. SYSTEM IN A SINGLE FAMILY DWELLING, THE TEST DURATION 5. GAS LINEST THAN TEN (10) MINUTES. THE DURATION 5. GAS LINEST HARMIN WORE A SLASS SINGLE (DEC 1114-14) 5. AN ACCESSIBLE, APPROVED MINUAL SHUTOFF VALVE WITH A 5. ANDOISPLACEABLE VALVE MEMBER, OR A LISTED GAS 5. CONVENIENCE OUTLET INSTALLED UPSTREAM OF THE CONNECTOR IS USED. THE 6. ANDOISPLACEABLE VALVE MEMBER, OR A LISTED GAS 5. ONDISTEMAN FANGED CONNECTION SHALL BE PROVIED 5. ONNONSTREAM FROM THIS VALVE TO PERMIT REMOVAL OF 5. CONTOLS, CIPC 131 (3) 5. 5. ONDONSTREAM FROM THIS VALVE TO PERMIT REMOVAL OF 5. ONTOND THE USEC FA MAPPROVED DI

UTILITY ROOM AND GARAGE SHALL BE CONTROLLED BY A VACANCY OR OCCUPANT SENSOR.





COMPOSITE ASPHALT ROOF - COLOR:BLACK

HINKLEY LIGHTING, INC. 33000 PIN OAK PARKWAY I AVON LAKE, OHIO 44012 [PH] 440.653 55500 [F] 440.653 5555 HINKLEYLIGHTING.COM I FREDRICKRAMOND.COM



CASCADE 183	4BZ
BRONZE	
WIDTH:	8.0"
HEIGHT:	18.0"
WEIGHT:	4.0 LBS
MATERIAL:	EXTRUDED ALUMINUM
GLASS:	AMBER ETCHED ORGANIC RAIN
BACKPLATE WIDTH:	8.0"
BACKPLATE HEIGHT:	18.0"
SOCKET:	1-100W MED
DARK SKY:	YES
EXTENSION:	4.0"
TTO:	4.8"
CERTIFICATION:	C-US WET RATED
VOLTAGE:	120V
UPC:	640665183405

OUTDOOR LIGHTING



SIDING SHINGLES









ACRYLIC STUCCO- COLOR: GLUTEN



METAL RAILING AT DECK- PAINTED BRONZE



FON DU LAC- LIMESTONE VENEER AT ENTRY WALL



CONCRETE PAVERS AT FRONT & BACK PATIOS



KOLBE HERITAGE WINDOWS WITH DIVIDED LIGHTS









FLOOR PLAN KEY NOTES LEGEND- BASEMENT PLAN & MAIN FLOOR PLAN

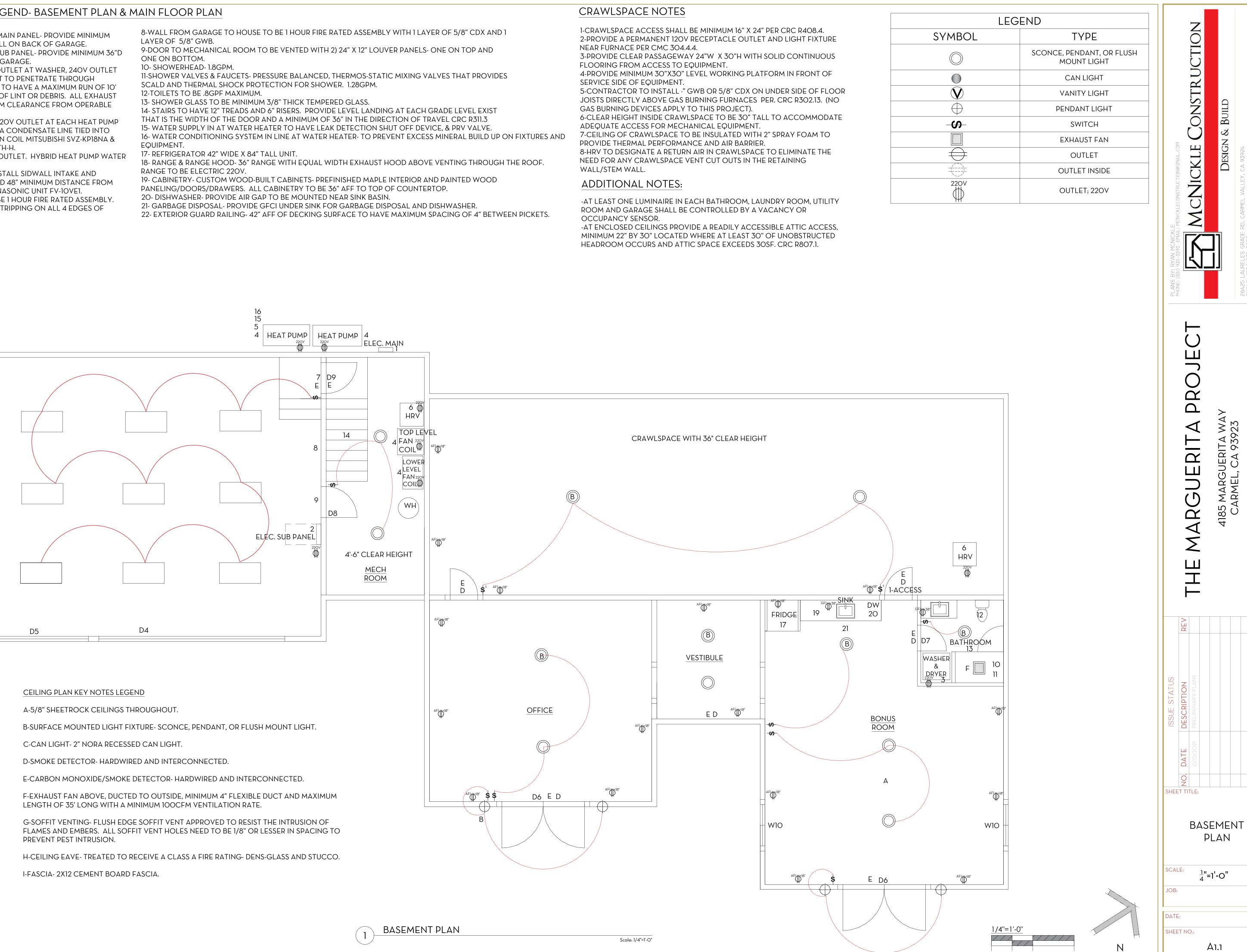
1-ELECTRICAL METER EXTERIOR- 200A MAIN PANEL- PROVIDE MINIMUM 36"D X 30"W X 78"H CLEARANCE, INSTALL ON BACK OF GARAGE. 2-ELECTRICAL PANEL INTERIOR- 200A SUB PANEL- PROVIDE MINIMUM 36"D X 30"W X 78"H CLEARANCE, INSTALL IN GARAGE.

3-LAUNDRY MACHINES- PROVIDE 110V OUTLET AT WASHER, 240V OUTLET AT CLOTHES DRYER, & 4" EXHAUST VENT TO PENETRATE THROUGH SIDEWALL OR ROOF. ALL DRYER VENTS TO HAVE A MAXIMUM RUN OF 10' AND MEANS TO PREVENT THE BUILDUP OF LINT OR DEBRIS. ALL EXHAUST PENETRATIONS MUST HAVE 48" MINIMUM CLEARANCE FROM OPERABLE WINDOWS OR DOORS.

4-HEAT PUMPS & FAN COILS- PROVIDE 220V OUTLET AT EACH HEAT PUMP AND FAN COIL. EACH FAN COIL NEEDS A CONDENSATE LINE TIED INTO DOMESTIC PLUMBING WASTE LINES. FAN COIL MITSUBISHI SVZ-KP18NA & HEAT PUMP MITSUBISHI SUZ-KA18NAR-1-TH-H.

5-WATER HEATER UNIT- PROVIDE 220V OUTLET. HYBRID HEAT PUMP WATER HEATER- RHEEM80GL UNIT.

6-HRV UNIT- PROVIDE 22OV OUTLET. INSTALL SIDWALL INTAKE AND EXHAUST 48" MINIMUM SEPARATION AND 48" MINIMUM DISTANCE FROM ANY WINDOW OR DOOR OPENING. PANASONIC UNIT FV-10VE1. 7-DOOR FROM GARAGE TO HOUSE TO BE I HOUR FIRE RATED ASSEMBLY. SELF CLOSING HINGES AND WEATHER STRIPPING ON ALL 4 EDGES OF DOOR.



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LAYER OF 5/8" GWB.

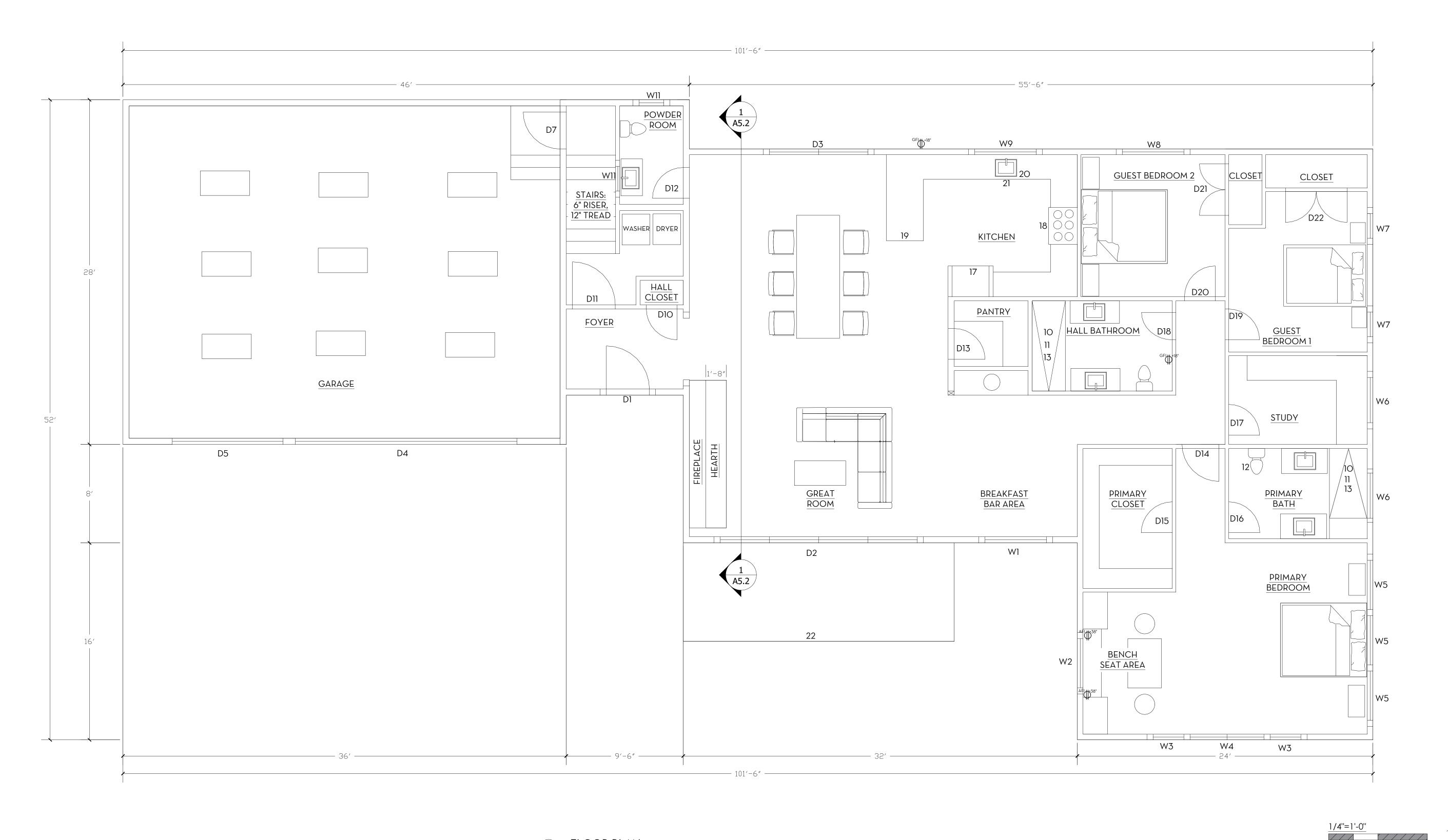
9-DOOR TO MECHANICAL ROOM TO BE VENTED WITH 2) 24" X 12" LOUVER PANELS- ONE ON TOP AND ONE ON BOTTOM.

10- SHOWERHEAD- 1.8GPM. 11-SHOWER VALVES & FAUCETS- PRESSURE BALANCED, THERMOS-STATIC MIXING VALVES THAT PROVIDES SCALD AND THERMAL SHOCK PROTECTION FOR SHOWER. 1.28GPM. 12-TOILETS TO BE .8GPF MAXIMUM.

13- SHOWER GLASS TO BE MINIMUM 3/8" THICK TEMPERED GLASS. 14- STAIRS TO HAVE 12" TREADS AND 6" RISERS. PROVIDE LEVEL LANDING AT EACH GRADE LEVEL EXIST THAT IS THE WIDTH OF THE DOOR AND A MINIMUM OF 36" IN THE DIRECTION OF TRAVEL CRC R311.3 15- WATER SUPPLY IN AT WATER HEATER TO HAVE LEAK DETECTION SHUT OFF DEVICE, & PRV VALVE. 16- WATER CONDITIONING SYSTEM IN LINE AT WATER HEATER- TO PREVENT EXCESS MINERAL BUILD UP ON FIXTURES AND EQUIPMENT.

17- REFRIGERATOR 42" WIDE X 84" TALL UNIT. 18- RANGE & RANGE HOOD- 36" RANGE WITH EQUAL WIDTH EXHAUST HOOD ABOVE VENTING THROUGH THE ROOF. RANGE TO BE ELECTRIC 220V.

19- CABINETRY- CUSTOM WOOD-BUILT CABINETS- PREFINISHED MAPLE INTERIOR AND PAINTED WOOD PANELING/DOORS/DRAWERS. ALL CABINETRY TO BE 36" AFF TO TOP OF COUNTERTOP. 20- DISHWASHER- PROVIDE AIR GAP TO BE MOUNTED NEAR SINK BASIN. 21- GARBAGE DISPOSAL- PROVIDE GFCI UNDER SINK FOR GARBAGE DISPOSAL AND DISHWASHER. 22- EXTERIOR GUARD RAILING- 42" OFF OF DECKING SURFACE TO HAVE MAXIMUM SPACING OF 4" BETWEEN PICKETS.



8-WALL FROM GARAGE TO HOUSE TO BE I HOUR FIRE RATED ASSEMBLY WITH I LAYER OF 5/8" CDX AND I

ADDITIONAL NOTES:

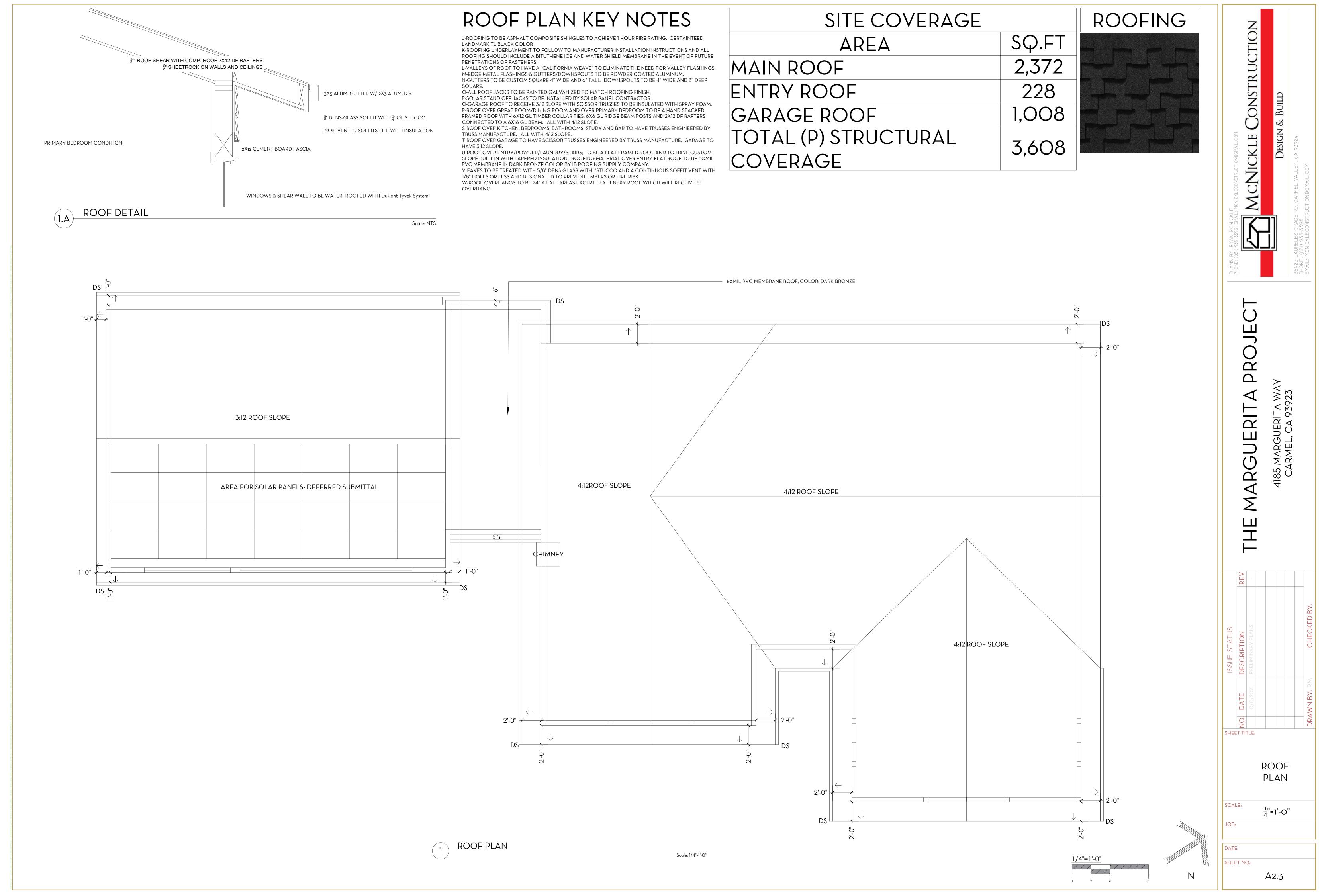
-AT LEAST ONE LUMINAIRE IN EACH BATHROOM, LAUNDRY ROOM, UTILITY ROOM AND GARAGE SHALL BE CONTROLLED BY A VACANCY OR OCCUPANCY SENSOR.

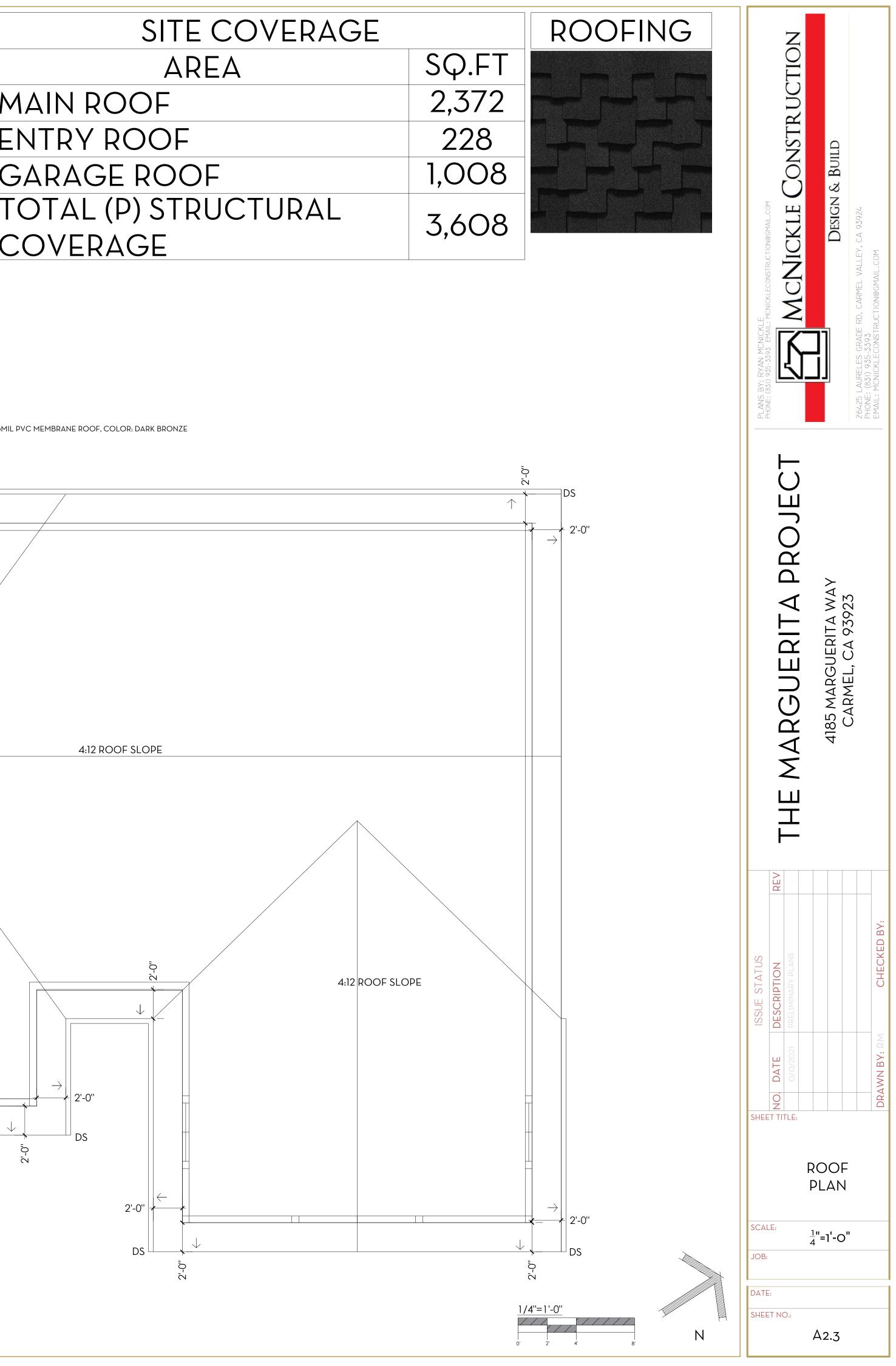
-AT ENCLOSED CEILINGS PROVIDE A READILY ACCESSIBLE ATTIC ACCESS, MINIMUM 22" BY 30" LOCATED WHERE AT LEAST 30" OF UNOBSTRUCTED HEADROOM OCCURS AND ATTIC SPACE EXCEEDS 30SF. CRC R807.1.

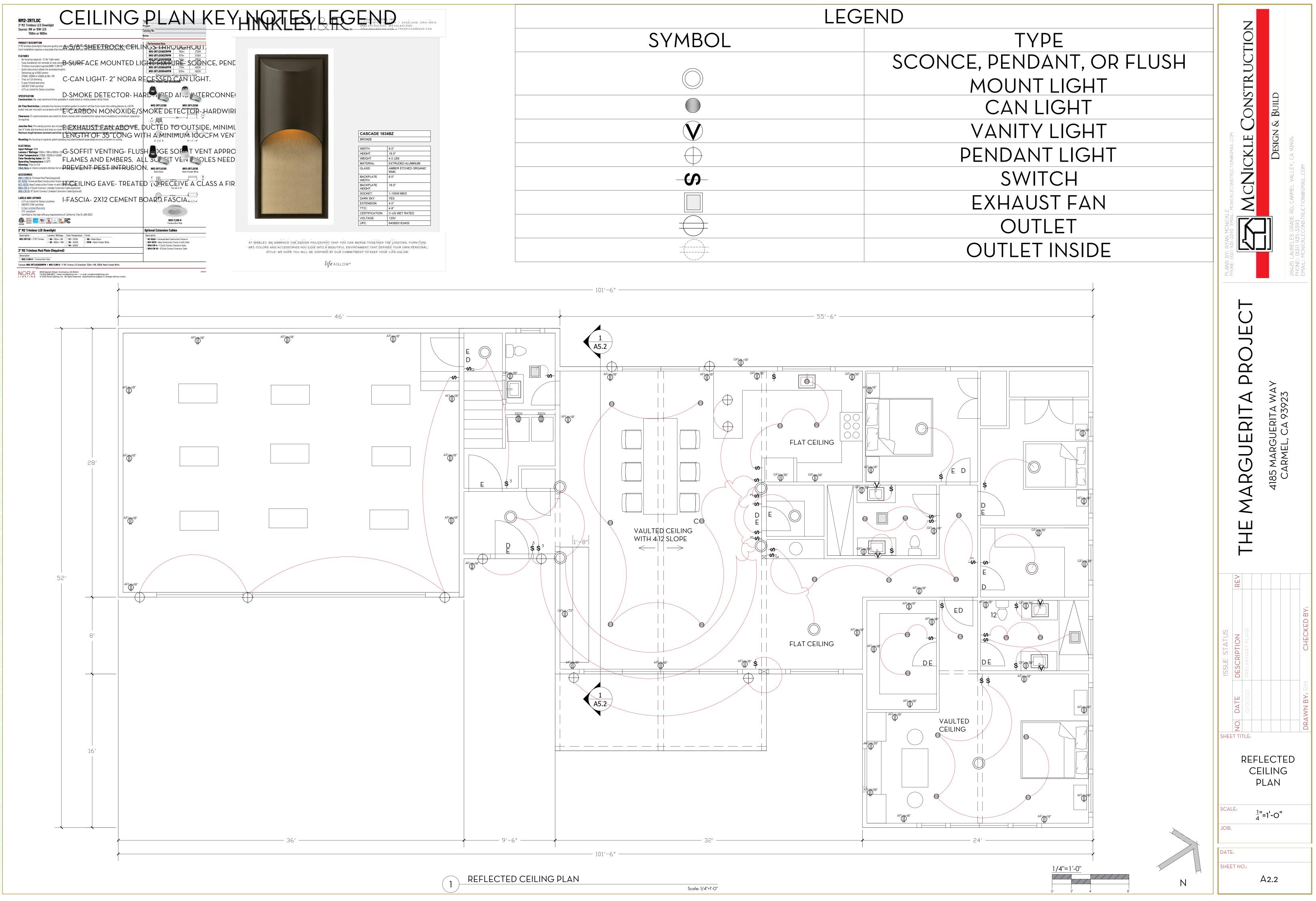


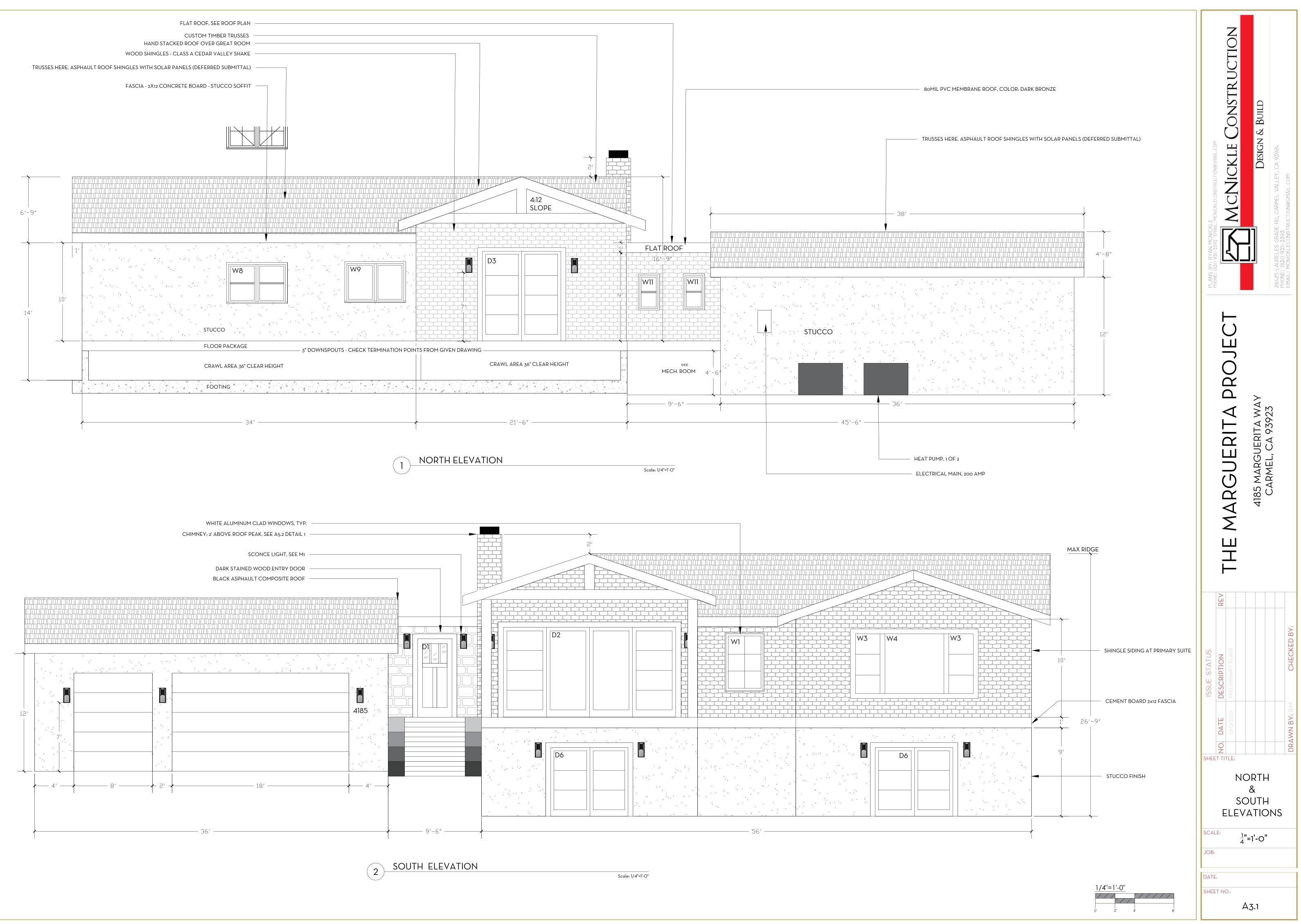


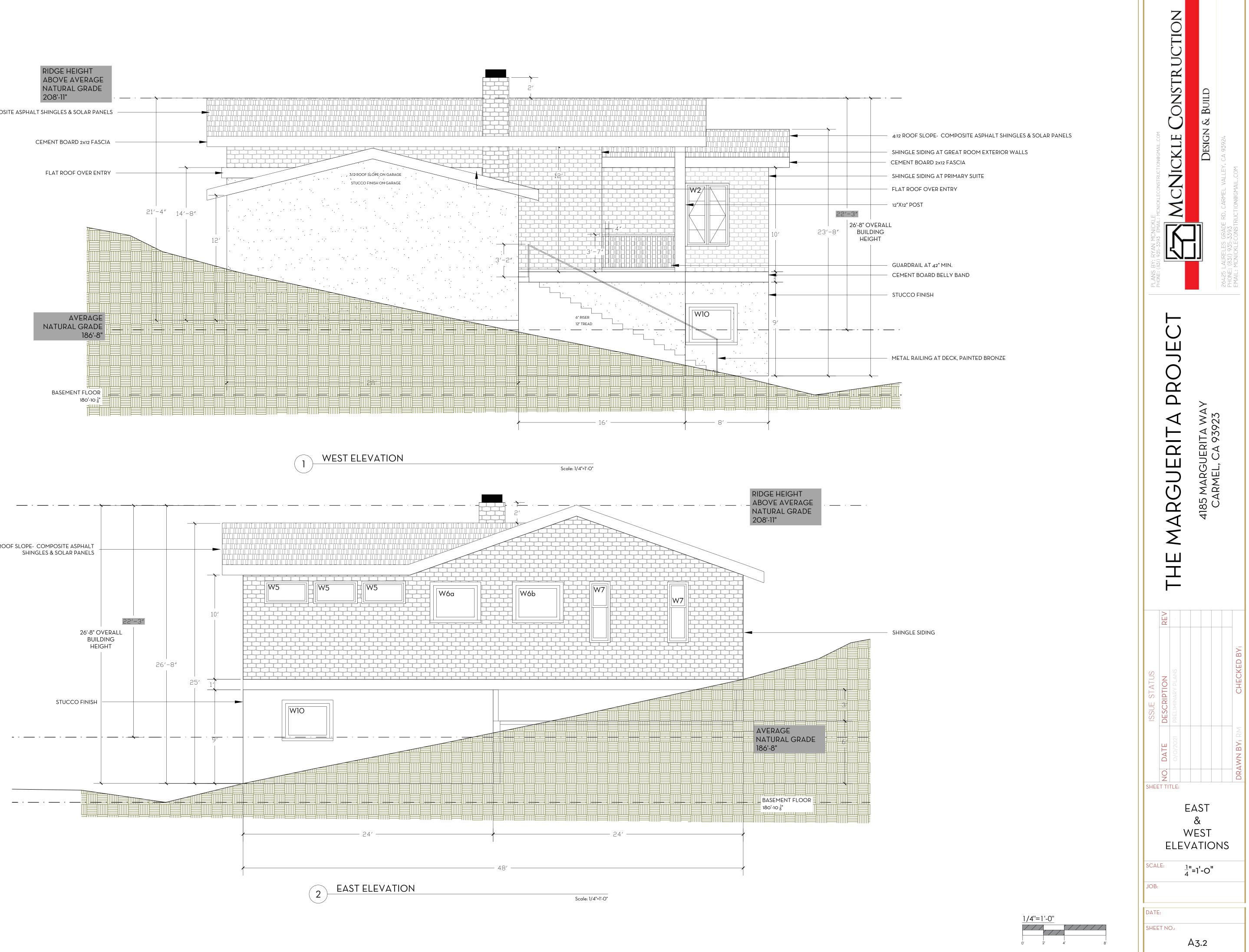
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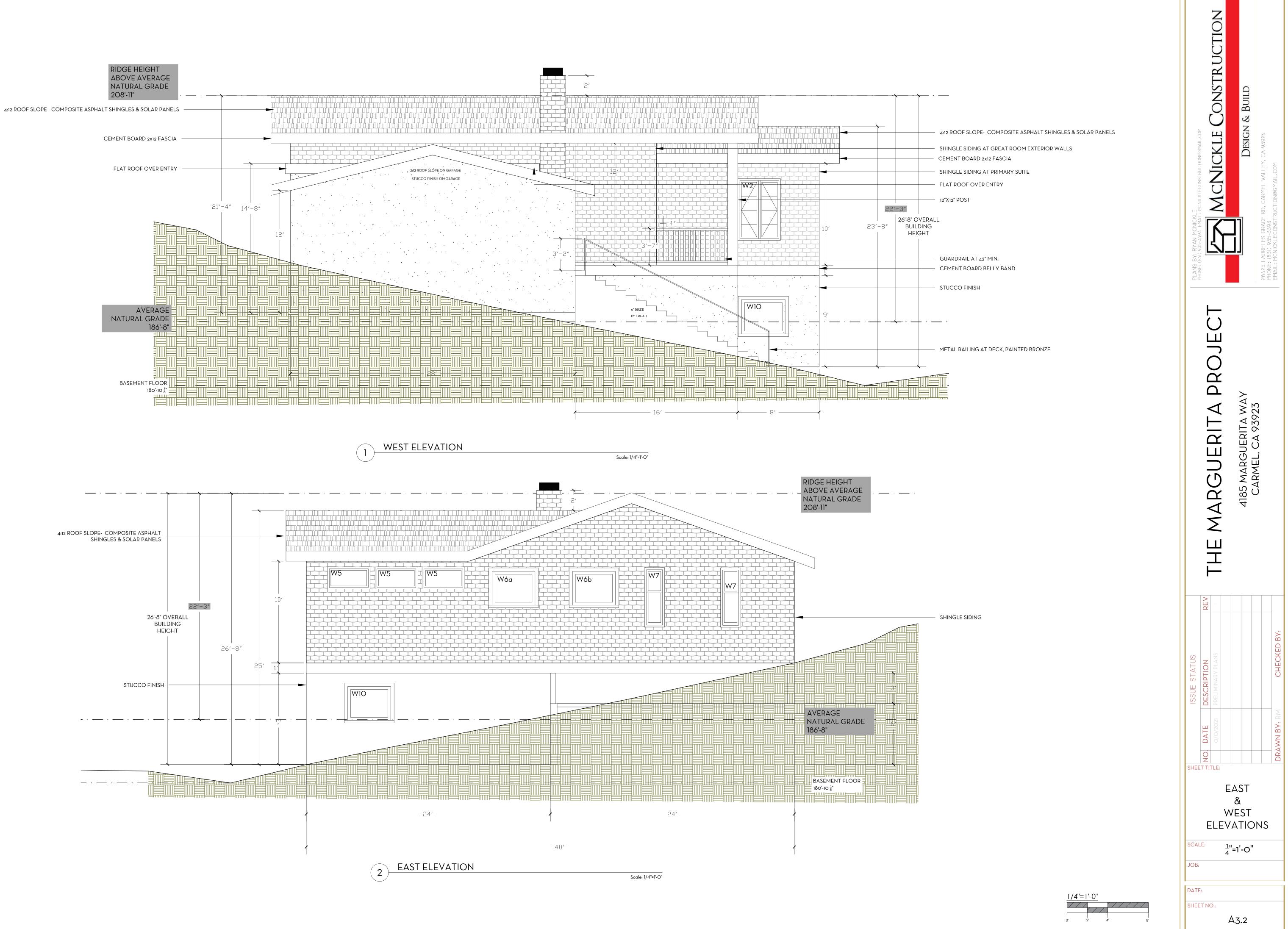








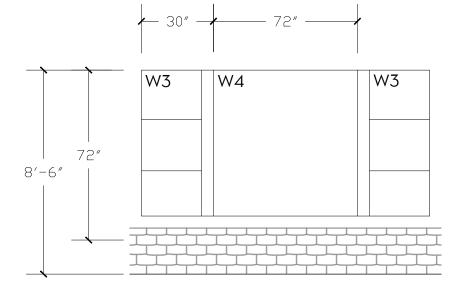




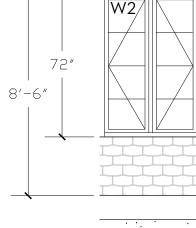
	WINDOWS					
LABEL	LOCATION	ТҮРЕ	SIZE WxH			
W1	Breakfast Bar Area	Fixed	48x72			
W2	Primary bedroom- bench seat area.	Double Casement	48x72			
W3	Primary Bedroom	Fixed	30x72			
W3	Primary Bedroom	Fixed	30x72			
W4	Primary Bedroom	Fixed	72x72			
W5	Primary Bedroom	Fixed	48x24			
W5	Primary Bedroom	Fixed	48x24			
W5	Primary Bedroom	Fixed	48x24			
W6a	Primary Bathroom	Awning	44x38			
W6b	Study	Fixed	44x38			
W7	Guest Bedroom 1	Double Hung	24x60			
W7	Guest Bedroom 1	Double Hung	24x60			
W8	Guest Bedroom 2	Double Hung	60x48			
W9	Kitchen	Double Casement	60x48			
W10	Basement	Fixed	48x48			
W10	Basement	Fixed	48x48			
W11	Powder Room	Double Hung	24x36			
W11	Stair Case	Fixed	24x36			

WINDOW DESCRIPTION

 KOLBE HERITAGE OR SIMILAR- WOOD WINDOWS WITH ALUMINUM CLADDING ON EXTERIOR. ALL CASEMENT WINDOWS TO BE PUSH OUT AND ALL DOUBLE HUNG WINDOWS TO RECEIVE INSECT SCREES. INTERIOR OF ALL WINDOWS TO BE PAINTED WHITE. EXTERIOR CLADDING OF WINDOWS TO BE "CLOUD" COLOR BY KOLBE OR SIMILAR. DIVIDED LIGHTS TO BE BEVELED STICKING WITH ³/₄" WIDE MULLIONS. EXTERIOR DOORS TO HAVE 3 POINT HARDWARE. ALL HARDWARE TO BE OIL RUBBED BRONZE.

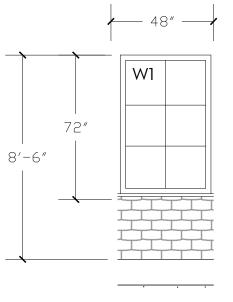


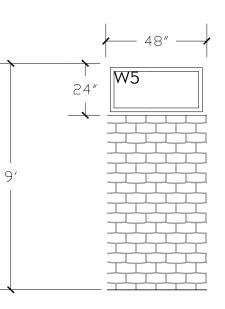


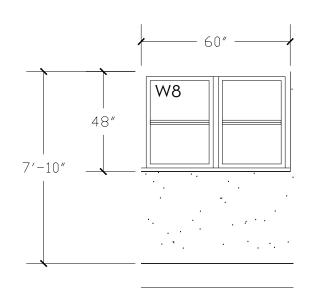


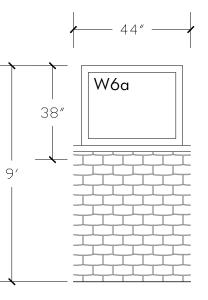
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— 48″ —









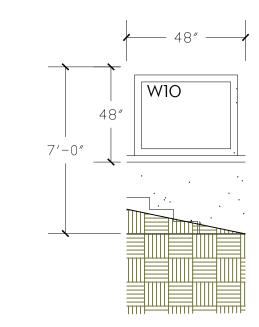
----- 60" ------

W9

48

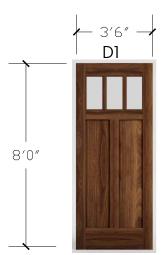
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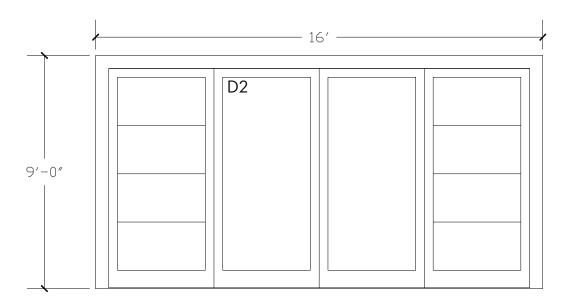
8'-1"

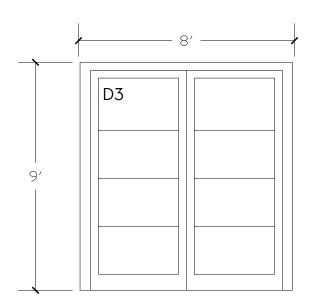


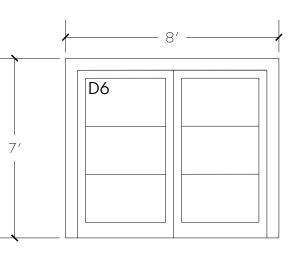


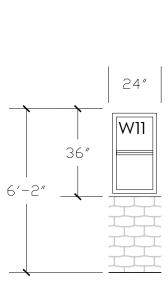
DOORS						
LABEL	LOCATION	ΤΥΡΕ	SIZE WxH			
D1- Ext.	Entry Door- Real Craft Door- Oak.	Triple Top Lite	3-6 x 8-0			
D2- Ext.	Great Room- Sliders with fixed panels.	Lift & Slide	16-0 x 9-0			
D3- Ext.	Dining Room.	French Doors	8-0 x 9-0 Pair			
D4- Gar.	Garage Main Door	Overhead	18-0 x 10-0			
D5- Gar.	Garage Door Left Side	Overhead	9-0 x 10-0			
D6- Ext.	Basement	French Doors	8-0 x 7-0 Pair			
D6- Ext.	Basement	French Doors	8-0 x 7-0 Pair			
D7	Basement Bathroom	LH In Swing	2-6 x 7-0			
D8	Garage Mechanical Room	RH in swing	2-6 x 4-0			
D9	Garage to House- Black threhold- ext. gasket	LH In Swing	3-0 x 8-0			
D10	Laundry Room	LH In Swing	3-0 x 8-0			
D11	Coat Closet at Entry	RH Out swing	2-0 x 8-0			
D12	Powder Bathroom	LH In Swing	2-6 x 8-0			
D13	Pantry	RH in swing	2-6 x 8-0			
D14	Primary Bedroom	LH In Swing	3-0 x 8-0			
D15	Primary Closet	LH In Swing	2-6 x 8-0			
D16	Primary bathroom	RH in swing	2-6 x 8-0			
D17	Study	RH in swing	2-6 x 8-0			
D18	Guest Bathroom	RH in swing	2-6 x 8-0			
D19	Guest Bedroom 1	RH in swing	2-6 x 8-0			
D20	Guest Bedroom 2	RH in swing	2-6 x 8-0			
D21	Guest Closet 2	Pair	5-0 x 8-0			
D22	Guest Closet 1	Pair	5-0 x 8-0			











24″

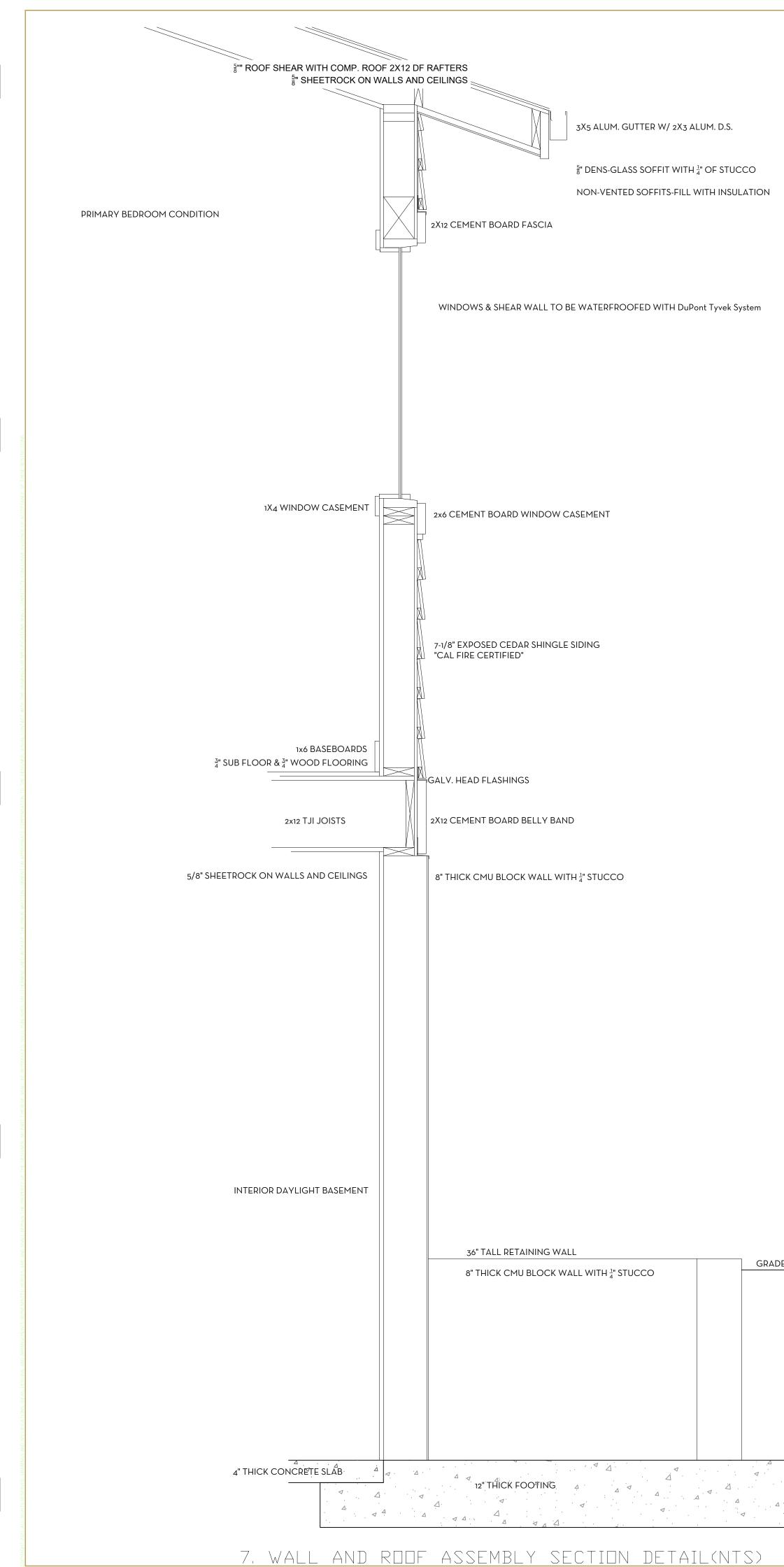
W7

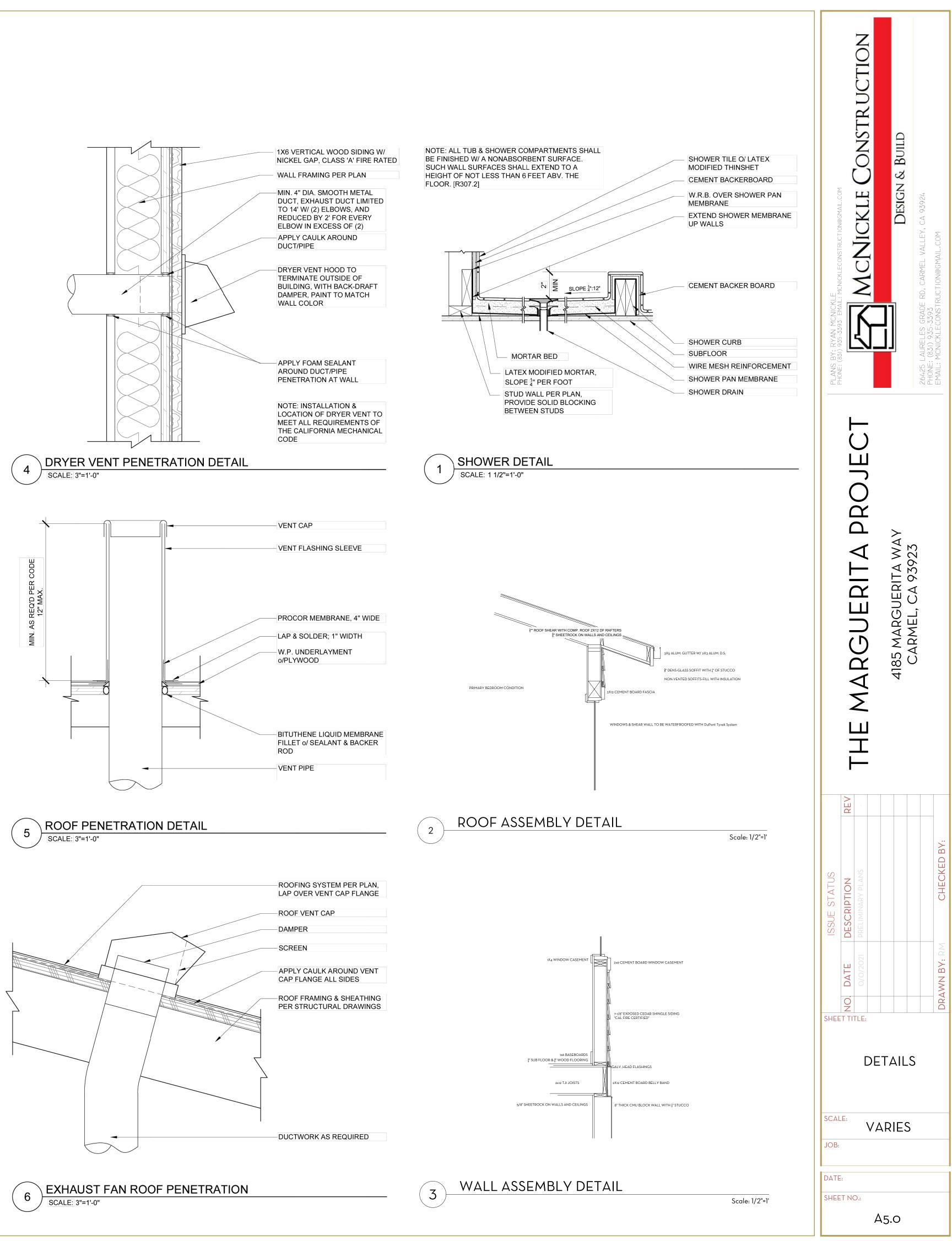
60″

WINDOW & EXTERIOR DOOR NOTES

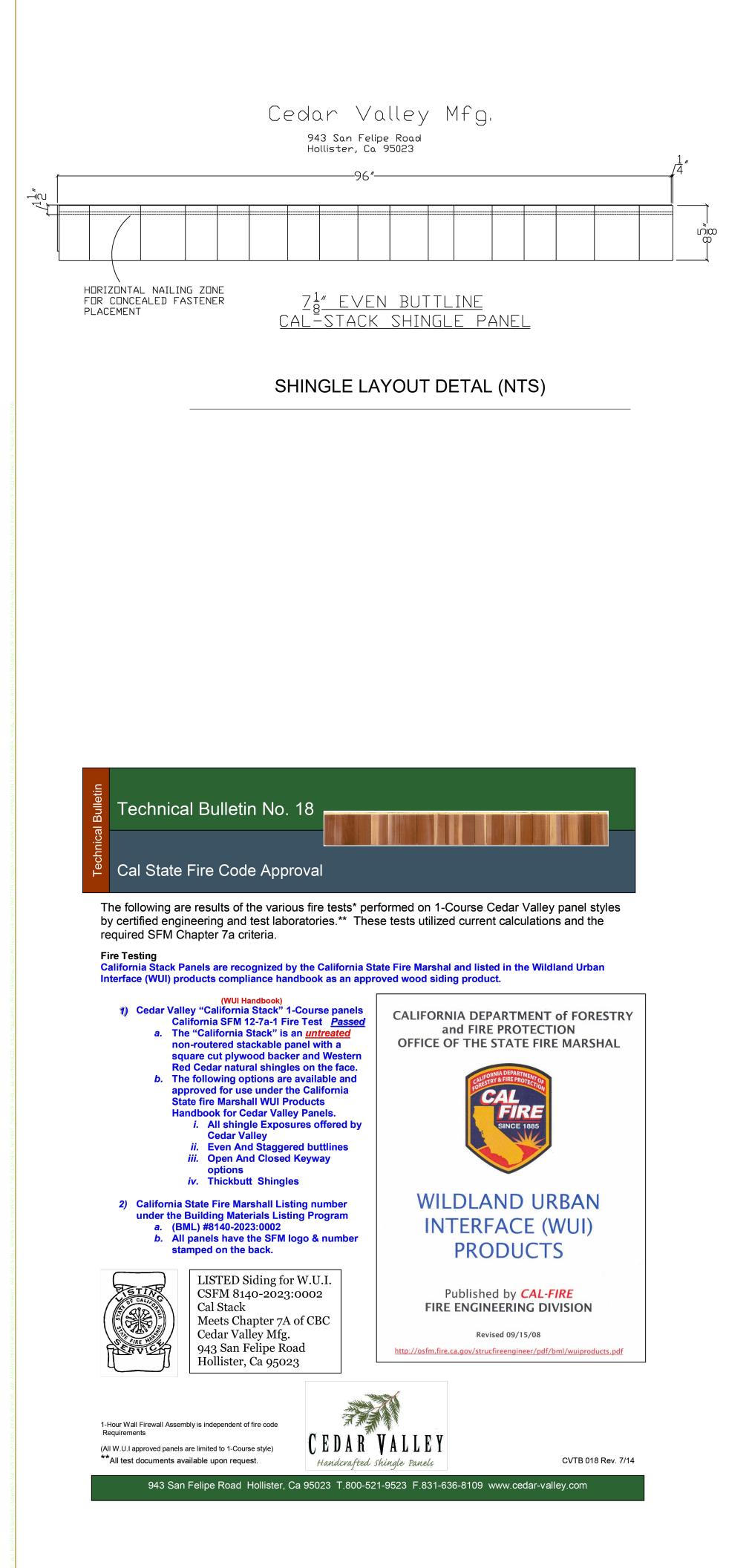
- 1. CONTRACTOR TO VERIFY ROUGH OPENING DIMENSIONS WITH ON SITE FIELD CONDITIONS PRIOR TO ORDING WINDOWS AND DOORS.
- 2. ALL DIMENSIONS ARE GIVEN FOR OVERALL FRAME SIZE
- ALL HEAD HEIGHTS TO ALIGN WHERE POSIBLE
 ALL OPERABLE WINDOWS TO BE PROVIDED WITH SCREENS
- REQUIRED SAFETY GLAZING SHALL CONFIRM TO THE HUMAN IMPACT LOADS PER CRC SECTIONS R308.3 & R308.4
- 6. GLAZING SHALL BE TERMPERED IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS ALL OF THE FOLLOWING CONDITIONS:
- 6.1. THE EXPOSED AREA OF AN INDIVIDUAL PANE IS LARGER THAN 9 SQUARE FEET; AND
- 6.2. THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18 INCHES ABOVE THE FLOOR; AND
- 6.3. THE TOP EDGE OF THE GLAZING IS MORE THAN 36 INCHES ABOVE THE FLOOR; AND
- 6.4. ONE OR MORE WALKING SURFACES ARE WITHIN 36 INCHES, MEASURED HORIZONTALLY AND IN A STRAIGHT LINE OF THE GLAZING; AND
- 6.5. GLAZING IN ENCLOSURES FOR, OR WALLS FACING BATHTUBS & SHOWERS WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60 INCHES MEASURED VERTICALLY ABOVE ANY STANDING OR WALKING SURFACE
- 6.6. FIXED AND OPERABLE PANELS OF SWINGING, SLIDING, AND BI-FOLD DOOR ASSEMBLIES
- 7. GLAZING SHALL BE TEMPERED IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24-INCH ARC OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR OR WALKING SURFACE
- 8. CONTRACTOR TO PROVIDE SHOP DRAWINGS TO ARCHTIECT FOR REVIEW PRIOR TO ORDERING DOORS AND WINDOWS
- 9. ALL WINDOWS TO BE DUAL GLAZED-ARGON FILLED WITH THERMAL SPACER
- MIN. U-VALUE & SGHC PER TITLE 24 CALCULATIONS
 EXTERIOR WINDOWS AND EXTERIOR GLAZED DOORS SHALL BE MULTIPANE GLAZING WITH A MINIMUM OF ONE TEMPERED PAN, GLASS BLOCK UNITS, HAVE FIRE RESISTANCE RATING OF 20 MINUTES WHEN TESTED IN ACCORDANCE WITH NFPA 257, OR MEET THE REQUIREMENTS OF SFM 12-7A-2
- 12. EXTERIOR DOORS SHALL BE OF APPROVED NONCOMBUSTIBLE CONSTRUCTION OR IGNITION RESISTANT MATERIAL, SOLID CORE WOOD HAVING STILES AND RAILS NOT LESS THAN 1-3/8 INCHES THICK WITH INTERIOR FIELD PANEL THICKNESS NO LESS THAN 1-1/4 INCHES THICK, SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED ACCORDING TO NFPA 252, OR MEET THE REQUIREMENTS OF SFM-7A-1



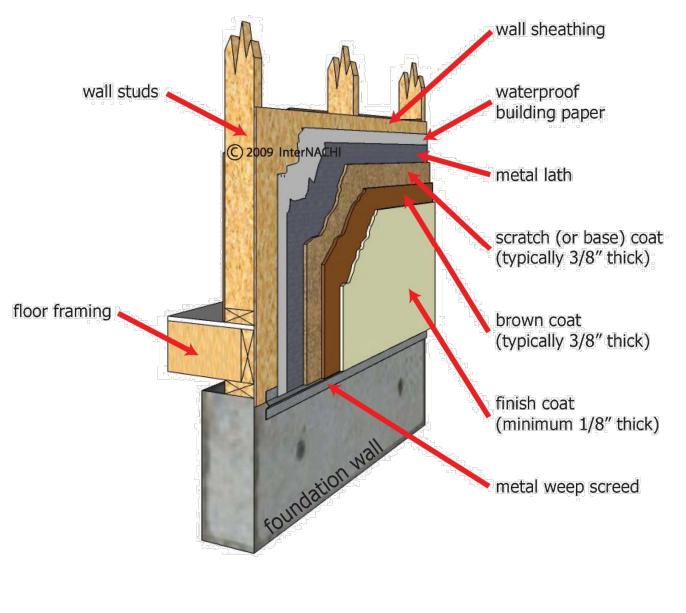




GRADE HEIGHT



CEDAR SHINGLE SPECIFICATION



STUCCO DETAIL (NTS)

PRIMARY BEDROOM CONDITION

1X4 WINDOW CASEMENT

 $\frac{3}{4}$ SUB FLOOR & $\frac{3}{4}$ WOOD FLOORING

2x12 TJI JOISTS

5/8" SHEETROCK ON WALLS AND CEILINGS

INTERIOR DAYLIGHT BASEMENT

4" THICK CONCRETE SLAB

Insist upon the **Integrity Roof** System[™] and get the ultimate in roof performance!

With as much care as you take in selecting the right contractor, choosing the right roof system is equally as important. A CertainTeed Integrity Roof System[™] combines key elements that help ensure you have a well-built roof for long-lasting performance.

It all starts with CertainTeed's broad line of shingles, featuring brilliant color blends, dramatic styles and shadow lines, and the strongest warranties in the industry. The right shingle can mean the difference between an average, everyday look or a beautiful roof that's the talk of the neighborhood.

Shingles are just the beginning – to keep your new roof performing and looking great for years to come it takes a complete CertainTeed Integrity Roof System approach.



Waterproofing Underlayment The first step in your defense against the elements. Self-adhering underlayment

is installed at vulnerable areas of your roof to help prevent leaks from wind-driven rain and ice dams.*

Water-Resistant Underlayment Provides a protective layer over the roof deck and acts as a secondary barrier against leaks.

- **5.** Starter Shingles Starter Shingles are the first course of shingles that are installed and designed to work in tandem with the roof shingles above for optimal shingle sealing and performance.
- **4.** Shingles Choose from a variety of Good-Better-Best styles to complement any roof design and
- fit your budget. **O**. Ventilation A roof that breathes is shown to perform better and last longer. Ridge Vents, in

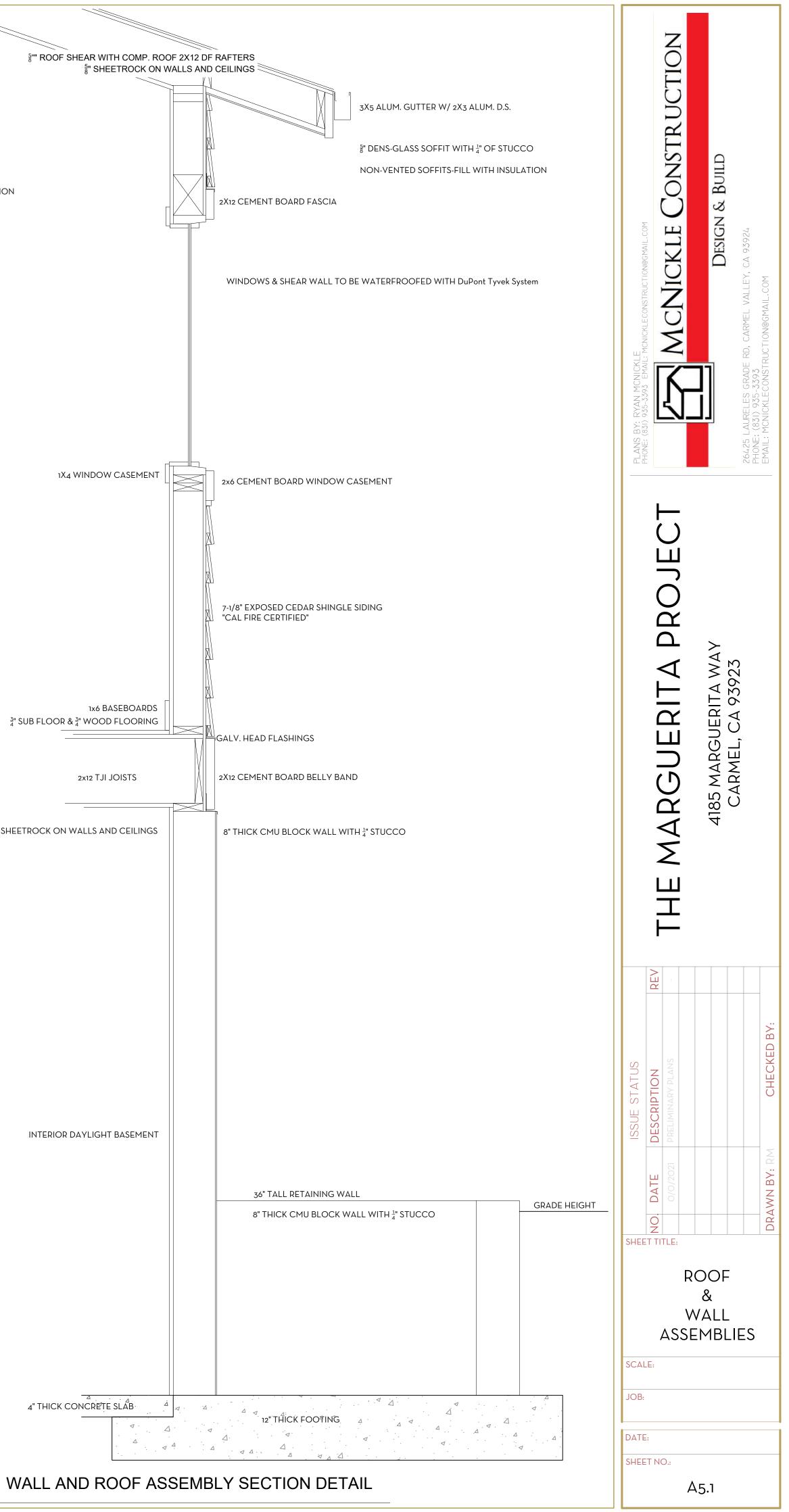
combination with CertainTeed Intake Vents or Soffit Vents, allow air to flow on the underside of your roof deck, keeping the attic cooler in the summer and drier in the winter.

Hip & Ridge Caps Available in numerous profiles, these accessories are used on the roof's hip and ridge lines for a distinctive finishing touch to your new roof.

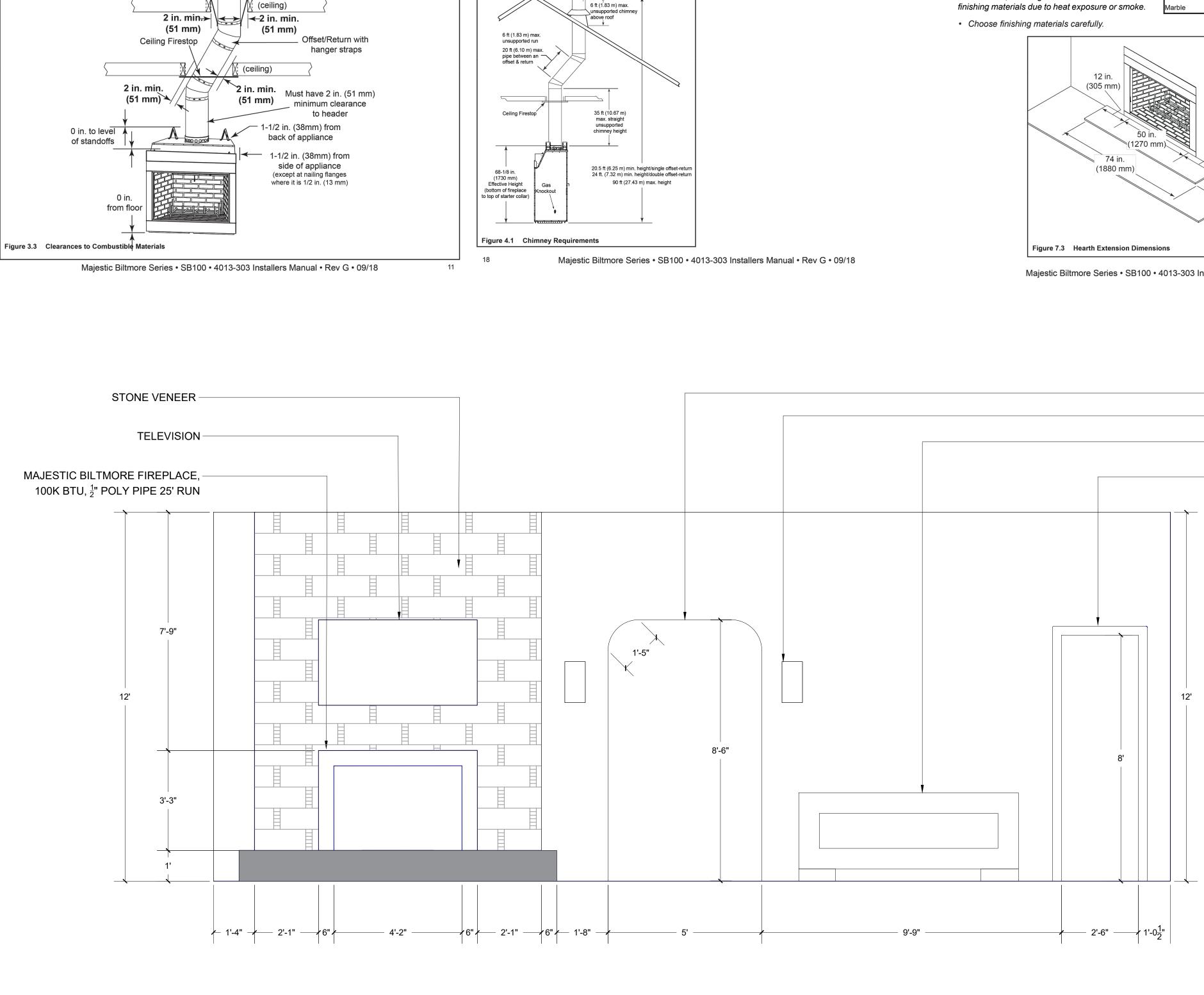
Low-Slope Sections CertainTeed Flintlastic[®] and SMARTCOAT™ roofing products are also available for low-slope roof areas.



CERTAINTEED ROOFING SHINGLES



FIREPLACE ELEVATION AT DINING ROOM



B. Clearances WARNING! Risk of Fire!

You must comply with all minimum air space clearances to combustibles as specified in Figure 3.3. **DO NOT** pack required air spaces with insulation or other materials. Framing or finishing material used on the front of, or in front of, the fireplace closer than the minimums listed must be constucted entirely of non-combustible materials (i.e., steel studs, concrete board, etc.). Failure to comply may cause fire.

Storm Collar

Roof Flashing

(attic)

✓2 in. min.→

(51 mm)

→ **~2** in. min.

(51 mm)

Ceiling Firestop

Attic

Insulation

Shield

minimum clearances to compustibles					
WITHIN ENCLOSURE AREA					
Fireplace to backwall	1-1/2 in. (38 mm)				
Fireplace to sidewall	1-1/2 in. (38 mm)				
Top standoffs to header	0 in. (0 mm)				
Door opening to sidewall	24 in. (610 mm)				
MANTEL					
Mantel minimum height	20 in. (508 mm)				
	above opening				
Maximum mantel depth	12 in. (305 mm)				

Chimney and Termination Requirements

A. Chimney Requirements

Vertical distances are measured from the base of the fireplace as shown in Figure 4.1.

Table 4.1 Chimney Requirements		
Minimum overall straight height	20 ft	6.1 m
Minimum height with single offset/ return	20.5 ft	6.25 m
Double offset/return minimum height	24 ft	7.32 m
Maximum height	90 ft	27.43 m
Maximum chimney length between an offset and return	20 ft	6.1 m
Maximum distance between chimney stabilizers	35 ft	10.67 m
Maximum unsupported chimney length between the offset and return	6 ft	1.83 m
Maximum unsupported chimney height above the fireplace	35 ft	10.67 m
Maximum unsupported chimney above roof	6 ft	1.83 m

NOTICE: A maximum of two pairs of offsets and returns may be used.

Minimum Clearances to Combustibles

WARNING! Risk of Fire! You must maintain 2 in. (51 mm) air space clearance to insulation and other combustible materials around the chimney surfaces. system. Failure to do so may cause overheating and fire.

NOTICE: You must provide support for the pipe during construction and check to be sure inadvertent loading has not dislodged the chimney section from the fireplace or at any chimney joint.

Table 4.2 Chimney Component Dimensions

HEIGHT OF CHIMNEY COMPONENTS	in.	mm			
Chimney Stabilizer					
SL11	4-3/4	121			
Offsets/Returns					
SL1130	18	457			
Chimney Sections*					
SL1106	4-3/4	121			
SL1112	10-3/4	273			
SL1118	16-3/4	425			
SL1136	34-3/4	883			
SL1148	46-3/4	1187			
* Dimensions reflect effective height.					

B. Hearth Extension, Building and Finishina

WARNING! Risk of Fire! High temperatures, sparks, embers or other burning material falling from the fireplace may ignite flooring or concealed combustible

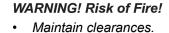
Protective metal hearth strips MUST be installed. • Hearth extensions MUST be installed exactly as specified.

A hearth extension must be installed with all fireplaces to protect the combustible floor in front of the fireplace from both radiant heat and sparks.

- You MUST use a hearth extension with this Table 7.1 fireplace.
- Refer to Figure 7.3 for minimum dimensions. • This fireplace has been tested and approved for use with a hearth extension insulated to a minimum R value of 1.03.
- The hearth extension material MUST be covered with tile, stone or other non-combustible material. Manufactured hearth materials will usually have a
- published **R value** (resistance to heat) or **k value** (conductivity of heat). Refer to the formula in Table 7.1 to convert a k value to an R value,
- Refer to Table 7.2 for hearth extension insulation alternatives.

WARNING! Risk of Fire!

Hearth & Home Technologies is not responsible for discoloration, cracking or other material failures of finishing materials due to heat exposure or smoke.



- Use only non-combustible material below standoffs, material such as cement board is acceptable.
- Framing or finishing material used on the front of the fireplace closer than the minimums listed, must be constructed entirely of non-combustible materials (i.e., steel studs, concrete board, etc.).

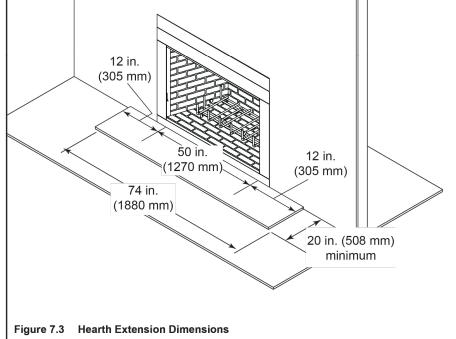
WARNING! Risk of Fire!

Hearth extensions are to be installed only as illustrated to prevent high tempertures from occurring on concealed combustible materials.

R = 1/k x inches of thickness Table 7.2 Hearth Extension Insulation Alternatives, R Value = 1.03 Minimum k per inch r per inch thickness

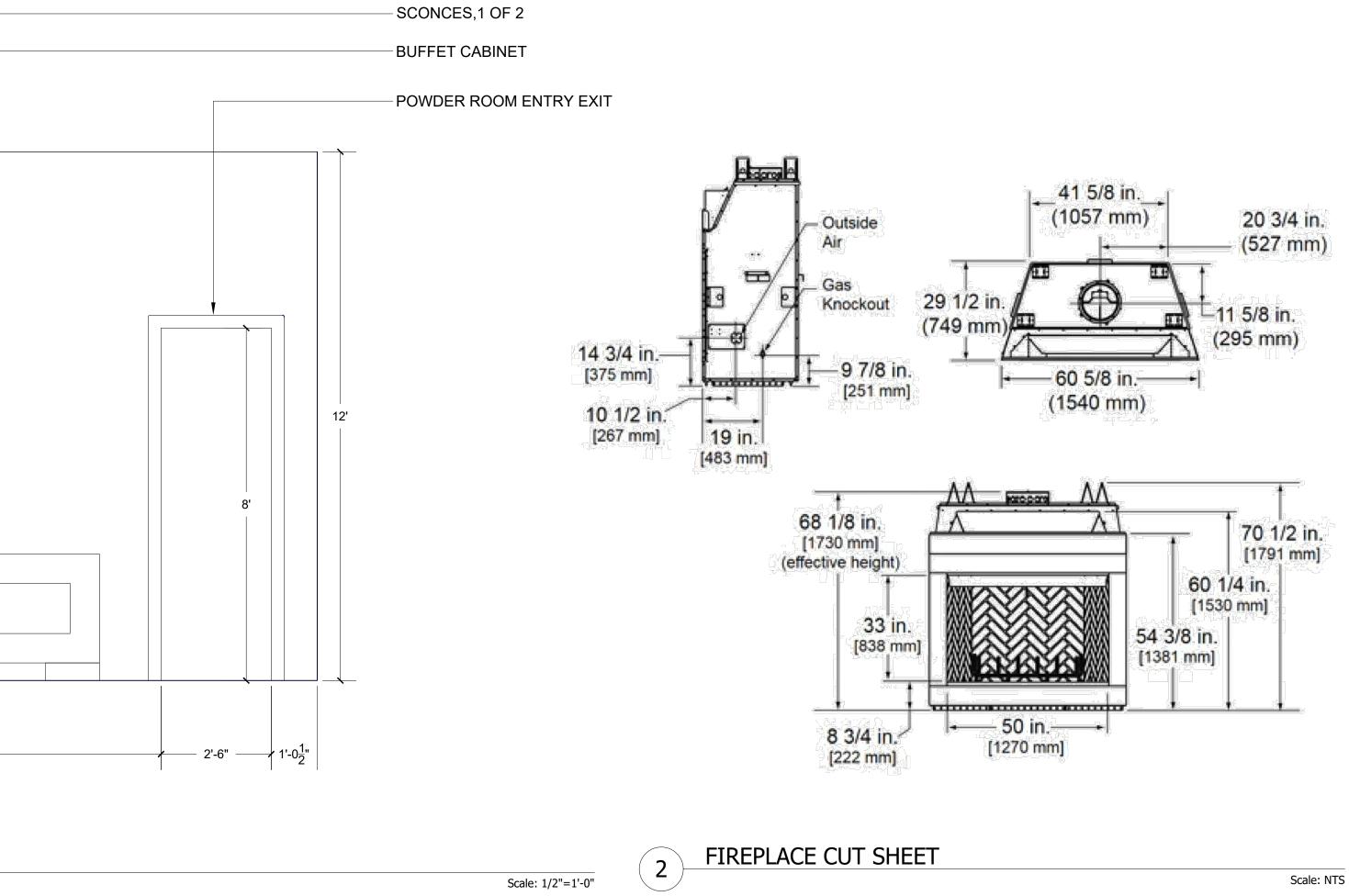
Material	thick	thick	required
Hearth & Home HX3, HX4	0.49	2.06	1/2 in.
USG Micore 300™	0.49	2.06	1/2 in.
USG Durock™ Cement Board	1.92	0.52	2 in.
Cement Mortar	5.0	0.20	5 1/8 in.
Common Brick	5.0	0.20	5 1/8 in.
Ceramic Tile	12.50	0.08	12 1/4 in.
Armstrong™ Privacy Guard Plus	0.46	2.18	1/2 in.
Marble	14.3-20.0	0.07-0.05	14 5/8 in 20 3/8 in.

FOYER ENTRY/EXIT

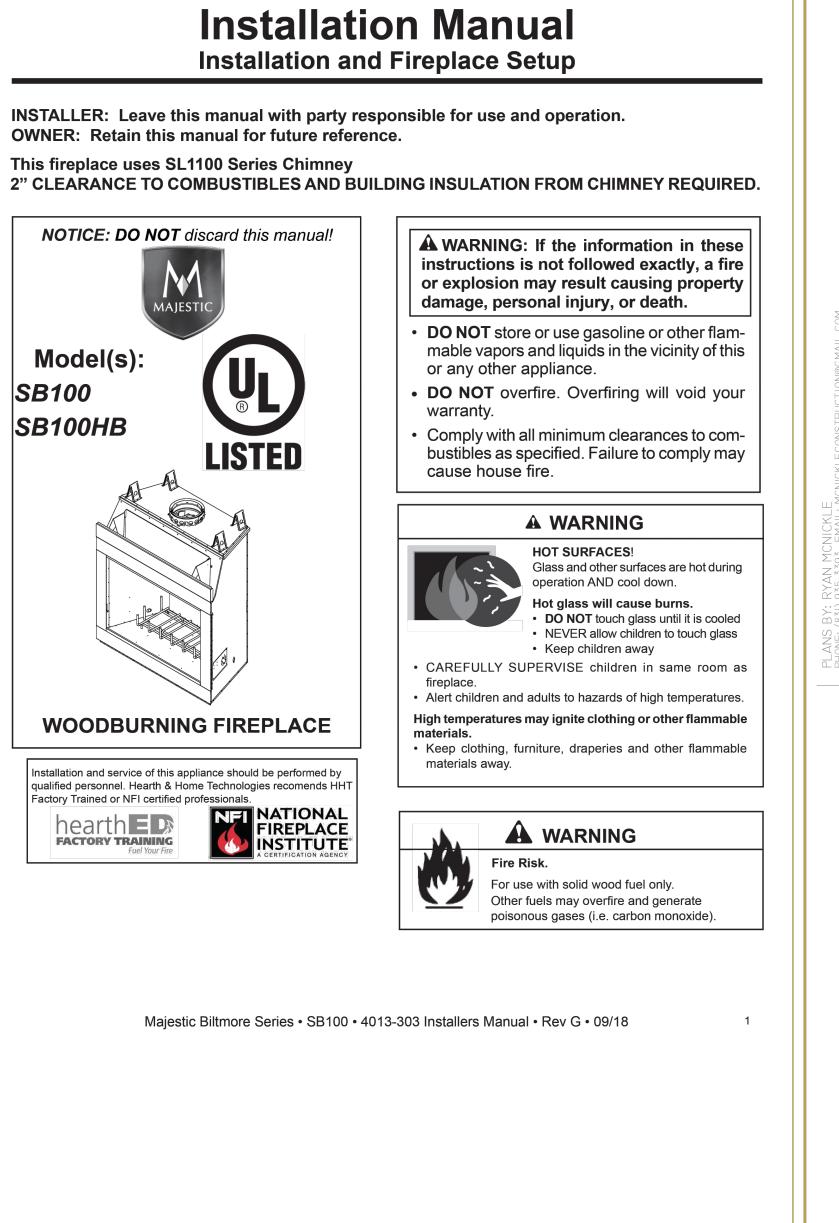


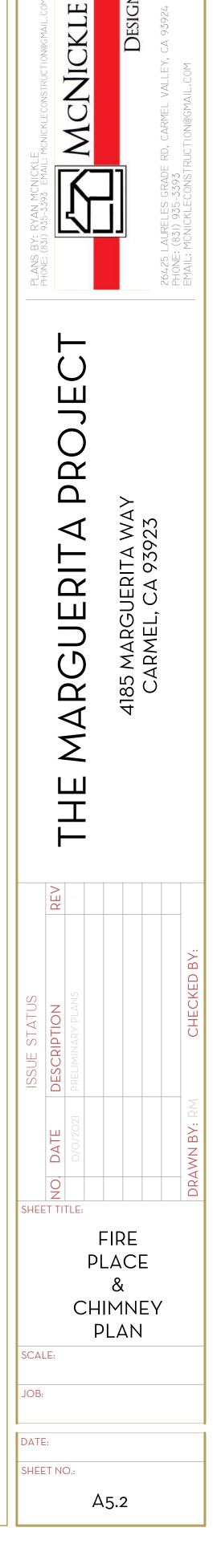
Majestic Biltmore Series • SB100 • 4013-303 Installers Manual • Rev G • 09/18











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Build

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	GENERAL NOTES 1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THESE PLANS AND ACCOMPANYING SPECIFICATIONS, IN ADDITION ALL WORK SHALL ALSO CONFORM WITH THE FOLLOWING: - LATEST REVISION OF THE COUNTY OF MONTEREY DESIGN STANDARDS AND SPECIFICATIONS, MONTEREY COUNTY CODE, STANDARD DETAILS, AND GEOTECHNICAL REPORT - THE LATEST REVISION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS (STATE SPECIFICATIONS)
	- THE 2016 EDITIONS OF THE CALIFORNIA BUILDING CODE (CBC), CALIFORNIA PLUMBING CODE (CPC), CALIFORNIA MECHANICAL CODE (CMC), CALIFORNIA ENERGY CODE (CEnC), CALIFORNIA ELECTRICAL CODE (CEC). 2. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE PLANS, DETAILS, AND SPECIFICATIONS AND SITE CONDITIONS PRIOR TO THE START OF CONSTRUCTION. IN THE EVENT THAT THE CONTRACTOR FINDS ANY DISCREPANCIES, OMISSIONS, OR DEFICIENCIES IN THE PLANS, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER AND THE OWNER'S REPRESENTATIVE IMMEDIATELY.
	3. IT IS THE CONTRACTORS RESPONSIBILITY TO SECURE ALL REQUIRED PERMITS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE MONTEREY COUNTY BUILDING SERVICES DEPARTMENT (COUNTY) AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION.
	4. THE TOPOGRAPHY, LOCATIONS AND SIZE OF UNDERGROUND UTILITIES AND OR OTHER STRUCTURES SHOWN HEREON WERE OBTAINED FROM A FIELD SURVEY (BY OTHERS) AND OR FROM RECORD INFORMATION. NEITHER THE ENGINEER NOR THE OWNER MAKES ANY REPRESENTATION TO THE ACCURACY OF TOPOGRAPHY. SIZE AND OR LOCATION OF ANY OF THE UTILITIES OR STRUCTURES SHOWN ON THESE PLANS NOR FOR THE EXISTENCE OF ANY OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED THAT ARE NOT SHOWN ON THIS PLAN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE SIZE AND LOCATION OF EXISTING UNDERGROUND UTILITIES, SURFACE IMPROVEMENTS, AND OTHER STRUCTURES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THEM FROM DAMAGE DURING CONSTRUCTION.
	5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING APPROPRIATE UTILITY COMPANIES AND REQUESTING VERIFICATION OF SERVICE POINTS, FIELD VERIFICATION OF LOCATION, SIZE, DEPTH, ETC. FOR ALL THEIR FACILITIES AND TO COORDINATE WORK SCHEDULES.
L	6. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AT (800) 227-2600 AT LEAST 48 HOURS PRIOR TO EXCAVATION TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
	7. CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ANY CURRENTLY APPLICABLE SAFETY LAW OF ANY JURISDICTIONAL BODY. FOR INFORMATION REGARDING THIS PROVISION, THE CONTRACTOR IS DIRECTED TO CONTACT THE STATE OF CALIFORNIA, DIVISION OF OCCUPATIONAL SAFETY AND HEALTH. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADES, SAFETY DEVICES, AND THE CONTROL OF TRAFFIC WITHIN THE CONSTRUCTION AREA. FOR ALL TRENCH EXCAVATION FIVE (5) FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE DIVISION OF OCCUPATIONAL SAFETY AND HEALTH. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADES, SAFETY DEVICES, AND THE CONTROL OF TRAFFIC WITHIN THE CONSTRUCTION AREA. FOR ALL TRENCH EXCAVATION FIVE (5) FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE DIVISION OF OCCUPATIONAL SAFETY AND HEALTH PRIOR TO BEGINNING ANY EXCAVATION. A COPY OF THIS PERMIT SHALL BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES.
	8. EXISTING CURB, GUTTER, SIDEWALK, SURVEY MONUMENTS, AND OTHER IMPROVEMENTS WITHIN PROJECT SITE THAT ARE DAMAGED OR DISPLACED AS A RESULT OF THE CONTRACTOR'S ACTIVITIES SHALL BE REPLACED BY THE CONTRACTOR.
	9. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS AND SAFETY OF ALL PERSONS AND PROPERTY DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. THE CONTRACTOR AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND THE OWNER, THE ENGINEER, AND ALL DESIGN CONSULTANTS FROM ANY AND ALL LIABILITY, CLAIMS, LOSSES OR DAMAGES ARISING FROM THE PERFORMANCE OF THE WORK DESCRIBED HEREIN EXCEPT THOSE ARISING FROM THE SOLE NEGLIGENCE OF ANY OF THE PREVIOUSLY MENTIONED PEOPLE OR ENTITIES. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL LEAVE A 24-HOUR EMERGENCY TELEPHONE NUMBER WITH THE POLICE, FIRE DEPARTMENTS AND PRIVATE SECURITY COMPANY (IF APPLICABLE), AND KEEP THEM INFORMED DAILY REGARDING ANY CONSTRUCTION RELATED ACTIVITY IN THE PUBLIC RIGHT OF WAY.
	10. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL, OFF-HAUL, AND PROPER DISPOSAL OF ALL ITEMS TO BE REMOVED INCLUDING BUT NOT LIMITED TO: CONCRETE, ASPHALT CONCRETE, STRIPING, ANY AND ALL OTHER DEBRIS FROM THE SITE, EXCESS MATERIAL FROM TRENCHING AND PAVEMENT CONSTRUCTION, TREES AND ROOT BALLS, FENCING AND SPOILS FROM EXCAVATION AT THE CONTRACTOR'S EXPENSE.
	11. IF ARCHAEOLOGICAL RESOURCES OR HUMAN REMAINS ARE DISCOVERED DURING CONSTRUCTION, WORK SHALL BE HALTED WITHIN 150 FEET OF THE FIND UNTIL IT CAN BE EVALUATED BY A QUALIFIED PROFESSIONAL ARCHAEOLOGIST. IF THE FIND IS DETERMINED TO BE SIGNIFICANT, APPROPRIATE MITIGATION MEASURES SHALL BE FORMULATED AND IMPLEMENTED.
	12. ALL REVISIONS TO THESE PLANS MUST BE APPROVED BY THE ENGINEER AS WELL AS THE OWNER PRIOR TO THEIR CONSTRUCTION AND SHALL BE ACCURATELY SHOWN ON RECORD DRAWINGS PRIOR TO THE ACCEPTANCE OF THE WORK AS COMPLETE. ANY CHANGES TO OR DEVIATIONS FROM THE PLANS MADE WITHOUT AUTHORIZATION SHALL BE AT THE CONTRACTOR'S SOLE RISK AND SHALL ABSOLVE THE ENGINEER OF ANY AND ALL RESPONSIBILITY ASSOCIATED WITH THE THE CHANGE OR DEVIATION.
l	13. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO KEEP THE SITE AND ADJACENT AREAS FREE FROM DIRT AND DEBRIS. SHOULD ANY DIRT OR DEBRIS BE DEPOSITED IN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL REMOVE IT IMMEDIATELY.
	 14. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PREVENT AIRBORNE DUST FROM BECOMING A NUISANCE. DUST CONTROL MEASURES TO BE IMPLEMENTED INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING: A) PROVIDE EQUIPMENT AND MANPOWER REQUIRED FOR WATERING ALL EXPOSED OR DISTURBED EARTH B) COVER STOCKPILES OF DEBRIS, SOIL, OR OTHER MATERIALS WHICH MAY CONTRIBUTE TO AIRBORNE DUST. C) KEEP CONSTRUCTION AREAS AND ADJACENT STREET FREE OF MUD AND DUST.
	D) LANDSCAPE, SEED, OR COVER PORTIONS OF THE SITE AS SOON AS CONSTRUCTION IS COMPLETE.
	16. PAD ELEVATION/S SHALL BE CERTIFIED TO 0.1 FEET, PRIOR TO DIGGING ANY FOOTINGS OR SCHEDULING ANY INSPECTIONS.
	<u>GRADING AND DRAINAGE</u> 1. CONTRACTOR SHALL NOTIFY THE COUNTY 48 HOURS BEFORE STARTING ANY GRADING OPERATIONS.
	2. ALL GRADING SHALL CONFORM TO THE COUNTY GRADING ORDINANCE (#2535) AND THE EROSION CONTROL ORDINANCE (#2806).
	3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE REQUIRED PERMITS PRIOR TO THE COMMENCEMENT OF GRADING. RIGHT-OF-ENTRY, PERMISSION TO GRADE, AND ENCROACHMENT PERMIT(S) MAY BE REQUIRED PRIOR TO GRADING.
	4. IT IS THE CONTRACTORS RESPONSIBILITY TO PREPARE THE GROUND SURFACE TO RECEIVE THE FILLS AND TO PLACE, SPREAD, MIX, WATER, AND COMPACT THE FILL. THE CONTRACTOR SHALL ALSO REMOVE ALL MATERIAL CONSIDERED UNSATISFACTORY.
	5. WHERE UNSTABLE OR UNSUITABLE MATERIALS ARE ENCOUNTERED DURING SUBGRADE PREPARATION, THE AREA IN QUESTION SHALL BE OVER EXCAVATED AND BACKFILLED WITH SELECT MATERIAL
	 MAXIMUM CUT AND FILL SLOPE SHALL BE 2 HORIZONTAL TO 1 VERTICAL. ALL CUT SLOPES SHALL BE ROUNDED TO MEET EXISTING GRADES AND BLEND WITH SURROUNDING TOPOGRAPHY. ALL GRADED SLOPES SHALL BE PLANTED WITH SUITABLE GROUND COVER.
	8. TREE REMOVAL SHALL INCLUDE REMOVAL OF TRUNKS, STUMPS, AND ROOTBALLS. THE REMAINING CAVITY SHALL BE CLEARED OF ALL ROOTS LARGER THAN 1/2" TO A DEPTH OF NOT LESS THAN 18"
	AND BACKFILLED WITH SUITABLE MATERIAL THEN COMPACTED TO CONFORM WITH THE EXISTING GROUND. 9. CONTRACTOR SHALL USE CAUTION WHEN GRADING AROUND AND/OR OVER EXISTING UNDERGROUND UTILITIES.
	10. ALL SURFACE DRAINAGE SHALL MAINTAIN 2% SLOPE MINIMUM UNLESS NOTED OTHERWISE.
	11. PERVIOUS SURFACES IMMEDIATELY ADJACENT TO THE FOUNDATION SHALL BE SLOPED AWAY FROM THE BUILDING AT A SLOPE OF NOT LESS THAN 5% FOR A MINIMUM DISTANCE OF 10 FEET MEASURED PERPENDICULAR TO THE FACE OF THE WALL. IF PHYSICAL OBSTRUCTIONS OR LOT LINES PROHIBIT 10 FEET OF HORIZONTAL DISTANCE, A 5% SLOPE SHALL BE PROVIDED TO AN APPROVED ALTERNATIVE METHOD OF DIVERTING WATER AWAY FROM THE FOUNDATION. SWALES USED FOR THIS PURPOSE SHALL BE SLOPED A MINIMUM OF 2% WHERE LOCATED WITHIN 10 FEET OF THE BUILDING FOUNDATION. IMPERVIOUS SURFACES WITHIN 10 FEET OF THE BUILDING FOUNDATION SHALL BE SLOPED A MINIMUM OF 2% AWAY FROM THE BUILDING.
	12. DURING WINTER OPERATIONS (BETWEEN OCTOBER 15 AND APRIL 15) THE FOLLOWING MEASURES MUST BE TAKEN: A. DISTURBED SURFACES NOT INVOLVED IN IMMEDIATE OPERATIONS MUST BE PROTECTED BY MULCHING AND OR OTHER EFFECTIVE MEANS OF SOIL PROTECTION.
	B. ALL ROADS AND DRIVEWAYS SHALL HAVE DRAINAGE FACILITIES SUFFICIENT TO PREVENT EROSION ON OR ADJACENT TO THE ROADWAY OR ON DOWNHILL PROPERTIES.
	C. RUN-OFF FROM THE SITE SHALL BE DETAINED OR FILTERED BY BERMS, VEGETATED FILTER STRIPS, AND OR CATCH BASINS TO PREVENT THE ESCAPE OF SEDIMENT FROM THE SITE.
	13. VEGETATION REMOVAL. ACTUAL GRADING SHALL BEGIN WITHIN 30 DAYS OF VEGETATION REMOVAL OR THAT AREA SHALL BE PLANTED.
	14. NO VEGETATION REMOVAL OR GRADING WILL BE ALLOWED WHICH WILL RESULT IN SILTATION OF WATER COURSES OR UNCONTROLLABLE EROSION.
	UNDERGROUND UTILITIES 1. CONTRACTOR SHALL EXPOSE AND VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES, INCLUDING STORM DRAINS, SANITARY SEWERS AND WATER LINES, BEFORE ORDERING MATERIALS
	AND/OR CONSTRUCTING NEW FACILITIES. 2. ALL EXISTING MANHOLES AND UTILITY BOXES WITHIN THE PROJECT AREA ARE TO BE SET FLUSH WITH FINISHED GRADE, UNLESS OTHERWISE NOTED.
	3. ALL TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE SECTIONS OF CALIFORNIA AND FEDERAL O.S.H.A. REQUIREMENTS AND OTHER APPLICABLE SAFETY ORDINANCES, CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION.
	4. PIPE MATERIALS AND INSTALLATION PROCEDURE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND THE MANUFACTURER'S RECOMMENDATIONS.
	5. DAMAGE SHALL BE REPAIRED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE COUNTY. PER THE SOILS REPORT PREPARED BY GRICE ENGINEERING (JOB#7054-19.03 DATE APRIL 23, 2019)
	surface drainage and erosion control design and construction of the project should fit the topographic and hydrologic features of the site. It is important to minimize unnecessary grading of or near steep slopes. Disturbing native vegetation and natural soil structure allows runoff velocity and transport of sediments to increase.
	GENERAL SURFACE DRAINAGE SHOULD BE RETAINED AT LOW VELOCITY BY SLOPE, SOD OR OTHER ENERGY REDUCING FEATURES SUFFICIENT TO PREVENT EROSION, WITH CONCENTRATED OVER-SLOPE DRAINAGE CARRIED IN LINED CHANNELS, FLUMES, PIPE OR OTHER EROSION PREVENTING INSTALLATIONS.
	RUNOFF FLOWS SHOULD BE DIRECTED INTO PIPES OR LINED DITCHES AND THEN ONTO AN ENERGY DISSIPATER BEFORE DISCHARGING INTO STREAMS OR DRAINAGE WAYS. DE-SILTING SHOULD BE PROVIDED AS NECESSARY AND MAY TAKE FORM OF STILLING BASINS, GRAVEL BERMS, FORESTED/VEGETATED SCREENS, ETC.
	ALL CONCENTRATED ROOF AND AREA DRAINAGE SHOULD BE CONVEYED AND RELEASED TO THE GUTTER OF MARGUERITA WAY.
	A SUB-SURFACE DISPERSAL SYSTEM MAY NOT BE USED. THE SITE LITHOLOGY IS NOT SUFFICIENTLY PERMEABLE TO DISPERSE SUCH DRAINAGE.
	DURING CONSTRUCTION, NEVER STORE CUT AND FILL MATERIAL WHERE IT MAY WASH INTO STREAMS OR DRAINAGE WAYS. KEEP ALL CULVERTS AND DRAINAGE FACILITIES FREE OF SILT AND DEBRIS. KEEP EMERGENCY EROSION CONTROL MATERIALS SUCH AS STRAW MULCH, PLASTIC SHEETING, AND SANDBAGS ON-SITE AND INSTALL THESE AT THE END OF EACH DAY AS NECESSARY. RE-VEGETATE AND PROTECT EXPOSED SOILS BY OCTOBER 15. USE APPROPRIATE GRASS/LEGUME SEED MIXES AND/OR STRAW MULCH FOR TEMPORARY COVER. PLAN PERMANENT VEGETATION TO
	INCLUDE NATIVE AND DROUGHT TOLERANT PLANTS. SEEDING AND RE-VEGETATION MAY REQUIRE SPECIAL SOIL PREPARATION, FERTILIZING, IRRIGATION, AND MULCHING. SUBSURFACE DRAINS
	USE OF SPUN FILTER FABRIC IS NOT RECOMMENDED FOR USE IN CONSTRUCTION SUBSURFACE DRAINS AS THIS TYPE OF FABRIC TYPICALLY BECOMES CLOGGED. SHOULD FILTER FABRIC BE NECESSAR' IT IS RECOMMENDED THAT A WOVEN FABRIC BE USED SUCH AS MIRAFI FILTERWEAVE 300. OTHERWISE WE WOULD RECOMMEND OMISSION OF THE FABRIC AND PLACEMENT OF CALTRANS CLASS 1, TYPE 'A" OR "B" DRAIN ROCK, AND THAT ANY FABRIC ONLY BE PLACED NEAR THE TOP OF THE TRENCH BETWEEN THE GRAVEL AND EARTH BACKFILL OR WHERE THE GRAVEL EXTENDS TO GRADE, 1 FOOT BELOW FINISH GRADE.
	GENERAL GRADING RECOMMENDATIONS FOR THOSE ITEMS NOT DIRECTLY ADDRESSED, IT IS RECOMMENDED THAT ALL EARTHWORK BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING.
	GENERAL: THIS ITEM SHALL CONSIST OF ALL CLEARING AND GRUBBING; PREPARATION OF LAND TO BE FILLED; EXCAVATION AND FILL OF THE LAND; SPREADING, COMPACTION AND CONTROL OF THE FILL; AND ALL SUBSIDIARY WORK NECESSARY TO COMPLETE THE GRADED AREA TO CONFORM WITH THE LINES, GRADES AND SLOPES AS SHOWN ON THE APPROVED PLANS.
	THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND LABOR NECESSARY TO COMPLETE THE WORK AS SPECIFIED HEREIN, AS SHOWN ON THE APPROVED PLANS AS STATED IN THE PROJECT SPECIFICATIONS.

PREPARATION: SITE PREPARATION WILL CONSIST OF CLEARING AND GRUBBING ANY EXISTING STRUCTURES AND DELETERIOUS MATERIALS FROM THE SITE, AND THE EARTHWORK REQUIRED TO SHAPE THE SITE TO RECEIVE THE INTENDED IMPROVEMENTS, IN ACCORDANCE WITH THE RECOMMENDED GRADING SPECIFICATIONS AND THE RECOMMENDATIONS AS PROVIDED ABOVE.

ALL VEGETABLE MATTER, IRREDUCIBLE MATERIAL GREATER THAN 4 INCHES AND OTHER DELETERIOUS MATERIALS SHALL BE REMOVED FROM THE AREAS IN WHICH GRADING IS TO BE DONE. SUCH MATERIALS NOT SUITABLE FOR REUSE SHALL BE DISPOSED OF AS DIRECTED.

AFTER THE FOUNDATION FOR FILL HAS BEEN CLEARED, IT SHALL BE BROUGHT TO THE PROPER MOISTURE CONTENT BY ADDING WATER OR AERATING AND COMPACTING TO A RELATIVE COMPACTION OF NOT LESS THAN 90% OR AS SPECIFIED. THE SOILS SHALL BE TESTED TO A DEPTH SUFFICIENT TO DETERMINE QUALITY AND SHALL BE APPROVED BY THE SOILS ENGINEER FOR FOUNDATION PURPOSES PRIOR TO PLACING ENGINEERED FILL

GENERAL FILL: GENERAL FILL SHALL BE PLACED ONLY ON APPROVED SURFACES, AS ENGINEERED FILL, AND SHALL BE COMPACTED TO 90% RELATIVE COMPACTION. NATIVE SOILS ACCEPTED FOR FILL OR EXISTING AGGREGATE FILL MAY BE USED FOR FILL PURPOSES PROVIDED ALL AGGREGATE LARGER THAN 6 INCHES ARE REMOVED. THE MATERIAL FOR ENGINEERED FILL SHALL BE APPROVED BY THE SOILS ENGINEER BEFORE COMMENCEMENT OF GRADING OPERATIONS.

EACH LAYER SHALL BE COMPACTED TO A RELATIVE COMPACTION OF NOT LESS THAN 90% OR AS SPECIFIED IN THE SOILS REPORT AND ON THE ACCEPTED PLANS. COMPACTION SHALL BE CONTINUOUS OVER THE ENTIRE AREA OF EACH LAYER.

THE SELECTED FILL MATERIAL SHALL BE PLACED IN LAYERS WHICH, WHEN COMPACTED, SHALL NOT EXCEED 6 INCHES IN THICKNESS. EACH LAYER SHALL BE SPREAD EVENLY AND SHALL BE

THOROUGHLY MIXED DURING THE SPREADING TO ENSURE UNIFORMITY OF MATERIAL IN EACH LAYER. FILL SHALL BE PLACED SUCH THAT CROSS FALL DOES NOT EXCEED 1 FOOT IN 20 UNLESS OTHERWISE DIRECTED. WHEN FILL MATERIAL INCLUDES ROCK OR CONCRETE RUBBLE, NO IRREDUCIBLE MATERIAL LARGER THAN 4 INCHES IN GREATEST DIMENSION WILL BE ALLOWED EXCEPT UNDER THE DIRECTION OF THE

SOILS ENGINEER. IMPORTED MATERIALS: MATERIALS IMPORTED FOR FILL PURPOSES SHALL BE CLASSIFIED AS: SAND, GROUP SYMBOL SW, SP, SC OR SM, AS GIVEN IN ASTM 2487-10, "THE CLASSIFICATION OF SOILS FOR ENGINEERING PURPOSES." IN ALL CASES THE PORTION FINER THAN THE NO. 200 SIEVE SHALL NOT CONTAIN ANY GREATLY EXPANSIVE CLAYS AND SHALL BE FREE FROM VEGETABLE MATTER AND

OTHER DELETERIOUS MATERIALS. THE MATERIAL FOR ENGINEERED FILL SHALL BE APPROVED BY THE SOILS ENGINEER BEFORE COMMENCEMENT OF GRADING OPERATIONS. STRUCTURAL BACKFILL: TRENCH, WALL AND STRUCTURAL BACKFILL SHALL BE PLACED ONLY ON APPROVED SURFACES, AS ENGINEERED FILL, AND SHALL BE COMPACTED TO 95% RELATIVE COMPACTION. MATERIALS IMPORTED FOR BACKFILL PURPOSES SHALL HAVE A SAND EQUIVALENT OF NO LESS THAN 30 AND SHALL BE CLASSIFIED AS CLEAN SANDS AS DESIGNATED IN 'THE

CLASSIFICATION OF SOILS FOR ENGINEERING PURPOSES" (ASTM 2487-10). PAVEMENT GRADES: ALL PAVEMENT GRADES SHALL BE OF UNIFORM THICKNESS, DENSITY AND MOISTURE PRIOR TO PLACEMENT OF THE NEXT GRADE. FLEXURE OF EACH OR ALL GRADES SHALL NOT EXCEED 0.25 INCHES IN 5 FEET UNDER AN AXIAL LOAD OF 18.5 KIP.

AGGREGATE BASE COURSE: ALL AGGREGATES USED FOR SPECIFIED BASE COURSES, SHALL BE HANDLED IN A MANNER WHICH PREVENTS SEGREGATION AND NON-UNIFORMITY OF GRADATION. COMPACTION: ALL RE-COMPACTED SOILS AND/OR ENGINEERED FILL SHOULD BE PLACED AT A MINIMUM 90% RELATIVE COMPACTION OR AT THE VALUE REQUIRED FOR THAT PORTION OF THE

WORK. ALL PAVEMENT SECTIONS SHOULD BE COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION. FIELD DENSITY TESTING SHALL BE COMPLETED BY THE SOILS ENGINEER ON EACH COMPACTED LAYER OR AS DETERMINED BY THE SOILS ENGINEER. AT LEAST ONE TEST SHALL BE MADE FOR EACH 500 CUBIC YARDS OR FRACTION THEREOF, PLACED WITH A MINIMUM OF TWO TESTS PER LAYER IN ISOLATED AREAS. WHERE A SHEEPS'-FOOT ROLLER IS USED, THE SOIL MAY BE DISTURBED TO A DEPTH OF SEVERAL INCHES. DENSITY TESTS SHALL BE TAKEN IN COMPACTED MATERIALS BELOW THE DISTURBED SURFACE. WHEN THESE TESTS INDICATE THAT THE DENSITY OF ANY LAYER OF FILL OR PORTION

THEREOF, IS BELOW THE REQUIRED DENSITY, THAT PARTICULAR LAYER OR PORTION SHALL BE REWORKED UNTIL THE REQUIRED DENSITY HAS BEEN OBTAINED. MOISTURE: DURING COMPACTION MOISTURE CONTENT OF NATIVE SOILS SHOULD BE THAT CONSISTENT WITH THE MOISTURE RELATIVE TO 95% RELATIVE COMPACTION AND IN NO CASE SHOULD THESE MATERIALS BE PLACED AT LESS THAN 3 PERCENT ABOVE THE SPECIFIC OPTIMUM MOISTURE CONTENT FOR THE SOIL IN QUESTION. THE ENGINEER MAY ELECT TO ACCEPT HIGH MOISTURE COMPACTED SOILS PROVIDED THE MATERIALS ARE AT 95% RELATIVE WET DENSITY AT THAT MOISTURE CONTENT.

THE MOISTURE CONTENT OF THE FILL MATERIAL SHALL BE MAINTAINED IN A SUITABLE RANGE TO PERMIT EFFICIENT COMPACTION. THE SOILS ENGINEER MAY REQUIRE ADDING MOISTURE, AERATING, OR BLENDING OF WET AND DRY SOILS.

ALL EARTH MOVING AND WORK OPERATIONS SHALL BE CONTROLLED TO PREVENT WATER FROM RUNNING INTO AND POOLING IN EXCAVATED AREAS. ALL SUCH WATER SHALL BE PROMPTLY REMOVED AND THE SITE KEPT DRAINED.

TESTS: ALL MATERIALS PLACED SHOULD BE TESTED IN ACCORDANCE WITH THE COMPACTION CONTROL TESTS: "DENSITY OF SOIL IN-PLACE BY SAND CONE METHOD" (ASTM D-1556-07), "MOISTURE-DENSITY RELATIONSHIP OF SOILS" (ASTM D-1557-09), AND "DENSITY OF SOILS IN-PLACE BY NUCLEAR METHOD" (ASTM D-6938-10).

THE STANDARD TEST USED TO DEFINE MAXIMUM DENSITIES OF ALL COMPACTION WORK SHALL BE THEA.S.T.M. D-1557-09, MOISTURE DENSITY OF SOILS, USING A 10-POUND RAM AND 18-INCH DROP. ALL DENSITIES SHALL BE EXPRESSED AS A RELATIVE DENSITY IN TERMS OF THE MAXIMUM DENSITY OBTAINED IN THE LABORATORY BY THE FOREGOING STANDARD PROCEDURE. DELETERIOUS MATERIALS: MATERIALS CONTAINING AN EXCESS OF 5% (BY WEIGHT) OF VEGETATIVE OR OTHER DELETERIOUS MATTER MAY BE UTILIZED IN AREAS OF LANDSCAPING OR OTHER NON-STRUCTURAL FILLS. DELETERIOUS MATERIAL INCLUDES ALL VEGETATIVE AND NONMINERAL MATERIAL, AND ALL NON-REDUCIBLE STONE, RUBBLE AND/OR MINERAL MATTER OF GREATER THAN 6

INCHES. OVER-EXCAVATIONS: OVER-EXCAVATIONS, WHEN REQUIRED, SHOULD INCLUDE THE FOUNDATION AND PAVEMENT ENVELOPES. SUCH EXCAVATIONS SHOULD EXTEND BEYOND EDGE OF DEVELOPMENT A MINIMUM OF 5 FEET AND TO AN IMAGINARY LINE EXTENDING AWAY AND DOWNWARD AT A SLOPE OF 45 DEGREES FROM THE EDGE OF DEVELOPMENT. THE PROCESS SHALL INCLUDE THE COMPLETE REMOVAL OF THE REQUIRED SOILS AND SUBSEQUENT PLACEMENT OF ENGINEERED FILL. AFTER REMOVAL OF THE SOILS TO THE REQUIRED DEPTH, THE BASE OF THE EXCAVATION SHALL BE INSPECTED AND APPROVED BY THE SOILS ENGINEER OR HIS REPRESENTATIVE PRIOR TO FURTHER SOILS PROCESSING OR PLACEMENT. BASED ON THIS INSPECTION OTHER RECOMMENDATIONS MAY BE MADE.

EXISTING CONDITIONS: IN DEVELOPED AREAS UNDERGROUND UTILITIES MAY BE LOCATED WITHIN THE AREA OF PROPOSED CONSTRUCTION. IN ADDITION, BURIED OBJECTS OR DEEPLY DISTURBED Soils may also be encountered. As such all care and practice is to be exercised to observe for and locate any such objects. Where these objects are to be removed or use DISCONTINUED, THEY ARE TO BE REMOVED IN THEIR ENTIRETY AND ALL DISTURBED SOILS ARE TO BE PROCESSED AS ENGINEERED FILL.

KEY: ALL FILLS ON SLOPES GREATER THAN 1 VERTICAL TO 6 HORIZONTAL SHALL BE KEYED INTO THE ADJACENT SOIL. THE TOE OF ALL SLOPES SHOULD BE SUPPORTED BY A KEY CUT A MINIMUM OF 3 FEET INTO UNDISTURBED SOILS TO THE INSIDE OF THE FILLS TOE. THIS KEY SHOULD BE A MINIMUM OF 6 FEET IN WIDTH AND SLOPE AT NO LESS THAN 10% INTO THE SLOPE. IN ADDITION, AS THE FILL ADVANCES UP SLOPE BENCHES, 3 FEET ACROSS, SHOULD BE SCARIFIED INTO THE FILL/UNDISTURBED SOIL INTERFACE.

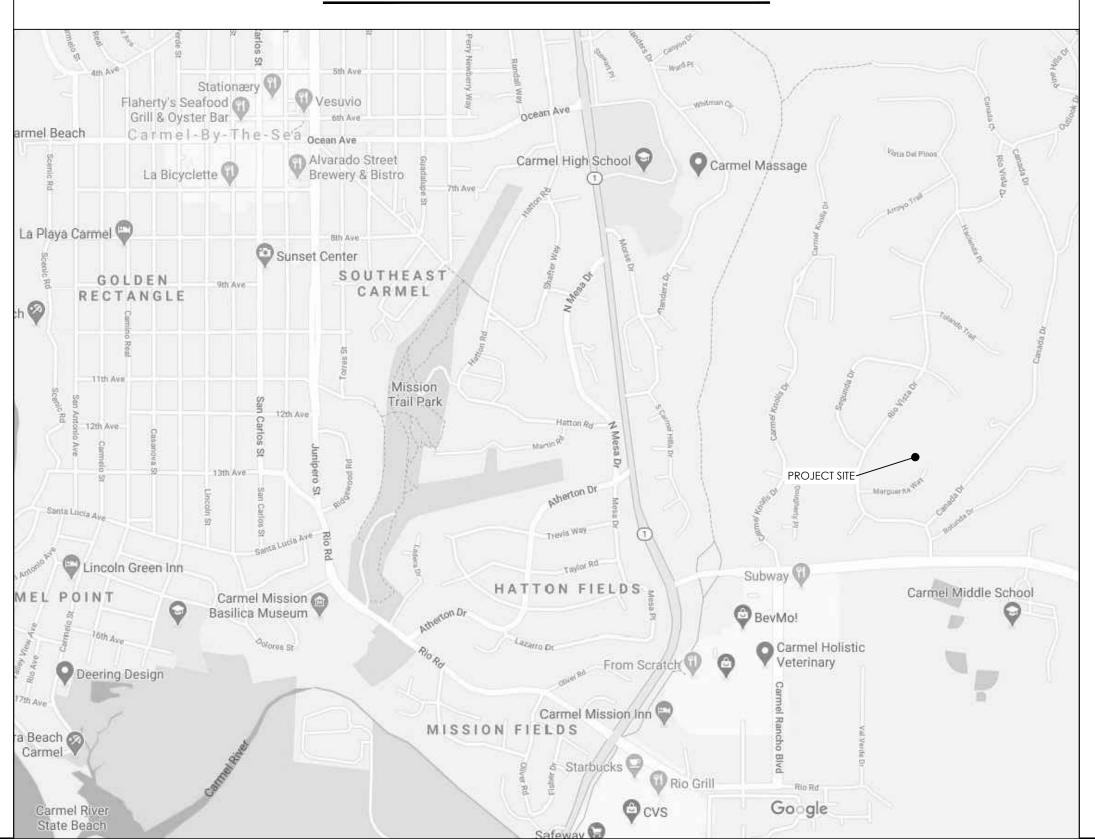
SEASONAL LIMITS: WHEN THE WORK IS INTERRUPTED BY RAIN, FILL OPERATIONS SHALL NOT BE RESUMED UNTIL FIELD TESTS BY THE SOILS ENGINEER INDICATE THAT THE MOISTURE CONTENT AND DENSITY OF THE FILL IS AS PREVIOUSLY SPECIFIED AND SOILS TO BE PLACED ARE IN SUITABLE CONDITION

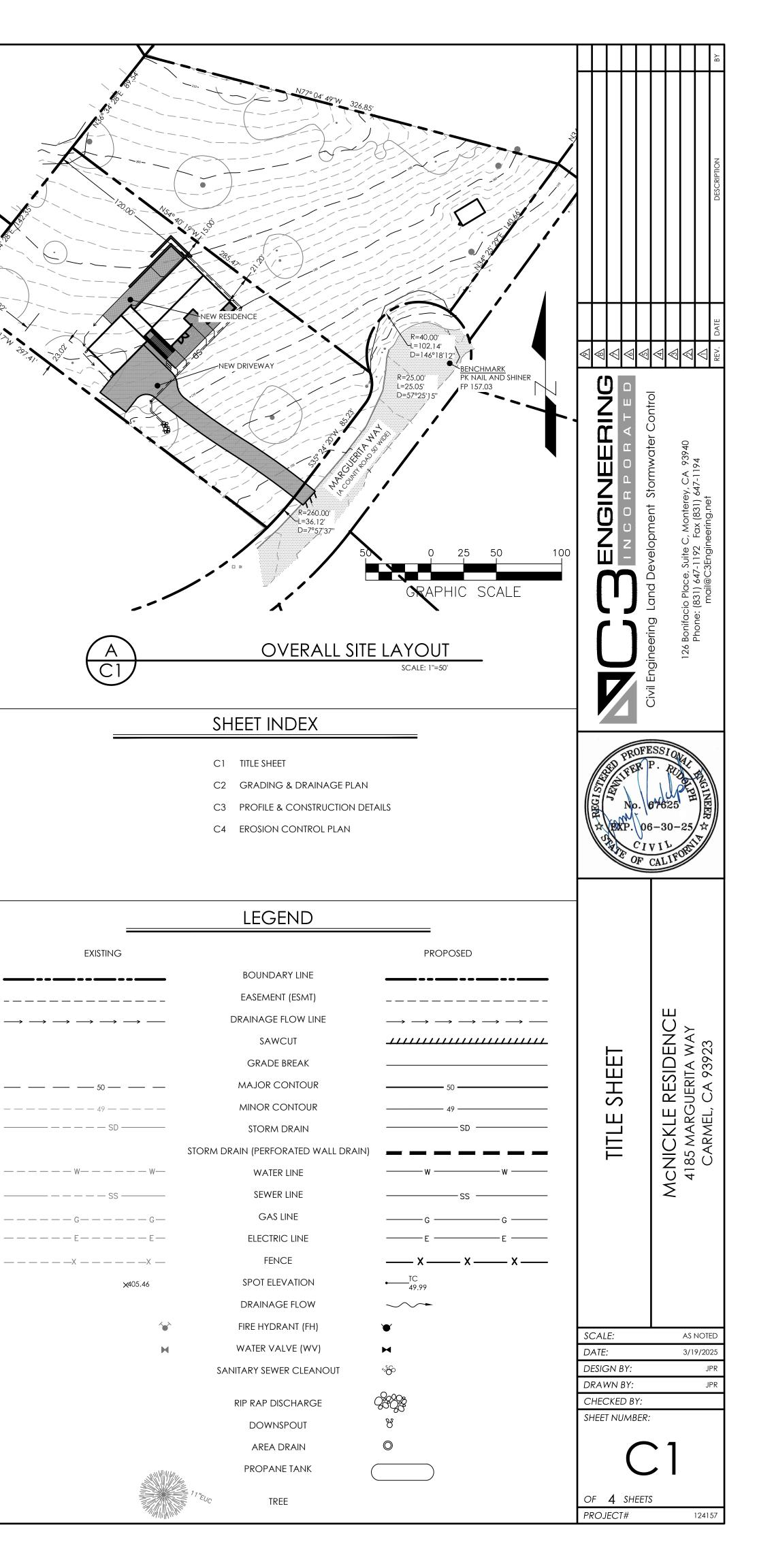
UNUSUAL CONDITIONS: IN THE EVENT THAT ANY UNUSUAL CONDITIONS ARE ENCOUNTERED DURING GRADING OPERATIONS WHICH ARE NOT COVERED BY THE SOIL INVESTIGATION OR THE SPECIFICATIONS, THE SOILS ENGINEER SHALL BE IMMEDIATELY NOTIFIED SUCH THAT ADDITIONAL RECOMMENDATIONS MAY BE MADE.

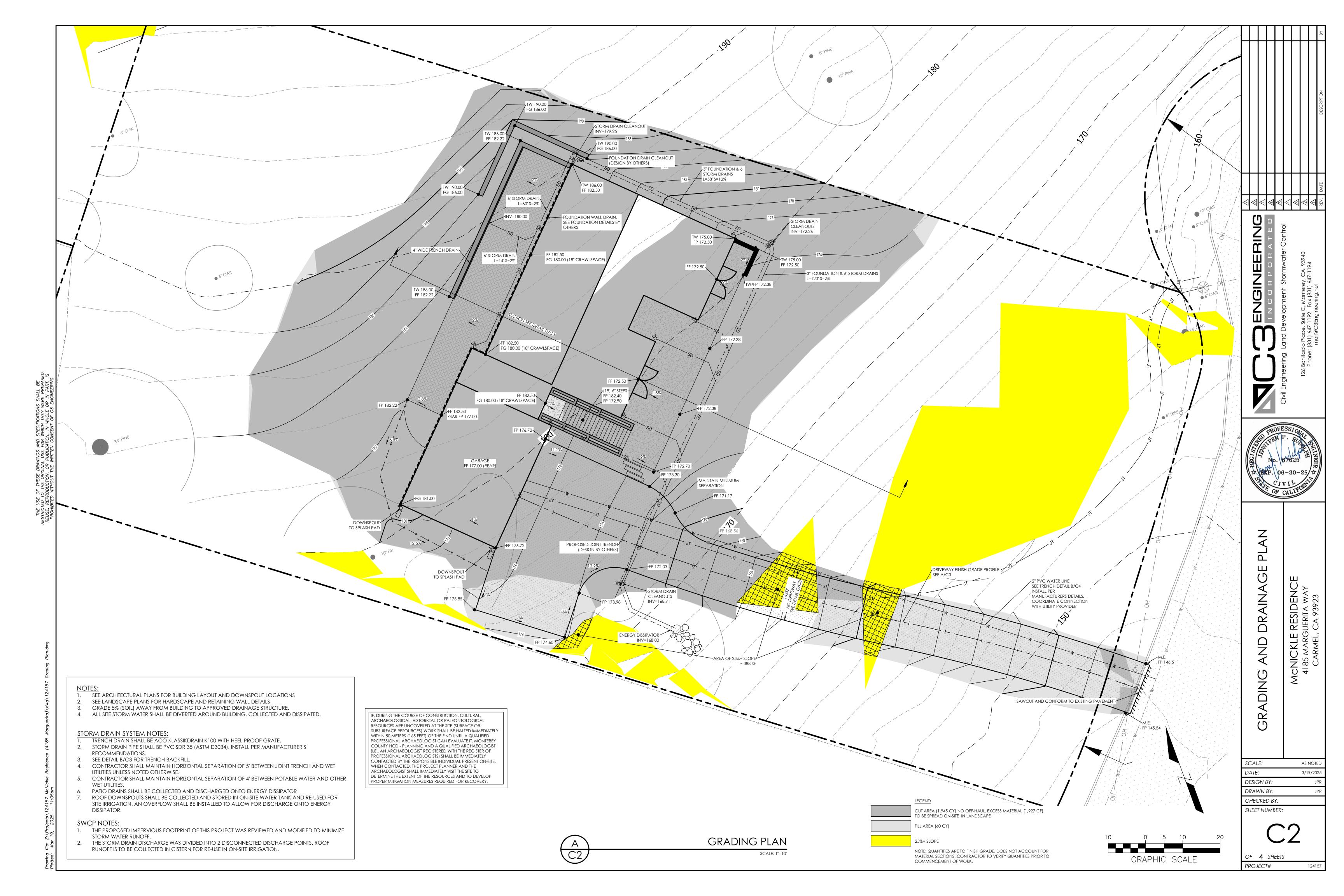
LAND DISTURBANCE

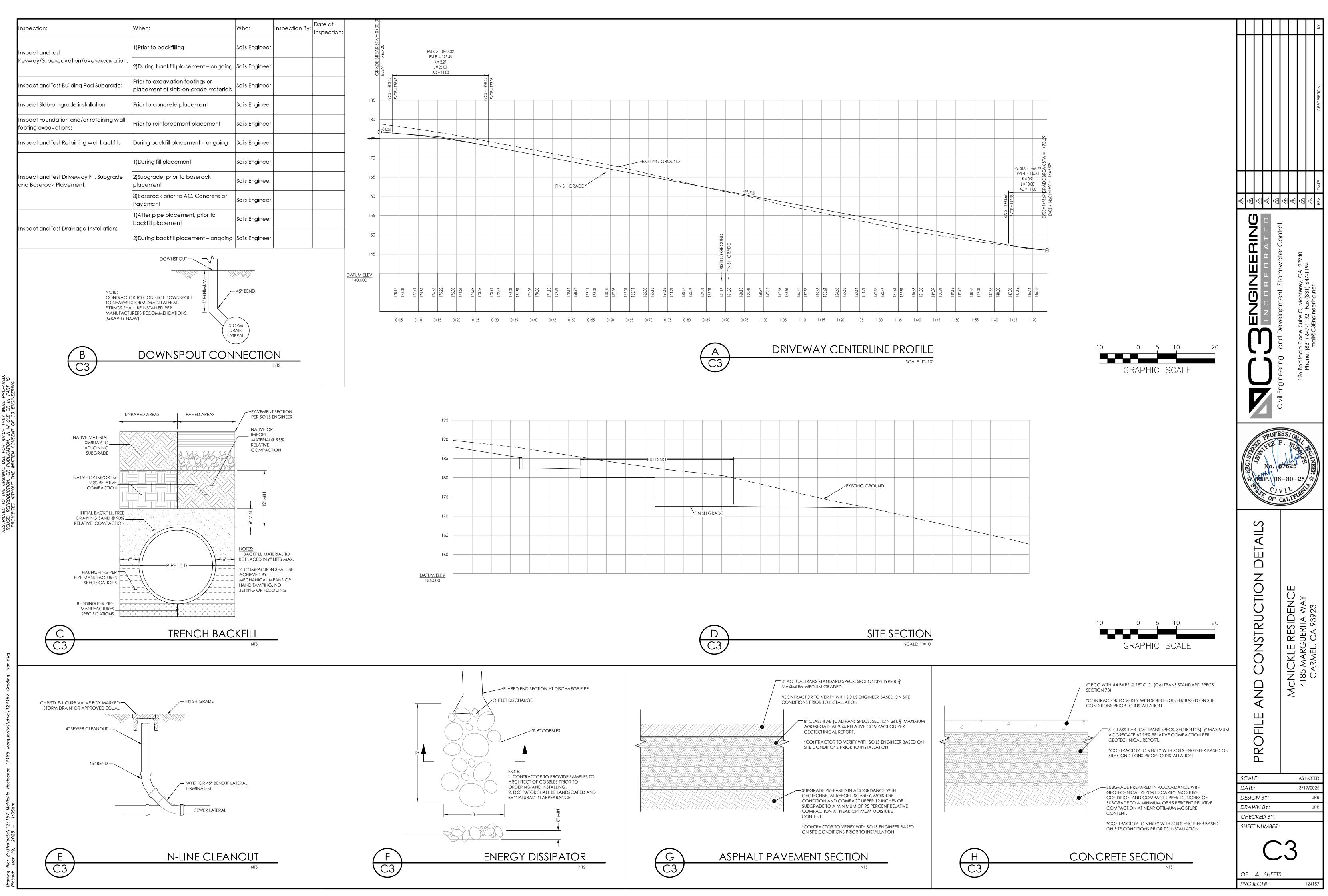
LAND DISTURBANCE AREA = 24,375 SF

VICINITY MAP









AND SPECIFICATIONS SHALL BE FOR WHICH THEY WERE PREPARED CATION, IN WHOLE OR IN PART, IS IN CONSENT OF C3 ENGINEERING. HESE DRAWINGS / E ORIGINAL USE | TION, OR PUBLIC OUT THE WRITTEN

GENERAL NOTES

THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PREVENT AIRBORNE DUST FROM BECOMING A NUISANCE O NEIGHBORING PROPERTIES. THE CONTRACTOR SHALL CONFORM TO THE STANDARDS FOR DUST-CONTROL AS ESTABLISHED BY THE AIR QUALITY MAINTENANCE DISTRICT. DUST CONTROL MEASURES TO BE IMPLEMENTED INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

A) PROVIDE EQUIPMENT AND MANPOWER REQUIRED FOR WATERING ALL EXPOSED OR DISTURBED EARTH. SUFFICIENT WATERING TO CONTROL DUST IS REQUIRED AT ALL TIMES.

3) COVER STOCKPILES OF DEBRIS, SOIL, OR OTHER MATERIALS WHICH MAY CONTRIBUTE TO AIRBORNE DUST. C) KEEP CONSTRUCTION AREAS AND ADJACENT STREET FREE OF MUD AND DUST

d) landscape, seed, or cover portions of the site as soon as construction is complete HE CONTRACTOR SHALL ASSUME LIABILITY FOR CLAIMS RELATED TO WIND BLOWN MATERIAL. IF THE DUST CONTROL IS INADEQUATE AS DETERMINED BY THE COUNTY, THE CONSTRUCTION WORK SHALL BE TERMINATED UNTIL CORRECTIVE MEASURES ARE TAKEN

2. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO KEEP STREETS AND ROADS FREE FROM DIRT AND DEBRIS. SHOULD ANY DIRT OR DEBRIS BE DEPOSITED IN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL REMOVE IT IMMEDIATELY.

3. ALL CUT AND FILL SLOPES EXPOSED DURING CONSTRUCTION SHALL BE COVERED, SEEDED OR OTHERWISE TREATED TO CONTROL EROSION WITHIN 48 HOURS AFTER GRADING. CONTRACTOR SHALL REVEGETATE SLOPES AND ALL DISTURBED AREAS THROUGH AN APPROVED PROCESS AS DETERMINED BY THE COUNTY. THIS MAY CONSIST OF EFFECTIVE PLANTING OF RYE GRASS, BARLEY OR SOME OTHER FAST GERMINATING SEED. 4. DURING WINTER OPERATIONS (BETWEEN OCTOBER 15 AND APRIL 15), THE FOLLOWING MEASURES MUST BE TAKEN:

A) VEGETATION REMOVAL SHALL NOT PRECEDE SUBSEQUENT GRADING OR CONSTRUCTION ACTIVITIES BY MORE THAN 15 DAYS. DURING THIS PERIOD, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE. DISTURBED SURFACES NOT INVOLVED IN THE IMMEDIATE OPERATIONS MUST BE PROTECTED BY MULCHING AND/OR OTHER EFFECTIVE MEANS OF SOIL PROTECTION B) ALL ROADS AND DRIVEWAYS SHALL HAVE DRAINAGE FACILITIES SUFFICIENT TO PREVENT EROSION ON OR ADJACENT

TO THE ROADWAY OR THE DOWNHILL PROPERTIES. C) RUN-OFF FROM THE SITE SHALL BE DETAINED OR FILTERED BY BERMS, VEGETATED FILTER STRIPS AND/OR CATCH BASINS TO PREVENT THE ESCAPE OF SEDIMENT FROM THE DISTURBED AREA OR SITE. THESE DRAINAGE CONTROL MEASURES MUST BE MAINTAINED BY THE CONTRACTOR AS NECESSARY TO ACHIEVE THEIR PURPOSE THROUGHOUT THE LIFE OF THE PROJECT. D) EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND IN PLACE AT THE END OF EACH DAY AND CONTINUOUSLY CHECKED THROUGHOUT THE LIFE OF THE PROJECT DURING WINTER OPERATIONS.

GONZALES GRADING/EROSION ORD. 2806-16.12.090) THE GRADING INSPECTOR MAY STOP OPERATIONS DURING PERIODS OF INCLEMENT WEATHER IF EROSION PROBLEMS ARE NOT BEING CONTROLLED ADEQUATELY.

5. IF VEGETATION REMOVAL TAKES PLACE PRIOR TO A GRADING OPERATION AND THE ACTUAL GRADING DOES NOT BEGIN WITHIN 30 DAYS FROM THE DATE OF REMOVAL, THEN THAT AREA SHALL BE PLANTED UNDER THE PROVISION OF SECTION 16.08.340 TO CONTROL EROSION. NO VEGETATION REMOVAL OR GRADING WILL BE ALLOWED WHICH WILL RESULT IN SILTATION OF WATER COURSES OR UNCONTROLLABLE EROSION.

6. ALL POLLUTANTS AND THEIR SOURCES, INCLUDING SOURCES OF SEDIMENT ASSOCIATED WITH CONSTRUCTION, CONSTRUCTION SITE EROSION AND ALL OTHER ACTIVITIES ASSOCIATED WITH CONSTRUCTION ACTIVITY ARE CONTROLLED 7. ALL NON-STORM WATER DISCHARGES ARE IDENTIFIED AND EITHER ELIMINATED, CONTROLLED, OR TREATED; 8. SITE BMPS ARE TO BE EFFECTIVE AND RESULT IN THE REDUCTION OR ELIMINATION OF POLLUTANTS IN STORM WATER DISCHARGES AND AUTHORIZED NON-STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITY

2. STABILIZATION BMPS INSTALLED TO REDUCE OR ELIMINATE POLLUTANTS AFTER CONSTRUCTION IS COMPLETED.). BEST MANAGEMENT PRACTICES (BMPS) TO BE IMPLEMENTED BY THE PROJECT ARE LISTED BY CATEGORY. FACT SHEETS, and details for the BMPS selected for this project, can be found in the casqa stormwater best MANAGEMENT PRACTICE HANDBOOK.

MONTEREY COUNTY INSPECTIONS

.PRIOR TO COMMENCEMENT OF LAND DISTURBANCE, THE OWNER/APPLICANT SHALL SCHEDULE AN INSPECTION WITH RMA-ENVIROMENTAL SERVICES TO ENSURE ALL NECESSARY SEDIUMENT CONTROLS ARE IN PLACE AND THE PROJECT IS COMPLIANT WITH MONTEREY COUNTY REGULATIONS.

2. DURING CONSTRUCTION, THE OWNER/APPLICANT SHALL SCHEDULE AN INSPECTION WITH RMA-ENVIRONMENTAL SERVICES TO INSPECT DRAINAGE DEVICE INSTALLATION, REVIEW THE MAINTENANCE AND EFFECTIVEMNESS OF BMPs NSTALLED, AND TO VERIFY THAT POLLUTANTS OF CONCERN ARE NOT DISCHARGED FROM THE SITE. AT THE TIME OF THE NSPECTION THE APPLICANT SHALL PROVIDE CERTIFICATION THAT ALL NECESSARY GEOTECHNICAL INSPECTIONS HAVE BEEN COMPLETED TO THAT POINT.

B. PRIOR TO FINAL INSPECTION, THE OWNER/APPLICANT SHALL SCHEDULE AN INSPECTION WITH RMA-ENVIRONMENTAL SERVICES TO ENSURE ALL DISTURBED AREAS HAVE BEEN STABILIZED AND ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES THAT ARE NO LONGER NEEDED HAVE BEEN REMOVED.

4. THE APPLICANT SHALL PROVIDE CERTIFICATION FROM A LICENSED PRACTITIONER THAT ALL DEVELOPMENT HAS BEEN CONSTRUCTION IN ACCRODANCE WITH THE RECOMEMENDATIONS IN THE PROJECT GEOTECHNICAL REPORT.

GOOD SITE MANAGEMENT "HOUSEKEEPING"

. POLLUTANTS IN STORM WATER DISCHARGES FROM THE PROJECT DURING CONSTRUCTION MAY ORIGINATE FROM THE DAILY OPERATION OF EQUIPMENT, GRADING OPERATIONS, AND STOCKPILING OF MATERIALS. -DISCHARGERS SHALL IMPLEMENT GOOD HOUSEKEEPING MEASURES ON THE CONSTRUCTION SITE TO CONTROL TH AIR DEPOSITION OF SITE MATERIALS AND FROM SITE OPERATIONS. SUCH PARTICULATES CAN INCLUDE, BUT ARE NOT LIMITED TO, SEDIMENT, NUTRIENTS, TRASH, METALS, BACTERIA, OIL AND GREASE AND ORGANICS.

WASTE MANAGEMENT POLLUTION CONTROL

. THE DISCHARGER SHALL PREVENT DISPOSAL OF ANY RINSE OR WASH WATERS OR MATERIALS ON IMPERVIOUS OR PERVIOUS SITE SURFACES OR INTO THE STORM DRAIN SYSTEM 2. THE DISCHARGER SHALL ENSURE THE CONTAINMENT OF SANITATION FACILITIES (E.G., PORTABLE TOILETS) TO PREVENT DISCHARGES OF POLLUTANTS TO THE STORM WATER DRAINAGE SYSTEM OR RECEIVING WATER. THE SANITATION FACILITIES SHALL BE CLEANED, REPLACED, AND INSPECTED REGULARLY FOR LEAKS AND SPILLS

3. WASTE DISPOSAL CONTAINERS SHALL BE COVERED AT THE END OF EVERY BUSINESS DAY AND DURING A RAIN EVENT. NO DISCHARGES FROM WASTE DISPOSAL CONTAINERS TO THE STORM WATER DRAINAGE SYSTEM OR RECEIVING WATER

Shall be allowed 4. STOCKPILED MATERIAL SHALL BE CONTAINED AND SECURELY PROTECTED FROM WIND AND RAIN AT ALL TIMES UNLESS ACTIVELY BEING USED.

5. PROCEDURES SHALL BE DEVELOPED THAT EFFECTIVELY ADDRESS HAZARDOUS AND NONHAZARDOUS SPILLS. EQUIPMENT AND MATERIALS FOR CLEANUP OF SPILLS SHALL BE AVAILABLE ON SITE. SPILLS AND LEAKS SHALL BE CLEANED UP MMEDIATELY AND DISPOSED OF PROPERLY.

6. CONCRETE WASHOUT AREAS SHALL BE CONTAINED SO THERE IS NO DISCHARGE INTO THE UNDERLYING SOIL AND ONTO HE SURROUNDING AREAS.

. DISCHARGER SHALL MAINTAIN VEHICLES TO PREVENT OIL, GREASE, OR FUEL TO LEAK IN TO THE GROUND, STORM DRAINS OR SURFACE WATERS. ALL EQUIPMENT OR VEHICLES SHALL BE FUELED, MAINTAINED AND STORED IN A DESIGNATED AREA FITTED WITH APPROPRIATE BMPS. LEAKS SHALL BE CLEANED IMMEDIATELY AND DISPOSED OF PROPERLY. 8. IN ADDITION TO THE ABOVE, THE PROJECT WILL IMPLEMENT THE FOLLOWING PRACTICES FOR EFFECTIVE WASTE MANAGEMENT POLLUTION CONTROL WHERE APPLICABLE: WM-1, MATERIAL DELIVERY AND STORAGE

WM-2, MATERIAL USE

WM-3, STOCKPILE MANAGEMENT

WM-4, SPILL PREVENTION AND CONTROL

- WM-5, SOLID WASTE MANAGEMENT WM-6, HAZARDOUS WASTE MANAGEMENT
- WM-7 CONTAMINATED SOIL MANAGEMENT

WM-8, CONCRETE WASTE MANAGEMENT WM-9, SANITARY/SEPTIC WASTE MANAGEMENT

WM-10, LIQUID WASTE MANAGEMENT

(SOURCE: STORMWATER BEST MANAGEMENT HANDBOOK)

9. THE CONTRACTOR SHALL REVIEW CONSTRUCTION ACTIVITIES TO IDENTIFY AND QUANTIFY LIKELY CONSTRUCTION MATERIALS AND WASTES. SPECIAL NOTICE SHALL BE MADE OF MATERIALS AND WASTES WITH SPECIAL HANDLING OR DISPOSAL REQUIREMENTS; SUCH AS LEAD CONTAMINATED SOILS, CONCRETE SAW-CUTTING LIQUIDS, WASTE CHEMICALS AND EMPTY CHEMICAL CONTAINERS. THE CONTRACTOR SHALL FOLLOW ALL MANUFACTURERS' STORAGE AND HANDLING RECOMMENDATIONS AND FOLLOW ALL FEDERAL, STATE, AND LOCAL REGULATIONS. WHERE POSSIBLE, CONTRACTOR SHALL USE SAFER AND LESS POLLUTING PRODUCTS.

EROSION CONTROL (SOIL STABILIZATION)

1. SUFFICIENT EROSION CONTROL MATERIALS WILL BE MAINTAINED ON-SITE TO ALLOW FOR IMMEDIATE DEPLOYMENT BEFORE THE ONSET OF RAIN.

2. DISCHARGERS SHALL PROVIDE EFFECTIVE SOIL COVERS FOR INACTIVE AREAS (MORE THAN 14 DAYS UN-DISTURBED) AND ALL FINISHED SLOPES, OPEN SPACE, UTILITY BACKFILL, AND COMPLETED LOTS. 3. DISCHARGERS SHALL LIMIT THE USE OF PLASTIC MATERIALS WHEN MORE SUSTAINABLE, ENVIRONMENTALLY FRIENDLY ALTERNATIVES EXIST. WHERE PLASTIC MATERIALS ARE DEEMED NECESSARY, THE DISCHARGER SHALL CONSIDER THE USE OF

PLASTIC MATERIALS RESISTANT TO SOLAR DEGRADATION. 4. IN ADDITION TO THE ABOVE, THE PROJECT WILL IMPLEMENT THE FOLLOWING PRACTICES FOR EFFECTIVE TEMPORARY AND FINAL EROSION CONTROL DURING CONSTRUCTION WHERE APPLICABLE:

- EC-1, SCHEDULING EC-2, PRESERVATION OF EXISTING VEGETATION
- EC-3, HYDRAULIC MULCH
- EC-4, HYDROSEEDING
- EC-5, SOIL BINDERS EC-6, STRAW MULCH
- EC-7, GEOTEXTILES AND MATS
- EC-8, WOOD MULCHING
- EC-9, EARTH DIKES AND DRAINAGE SWALES EC-10, VELOCITY DISSIPATION DEVICES
- EC-11, SLOPE DRAINS
- EC-12, STREAMBANK STABILIZATION
- EC-13, POLYACRYLAMIDE
- (SOURCE: STORMWATER BEST MANAGEMENT HANDBOOK)

5. SPECIAL CARE SHALL BE TAKEN SO THAT NO FILL MATERIALS SHALL BE PLACED, SPREAD, OR ROLLED DURING JNFAVORABLE WEATHER CONDITIONS.

SEDIMENT CONTROL

DURATION OF THE PROJECT, TO ALLOW IMPLEMENTATION OF TEMPORARY SEDIMENT CONTROLS IN THE EVENT OF PREDICTED RAIN AND FOR RAPID RESPONSE TO FAILURES OR EMERGENCIES. ENTRANCES AND EXITS TO SUFFICIENTLY CONTROL EROSION AND SEDIMENT DISCHARGES FROM THE SITE. 3. DISCHARGERS SHALL EFFECTIVELY MANAGE ALL RUN-ON, ALL RUNOFF WITHIN THE SITE AND ALL RUNOFF THAT COLLECTIVELY BE IN COMPLIANCE WITH THE EFFLUENT LIMITATION OF THIS PERMIT. THE GRADE BREAKS OF EXPOSED SLOPES.

ENTRANCES AND EXITS THAT EMPLOY EFFECTIVE CONTROLS TO PREVENT OFFSITE TRACKING OF SEDIMENT. FROM ACTIVITIES THAT REDUCE THEIR EFFECTIVENESS. 7. DISCHARGERS SHALL INSPECT ON A DAILY BASIS ALL IMMEDIATE ACCESS ROADS DAILY.

OR SWFFPING

AND FINAL SEDIMENT CONTROL DURING CONSTRUCTION WHERE APPLICABLE: SE-1. SILT FENCE SE-2, SEDIMENT BASIN

- SE-3, SEDIMENT TRAP
- SE-4, CHECK DAMS
- SE-5, FIBER ROLLS SE-6, GRAVEL BAG BERM
- SE-7, STREET SWEEPING AND VACUUMING
- SE-8, SANDBAG BARRIER SE-9, STRAW BALE BARRIER
- SE-10, STORM DRAIN INLET PROTECTION

SE-11, CHEMICAL TREATMENT (SOURCE: STORMWATER BEST MANAGEMENT HANDBOOK)

TRACKING CONTROL

TRACK SEDIMENT FROM THE CONSTRUCTION SITE ONTO PUBLIC OR PRIVATE ROADWAYS. CONSTRUCTION WHERE APPLICABLE: TC-1, STABILIZED CONSTRUCTION ENTRANCE/EXIT TC-2, STABILIZED CONSTRUCTION ROADWAY TC-3, ENTRANCE/OUTLET TIRE WASH (SOURCE: STORMWATER BEST MANAGEMENT HANDBOOK)

WIND EROSION CONTROL

WIND CONTROLS IS TO PREVENT THE TRANSPORT OF SOIL FROM DISTURBED AREAS OF THE PROJECT SITE BY WIND. DURING CONSTRUCTION WHERE APPLICABLE: WE-1, WIND EROSION CONTROL (SOURCE: STORMWATER BEST MANAGEMENT HANDBOOK)

NON-STORMWATER MANAGEMENT POLLUTION CONTROL

THAN STORM WATER).

- CONSTRUCTION. 3. DISCHARGERS SHALL WASH VEHICLES IN SUCH A MANNER AS TO PREVENT NON-STORM WATER DISCHARGES.
- 4. DISCHARGERS SHALL CLEAN STREETS IN SUCH A MANNER AS TO PREVENT UNAUTHORIZED NON-STORM WATER DISCHARGES
- NON-STORMWATER MANAGEMENT POLLUTION CONTROL WHERE APPLICABLE:
- NS-1, WATER CONSERVATION PRACTICES NS-2. DEWATERING OPERATIONS
- NS-3, PAVING AND GRINDING OPERATIONS
- NS-4, TEMPORARY STREAM CROSSING NS-5, CLEAR WATER DIVERSION
- NS-6, ILLICIT CONNECTION/ILLEGAL DISCHARGE DETECTION AND REPORTING
- NS-7, POTABLE WATER / IRRIGATION
- NS-8, VEHICLE AND EQUIPMENT CLEANING NS-9, VEHICLE AND EQUIPMENT FUELING
- NS-10, VEHICLE AND EQUIPMENT MAINTENANCE
- NS-11, PILE DRIVING OPERATIONS
- NS-12, CONCRETE CURING
- NS-13, MATERIALS AND EQUIPMENT USE OVER WATER NS-14, CONCRETE FINISHING
- NS-15, STRUCTURE DEMOLITION/REMOVAL
- NS-16, TEMPORARY BATCH PLANTS (SOURCE: STORMWATER BEST MANAGEMENT HANDBOOK)

WHEN THE INSPECTOR SO DIRECTS AS THE WORK PROGRESSES 2. EROSION CONTROL FACILITIES SHALL BE MAINTAINED THESE FACILITIES SHALL CONTROL AND CONTAIN

ENGINEER (OCTOBER 15 TO APRIL 15).

STORM WATER QUALITY MEASURES & IMPLEMENT SUCH MEASURES. FAILURE TO COMPLY WITH THE APPROVED

TRACKED ONTO PUBLIC STREETS SHALL BE REMOVED THE SAME DAY AS REQUIRED BY THE COUNTY ENGINEER.

TO BE MAINTAINED SO AS TO MINIMIZE SEDIMENT RUNOFF TO ANY STORM DRAIN SYSTEM. DURING PERIODS WHEN STORMS ARE FORECAST: A. EXCAVATED SOILS SHOULD NOT BE PLACED IN STREETS OR ON PAVED AREAS. B. ANY EXCAVATED SOILS SHOULD BE REMOVED FROM THE SITE BY THE END OF THE DAY.

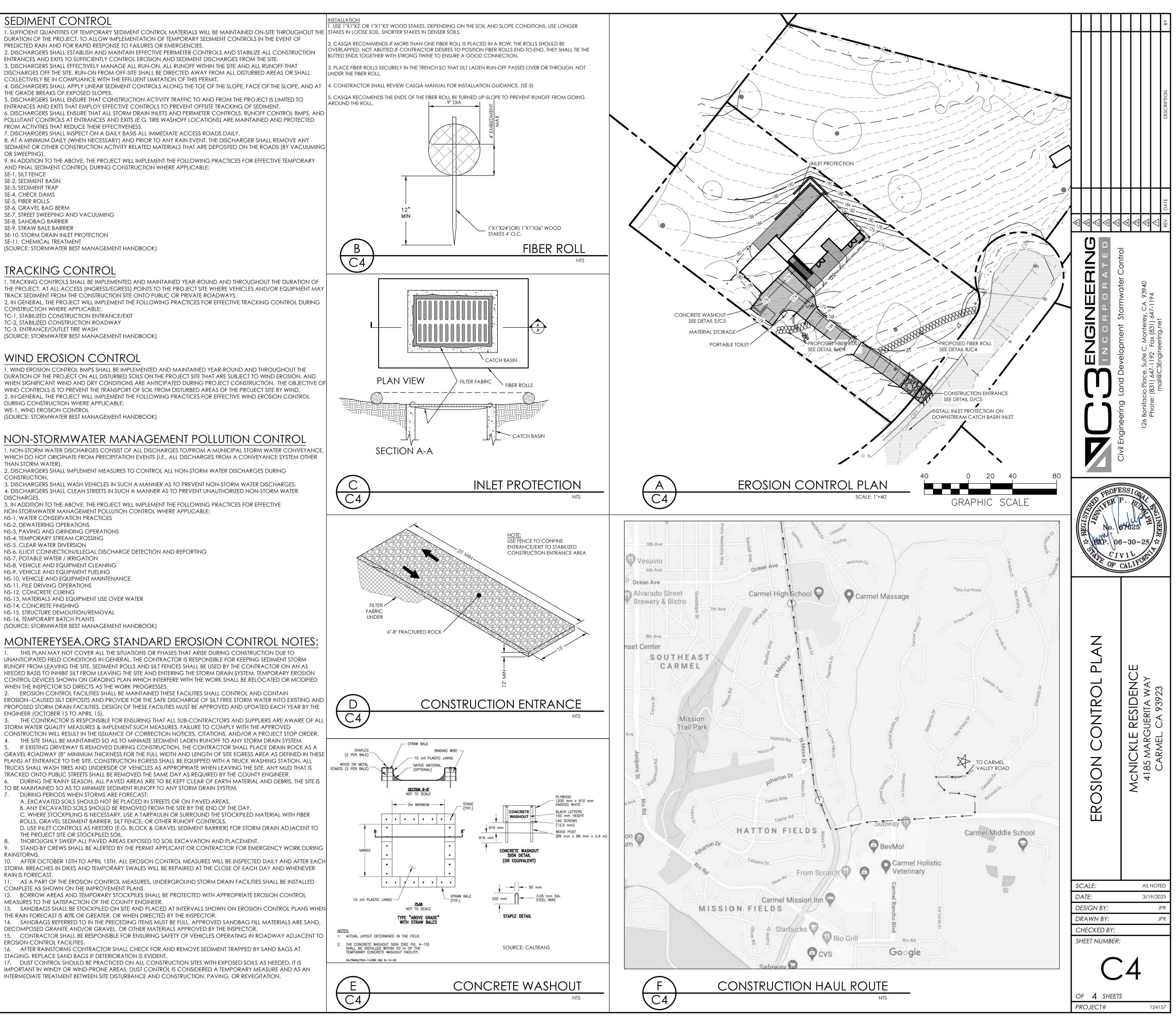
- ROLLS, GRAVEL SEDIMENT BARRIER, SILT FENCE, OR OTHER RUNOFF CONTROLS. THE PROJECT SITE OR STOCKPILED SOIL
- RAINSTORMS.

RAIN IS FORECAST.

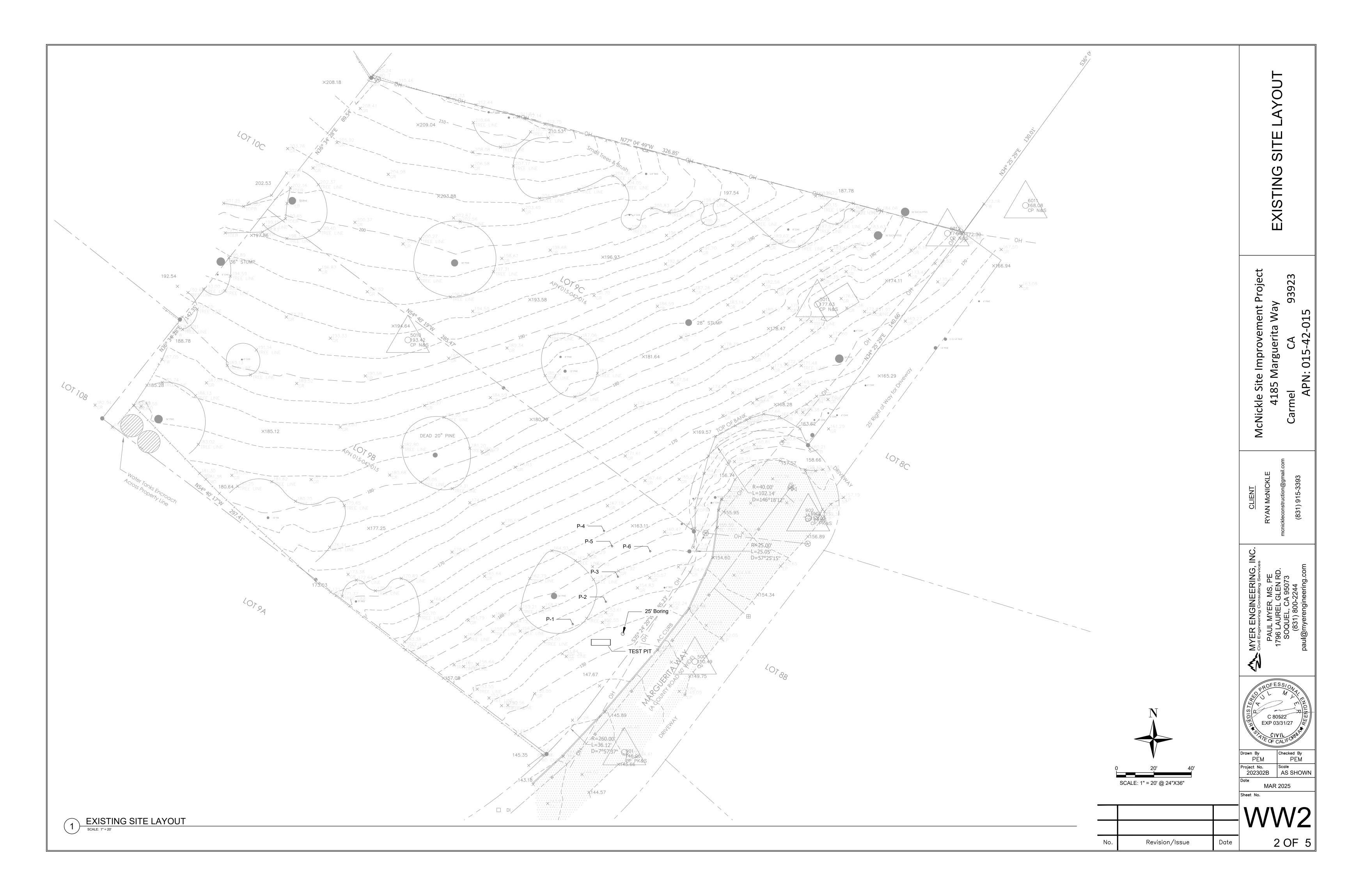
COMPLETE AS SHOWN ON THE IMPROVEMENT PLANS. 12. BORROW AREAS AND TEMPORARY STOCKPILES SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTROL MEASURES TO THE SATISFACTION OF THE COUNTY ENGINEER. THE RAIN FORECAST IS 40% OR GREATER, OR WHEN DIRECTED BY THE INSPECTOR DECOMPOSED GRANITE AND/OR GRAVEL, OR OTHER MATERIALS APPROVED BY THE INSPECTOR.

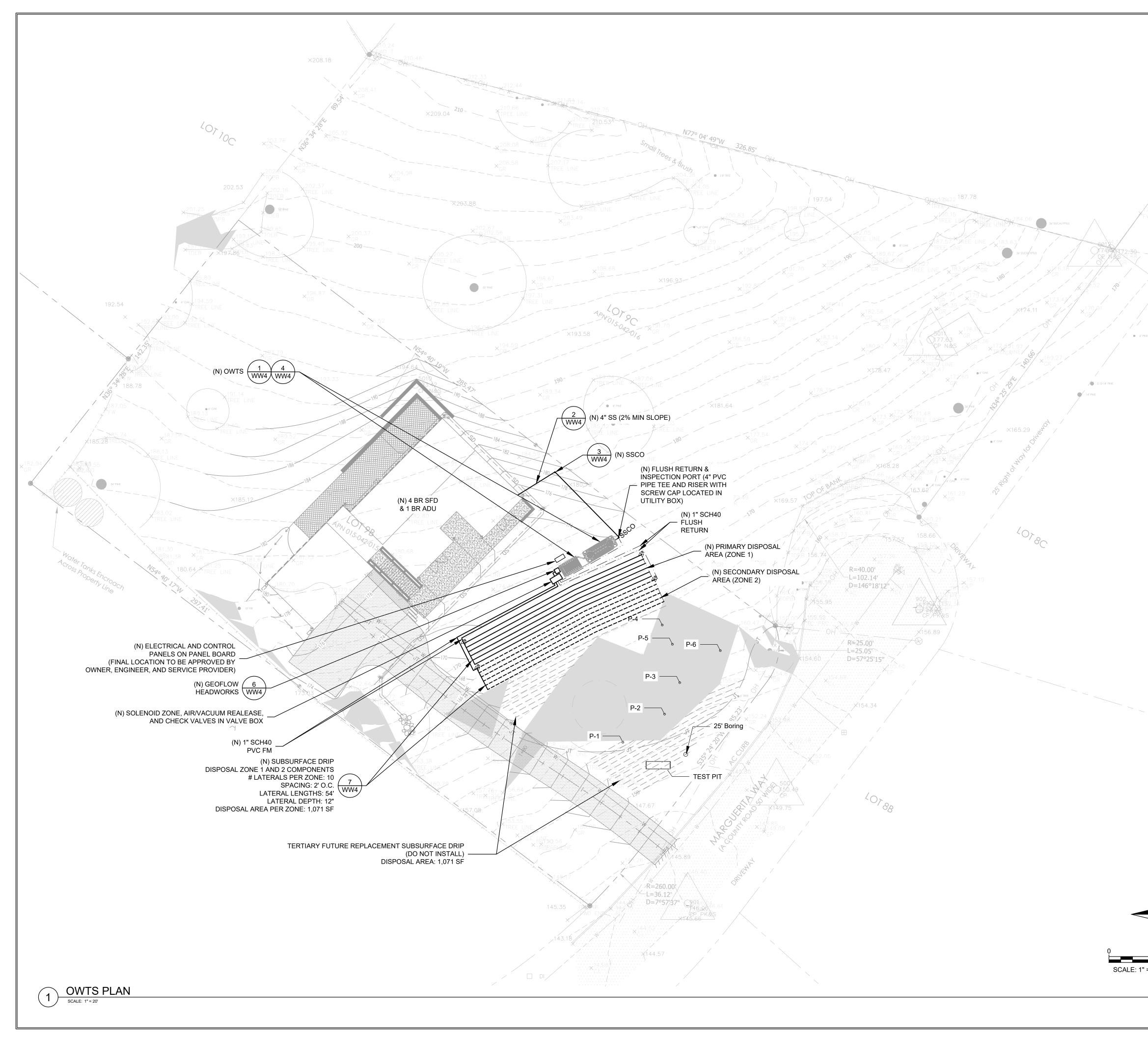
EROSION CONTROL FACILITIES.

STAGING. REPLACE SAND BAGS IF DETERIORATION IS EVIDENT. 17. DUST CONTROL SHOULD BE PRACTICED ON ALL CONSTRUCTION SITES WITH EXPOSED SOILS AS NEEDED. IT IS INTERMEDIATE TREATMENT BETWEEN SITE DISTURBANCE AND CONSTRUCTION, PAVING, OR REVEGITATION.

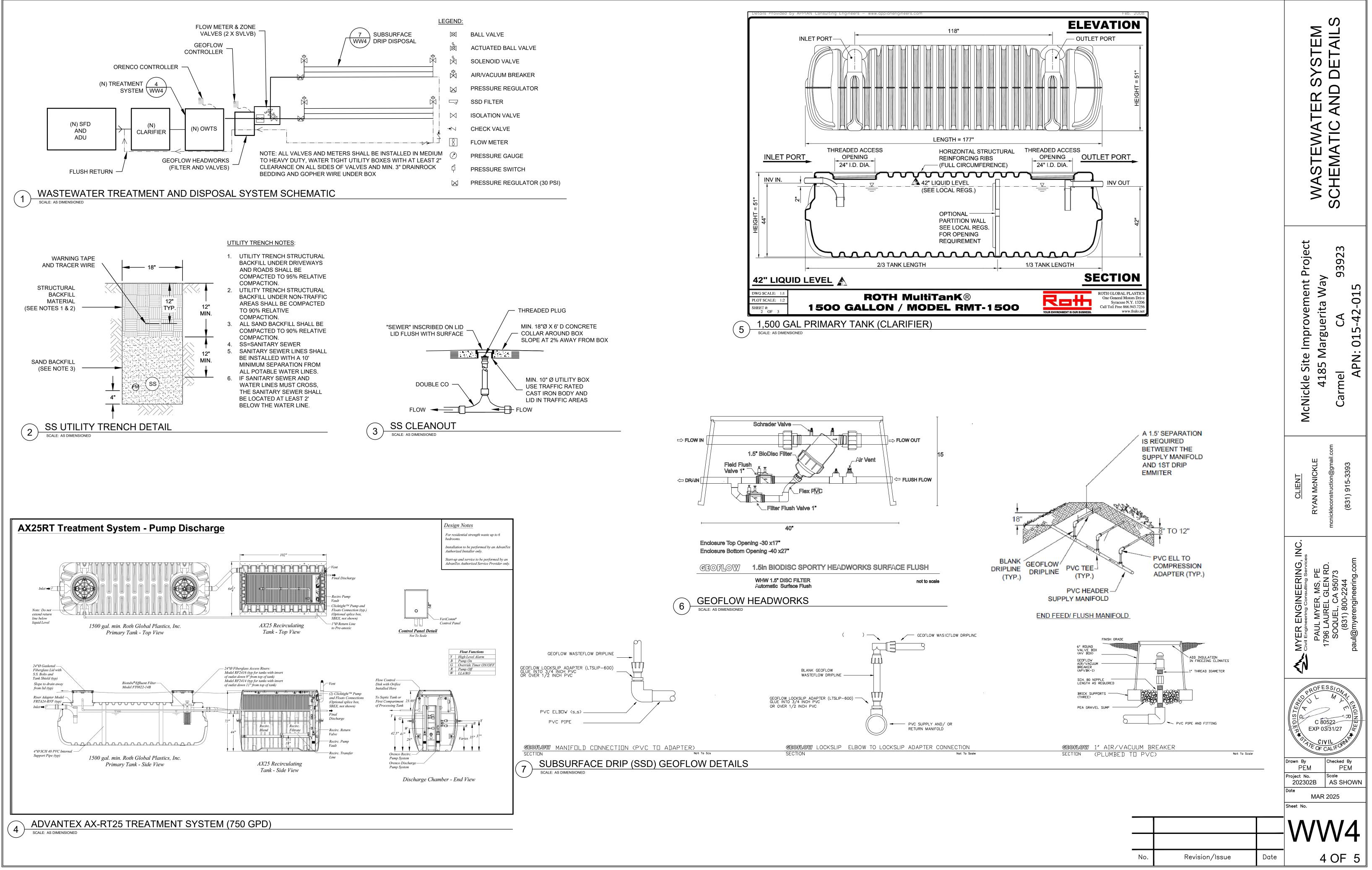


ABBREVIATIONS		CIVIL SYM	CIVIL SYMBOLS LEGEND		
DIAMETER	MAX MAXIMUM MEP MECHANICAL/ELECTRICAL/PLUMBING	SURVEY TOPO AND SITE IMPROVEMENTS	ANNOTATION	1. ABBREVIATIONS AND SYMBOLS ON THIS SHEET APPLY ONLY TO THE	
AGGREGATE BASE ABANDONED	MEP MECHANICAL/ELECTRICAL/PLUMBING MH MANHOLE MIN MINIMUM	6" CURB & GUTTER SDLO STORM DRAIN CLEANO		 CIVIL DRAWINGS, REFER TO OTHER DISCIPLINES FOR APPLICABLE ABBREVIATIONS AND SYMBOLS NOT PROVIDED HERE. THIS IS A STANDARD ABBREVIATION AND LEGEND SHEET, THEREFORE, 	
ACRE, ASPHALT CONCRETE ASBESTOS CEMENT PIPE	MIPT MALE IRON PIPE THREAD	EDGE OF AC PAVEMENT		SOMEABBREVIATIONS AND LEGEND SYMBOLS MAY APPEAR ON THIS	
ASBESTOS CONTAINING MATERIAL	MJ MECHANICAL JOINT MPVC MIDPOINT OF VERTICAL CURVE		1 DEMOLITION NOTE	SHEET AND MAY NOT BE UTILIZED ON THIS PROJECT. 3. DO NOT SCALE DRAWINGS.	
AREA DRAIN AGGREGATE	MON MONUMENT		RIC DETAIL NUMBER SECTION LETTER	 ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE CURRENTLY REQUIRED VERSION OF THE FOLLOWING CODE: 	
ALIGNMENT AIR RELEASE VALVE	N NORTHING COORDINATE (N) NEW	DOMESTIC WATER MAIN HVE HIGH VOLTAGE ELECT		4.1. CALIFORNIA BUILDING CODE 4.2. CALIFORNIA PLUMBING CODE	
AGGREGATE SUBBASE ASPHALT	NC NORMALLY CLOSED NIC NOT IN CONTRACT	E ELECTRIC LINE TELEPHONE MANHOLI	$\frac{1}{(C-501)}$	4.3. CALIFORNIA MECHANICAL CODE 4.4. CALIFORNIA ELECTRICAL CODE	
BEGIN CURVE	NO NUMBER	FL FLUSH LINE Ø POWER POLE	SHEET NUMBER ON WHICH	4.5. ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND	
BEGIN	NTS NOT TO SCALE	FM FORCE MAIN C-GUY WIRE & ANCHOR	DETAIL APPEARS SECTION APPEARS	ORDINANCES 5. NOTHING ON THE ENCLOSED DRAWINGS IS TO BE CONSTRUED AS	
BACK FLOW PREVENTER BUILDING CORNER	OHE OVERHEAD ELECTRIC	G GAS LINE JP JOINT POLE	DETAIL INDICATOR SECTION INDICATOR	REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE CODES, ORDINANCES, OR REGULATIONS DESCRIBED ABOVE.	
BUILDING BEST MANAGEMENT PRACTICES	O.R. OFFICIAL RECORDS		SITE VICINITY	6. ANY DEVIATIONS FROM THE PROPOSED PLANS SHALL BE DISCUSSED WITH THE PROJECT ENGINEER PRIOR TO MAKING CHANGES IN THE	
BOTTOM OF DOCK BOLLARD	(P) PROPOSED P PAVEMENT ELEVATION		VILLAGE	FIELD.	
BACK OF SIDEWALK BEGIN VERTICAL CURVE	PA PLANTER AREA PB PULL BOX				
FINISHED GRADE AT BOTTOM OF WALL	PCC POINT OF COMPOUND CURVATURE PORTLAND CEMENT CONCRETE		PEBBLE BEACH	INDEX	
CONCRETE OR CIVIL	PE PLAIN END		JACK S PEAK Jacks		
CATCH BASIN CURB AND GUTTER	PED PEDESTRIAN PERF PERFORATED		Reak Park		ct
CURB, GUTTER & SIDEWALK CAST IRON OR CURB INLET	PH POTHOLE PID POINT ID		CARMEL	WASTEWATER SHEETS)je
CAST IRON PIPE CENTERLINE	PIV POST INDICATOR VALVE PL PROPERTY LINE			NO. SHEET TITLE	
CLEAR CONTROLLED LOW-STRENGTH MATERIAL	PM PARKING METER PMH POWER MANHOLE	SL STREET LIGHT CONDUIT SL STREET LIGHT PULLBO			it F
COMMUNICATION	PO PUSH-ON	C — C TELECOMMUNICATIONS SIGN (AS NOTED)		1 WW 1 COVER SHEET	len l
CORRUGATED METAL PIPE	POC POINT ON CURVE POI POINT OF INTERSECTION	TEL TELEPHONE LINE > THRUST BLOCK	Hacienda Carmel	2 WW 2 EXISTING SITE LAYOUT	
ONCRETE	PP POWER POLE PRC POINT OF REVERSE CURVATURE	TELEVISION LINE CAP	PROJECT		
CONFORM TO EXISTING CITY OF SANTA CLARA	PRV PRESSURE REDUCING VALVE PRUE PRIVATE UTILITY EASEMENT		SITE	3 WW 3 WASTEWATER SYSTEM PLAN	brc
CUBIC CUBIC YARD	PT POINT OF TANGENCY PUE PUBLIC UTILITY EASEMENT	UGE UNDERGROUND ELECTRIC BUTTERFLY VALVE	Sea Lion Point 🧿	WASTEWATER SYSTEM SCHEMATIC AND	
	PVC POLYVINYL CHLORIDE PIPE	TRENCH DRAIN //// DEMO	Point Lobos State Natural	4 WW 4 DETAILS	e
DELTA (CURVE) DOUBLE CHECK DETECTOR ASSEMBLY	R RIGHT		Reserve	5 WW 5 WASTEWATER SYSTEM SPECIFICATIONS	Sit
DEMOLISH DEPARTMENT	R= RADIUS (CURVE) RC RELATIVE COMPACTION		SITE LOCATION	(AND EROSION CONTROL NOTES)	<u> </u>
DETAIL DROP INLET, DUCTILE IRON	RCP REINFORCED CONCRETE PIPE RJ RESTRAINED JOINT		SHELUGATION		ick
DIAMETER DUCTILE IRON PIPE	RP RADIUS POINT RPBFP REDUCED PRESSURE BACKFLOW PREVENTER				I X
DOMESTIC DOMESTIC WATER	RPPA R EDUCED PRESSURE PRINCIPLE ASSEMBLY	FLOW LINE ACTUATED BALL VALV		PROJECT DESIGN AND OPERATION NOTES	۲ ۲
DOMESTIC WATER	RSC RECEIVING AND SUPPORT CENTER RW RECYCLED WATER	# CONTOUR ELEVATION LINE 🕅 SOLENOID VALVE	\square \square \square \square \square \square \square	DESIGN FLOWS, VOLUMES, AND TREATMENT	
EASTING COORDINATE, ELECTRIC	R/W, ROW RIGHT OF WAY	CENTER LINE	R PROJECT/	FACILITY TYPE: RESIDENTIAL UNIT FLOW BASIS: # OF BEDROOMS	
END CURVE EXISTING GRADE	S SOUTH, SLOPE S.A.D. SEE ARCHITECTURAL DRAWINGS	PROPERTY LINE PRESSURE REGULATO		# OF UNITS: NEW 4 BEDROOM SFD AND FUTURE 1 BEDROOM ADU DESIGN FLOWS: 750 GPD	
ELEVATION	SD STORM DRAIN SDCB STORM DRAIN CATCH BASIN	— · · · — MONUMENT LINE SSD FILTER		TREATMENT CATEGORY: ENHANCED/ALTERNATIVE TREATMENT SYSTEM: ORENCO ADVANTEX AXRT25	<pre>//E</pre>
EDGE OF PAVEMENT EMERGENCY VEHICLE ACCESS	SDED STORM DRAIN CATCH DAGIN SDI STORM DRAIN INLET SDMH STORM DRAIN MANHOLE	EASEMENT LINE ISOLATION VALVE		WASTEWATER STRENGTH: DOMESTIC RESIDENTIAL STRENGTH DOMESTIC STRENGTH DEFINITION: <220 MG/L BOD, <60 MG/L TSS, <60 MG/L TN	
EMERGENCY VEHICLE ACCESS EXISTING	SDCO STORM DRAIN CLEANOUT	$- \frac{TC 24.52}{FG}$ FINISH GRADE $\rightarrow N$ CHECK VALVE		SOIL TESTING RESULTS AND DISPOSAL DESIGN	Wet HEI
	S.E.D. SEE ELECTRICAL DRAWINGS SF SILT FENCE	2.0% SURFACE DRAINAGE SLOPE SLOPE FLOW METER	And the second	SITE 1: 4215 MARGUERITA WAY, CARMEL, CA APN: 015-42-015 (LOT 9B)	VAN C
FUTURE FIRE ALARM	SG SUBGRADE SHLDR SHOULDER			MYER ENGINEERING OBSERVED THE SOIL CHARACTERISTICS OF A TEST PIT EXCAVATED TO A DEPTH OF 13' BELOW CROUND LEVEL (BGL) AND A SOIL BORING DRILLED TO A DEPTH OF 25' BGL. THE LOCATION OF THE	Ry
FACE OF CURB FOUND	SHT SHEET SL STREETLIGHT		N	BELOW GROUND LEVEL (BGL) AND A SOIL BORING DRILLED TO A DEPTH OF 25' BGL. THE LOCATION OF THE TEST PIT AND BORING ARE PROVIDED ON THE PROJECT DESIGN PLANS. THE FOLLOWING SOIL PROFILE WAS OBSERVED:	
FIRE DEPARTMENT CONNECTION FINISHED FLOOR ELEVATION	S.L.D. SEE LANDSCAPE DRAWINGS SMH SIGNAL MANHOLE		The second se	OBSERVED: 0'- 2' BGL: BLACK FINE SANDY LOAM 2'- 4.5' BGL: DARK GREY CLAY W/ SCATTERED CHERT/ SHALE FRAGMENTS	
FINISH GRADE	S.M.D SEE MECHANICAL DRAWINGS	— — — LIMIT OF WORK/GRADING		4.5'- 9' BGL: REDDISH BROWN SANDY CLAY 9'- 13' BGL: VERY DENSE GREY SANDY CLAY W/ CHERT/SHALE	
FIRE HYDRANT FEMALE IRON PIPE THREAD	S.P.D SEE PLUMBING DRAWINGS SS SANITARY SEWER			13'- 25' BGL: DENSE ORE FOR DENSE SANDY SHALE GROUNDWATER WAS NOT ENCOUNTERED AND GROUNDWATER INDICATORS WERE NOT PRESENT.	
ELOW LINE, FLANGE FLANGE	S.S.D. SEE STRUCTURAL DRAWINGS SSD SUBSURFACE DRIP	GM GAS METER	Carmel Valley Rd [313]	TEST HOLE #1 (P-1): DEPTH = 2', RATE = 5.0 MPI	PE PE
FLOWMETER/FORCE MAIN	SSCO SANITARY SEWER CLEANOUT SSFM SANITARY SEWER FORCE MAIN	GAS VALVE	- [516] Ca	TEST HOLE #2 (P-2): DEPTH = 1.5', RATE = 2.7 MPI TEST HOLE #3 (P-3): DEPTH = 2.5', RATE = 21.8 MPI	AS, utting
FINISHED SURFACE	SSPM SANITARY SEWER FORCE MAIN SSMH SANITARY SEWER MANHOLE SSPS SANITARY SEWER PUMP STATION		PROJECT DESCRIPTION	TEST HOLE #4 (P-4): DEPTH = 1.5', RATE = 8.6 MPI TEST HOLE #5 (P-5): DEPTH = 1.5', RATE = 1.3 MPI	
TRE WATER	STA STATION	W WATER VALVE		TEST HOLE #6 (P-6): DEPTH = 1.5', RATE = 60 MPI OVERALL AVERAGE STABILIZED RATE = 16.6 MPI	
GAS, GROUND ELEVATION	STD STANDARD STL STEEL	WATER METER OR BFP	GENERAL: NEW OWTS	SEE SHEETS WW3 AND WW4 FOR SYSTEM SIZING CALCULATIONS AND DETAILS	
GRADE BREAK GALVANIZED IRON	S/W SIDEWALK SVP SILICON VALLEY POWER		BASIS: NEW SFD	WATER SUPPLY: PUBLIC	
GROUND GATE VALVE	T TELEPHONE	FIRE DEPARTMENT CONNECTION		OWNER IS RESPONSIBLE FOR GENERAL OPERATION AND MAINTENANCE OF THE WASTEWATER SYSTEM	
OT MIX ASPHALT	TC TOP OF CURB TD TRENCH DRAIN			THE SEPTIC/WASTEWATER SYSTEM SHALL BE INSTALLED BY A QUALIFIED PROFESSIONAL.	21
ORIZONTAL	TEL TELEPHONE	WATER TAPPING SADDLE			< N
IEIGHT IIGH POINT	TEMP TEMPORARY TFC TOP FACE OF CURB	SSMH SEWER MANHOLE			OF
IVERT	THK THICK TOD TOP OF DOCK	© SEWER CLEANOUT			498. L
INSTALL RRIGATION	TOE TOE OF SLOPE TW,TOW TOP OF WALL	O SEWER LAMP HOLE			THE A
OINT POLE	TS TOP OF SLAB				S C
OINT POLE OINT TRENCH		STORM DRAIN MANHOLE			THE EXP
EFT	UON UNLESS OTHERWISE NOTED U/G UNDERGROUND	SDMH CB CATCH BASIN			STATE OF
ENGTH (CURVE) INEAR FEET	VC VERTICAL CURVE				Drawn By
ATERAL IP OF GUTTER	W WEST, WATER				PÉM
LIGHT POLE, LOW POINT TIRE HYDRANT	WM WATER METER				Project No. 202302B
ANDSCAPE	WVWATER VALVEWWFWELDED WIRE FABRIC				Date
	W/ WITH				Sheet No.
MEDICAL AIR	YDS YARDS				
					└── \/\/ \





73.18 0H ×167.50				OWTS PLAN
x163.08 x163.08 EXAMPLE 16 Second	Definitions: 1. Day = 2 2. Lateral = 3. Run = n		EQUALLY)	McNickle Site Improvement Project 4185 Marguerita Way Carmel CA 93923 APN: 015-42-015
 1 select number of zones 1,071 ft², each zone 536 ft, dripline run length per zone No drip lateral length >10% (shortest to longer and the second second				CLIENT RYAN McNICKLE mcnickleconstruction@gmail.com (831) 915-3393
	-	i cýcie)		MYER ENGINEERING, INC. Civil Engineering Consulting Services PAUL MYER, MS, PE 1796 LAUREL GLEN RD. SOQUEL, CA 95073 (831) 800-2244 paul@myerengineering.com
N 20' 40'				Drawn By PEM PEM PEM Project No. 202302B Sheet No.
= 20' @ 24"X36"		Revision/Issue	Date	WW3 3 OF 5



GENERAL SPECIFICATIONS

THE FOLLOWING SPECIFICATIONS ARE FOR THE INSTALLATION OF THE ENHANCED WASTEWATER TREATMENT SYSTEM AT THE LOCATION SPECIFIED IN THE BORDER OF THESE DESIGN PLANS. THE ACCOMPANIED PLANS PRESENT THE GENERAL LAYOUT, PLUMBING CONFIGURATION, AND CONSTRUCTION DETAILS.

MATERIAL SPECIFICATIONS

THE FOLLOWING ARE MATERIAL SPECIFICATIONS FOR THE WASTEWATER SYSTEM COMPONENTS. ALL MATERIALS USED FOR THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS AND AS DESCRIBED IN THE ACCOMPANIED PLANS OR AN ENGINEER APPROVED EQUIVALENT.

- 1. SUBSURFACE TANKS
- ALL SUBSURFACE TANKS SHALL MEET THE FOLLOWING SPECIFICATIONS:.
- 1.1. DIMENSIONS, FITTING SIZES AND LOCATIONS, AND OPTIONAL ACCESSORIES SHALL BE INCLUDED AS SHOWN ON TANK DRAWINGS. THE TANK SHALL BE WATERTIGHT AND TESTED IN THE FIELD AFTER INSTALLATION.
- 1.2. PRODUCT STORAGE. THE SUBSURFACE TANKS SHALL BE CAPABLE OF STORING SEPTAGE LIMITED TO THE COLLECTION AND STORAGE OF HUMAN SOLID OR LIQUID ORGANIC WASTE.
- 1.3. PIPING. SDR35 PVC PIPE, SCHEDULE 40 PVC PIPE, OR ABS PIPE SHALL BE USED FOR INLET AND OUTLET PIPING AS SHOWN ON DRAWINGS. ALL PIPING SHALL BE FACTORY SEALED TO ENABLE FIELD TIGHTNESS TESTING WITH AT LEAST ONE PIPE OPENING PROVIDED WITH A THREADED FITTING FOR CONNECTING A PRESSURE TEST MANIFOLD.
- 1.4. ACCESS OPENINGS. ALL ACCESS OPENINGS SHALL BE 30 INCHES IN DIAMETER OR LARGER AS SHOWN ON THE PLANS, SHALL BE MANUFACTURED OF FIBERGLASS, CONCRETE OR CAST IRON WITH RESPECT TO SPECIFIED TRAFFIC RATING. LOCATIONS SHALL BE AS SHOWN ON TANK DRAWINGS. EACH MANHOLE SHALL HAVE A WATERTIGHT RISER TO FINISH GRADE.
- 1.5. RISERS. RISERS SHALL BE REQUIRED FOR ACCESS TO INTERNAL VAULTS AND ACCESS INTO THE TANKS FOR SEPTAGE PUMPING. ALL RISERS SHALL BE CONSTRUCTED WITH WATERTIGHT SEALS PROVIDED. RISERS SHALL BE A MINIMUM OF 30" IN NOMINAL DIAMETER WHEN THE DEPTH OF BURY IS 36" OR GREATER. TO ENSURE PRODUCT COMPATIBILITY, RISERS, LIDS, AND ATTACHMENT COMPONENTS SHALL BE SUPPLIED BY A SINGLE MANUFACTURER AND, WHERE APPLICABLE, SHALL BE FACTORY EQUIPPED WITH THE FOLLOWING:
 - 1.5.1. ADHESIVE. WHEN BONDING TO THE RISER RINGS, AN EPOXY PROVIDED BY THE MANUFACTURER SHALL BE USED. ADHESIVES AND SEALANTS SHALL BE WATERPROOF, CORROSION RESISTANT, AND APPROVED FOR THE INTENDED APPLICATION. THE RISER-TO-TANK CONNECTION SHALL BE WATERTIGHT AND STRUCTURALLY SOUND. THE RISER-TO-TANK CONNECTION SHALL BE CAPABLE OF WITHSTANDING A VERTICAL UPLIFT OF 5,000 POUNDS TO PREVENT RISER SEPARATION DUE TO TANK SETTLEMENT, FROST HEAVE, AND VEHICLE TRAFFIC OVER THE TANK.
 - 1.5.2. LIDS. ONE LID SHALL BE FURNISHED WITH EACH ACCESS RISER. LIDS SHALL BE WATERPROOF, CORROSION RESISTANT, AND UV RESISTANT. LIDS SHALL BE FLAT, WITH NO NOTICEABLE UPWARD DOME. LIDS SHALL NOT ALLOW WATER TO POND ON THEM. LIDS SHALL FORM A WATERTIGHT SEAL WITH THE TOP OF RISER. TRAFFIC-RATED LIDS SHALL BE CAPABLE OF WITHSTANDING A TRUCK WHEEL LOAD (36 SQUARE INCHES) OF 2500 POUNDS FOR 60 MINUTES WITH A MAXIMUM VERTICAL DEFLECTION OF 1-1/2". LIDS SHALL BE PROVIDED WITH TAMPER-RESISTANT STAINLESS STEEL FASTENERS AND A TOOL FOR FASTENER REMOVAL. TAMPER-RESISTANT FASTENERS INCLUDE RECESSED DRIVES, SUCH AS HEX, TORX, AND SQUARE. FASTENERS THAT CAN BE REMOVED WITH COMMON SCREWDRIVERS, SUCH AS SLOTTED AND PHILLIPS, OR FASTENERS THAT CAN BE REMOVED WITH STANDARD TOOLS, SUCH AS PLIERS OR CRESCENT WRENCHES, ARE NOT CONSIDERED TAMPER-RESISTANT. TO PREVENT A TRIPPING HAZARD, FASTENERS SHALL NOT EXTEND ABOVE THE SURFACE OF THE LID.
 - 1.5.3. RISER INSTALLATION. RISER INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

2. PIPING AND FITTINGS

THE TYPE OF PIPE MATERIALS AND FITTINGS SHALL BE AS DESIGNATED ON THE PLANS AND SHALL COMPLY WITH THE FOLLOWING:

2.1. FITTINGS AND COUPLINGS THE FITTINGS AND COUPLINGS FOR PVC PIPES SHALL BE THREADED OR SLIP-FITTED TAPERED SOCKET SOLVENT WELD. THREADED ADAPTERS SHALL BE PROVIDED WITH SOCKET PIPE FOR CONNECTIONS TO THREADED PIPE.

VALVES

3.1. GENERAL VALVES SHALL BE OF THE SIZE, TYPE, AND CAPACITY DESIGNATED ON THE PLANS OR IN THE SPECIFICATIONS AND SHALL COMPLY WITH THE REQUIREMENTS SPECIFIED HEREIN. ALL VALVES ON PRESSURIZED PORTIONS OF THE SYSTEM SHALL BE CAPABLE OF SATISFACTORY PERFORMANCE AT WORKING PRESSURE OF 150 PSI. ALL VALVES ON GRAVITY PORTIONS OF THE SYSTEM SHALL BE RATED FOR AT LEAST TWICE THE ESTIMATED STATIC HEAD ABOVE THE VALVE. VALVES SHALL BE DESIGNED TO PERMIT DISASSEMBLY TO REPLACE SEALING COMPONENTS WITHOUT REMOVAL OF THE VALVE BODY FROM THE PIPELINE, SUCH AS TRUE UNION BALL VALVES AND CHECK VALVES.

4. PUMP SYSTEMS

ALL PUMP SYSTEMS SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS. IF THERE IS A CONFLICT BETWEEN MANUFACTURER RECOMMENDATIONS, AND THE DESIGN PLANS, THE PROJECT ENGINEER SHALL BE CONTACTED FOR APPROVAL OF INSTALLATION CONFIGURATION.

5. ADDITIONAL COMPONENTS

ALL COMPONENTS SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS. IF THERE IS A CONFLICT BETWEEN MANUFACTURER RECOMMENDATIONS, AND THE DESIGN PLANS, THE PROJECT ENGINEER SHALL BE CONTACTED FOR APPROVAL OF INSTALLATION CONFIGURATION.

6. SUBSURFACE DRIP SYSTEM

THE SUBSURFACE DRIP SYSTEM SHALL PROVIDE ADDITIONAL TREATMENT AND DISPOSAL OF THE WASTEWATER. THE SYSTEM SHALL BE CONSTRUCTED PER MANUFACTURER RECOMMENDATIONS AND AS SHOWN ON PLANS.

6.1. SOIL COVER

THE SOIL COVER (CAP) SHALL BE PLACED OVER THE MOUND SYSTEM TO PROVIDE A SUBSTRATE FOR VEGETATION AND REDUCE EROSION CONTROL. THE SOIL SHALL BE A SANDY LOAM TO INCREASE THE POTENTIAL FOR AIR THROUGH THE DEPTH OF THE SOIL.

CONSTRUCTION SPECIFICATIONS

THE CONSTRUCTION OF THE PROJECT SHALL CONFORM TO THE PLANS AND FOLLOWING SPECIFICATIONS. ALL NECESSARY CONSTRUCTION PERMITS SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF ALL SITE WORK.

1. PRECONSTRUCTION CONFERENCE

THE CONTRACTOR SHALL HAVE A PRECONSTRUCTION MEETING WITH THE ENGINEER AND OWNER AT LEAST ONE WEEK PRIOR TO COMMENCEMENT OF SITE WORK. THE ENGINEER SHALL BE CONTACTED 48 HOURS PRIOR TO THE MEETING CONFERENCE. THE MEETING SHOULD BE CONDUCTED TO REVIEW THE DESIGN, MATERIAL, AND CONSTRUCTION SPECIFICATIONS. ALL CONTRACTOR PROPOSED REVISIONS IN THE DESIGN SHALL BE APPROVED BY THE ENGINEER. THE INSTALLATION MUST BE INSPECTED BY THE ENGINEER FOR CONFORMANCE TO THE DESIGN.

2. STAKING

THE CONTRACTOR WILL PROVIDE SUFFICIENT HORIZONTAL AND VERTICAL CONTROL FOR INSTALLATION OF THE WORK AT DATUM POINTS NECESSARY TO ESTABLISH ALIGNMENT AND GRADE. THE PROTECTION AND CARE OF THE STAKES ONCE SET, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

3. EXCAVATION

ALL EXCAVATION WORK SHALL BE MADE TO THE LINES, GRADES AND DIMENSIONS SHOWN IN THE ACCOMPANIED PLANS. EXCAVATIONS SHALL BE PERFORMED IN THE DAY AND IN A MANNER THAT MINIMIZES EROSION, FLOODING AND SEDIMENTATION. EXCAVATED SOILS THAT ARE TO BE STOCKPILED ON-SITE SHALL BE PLACED IN A LOCATION AND MANNER THAT MINIMIZES EROSION AND CONTROLS SEDIMENTATION.

THE CONTRACTOR SHALL TAKE EXTRA PRECAUTION WHERE EXCAVATION EQUIPMENT MAY ENCOUNTER EXISTING UNDERGROUND UTILITIES AND OTHER FACILITIES OF ANY NATURE. CONTRACTOR SHALL PERSON HIS OPERATION IN SUCH A MANNER AND SHALL EXERCISE THE GREATEST OF CARE SO AS NOT TO INJURE IN ANY MANNER EXISTING UNDERGROUND UTILITIES, MAINS OR FACILITIES OF ANY NATURE. SHOULD THE CONTRACTOR INJURE, BREAK OR DAMAGE EXISTING UNDERGROUND UTILITIES, MAINS, OR FACILITIES OF ANY NATURE IN ANY MANNER, THEY SHALL REPAIR THE SAME AT THEIR OWN EXPENSE. IF IT DOES NOT APPEAR FEASIBLE THAT THE CONTRACTOR CAN MAKE NEEDED REPAIRS, THEN SUCH REPAIRS SHALL BE MADE BY THE OWNER AND THE CONTRACTOR SHALL BE CHARGED FOR SUCH REPAIRS.

4. POLLUTION CONTROL

4.1. WATER POLLUTION

4.2. NOISE POLLUTION CONSTRUCTION ACTIVITIES, AS LOW AS POSSIBLE.

4.3. SOIL CONTAMINATION

4.4. STORAGE OF REGULATED MATERIALS MATERIALS ON AND OFF THE PROJECT SITE.

SITE WORK

5.1. MOBILIZATION THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PREPARATORY WORK AND PLACEMENT OF MATERIALS IN A STAGING AREA REQUIRED FOR CONSTRUCTION OPERATIONS INCLUDING, BUT NOT LIMITED TO, THOSE NECESSARY FOR THE MOVEMENT OF PERSONNEL, EQUIPMENT, SUPPLIES, AND INCIDENTALS TO THE PROJECT SITE; FOR THE ESTABLISHMENT OF FACILITIES NECESSARY FOR WORK ON THE PROJECT; PROVIDING POLLUTION CONTROL MEASURES; AND FOR ALL OTHER WORK AND OPERATIONS WHICH MUST BE PERFORMED.

APPROVAL OF THE COUNTY.

5.2. CLEARING AND GRUBBING CLEAR THE SITE AS SHOWN ON THE DRAWINGS AND AS SPECIFIED IN THIS SECTION. CLEARING AND GRUBBING SHALL CONSIST OF ALL WORK INCLUDING, BUT NOT LIMITED TO, SALVAGED MATERIALS REMOVAL PROVIDING AND INSTALLING TEMPORARY EROSION CONTROL, AND PLACEMENT OF TREES, TREE BRANCHES, TREE STUMPS, BRUSH, ROOTS, BOULDERS, SHRUBS, SEDIMENT, AND ALL OBJECTIONABLE MATERIALS IN AN AGREED UPON LOCATION ADJACENT TO THE WORK SITE.

PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.

ALL WASTES DISPOSAL SHALL BE CONDUCTED AS FOLLOWS: A. REMOVE WASTE FROM CLEARING OPERATIONS. B. DISPOSE OF AWAY FROM THE SITE IN A LEGAL MANNER. C. DO NOT STORE OR PERMIT DEBRIS TO ACCUMULATE ON THE JOB SITE.

D. DO NOT BURN DEBRIS AT THE SITE.

6. DELETERIOUS MATERIALS

MATERIALS CONTAINING AN EXCESS OF 5% (BY WEIGHT) OF VEGETATION OR OTHER DELETERIOUS MATTER MAY BE UTILIZED IN AREAS OF LANDSCAPING OR OTHER NON-STRUCTURAL FILLS. DELETERIOUS MATERIAL INCLUDES ALL VEGETATIVE AND NON-MINERAL MATTER, AND ALL NON-REDUCIBLE STONE, RUBBLE AND/OR MINERAL MATTER OF GREATER THAN 6 INCHES.

7. UTILITY TRENCHES

A. A SELECT, NONCORROSIVE, GRANULAR, EASILY COMPACTED MATERIAL SHOULD BE USED AS BEDDING AND SHADING IMMEDIATELY AROUND UTILITY PIPES. THE SITE SOILS MAY BE USED FOR TRENCH BACKFILL ABOVE THE SELECT MATERIAL. IF OBTAINING COMPACTION IS DIFFICULT WITH THE SITE SOILS. USE OF A MORE EASILY COMPACTED SAND MAY BE DESIRABLE. THE UPPER FOOT OF BACKFILL IN LANDSCAPED OR OTHER OPEN AREAS SHOULD CONSIST OF NATIVE MATERIAL TO REDUCE THE

POTENTIAL FOR SEEPAGE OF WATER INTO THE BACKFILL.

8. PIPE INSTALLATION

8.1. GENERAL PIPE SHALL BE JOINED BY SOCKET TYPE SOLVENT-WELDED FITTINGS OR THREADED FITTINGS. PLASTIC PIPE SHALL BE CUT SQUARE, EXTERNALLY CHAMFERED APPROXIMATELY 10 TO 15 DEGREES, AND ALL BURRS AND FINS REMOVED. SOLVENT-WELDED JOINTS SHALL BE MADE IN ACCORDANCE WITH ASTM D 2855. THE SOLVENT RECOMMENDED BY THE MANUFACTURER SHALL BE USED.

THE MANUFACTURER.

THREADED PIPE JOINTS SHALL BE MADE USING TEFLON TAPE OR OTHER APPROVED JOINTING MATERIAL. SOLVENT SHALL NOT BE USED WITH THREADED JOINTS. PLASTIC PIPE WHICH HAS BEEN NICKED, SCARRED, OR OTHERWISE DAMAGED SHALL BE REMOVED AND REPLACED. PLASTIC PIPE SHALL BE SNAKED FROM SIDE TO SIDE IN THE TRENCH TO ALLOW 1 FOOT OF EXPANSION AND CONTRACTION PER 100 FEET OF STRAIGHT RUN THE PIPELINE SHALL NOT BE EXPOSED TO WATER FOR 24 HOURS AFTER THE LAST SOLVENT-WELDED JOINT

IS MADE. 8.2 GRAVITY PIPE

WATER LINES, AND SHALL CROSS SUCH LINES AS NEARLY AS POSSIBLE TO 90 DEGREES, IF CROSSING CAN NOT BE AVOIDED.

CLOSE TO PARALLEL AS POSSIBLE, BUT IN NO WAY TO EXCEED AN ANGLE OF 45°. 90° TEE CONNECTIONS ARE NOT ALLOWED.

8.3 GENERAL TRENCHING

BACKFILL FOR THE PIPE TO THE TOP OF THE PIPE PLUS 4 INCHES SHALL BE SELECTED OR IMPORTED SANDY MATERIAL, FREE OF STONE, CLAY, LIMBS OR OTHER DELETERIOUS MATERIALS IN EXCESS OF 1/2 INCH

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL PERMITTING REQUIREMENTS RELEVANT TO THE CONSTRUCTION OF THE PROJECT ARE MET AT ALL TIMES. ACTIONS BY THE CONTRACTOR, THE SUBCONTRACTORS OR EMPLOYEES THEREOF RESULTING IN NONCOMPLIANCE OF PERMITTING REQUIREMENTS MAY BE GROUNDS FOR TERMINATION OF THIS CONTRACT.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO KEEP NOISE POLLUTION, DUE TO THESE

THE CONTRACTOR SHALL NOT ALLOW REGULATED MATERIALS TO SPILL ON THE PROJECT SITE. ANY SPILLAGE OR REGULATED MATERIALS RESULTING FROM THE CONTRACTOR'S OPERATION SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

THE STORAGE AND USE OF ANY REGULATED MATERIALS SHALL MEET ALL REQUIREMENTS OF LOCAL, STATE, AND FEDERAL REGULATORY AGENCIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SATISFY THE REQUIREMENTS OF ANY REGULATORY AGENCY FOR THE STORAGE, MONITORING, USAGE, TRANSPORTATION, SAFETY, REPORTING, OR ANY OTHER REQUIREMENTS REGARDING THE MANAGEMENT OF REGULATED

THE CONTRACTOR SHALL PROVIDE MATERIALS, NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR PROPER COMPLETION OF THE WORK OF THIS SECTION, AS SELECTED BY THE CONTRACTOR SUBJECT TO THE

EXAMINE THE AREAS AND CONDITIONS UNDER WHICH THE WORK OF THIS SECTION WILL BE PERFORMED. CORRECT CONDITIONS DETRIMENTAL TO TIMELY AND PROPER COMPLETION OF THE WORK. DO NOT

TRENCH BACKFILL IN THE UPPER 12 INCHES OF SUBGRADE BENEATH AREAS TO RECEIVE PAVEMENT SHOULD BE COMPACTED TO A MINIMUM OF 95 PERCENT OF MAXIMUM DRY DENSITY. TRENCH BACKFILL IN OTHER AREAS SHOULD BE COMPACTED TO A MINIMUM OF 90 PERCENT OF MAXIMUM DRY DENSITY. JETTING OF UTILITY TRENCH BACKFILL SHOULD NOT BE ALLOWED.

CARE SHALL BE EXERCISED IN ASSEMBLING A PIPELINE WITH SOLVENT WELDED JOINTS SO THAT STRESS ON PREVIOUSLY MADE JOINTS IS AVOIDED. HANDLING OF THE PIPES FOLLOWING JOINTING, SUCH AS LOWERING THE ASSEMBLED PIPELINE INTO THE TRENCH, SHALL NOT OCCUR PRIOR TO THE SET TIMES SPECIFIED BY

SOLVENTS SHALL BE APPLIED TO PIPE ENDS IN SUCH A MANNER THAT NO MATERIAL IS DEPOSITED ON THE INTERIOR SURFACE OF THE PIPE OR EXTRUDED INTO THE INTERIOR OF THE PIPE DURING JOINTING. EXCESS CEMENT ON THE EXTERIOR OF THE JOINT SHALL BE WIPED CLEAN IMMEDIATELY AFTER ASSEMBLY.

GRAVITY PIPE FOR WASTEWATER SHALL PROVIDE 2 FT VERTICAL AND 10 FT HORIZONTAL CLEARANCE FROM

PIPE SLOPES SHALL NOT BE LESS THAN 2% FOR 4"Ø PIPE. PIPES SHALL ENTER AND LEAVE CONNECTIONS AS

EXCAVATION OF PIPE TRENCHES SHALL FOLLOW NEAT AND PARALLEL LINES, WITH TRENCH WIDTH, IN GENERAL, TO BE ONE FOOT, WITH SUCH WIDENING, AS REQUIRED TO PLACE VALVES AND FITTINGS WITH A MINIMUM OF 4 INCH CLEARANCE TO TRENCH WALL. THE TRENCH SHALL BE NO LESS THAN 24 INCHES DEEP. EXCEPT WHEN IT IS NECESSARY, TO AVOID UNDERGROUND OBSTRUCTIONS OR ROCKY CONDITIONS. IN ALL CASES, THE PIPE SHALL BE PLACED ON A BEDDING OF IMPORTED OR NATIVE MATERIAL PROVIDING CONTINUOUS SUPPORT THROUGHOUT ITS LENGTH.

MAXIMUM DIMENSION, PLACED AND TAMPED AND/OR PADDLED ABOUT THE PIPE TO ENSURE PROPER BEDDING PRIOR TO COMPLETION OF TRENCH FILL. THE REMAINING BACKFILL SHALL BE PLACED AT 90% RELATIVE COMPACTION.

9. FLUSHING AND TESTING

AFTER COMPLETION, ALL PIPELINES SHALL BE THOROUGHLY FLUSHED TO REMOVE DIRT, SCALE, OR OTHER MATERIAL. AFTER FLUSHING, THE LINE SHALL BE PRESSURE TESTED. ALL EQUIPMENT, MATERIALS AND LABOR NECESSARY TO PERFORM THE TESTS SHALL BE FURNISHED BY THE CONTRACTOR AND ALL TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE OWNER OR ENGINEER.

THE CONTRACTOR SHALL PERFORM A TEST TO DEMONSTRATE THAT THE TANKS AND BASINS ARE WATER TIGHT. THE INLET AND OUTLET PIPES OF THE TANKS SHALL BE CAPPED AND THE TANKS SHALL BE COMPLETELY FILLED WITH WATER. THE WATER LEVEL SHALL REMAIN CONSTANT FOR MORE THAN 24 HOURS, OR DURATION BY THE REVIEWING AGENCY JURISDICTION, WHICHEVER IS GREATER, TO DETERMINE IF IT IS WATER TIGHT.

10. OPERATIONAL TEST

THE PERFORMANCE OF ALL COMPONENTS OF THE SYSTEMS SHALL BE EVALUATED BY THE CONTRACTOR.

DURING THE TEST PERIOD AND AT LEAST 15 DAYS PRIOR TO FINAL INSPECTION, THE SYSTEM SHALL OPERATE SATISFACTORILY DURING SUCH PERIOD. ALL NECESSARY REPAIRS, REPLACEMENTS, AND ADJUSTMENTS SHALL BE MADE UNTIL ALL EQUIPMENT, ELECTRICAL WORK, CONTROLS, AND INSTRUMENTATION ARE FUNCTIONING IN ACCORDANCE WITH THE CONTRACTORS DOCUMENTS OR MANUFACTURER SPECIFICATIONS.

11. AS-BUILT DRAWINGS

THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A SET OF AS-BUILT DRAWINGS OF THE LAYOUT AND CONSTRUCTION OF THE SYSTEM.

12. OTHER ITEMS

ANY PROCEDURES NOT NOTED OR INCLUDED IN THE ENGINEERING PLANS OR SPECIFICATIONS SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR TO IMPLEMENTATION.

EROSION CONTROL NOTES: GENERAL. THE CONTRACTOR SHALL INSTALL, MAINTAIN AND INSPECT EROSION CONTROL AND TEMPORARY のジ STORMWATER CONTROL MEASURES TO CONTROL SEDIMENT AND RUNOFF IN ACCORDANCE WITH THESE PLANS AND THE LOCAL JURISDICTION. S 1.1. THE CONSTRUCTION OF THIS PROJECT IS NOT EXPECTED TO OCCUR DURING THE WINTER SEASON (OCTOBER 15TH THROUGH APRIL 15TH). 1.2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL BMP INSTALLATION 1.3. ALL GRADING SHALL CONFORM TO THE LOCAL GRADING ORDINANCE, EROSION CONTROL ORDINANCES, AND CALIFORNIA BUILDING CODE. 1.4. ALL DISTURBED SURFACES SHALL BE PREPARED AND MAINTAINED TO CONTROL EROSION AND TO ESTABLISH NATIVE OR NATURALIZED VEGETATIVE GROWTH COMPATIBLE WITH THE AREA. THIS CONTROL SHALL CONSIST OF: A. EFFECT TEMPORARY PLANTING SUCH AS RYE GRASS, SOME OTHER FAST-GERMINATION SEED, AND MULCHING WITH STRAW AND/OR OTHER SLOPE STABILIZATION MATERIAL B) PERMANENT PLANTING OF NATIVE OR NATURALIZED DROUGHT RESISTANT SPECIES OF SHRUBS, TREES, – ቢ OR OTHER VEGETATION, PURSUANT TO THE COUNTY'S LANDSCAPE CRITERIA, WHEN THE PROJECT IS S S S COMPLETED; C) MULCHING, FERTILIZING, WATERING OR OTHER METHODS MAY BE REQUIRED TO ESTABLISH NEW VEGETATION, ON SLOPES LESS THAN 20%, TOPSOIL SHOULD BE STOCKPILED AND REAPPLIED. SEED AND MULCH. ALL AREAS ON- AND OFF-SITE EXPOSED DURING CONSTRUCTION ACTIVITIES, IF NOT PERMANENTLY LANDSCAPED PER PLAN, SHALL BE PROTECTED BY MULCHING AND/OR HAND BROADCASTING OF THE FOLLOWING STERIL, WEED FREE, SEED MIX AND INCORPORATED OVER ALL BROMUS CARINATUS 10#/ACRE LEYMUS TRITICOIDES 8#/AC. HORDEUM BRACHYANTHERUM 5#/AC. FESTUCA RUBRA 8#/AC. DESCHAMPSIA CESPITOSA 8#/AC. THE MIX/APPLICATION SHALL ALSO CONTAIN: roje - FERTILIZER (6-3-3) SHALL BE HAND BROADCAST AND INCORPORATED AT 30-LB/ACRE OVER ENTIRE AREA. \sim σ - MYCHORRHIZAL FUNGI SHALL BE ADDED AT 50 LB/ ACRE. $\mathbf{\omega}$ - IF HYDROSEEDING, ADD MULCH AND TACKIFIER TO ABOVE. Δ ALL EXCAVATED MATERIAL SHALL BE REMOVED TO AN APPROVED DISPOSAL SITE OR DISPOSED OF ON-SITE IN A MANNER THAT WILL NOT CAUSE EROSION. 3 Ð CONCRETE WASHOUT. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE LOCATED A MINIMUM OF 50 0 FEET FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES, AND WATERCOURSES. THE CONCRETE σ WASHOUT FACILITY SHALL BE BELOW GRADE AND CONSTRUCTED WITH A MINIMUM LENGTH AND MINIMUM \sim WIDTH OF 10 FEET. TEMPORARY CONCRETE FACILITIES SHALL BE CONSTRUCTED AND MAINTAINED IN 4 SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT Ó L) OPERATIONS. THE WASHOUT SHALL HAVE A 10 MIL POLYETHYLENE PLASTIC LINER. WHEN CONCRETE ഗ WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE AND Q 50 MATERIALS FOR THE WASHOUT SHALL BE REMOVED AND DISPOSED OF. HOLES, DEPRESSIONS, OR OTHER GROUND DISTURBANCES CAUSED BY THE REMOVAL OF THE CONCRETE WASHOUT SHOULD BE BACKFILLED Ο b •• Ð PN OTHER PROVISIONS. IF CONSTRUCTION OCCURS BETWEEN OCTOBER 15TH AND APRIL 15TH, EXPOSED SOIL Ы NOT INVOLVED IN IMMEDIATE CONSTRUCTION ACTIVITY SHALL BE PROTECTED FROM EROSION AT ALL S TIMES. AFTER APRIL 15TH, EROSION CONTROL MEASURES SHALL BE IN PLACE DURING INCLEMENT ∞ 4 đ **1** 6 ickl 4 EROSION CONTROL MEASURES SHALL BE KEPT IN PLACE BY THE CONTRACTOR UNTIL NATIVE VEGETATION HAS BEEN ESTABLISHED AND PROVIDES NECESSARY SLOPE COVER (MINIMUM 70% COVER). CS Σ ENGINEERING eering Consulting Servi ER, MS, L GLEN Ϋ́ER Enain ₹N C 80522 EXP 03/31/27 Drawn Bv Checked By PEM PEM Project No. 202302B AS SHOWN MAR 2025 Revision/Issue Date