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:

SERWIN BRAD & LISA TRS (PLN250058) RESOLUTION NO. ----

Resolution by the Monterey County HCD Chief of Planning:

- 1) Finding that the project qualifies for a Class 3 Categorical Exemption pursuant to Section 15303 of the CEQA Guidelines Section and there are no exceptions pursuant to Section 15300.2; and
- 2) Approving an Administrative Permit and Design Approval to allow the construction of a 3.674 square foot single family dwelling, new 751 square foot three-car garage, new 989 square foot terrace, new retaining walls and new detached prefabricated 651 square foot accessory shed with no permanent electrical; grading to consist of 1260 cubic yards of excavation and 540 cubic yards of fill. Colors and materials to consist of gravel roof (grey), exterior stucco siding (Benjamin Moore Sherwood Tan). aluminum doors & windows (Dark Bronze), steel garage doors (Dark Bronze), trim (Metal Fascia Black), wood/metal fencing (Natural Oak/White), stacked boulder patio walls (Hollister Granite), and concrete entry gate (black metal).

[PLN250058 Serwin, 24 Tehama, Lot 10 Tehama Subdivision Phase 3 Tract 1445, Carmel Valley Master Plan (APN: 169-421-045-000)]

The SERWIN BRAD & LISA TRS application (PLN250058) came on for an administrative decision hearing before the Monterey County HCD Chief of Planning on July 2, 2025. Having considered all the written and documentary evidence, the administrative record, the staff report, oral testimony, and other evidence presented, including the conditions of approval (Attachment 1) and project plans (Attachment 2), 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:

- During the course of the 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 the review of the project indicating any inconsistencies with the text, policies, and regulations in these documents.

- b) <u>Project.</u> The project proposes the construction of a 3,674 square foot single family dwelling, new 751 square foot three-car garage, new 989 square foot terrace, new retaining walls and new detached prefabricated 651 square foot accessory shed with no permanent electrical; grading to consist of 1260 cubic yards of excavation and 540 cubic yards of fill.
- Allowed Use. The property is located at 24 Tehama, Carmel, Carmel Valley Master Plan, 169-421-045-000. The parcel is zoned Rural-Density Residential, 10 Acres per Unit; Design Control District Overlay, Site Plan Review, and Residential Allocation Zoning [RDR/10-D-S-RAZ]. Site Plan Review zoning allows residential development as a principal use, subject to granting an Administrative Permit. A site plan was included in the application showing the location and design of the proposed development and demonstrating that it is appropriate for the site. The project is consistent with the requirements for the Residential Allocation Zoning District. The proposed project is the only dwelling unit proposed on this parcel. No subdivision is proposed, and the new dwelling will be located on an existing legal lot of record in the Tehama Subdivision Phase 3. Therefore, the project is an allowed land use for this site.
- d) <u>Lot Legality.</u> The subject 14.791-acre parcel (644,327 square feet), Assessor's Parcel Number 169-421-045-000, is identified in its current configuration in (Volume 23 C&T page 9 lot 10). Additionally, within the Tehama Subdivision Phase 3 Tract 1445. Therefore, the County recognizes the subject property as a legal lot of record.
- e) Design/Neighborhood and Community Character. The zoning of the subject property includes a Design Control overlay ("D) which is intended to regulate the location, size, configuration, materials, and colors of structures to ensure the protection of public viewshed, neighborhood character, and the visual integrity of certain developments without imposing undue restrictions on private property. Colors and materials to consist of gravel roof (grey), exterior stucco siding (Benjamin Moore Sherwood Tan), aluminum doors & windows (Dark Bronze), steel garage doors (Dark Bronze), trim (Metal Fascia Black), wood/metal fencing (Natural Oak/White), stacked boulder patio walls (Hollister Granite), and concrete entry gate (black metal). The project, as designed, assures the protection of the public viewshed, is consistent

- with the neighborhood character, and blends in with the surrounding areas. The project design, colors, and materials are consistent with those of other residences and structures in the Tehama Subdivision Phase 3.
- f) Development Standards. As proposed, the project meets all required development standards. The development standards for the Rural-Density Residential Zoning District are identified in MCC Section 21.16.020. The minimum setbacks for main structures in the RDR district are 30 feet (front), to a maximum required of 20 feet side and 20 feet rear setback. The maximum allowed height is 30 feet. The proposed project has a maximum height of 14 feet and is within the building envelope established for the proposed site. Therefore, setbacks are consistent with the minimum required and meet the height requirement for the zoning district in which it is located. The allowable maximum site coverage is 25 percent. The subject property is 644,327 square feet, allowing site coverage of 161,082 square feet at the assigned building envelope. The proposed project would result in structural site coverage of 7,201 square feet (1.12% percent), therefore meeting the coverage standard.
- g) The project planner verified that the project on the subject parcel conforms to the plans listed above.
- h) The application, project plans, and related support materials submitted by the project applicant to Monterey County HCD-Planning are found in Project File PLN250058.
- 2. FINDING:

SITE SUITABILITY – The site is physically suitable for the proposed development and 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 Monterey County Regional 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. There has been no indication from these departments/agencies that the site is not suitable for the development.
- b) The project planner verified that the site is suitable for this use.
- c) The application, project plans, and related support materials submitted by the project applicant to Monterey County HCD-Planning found in Project File PLN250058.
- 3. FINDING:

HEALTH AND SAFETY – The establishment, maintenance, or operation of the project 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:

The project was reviewed by HCD-Planning, HCD- Engineering Services, HCD-Environmental Services, Environmental Health Bureau, and Monterey County Regional Fire Protection District. There are no project conditions as the staff has ensured that the proposed 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. Cañada Woods Water/Sewer District will serve the proposed project as the water connection and have a new 1,500-gallon on-site wastewater treatment system.
- c) The application, project plans, and related support materials submitted by the project applicant to Monterey County HCD-Planning found in Project File PLN250058.

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) Staff researched County records to assess if any violation exists on the subject property.
- c) The application, project plans, and related support materials submitted by the project applicant to Monterey County HCD-Planning found in Project File PLN250058.

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 categorically exempts the development of the new single-family dwelling and accessory structures within residentially zoned areas.
- b) The project consists of a new single-family dwelling. Therefore, the proposed development qualifies as a Class 3 Categorical Exemption pursuant to Section 15303 of the CEQA Guidelines.
- None of the exceptions under CEQA Guidelines Section 15303.2 apply to this project. The project does not involve a designated historical resource, a hazardous waste site, unusual circumstances that would result in a significant effect, or development that would result in a cumulatively significant impact.
- d) No adverse environmental effects were identified during the staff review of the development application during a site visit on May 28, 2025.
- e) See supporting Findings Nos. 1 and 2. The application, project plans, and related support materials submitted by the project applicant to Monterey County HCD-Planning found in Project File PLN250058.

6. FINDING:

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

EVIDENCE: a)

Pursuant to Section 21.80.040 of the Monterey County Zoning Ordinance (Title 21).

DECISION

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

- 1. Find the project qualifies for a Class 3 Categorical Exemption pursuant to CEQA Guidelines Section 15303; and
- 2. Approve the Administrative Permit and Design Approval to allow the construction of a 3,674 square foot single family dwelling, new 751 square foot three-car garage, new 989 square foot terrace, new retaining walls and new detached prefabricated 651 square foot accessory shed with no permanent electrical; grading to consist of 1260 cubic yards of excavation and 540 cubic yards of fill. Colors and materials to consist of gravel roof (grey), exterior stucco siding (Benjamin Moore Sherwood Tan), aluminum doors & windows (Dark Bronze), steel garage doors (Dark Bronze), trim (Metal Fascia Black), wood/metal fencing (Natural Oak/White), stacked boulder patio walls (Hollister Granite), and concrete entry gate (black metal); all of these are in general conformance with the attached sketch (Attachment 2) and subject to the attached conditions (Attachment 1), all being attached hereto and incorporated herein by reference.

PASSED AND ADOPTED this 2nd day of July 2025.

Melanie Beretti, A	ICP
HCD Chief of Plant	ning

COPY OF THIS DECISION MAILED TO APPLICANT ON DATE

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 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

PLN250058

1. PD001 - SPECIFIC USES ONLY

Responsible Department:

Planning

Condition/Mitigation
Monitoring Measure:

This Administrative Permit (PLN250058) allows for the construction of a 3,674 square foot single family dwelling, new 751 square foot three-car garage, new 989 square foot terrace, new retaining walls and new detached prefabricated 651 square foot accessory shed with no permanent electrical; grading to consist of 1260 cubic yards of excavation and 540 cubic yards of fill. Colors and materials to consist of gravel roof (grey), exterior stucco siding (Benjamin Moore Sherwood Tan), aluminum doors & windows (Dark Bronze), steel garage doors (Dark Bronze), trim (Metal Fascia Black), wood/metal fencing (Natural Oak/White), stacked boulder patio walls (Hollister Granite), concrete entry gate (black metal), exterior siding stucco (Cream/Tan). The property is located at 24 Tehama Carmel (Assessor's Parcel Number 169-421-045-000), Carmel Valley Master Plan. This permit was approved in accordance with County ordinances and land use regulations subject to the terms and conditions described in the project 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. 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 Performed: The Owner/Applicant shall adhere to conditions and uses specified in the permit on an on-going basis unless otherwise stated.

Print Date: 6/6/2025 4:26:20PM Page 1 of 2

2. PD002 - NOTICE PERMIT APPROVAL

Responsible Department: Planning

Condition/Mitigation Monitoring Measure:

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

"A n Administrative Permit (Resolution Number _____) was approved by Director of Planning for Assessor's Parcel Number 169-421-045-000 on July 2, 2025. The permit was granted subject to 2 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.

Print Date: 6/6/2025 4:26:20PM Page 2 of 2



JANUARY 31, 2025 BUILDING PERMIT SET SET

CARMEL SERWIN RESIDENCE

24 TEHAMA CARMEL, CA 93923 A.P.N. 169-421-045 1 fright

JUANCARLOS FERNANDEZ PROJECT DESIGNER

SIGNUM ARCHITECTURE, LLP 707 963 8831 1675 2nd St, Napa, CA 94559

These drawings are the property of Signum Architecture and have been prepared specifically for this project. These drawings are not to be used for any other project, by any other entity or in another location.

CARMEL SERWIN RESIDENCE

24 TEHAMA CARMEL, CA 9392 APN 169-421-045

PROJECT NUMBER	23
DATE	01/31/20
CHECKED BY	J
DRAWN BY	Α
SCALE	AS NOT
REVISIONS	
100% SCHEMATIC DESIGN	08/07/20
DESIGN REVIEW STEP 4	01/22/20
BUILDING PERMIT	01/31/20

SHEET NA

TITLE SHEET

SHEET NUMBER

G0.01

BUILDING PERMI

GRID LINE

ROOM NAME

SECTION

DETAIL

ROOM NUMBER

SECTION LOCATION

DETAIL IDENTIFICATION

INTERIOR ELEVATION

NTERIOR LOCATION

ELEVATION LOCATION

WINDOW NUMBER

FINISH MATERIAL

REVISION NUMBER

AREA OF REVISION

WALL TYPE

REVISION

REFER TO DOOR SCHEDULE

REFER TO WINDOW SCHEDULE

REFER TO FINISH SCHEDULE

REFER TO WALL SCHEDULE

DOOR NUMBER

ELEVATION

DETAIL LOCATION

KITCHEN

203

A4.10

(114C)

(103A)

ROOM IDENTIFICATION

1.1 APPLICABLE BUILDING CODES: TITLE 24

PART 1: 2022 BUILDING STANDARDS ADMINISTRATIVE CODE

PART 2.5: 2022 CALIFORNIA RESIDENTIAL BUILDING CODE

PART 3: 2022 CALIFORNIA ELECTRICAL CODE PART 4: 2022 CALIFORNIA MECHANICAL CODE

PART 5: 2022 CALIFORNIA PLUMBING CODE

PART 6: 2022 CALIFORNIA ENERGY CODE PART 7: 2022 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE

PART 8: 2022 CALIFORNIA HISTORICAL BUILDING CODE

PART 9: 2022 CALIFORNIA FIRE CODE

PART 10: 2022 CALIFORNIA EXISTING BUILDING CODE PART 11: 2022 CALIFORNIA GREEN BUILDING CODE

PART 12: 2022 CALIFORNIA REFERENCED STANDARDS CODE

1.2 THE CONTRACTOR SHALL PROVIDE WORKMAN'S COMPENSATION INSURANCE, LIABILITY INSURANCE IN THE AMOUNT OF THE COST OF CONSTRUCTION.

1.3 THE CONTRACTOR SHALL GUARANTEE ALL LABOR AND MATERIAL FOR A MINIMUM OF ONE YEAR. EXCEPTION: ROOF SHALL BE GUARANTEED FROM LEAKAGE FOR A MINIMUM OF TWO YEARS OR AS SPECIFIED.

1.4 THE GENERAL CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND DIMENSIONS BEFORE STARTING WORK. THE CONTRACTOR SHALL NOTIFY SIGNUM ARCHITECTURE OF DISCREPANCIES.

1.5 CONTRACTOR SHALL VERIFY EASEMENTS (PUBLIC OR PRIVATE) FOR SEWER, WATER, ELECTRICAL, TELEPHONE, CABLE T.V. AND GAS PRIOR TO STARTING CONSTRUCTION.

1.6 VERIFY ALL UTILITY DATA AND LOCATIONS PRIOR OORDINATED WITH THE APPROPRIATE AGENCY OR UTILITY COMPANY.

1.7 WRITTEN DIMENSIONS TAKE PRECEDENCE OVER DRAWINGS. DO NOT SCALE THE DRAWINGS. WHERE DISCREPANCIES OCCUR, NOTIFY SIGNUM ARCHITECTURE FOR CLARIFICATION.

FIFVATOR

EMERGENCY

FXPANSION

FIRE ALARM

FLOOR DRAIN

FLUORESCENT

FIRFPROOF

FOOT/FEET

FOOTING FURRING

FUTURE

GAUGE

GALVANIZED

GARBAGE DISPOSAL

GROUND FAULT INTERRUPTER

GALVANIZED SHEET METAL

GRAB BAR

GROUND

HOSE BIB

HEAD HEADER

HANGER

HORIZONTAL

HOUR HOT WATER

INSULATION

JANITOR

KITCHEN

LABORATORY

LAMINATE

LAVATORY

JOINT JOIST

INTERNATIONAL

CONFERENCE OF BUILDING OFFICIALS

INSIDE DIMENSION

GRADE

FLOOR SINK

FOUNDATION

FORCED-AIR UNIT

FIRE EXTINGUISHER

FACE OF CONCRETE

FACE OF MASONRY

EQUAL

ELECTRICAL PANEL

ELECT

EMER EPB

FOM

FTG FURR FUT

GALY

ĞŔD

HDR HGR

HORIZ

HW

JAN JT JST

KIT

LAB LAM LAV

ANGLE

CENTERLINE

PARALIFI

NUMBER

ACOUST AD

ADA

ADJ

ALUM ALT

APROX ARCH ASPH AV

BD BLDG BLK BLKG BM BOT

CAB

CEM CER.T.

COL CONC CONN CONTR

DIA DIA*G* DIM

DR DWR DS

DWG

PERPENDICULAR

ASPHALTIC CONCRETE

ABOVE FINISHED FLR

ANCHOR BOLT

AREA DRAIN

ALUMINUM

ASPHALT

BUILDING

BLOCKING

BOTTOM

CABINET

CATCH BASIN

CERAMIC TILE

CAST IRON

CONCRETE

CONNECTION

CONTRACTOR

DOUGLAS FIR OR

DRINKING FOUNTAIN

COLD WATER

DOUBLE

DIAMETER

DIAGONAL

DRAWFR

DRAWING

EXISTING

DIMENSION

DAMPROOFING

EXPANSION . IOINT

CORNER GUART

CONTROL JOINT

CASED OPENING

CALIFORNIA BUILDING

APPROXIMATE

AUDIO VISUAI

ARCHITECTURAI

1.8 ACCEPT NO INK OR PENCIL CORRECTIONS TO THESE DRAWINGS WITHOUT THE DESIGNER'S INITIAL OR SIGNATURE. SIGNUM ARCHITECTURE SHALL BE HELD HARMLESS FOR ALL CHANGES NOT IN CONFORMANCE

1.9 ALL USERS OF THESE DRAWINGS AGREE BY USING THESE DRAWINGS TO HOLD SIGNUM ARCHITECTURE HARMLESS FOR ANY AND ALL WORK THAT DOES NOT CONFORM TO REQUIREMENTS AND MINIMUM STANDARDS OF THE APPLICABLE BUILDING CODES LOCAL ORDINANCES, AND ACCEPTABLE STANDARDS

1.10 THESE DRAWINGS ARE THE PROPERTY OF SIGNUM ARCHITECTURE AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY WORK OTHER THAN AT THE LOCATION SHOWN ON THESE PLANS.

1.11 SIGNUM ARCHITECTURE SHALL HAVE NO CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURÉS FOR ANY SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH

1.12 SIGNUM ARCHITECTURE ASSUMES NO RESPONSIBILITY FOR PERFORMANCE OF PRODUCTS OR MATERIALS SPECIFIED.

1.13 ITEMS REQUIRED BY TITLE 24 "ENERGY CONSERVATION STANDARDS" SHALL BE CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION (CEC). EQUIPMENT REQUIRING SCHEDULED MAINTENANCE FOR EFFICIENT OPERATION IS TO BE FURNISHED WITH COMPLETE PRINTEL MAINTENANCE INSTRUCTIONS. (EDITION 2001)

1.14 REFER TO THE PROJECT MANUAL FOR DETAILED SPECIFICATIONS, MASTER CONTROL SYSTEM INTERFACE REQUIREMENTS and INPUT/OUTPUT LISTS and REQUIREMENTS.

1.15 THE CONTRACTOR SHALL FURNISH ALL SYSTEMS
COMPLETE AND WITH ALL ACCESSORIES REQUIRED FOR
INSTALLATION IN ACCORDANCE WITH EXCELLENT AND ACCEPTABLE TRADE PRACTICE

1.16 ALL FIXTURES, EQUIPMENT, PIPING, AND MATERIALS SHALL BE LISTED.

1.17 ALL APPLICATIONS FOR WHICH NO PERMIT IS ISSUED WITHIN 180 DAYS FOLLOWING THE DATE OF APPLICATIONS SHALL AUTOMATICALLY EXPIRE. (R105.3.3 CRC)

1.18 ALL APPLICATIONS FOR WHICH NO PERMIT IS ISSUED WITHIN 180 DAYS FOLLOWING THE DATE OF APPLICATIONS SHALL AUTOMATICALLY EXPIRE. (R105.3.3 CRC)

1.19 EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS WORK AUTHORIZED IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE OR IF THE WORK AUTHORIZED IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS. A SUCCESSFUL INSPECTION MUST BE OBTAINED WITHIN 180 DAYS.

1.20 THE LOAD RESISTANCE OF GLASS UNDER UNIFORM LOAD SHALL BE DETERMINED IN ACCORDANCE WITH ASTM E1300.

SCHED

SHNGL SHR SHT SIM

SMD SPD SPEC

STD STL STOR STRUC SUSP SV SW

TOP TRD

UON

VERT VGDF

VOL

WSCT W

W/O WC WD

WNDW

SOLID CORE

SEE ELECTRICAL DRAWING SHELF

SEE LANDSCAPE DRAWINGS

SEE MECHANICAL DRAWINGS

SEE STRUCTURAL DRAWINGS

SEE PLUMBING DRAWINGS

SPRINKLER HEAD

SPECIFICATION OR

STAINLESS STEEL

STANDARD

STORAGE STRUCTURAL

SUSPENDED

SHEET VINYL

SHEAR WALL

SYSTEM

TREAD

TOWEL BAR

TOP OF CURB TELEPHONE

TONGUE & GROOVE

TOP OF WALL
TOILET PAPER HOLDER

IJNIFORM BUILDING CODE

UNIFORM MECHANICAL CODE

UNLESS OTHERWISE NOTED

TOP OF CONCRETE

TEMPERED

TOP PLATE

FELEVISION

VFRTICAL-GRAIN

DOUGLAS FIR

WATERCLOSET

WATER HEATER

WATER RESISTANT

WELDED WIRE

VOLUME

WAINSCOT WASHER

WITH

WITHOUT

WINDOW

WP.MEMB. WATERPROOF MEMBRANE

TREAD

SYMMETRICAL

SCHEDULE

SHOWER

SHEET SIMILAR

SLIDING



PROJECT INFORMATION

24 TEHAMA LOT 10 CARMEL, CALIFORNIA

ASSESSOR PARCEL #: 169-421-045-000 PARCEL SIZE: 15.43 ACRES

FLOOD ZONE: N/A

ADDRESS:

ZONING DISTRICT: RDR / 10-D-S-RAZ BUILDING ENVELOPE: 2.2 ACRES

TOTAL SITE COVERAGE: HOUSE: 3,674 SQ. FT. GARAGE: 751 SQ.FT.

TERRACES: 989 SQ.FT. FIRE HAZARD N/A

SEVERITY ZONE: CONSTRUCTION: TYPE - VB

STORIES:

NEW CONSTRUCTION OF PRIVATE RESIDENCE ON PROPERTY CONSISTS OF A 2 BED/2.5 BATH PROGRAM W/3 CAR GARAGE.

UNDER SEP. PERMIT

* SOLAR/PV

DESIGN LOADS

	DESIG	N LOADS			
GEN	IERAL	EARTHQUAKE LOAD			
BUILDING CODE	2022 CALIFORNIA BUILDING CODE	IMPORTANCE FACTOR	le = 1.0		
RISK CATEGORY	II	SITE CLASS	С		
DEAD	LOAD	DESIGN CATEGORY	D		
ROOF	21 PSF	SPECTRAL ACCELERATIONS	Ss = 1.305, S1 = 0.484		
FIRST FLOOR	N/A	DESIGN ACCELERATIONS	SDS = 1.044, SD1 = 0.484		
LIVE	LOAD	RESPONSE MODIFICATION COEFFICIENT	R = 6.5 (LIGHT-FRAMED SHEATHED WALLS)		
ROOF	20 PSF	ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE		
TYPICAL FLOOR	40 PSF	SEISMIC RESPONSE COEFFICIENT	Cs = 0.16		
WIND	LOAD	REDUNDANCY FACTOR	r = 1.3		
DESIGN WIND SPEED	92 MPH				
DESIGN PROCEDURE	DIRECTIONAL PROCEDURE				
EXPOSURE CATEGORY	В				
DIRECTIONALITY FACTOR	Kd = 0.85				
TOPOGRAPHIC FACTOR	Kzt = 1.07				

G0.04 NORTH / SOUTH SITE SECTIONS G0.05 EAST / WEST SITE SECTIONS **ENERGY** ENERGY COMPLIANCE **ENERGY COMPLIANCE ENERGY COMPLIANCE** LOW-RISE RES. MANDATORY MEASURES

PROJECT INFORMATION

COVER SHEET

SITE PLAN

CIVIL C1 **GRADING PLAN TITLE SHEET** C2 OVERALL PROJECT SITE C3 DRIVEWAY GRADING PLAN C4 SITE GRADING PLAN C5 SITE CROSS SECTIONS C6 STORMWATER CONTROL PLAN C7 SITE UTILITY PLAN C8 CONSTRUCTION DETAILS C9 EROSION CONTROL PLAN C10 CONSTRUCTION MANAGEMENT PLAN

LANDSCAPE L0.00

L0.01

L0.02

L0.03

L1.00

L2.00

L3.00

L3.01

L3.02

L3.03

L4.00

L5.00

L5.01

GENERAL

G0.01

G0.02

G0.03

T-1

T-3

T-4

COVER SHEET SITE ANALYSIS TREE PROTECTION PLAN FUEL MANAGEMENT PLAN LANDSCAPE SITE PLAN PLANTING PLAN IRRIGATION DIAGRAM IRRIGATION LEGEND IRRIGATION DETAILS IRRIGATION DETAILS LANDSCAPE PLANTING PLAN CONSRUCTION DETAILS CONSRUCTION DETAILS

ARCHITECTURAL A1.01

AREA PLAN

OVERALL FLOOR PLAN A2.11 FLOOR PLAN - GREAT ROOM & GUEST WING A2.12 FLOOR PLAN - MASTER WING A2.21 ROOF PLAN

A3.01 **EXTERIOR ELEVATIONS**

A3.02 **EXTERIOR ELEVATIONS** A4.01 **BUILDING SECTIONS** A4.02 **BUILDING SECTIONS** A4.03 **BUILDING SECTIONS** WALL SECTIONS

A4.12 WALL SECTIONS A5.31 FIREPLACE DETAILS - LIVING ROOM A5.32 FIREPLACE DETAILS - PATIO A5.33 FIREPLACE SPECIFICATIONS - LIVING ROOM

A5.34 FIREPLACE SPECIFICATIONS - PATIO A7.01 DOOR SCHEDULE A7.02 WINDOW SCHEDULE

ARCHITECTURAL DETAILS WINDOW DETAILS A8.02 A8.21 ROOF DETAILS

A8.31 **ENTRY DESIGN** A8.41 **ACCESSORY SHED**

STRUCTURAL S0.0 S0.0

GENERAL NOTES GENERAL NOTES S1.0 TYP. CONCRETE DETAILS S1.1 TYP. WOOD DETAILS S1.2 TYP. WOOD DETAILS S1.3 PLAN NOTES & LEGEND S2.1A FOUNDATION PLAN S2.1B FOUNDATION PLAN S2.2A ROOF FRAMING PLAN S2.2B ROOF FRAMING PLAN S3.0 SECTIONS S3.1 SECTIONS S3.2 SECTIONS S4.0 FRAMING DETAILS S4.1 FRAMING DETAILS S5.0 FRAMING DETAILS S5.1 FRAMING DETAILS

S5.2 FRAMING DETAILS WSWH2 STRONG-WALL FRAMING DETAILS TJI1 TJI TRUSS DETAILS

MECHANICA

M1

P0

GENERAL NOTES, SCHEDULES, & DETAILS

MECHANICAL PLAN RADIANT ZONING PLAN

PLUMBING PLAN - WATER AND GAS PLUMBING PLAN - SEWER AND VENT

ELECTRICAL E1.01 ELECTRICAL SITE PLAN E3.01 ELECTRIC PLAN - GREAT ROOM & GUEST WING E3.02 ELECTRIC PLAN - MASTER WING SINGLE LINE DIAGRAM

E5.01 **PLUMBING** GENERAL NOTES, SCHEDULES, & DETAILS

JUANCARLOS FERNANDEZ PROJECT DESIGNER

SIGNUM ARCHITECTURE, LLP 707 963 8831 1675 2nd St, Napa, CA 94559

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CARMEL SERWIN RESIDENCE

24 TEHAMA CARMEL, CA 93923 APN 169-421-045

2314 PROJECT NUMBER 01/31/2025 **CHECKED BY** JCF AVH DRAWN BY AS NOTED SCALE REVISIONS 100% SCHEMATIC DESIGN 08/07/2024 01/22/2025 DESIGN REVIEW STEP 4 01/31/2025 BUILDING PERMIT

SHEET NAME

PROJECT INFORMATION

SHEET NUMBER

G0.02

BUILDING PERMIT

SPECIAL INSPECTION

ABBREVIATIONS

MAINT

MEMB

MTL MFR MIN MIR MISC MO

NFPA

OPNG OPP

PERM

P. LAM

PLAS PLYWD

PRCST PSI

POUND LIGHT

MACHINE

MAINTENANCE

MACHINE BOLT

MECHANICAL.

MEMBRANE

MINIMIM

MASONRY

MOUNTED

NATIONAL

OVERALL

OPENING

MIRROR

MEDICINE CABINET

MANUFACTURER

MISCELLANEOUS

MALLEABLE IRON

ELECTRICAL CODE

PROTECTION ADMINISTR

NATIONAL FIRE

NOT IN CONTACT

NOT TO SCALE

N CENTER

PANEL BOARD

PLASTIC LAMINATE

PERMANENT

PLYWOOD

PRECAST

PANEL PAINT

POINT

REMOVE

RADIUS RETURN AIR

ROOF DRAIN

RECESSED

REFERENCE

REMOVABLE

REQUIRED

RETAINING

REGISTER

REVISION

REDWOOD

RESILIENT

REFRIGERATOR

OUTSIDE DIMENSION

PLATE OR PROPERTY LINE

POUNDS PER SQ. INCH

MASONRY OPENING

THE FOLLOWING ITEMS SHALL BE INSPECTED IN ACCORDANCE WITH CBC SECTION 1704 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. ALL INSPECTION SHALL BE CONTINUOUS, UNLESS OTHERWISE NOTED.

GRADING, EXCAVATIONS AND FILL (BY GEOTECHNICAL ENGINEER)

CONCRETE REINFORCING PLACEMENT

 CONCRETE PLACEMENT ANCHOR BOLT PLACEMENT

EPOXY ANCHOR BOLTS AND REINFORCING STEEL

PROJECT DIRECTORY

OWNER: LISA & BRAD SERWIN LISA SERWIN LSERWIN3@GMAIL.COM

SIGNUM ARCHITECTURE, LLP JUANCARLOS FERNANDEZ 1675 2ND STREET

NAPA CA 94559 JUANCARLOS@SIGNUMARCHITECTURE.COM

> WILD LAND WORKSHOP MARIE GOULET CARMEL VALLEY, CA 93924 MARIE@WILDLANDWORKSHOP.COM

CIVIL ENGINEER:

LANDSCAPE ARCHITECT:

L&S ENGINEERING & SURVEYING MARK STERNER 2460 GARDEN ROAD, SUITE G MONTEREY, CA 93940

MARK@LANDSENGINEERS.COM

STRUCTURAL ENGINEER: **BKG STRUCTURAL ENGINEERS** 2460 GARDEN ROAD, SUITE G MONTEREY, CA 93940

MECHANICAL & PLUMBING ENGINEER:

OPTIMIZED ENERGY ETHAN FELLERSEN CONTACT: 5734 LONETREE BOULEVARD ROCKLIN, CA 95765 ESF@OEFINC.COM

MARK@LANDSENGINEERS.COM

GEOTECH ENGINEER: CONTACT:

HARO, KASUNICH & ASSOCIATES ASHTON BUCKNER 116 EAST LAKE AVE. WATSONVILLE, CA 95076

ABUCKNER@HAROKASUNICH.COM

TITLE 24 CONSULTANT:

MONTEREY ENERGY GROUP BEN RAYBOULD 26465 CARMEL RANCHO BLVD, SUITE 8 CARMEL, CA 93923 BEN@MEG4.COM

PROJECT DESCRIPTION

SIGNUM ARCHITECTURE, LLP 707 963 8831 1675 2nd St, Napa, CA 94559

JUANCARLOS FERNANDEZ PROJECT DESIGNER

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CARMEL **SERWIN RESIDENCE**

24 TEHAMACARMEL, CA 93923
APN 169-421-045

PROJECT NUMBER DATE	231 ₄ 01/31/202
CHECKED BY	0 1/3 1/202
DRAWN BY	AVI
SCALE	AS NOTE
REVISIONS	
100% SCHEMATIC DESIGN	08/07/2024
DESIGN REVIEW STEP 4	01/22/2025
BUILDING PERMIT	01/31/2025

SITE PLAN

BUILDING PERMIT

G0.03

OVERALL SITE PLAN

APN 169-421-053

APN 259-093-008

BUILDING ENVELOPE -

- PROPERTY EASEMENT

APN 169-421-051

APN 165-421-057

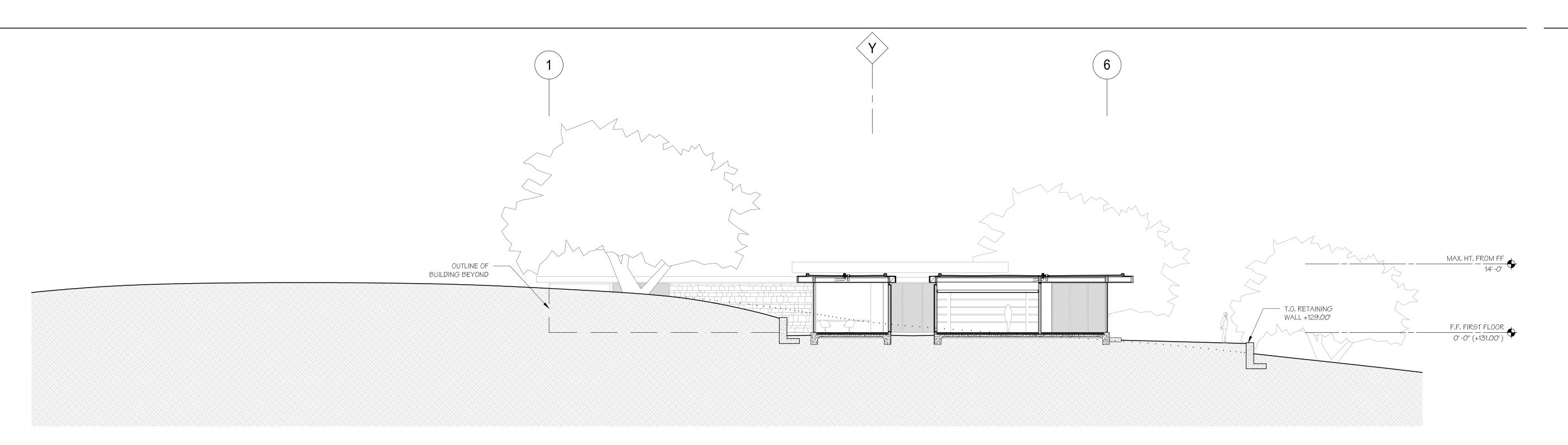
APN 165-421-050

PROPERTY BOUNDARY

APN 169-421-045 15.43 ACRES

(N) ADDRESS NUMBER SIGN - REFER TO

(E) ACCESS ROAD



1 funt

JUANCARLOS FERNANDEZ PROJECT DESIGNER

SITE SECTION

SCALE: 3/32" = 1'-0"

3

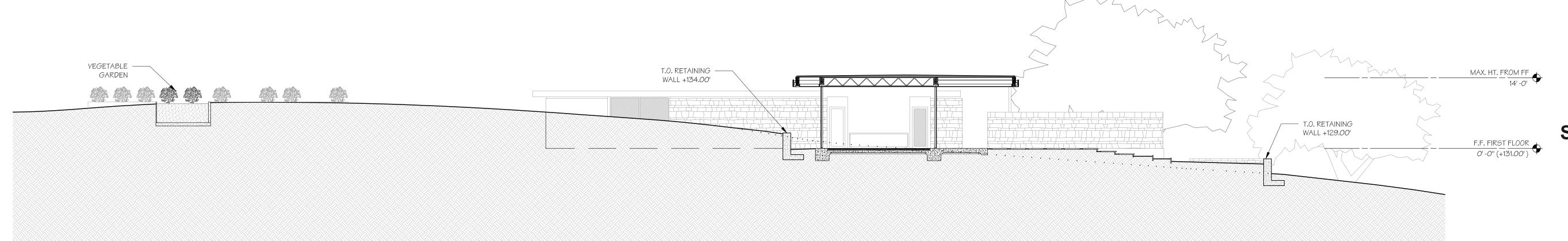
SITE SECTION

SITE SECTION

SCALE: 3/32" = 1'-0

SIGNUM ARCHITECTURE, LLP 707 963 8831 1675 2nd St, Napa, CA 94559

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CARMEL SERWIN RESIDENCE

24 TEHAMACARMEL, CA 93923
APN 169-421-045

PROJECT NUMBER	23
DATE	01/31/20
CHECKED BY	J
DRAWN BY	А
SCALE	AS NOT
REVISIONS	
100% SCHEMATIC DESIGN	08/07/20

 100% SCHEMATIC DESIGN
 08/07/2024

 DESIGN REVIEW STEP 4
 01/22/2025

 BUILDING PERMIT
 01/31/2025

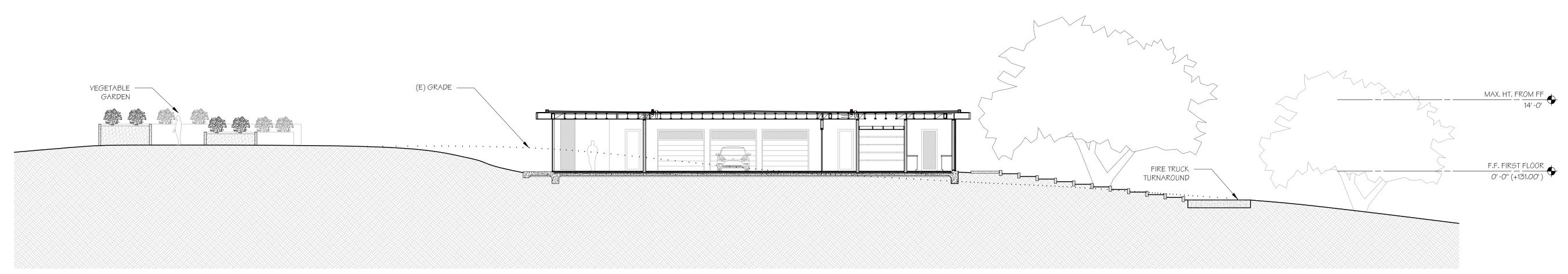
SHEET NAME

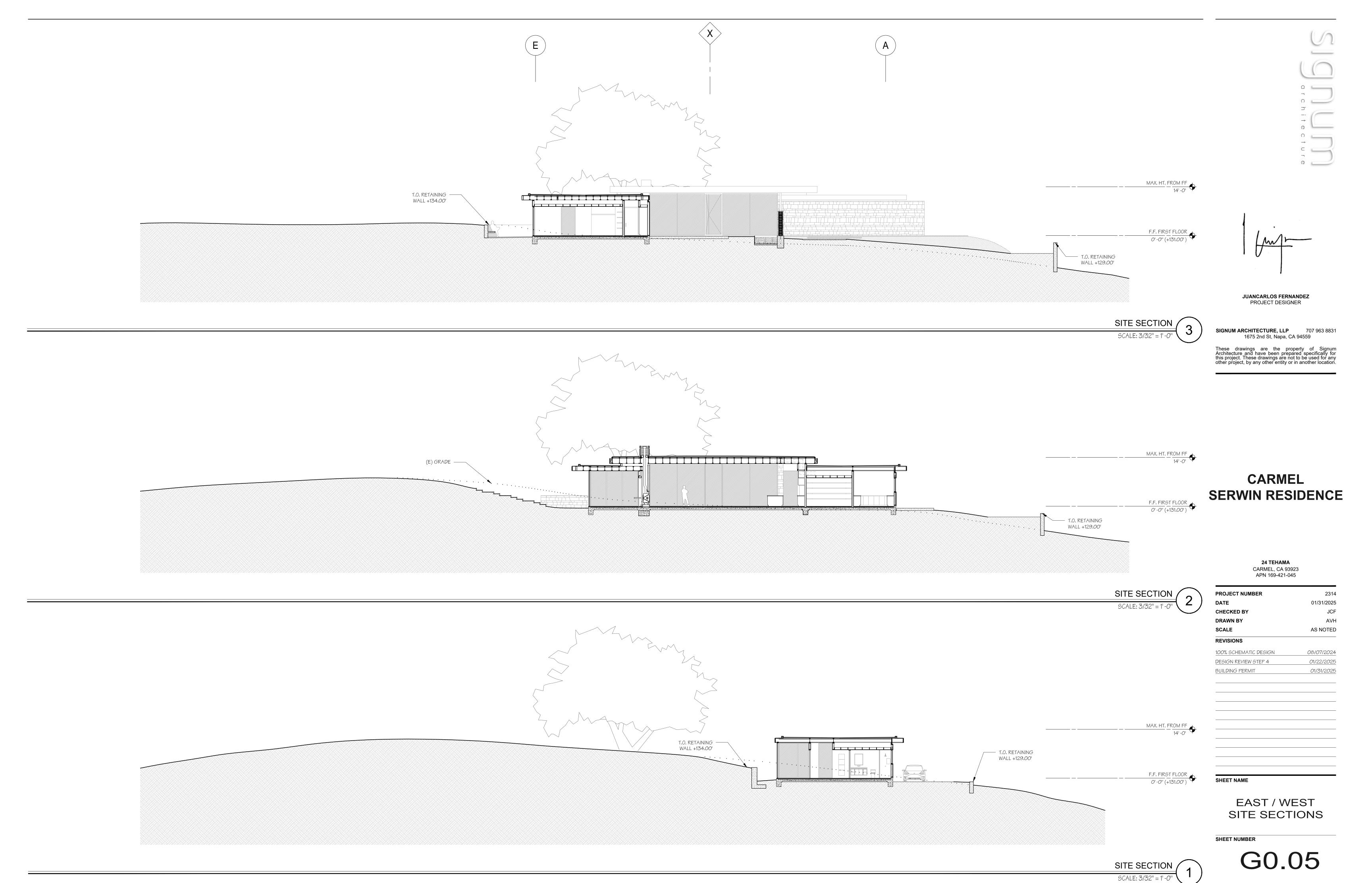
NORTH / SOUTH SITE SECTIONS

SHEET NUMBER

G0.04

BUILDING PERMIT





BUILDING PERMIT

Registration Number: 424-P010317811A-000-000-000000-0000 Registration Date/Time: 12/17/2024 16:34 HERS Provider: CHEERS

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Energy Design Ratings

Efficiency EDR

(EDR2efficiency)

43.6

41.6

³Building complies when source energy, efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

RESULT³: PASS

Registration Number: 424-P010317811A-000-000-000000-0000 Registration Date/Time: 12/17/2024 16:34 HERS Provider: CHEERS

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Report Version: 2022.0.000

Schema Version: rev 20220901

Report Version: 2022.0.000

Schema Version: rev 20220901

Total² EDR

(EDR2total)

30.6

21.9

Calculation Date/Time: 2024-12-13T10:14:23-08:00

Input File Name: 24-602 24 Tehama (Serwin Res.).ribd22x

Source Energy

(EDR1)

6.4

Report Generated: 2024-12-13 10:15:24

Compliance Margins

Efficiency¹ EDR

(EDR2efficiency)

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Total² EDR

(EDR2total)

CA Building Energy Efficiency Standards - 2022 Residential Compliance

Project Name: 24 Tehama (Serwin Res.)

ENERGY DESIGN RATINGS

Calculation Description: Title 24 Analysis

Standard Design

Proposed Design

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Source Energy

(EDR1)____

31.7

25.3

ciency and demand response measures such as photovoltaic (PV) system and batteries

¹Efficiency EDR includes improvements like a better building envelope and more efficient equipment

PV System resized to 3.01 kWdc (a factor of 3.006) to achieve 'Standard Design PV' PV scaling

CA Building Energy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01-E Project Name: 24 Tehama (Serwin Res.) Calculation Date/Time: 2024-12-13T10:14:23-08:00 (Page 3 of 14) Calculation Description: Title 24 Analysis Input File Name: 24-602 24 Tehama (Serwin Res.).ribd22x

Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft ² -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft ² -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	3.7	27.58	3.64	27.47	0.06	0.11
Space Cooling	0	0	0.01	3.17	-0.01	-3.17
IAQ Ventilation	0.51	5.51	0.57	6.17	-0.06	-0.66
Water Heating	2.63	10.91	2,36	9.97	0.27	0.94
Self Utilization/Flexibility Credit				-4.84		4.84
Efficiency Compliance Total	6.84	44	6.58	41.94	0.26	2.06
Photovoltaics	-0.69	-21.16	-0.69	-23.1		
Battery			1.7	-11.37		
Flexibility						
Indoor Lighting	0.67	6.9	0.67	6.9		
Appl. & Cooking	1.45	9.63	1.45	9.68		
Plug Loads	1.21	12.86	1.21	12.86		
Outdoor Lighting	0.18	1.73	0.18	1.73		
TOTAL COMPLIANCE	9.66	53.96	7.7	38.64		

Registration Number: 424-P010317811A-000-000-000000-0000 Registration Date/Time: 12/17/2024 16:34 HERS Provider: CHEERS

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

IAQ Ventilation System Heat Recovery: minimum 75 SRE and 80 ASRE

Ducts located entirely in conditioned space confirmed by duct leakage testing

Conditioned Floor Area (ft

Zone Type

Conditioned

CA Building Energy Efficiency Standards - 2022 Residential Compliance

The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.

IAQ Ventilation System: supply outside air inlet, filter, and H/ERV cores accessible per RACM Reference Manual

detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry

Number of Dwellin

03

HVAC System Name

Radiant Heating + A/C1

Project Name: 24 Tehama (Serwin Res.)

Calculation Description: Title 24 Analysis

Indoor air quality, balanced fan

Window overhangs and/or fins

Indoor air quality ventilation

Verified heat pump rated heating capacity

Kitchen range hood

Minimum Airflow Fan Efficacy Watts/CFM

Duct leakage testing

Project Name

24 Tehama (Serwin Res.)

ZONE INFORMATION

Zone Name

Entire House

BUILDING - FEATURES INFORMATION

Battery System: 10 kWh (Self Utilization Credit taken)

Non-standard duct location (any location other than attic) Recirculating with demand control, push button

IAQ Ventilation System: fault indicator display

REQUIRED SPECIAL FEATURES

Calculation Date/Time: 2024-12-13T10:14:23-08:00 Input File Name: 24-602 24 Tehama (Serwin Res.).ribd22x

05

Number of Zones

05

Avg. Ceiling Height

10.59

Number of Ventilation

Cooling Systems

06

Water Heating System 1

DHW Sys 1

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(Page 5 of 14)

Number of Water

Heating Systems

07

Status

New

CF1R-PRF-01-E

(Page 6 of 14)

Report Generated: 2024-12-13 10:15:24

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REVISIONS: | BY:

MO]

DATE: 12/18/2024 SCALE: AS NOTED MEG CHECKED:

CHECKED:

SHEET:

T- 1

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01-E Calculation Date/Time: 2024-12-13T10:14:23-08:00 Project Name: 24 Tehama (Serwin Res.) (Page 4 of 14)

	Standard Design (kBtu/ft ² - yr)	Proposed Design (kBtu/ft ² - yr)	Compliance Margin (kBtu/ft ² - yr)	Margin Percentage
Gross EUI ¹	11.16	11.16	0	0
Net EUI ²	6.92	6.92	0	0

BATTERY SYSTEMS						
01	02	03	04	05	06	07
Control Capacit	Capacity (kWh)	Charging Discharging			Round Trip Efficiency	
	Capacity (KWII)	Charging Efficiency	Charging Rate (kW)	Discharging Efficiency	Discharging Rate (kW)	Round Trip Efficiency
AdvancedDR	10	0.95	n/a	0.95	n/a	0.9

Registration Number: 424-P010317811A-000-000-0000000-0000 Registration Date/Time: 12/17/2024 16:34 HERS Provider: CHEERS CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Schema Version: rev 20220901

Calculation Description: Title 24 A	nalysis	Input File Name:	put File Name: 24-602 24 Tehama (Serwin Res.).ribd22x			
ENERGY USE INTENSITY						
	Standard Design (kBtu/ft ² - yr)	Proposed Design (kBtu/ft ² - yr)	Compliance Margin (kBtu/ft ² - yr)	Margin Percentage		
Gross EUI ¹	11.16	11.16	0	0		
Net EUI ²	6.92	6.92	0	0		
Notes 1. Gross EUI is Energy Use Total (no 2. Net EUI is Energy Use Total (inclu	t including PV) / Total Building Area. ding PV) / Total Building Area.					

				2	2						
REQUIRED PV SYS	TEMS										
01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception	Module Type	Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Acc (%)
3.01	NA	Standard (14-17%)	Fixed	none	true	150-270	n/a	n/a	<=7:12	96	98

BATTERY SYSTEMS						
01	02	03	04	05	06	07
Control Capacity (k	Canacity (k\A/h)	Char	ging	Discha	Dound Trip Efficiency	
	Capacity (KWII)	Charging Efficiency	Charging Rate (kW)	Discharging Efficiency	Discharging Rate (kW)	Round Trip Efficiency
AdvancedDR	10	0.95	n/a	0.95	n/a	0.9

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Calculation Date/Time: 2024-12-13T10:14:23-08:00 Project Name: 24 Tehama (Serwin Res.) Calculation Description: Title 24 Analysis Input File Name: 24-602 24 Tehama (Serwin Res.).ribd22x

01	02	03	04	-05	06	07	80
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft ²)	Window and Door Area (ft2)	Tilt (deg
FWall	Entire House	R-21 Wall	190	Front	1250.8	662.48	90
LWall	Entire House	R-21 Wall	280	Left	1170.8	583.334	90
BWall	Entire House	R-21 Wall	190	Front	1250.8	741.905	90
RWall	Entire House	R-21 Wall	100	Right	835.8	206.697	90
Partition Wall	Entire House>>Garage	R-21 Wall1	n/a	n/a	800	24	n/a
Partition Wall2	Entire House>>Garage	R-21 Wall1	n/a	n/a	8	0	n/a
Partition Wall3	Entire House>>Garage	R-21 Wall1	n/a	n/a	7	0	n/a
RWall2	Garage	R-21 Wall	100	Right	335	0	90

The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional

Number of Bedrooms

04

Zone Floor Area (ft²)

3737

Registration Number: 424-P010317811A-000-000-0000000-00000 Registration Date/Time: 12/17/2024 16:34 HERS Provider: CHEERS

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Report Version: 2022.0.000

Schema Version: rev 20220901

•	CES - CATHEDRAL		4		- // 	The second second			г т	
01	02	03	04	-05	06	07	08	09	10	11
Name	Zone	Construction	Azimuth	Orientation	Area (ft²)	Skylight Area (ft ²)	Roof Rise (x in 12)	Roof Reflectance	Roof Emittance	Cool Roo
Flat Roof	Entire House	Flat R-30 Roof + R-10	0	n/a	3737	16,4	0	0.1	0.85	No
Flat Roof2	Garage	Flat R-30 Roof + R-10	0	n/a	768	, 0	0	0.1	0.85	No

Tidt NOOTZ		R-10		ستستدي	nyu e	The same of the sa	المستوية	5			0.1	0.05	
FENESTRATION /	GLAZING												
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Туре	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
101B/101C	Window	FWall	Front	190	15.5	11.83	2	366.7 3	0.39	NFRC	0.28	NFRC	Bug Screen

Registration Number: 424-P010317811A-000-000-0000000-0000 Registration Date/Time: 12/17/2024 16:34 HERS Provider: CHEERS

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ESTRATION /			1 1			l						T	
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Туре	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
D101A	Window	FWall	Front	190	5	11.83	1	59.15	0.39	NFRC	0.28	NFRC	Bug Screen
15B/115C	Window	FWall	Front	190	11.83	10	2	236.6	0.39	NFRC	0.28	NFRC	Bug Screen
107B	Window	LWall	Left	280		7	1	114.2	0.39	NFRC	0.28	NFRC	Bug Screen
114A	Window	LWall	Left	280	10	10	1/	100	0,39	NFRC	0.28	NFRC	Bug Screen
D114A	Window	LWall	Left	280	3.5	9.67	1	33.84	0.39	NFRC	0.28	NFRC	Bug Screen
113A	Window	LWall	Left	280	9	10	1	90	0.39	NFRC	0.28	NFRC	Bug Screen
D116C	Window	LWall	Left	280	2.58	7.67	1	19.79	0.39	NFRC	0.28	NFRC	Bug Screen
116B	Window	LWall	Left	280	14.75	8	1	118	0.39	NFRC	0.28	NFRC	Bug Screen
115D	Window	LWall	Left	280	10.75	10	1	107.5	0.39	NFRC	0.28	NFRC	Bug Screen
116A	Window	BWall	Front	190		7/	1	32	0.39	NFRC	0.28	NFRC	Bug Screen
114B	Window	BWall	Front	190	13.25	10	1	132.5	0.39	NFRC	0.28	NFRC	Bug Screen
101A	Window	BWall	Front	190	36	11.83	1	425.8 8	0.39	NFRC	0.28	NFRC	Bug Screen
107A	Window	BWall	Front	190	5.5	10	1	55	0.39	NFRC	0.28	NFRC	Bug Screen
D107A	Window	BWall	Front	190	2.67	9.67	1	25.82	0.39	NFRC	0.28	NFRC	Bug Screen
108A	Window	BWall	Front	190	4.83	9.67	1	46.71	0.39	NFRC	0.28	NFRC	Bug Screen
D108A	Window	BWall	Front	190	3	8	1	24	0.39	NFRC	0.28	NFRC	Bug Screen
108B	Window	RWall	Right	100	4.83	9.83	1	47.48	0.39	NFRC	0.28	NFRC	Bug Screen
110A	Window	RWall	Right	100	2.67	4	1	10.68	0.39	NFRC	0.28	NFRC	Bug Screen

CF1R-PRF-01-E

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

HANGS AND FINS													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
			Overhang				Left	Fin			Righ	t Fin	
Window	Depth	Dist Up	Left Extent	Right Extent	Flap Ht.	Depth	Top Up	Dist L	Bot Up	Depth	Тор Uр	Dist R	Bot Up
113A	3.6	0	0	0	0	0	0	0	0	0	0	0	0
D116C	3.3	2	o	0	0	0	0	0	0	0	0	0	0
116B	3.3	2	0	0	0	0	0	0	0	0	0	0	0
115D	1.8	0	0	0	0	0	0	0	0	0	0	0	0
114B	3	0	0	0	0	0	0	0	0	0	0	0	0
101A	4.8	0	o	0	0	0	0	0	0	0	0	0	0
107A	15.1	0	0 [0	0-	0	0	-0	0	0	0	0	0
D107A	15.1	0	o I	70	0	0	0	0	0	0	0	0	0
108A	3	0.3	0	0	0//	0	0	0	0	0	0	0	0
D108A	3	0.3	0	0	0	0	0	0	0	0	0	0	0
108B	3	0.3	0	0 _	0	0	0	0	0	0	0	0	0
110A	3	2	0	> o □	0	0	0	0	O	0	0	0	0
105A	3	2	0	0	0	0	0	0	0	0	0	0	0
D105A	3	2	0	0	0	0	0	0	0	0	0	0	0
D115A	2	0	0	0	0	0	0	0	0	0	0	0	0
115A	2	0	0	0	0	0	0	0	0	0	0	0	0

CF1R-PRF-01-E

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

01		02	03	04	05	0	6	07	08		09
Name	Sys	tem Type	Distribution Ty	pe Water Heater I	Number of Un	Solar H Syst		Compact Distribution	HERS Verif	ication	Nater Heater Name (#)
DHW Sys	1 1	nestic Hot ter (DHW)	Demand Recirculation Manual Contro	79579301	1 1	n,	/a	None	n/a	DH	IW Heater 1 (1
							/ 4				
ATER HEATE	RS										
01	02	03	04	05	06 07	08	09	10	11	12	13
Name	Heating Element Type	Tank Type	# of Units	(gal) Eff	eating ciency Efficiency Type	Rated Input Type	Input Rating or Pilot	Tank Insulation R-value (Int/Ext)	Standby Loss or Recovery Eff	1st Hr. Ratin or Flow Rat	-
DHW Heater 1	Gas	Consumer Instantaneo us	1		UEF 0.96	Btu/Hr	200000	0	n/a	n/a	

Calculation Date/Time: 2024-12-13T10:14:23-08:00

Input File Name: 24-602 24 Tehama (Serwin Res.).ribd22x

01	02		03	04	05	Comment of the same		06		07
Name	Pipe Inst	ulation	Parallel Piping	Compact Distribution	Compact Distri	bution	Recircula	ation Control	Shower	r Drain Water He Recovery
DHW Sys 1 - 1/1	Not Red	quired	Not Required	Not Required	None		Not	Required	N	Not Required
		1	-	The state of the s						
PACE CONDITIONING	G SYSTEMS									
01	02	03	04	05	06	o	7	08		09
Name	System Type	Heating Unit Nam	e Heating Equipment Count	Cooling Unit Name	Cooling Equipment Count	Fan f	lame	Distribution N	ame	Required Thermostat Type
Radiant Heating + A/C1	Heat pump heating cooling	Heat Pump Syster 1	Э 3	Heat Pump System	3	HVAC	Fan 1	Air Distributi System 1	on	Setback

Registration Number: 424-P010317811A-000-000-0000000-0000 Registration Date/Time: 12/17/2024 16:34 HERS Provider: CHEERS

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CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Report Generated: 2024-12-13 10:15:24 Schema Version: rev 20220901

CERTIFICATE OF	COMPLIANC	E - RESIDENTIAL	PERFORMAN	ICE COMPLIA	NCE ME	THOD							CF1R-PRF-01-
Project Name: 2	24 Tehama (Se	erwin Res.)					Calculat	ion Date	/Time: 2024	-12-13T10:14	1:23-08:00		(Page 8 of 14
Calculation Des	cription: Title	24 Analysis					Input Fi	le Name	: 24-602 24 7	ehama (Serw	in Res.).ribd	22x	
FENESTRATION /	GLAZING												
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Туре	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
105A	Window	RWall	Right	100	6	4	1	24	0.39	NFRC	0.28	NFRC	Bug Screen

Schema Version: rev 20220901

02	03	04	05	06	07	08	09	10	11	12	13	14
Туре	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
Window	RWall	Right	100	6	4	1	24	0.39	NFRC	0.28	NFRC	Bug Screen
Window	RWall	Right	100	3	8	1	24	0.39	NFRC	0.28	NFRC	Bug Screen
Window	RWall	Right	100	3,33	8.42	1	28.04	0.39	NFRC	0.28	NFRC	Bug Screen
Window	RWall	Right	100	7.25	10	1	72.5	0,39	NFRC	0.28	NFRC	Bug Screen
Skylight	Flat Roof		0			1	16.4	0.44	NFRC	0.28	NFRC	
	Type Window Window Window Window	Type Surface Window RWall Window RWall Window RWall Window RWall	Type Surface Orientation Window RWall Right Window RWall Right Window RWall Right Window RWall Right Window RWall Right	Type Surface Orientation Azimuth Window RWall Right 100 Window RWall Right 100 Window RWall Right 100 Window RWall Right 100 Window RWall Right 100	Type Surface Orientation Azimuth (ft) Window RWall Right 100 6 Window RWall Right 100 3 Window RWall Right 100 3.33 Window RWall Right 100 7.25	Type Surface Orientation Azimuth (ft) Height (ft) Window RWall Right 100 6 4 Window RWall Right 100 3 8 Window RWall Right 100 3.33 8.42 Window RWall Right 100 7.25 10	Type Surface Orientation Azimuth (ft) Width (ft) Height (ft) Mult. Window RWall Right 100 6 4 1 Window RWall Right 100 3 8 1 Window RWall Right 100 3.33 8.42 1 Window RWall Right 100 7.25 10 1	Type Surface Orientation Azimuth (ft) Width (ft) Height (ft²) Window RWall Right 100 6 4 1 24 Window RWall Right 100 3 8 1 24 Window RWall Right 100 3.33 8.42 1 28.04 Window RWall Right 100 7.25 10 1 72.5	Type Surface Orientation Azimuth (ft) Width (ft) Height (ft) Mult. (ft²) U-factor (ft²) Window RWall Right 100 6 4 1 24 0.39 Window RWall Right 100 3 8 1 24 0.39 Window RWall Right 100 3.33 8.42 1 28.04 0.39 Window RWall Right 100 7.25 10 1 72.5 0.39	Type Surface Orientation Azimuth Width (ft) Height (ft²) Mult. (ft²) U-factor Source Window RWall Right 100 6 4 1 24 0.39 NFRC Window RWall Right 100 3 8 1 24 0.39 NFRC Window RWall Right 100 3,33 8.42 1 28.04 0.39 NFRC Window RWall Right 100 7.25 10 1 72.5 0.39 NFRC	Type Surface Orientation Azimuth (ft) Width (ft) Height (ft²) U-factor (ft²) U-factor Source SHGC Window RWall Right 100 6 4 1 24 0.39 NFRC 0.28 Window RWall Right 100 3 8 1 24 0.39 NFRC 0.28 Window RWall Right 100 3.33 8.42 1 28.04 0.39 NFRC 0.28 Window RWall Right 100 7.25 10 1 72.5 0.39 NFRC 0.28	Type Surface Orientation Azimuth (ft) Width (ft) Mult. (ft²) U-factor (ft²) SHGC Source SHGC Source Window RWall Right 100 6 4 1 24 0.39 NFRC 0.28 NFRC Window RWall Right 100 3 8 1 24 0.39 NFRC 0.28 NFRC Window RWall Right 100 3.33 8.42 1 28.04 0.39 NFRC 0.28 NFRC Window RWall Right 100 7.25 10 1 72.5 0.39 NFRC 0.28 NFRC

OPAQUE DOORS			
01	02	.03	04
Name	Side of Building	Area (ft²)	U-factor
D111A	Partition Wall	24	0.5

OVERHANGS AND FINS													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
		ĺ	Overhang				Left	Fin 🔷			Righ	t Fin	
Window	Depth	Dist Up	Left Extent	Right Extent	Flap Ht.	Depth	Top Up	Dist L	Bot Up	Depth	Тор Uр	Dist R	Bot Up
101B/101C	15.8	0	0	0	0	0	0	0	0	0	0	0	0
D101A	15.8	0	0	0	0	0	0	0	0	0	0	0	0
115B/115C	5	0	0	0	0	0	0	0	0	0	0	0	0
114A	4.8	0	0	0	0	0	0	0	0	0	0	0	0
D114A	4.8	0	0	0	0	0	0	0	0	0	0	0	0

Registration Number: 424-P010317811A-000-000-0000000-00000 Registration Date/Time: 12/17/2024 16:34 HERS Provider: CHEERS

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01-E Project Name: 24 Tehama (Serwin Res.) Calculation Date/Time: 2024-12-13T10:14:23-08:00 (Page 10 of 14) Calculation Description: Title 24 Analysis Input File Name: 24-602 24 Tehama (Serwin Res.).ribd22x

Registration Number: 424-P010317811A-000-00000000-00000 Registration Date/Time: 12/17/2024 16:34 HERS Provider: CHEERS

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Schema Version: rev 20220901

SLAB FLOORS							
01	02	03	04	05	06	07	08
Name	Zone	Area (ft ²)	Perimeter (ft)	Edge Insul. R-value and Depth	Edge Insul. R-value and Depth	Carpeted Fraction	Heated
Slab-on-Grade	Entire House	3737	423.7	none	0	80%	No
Slab-on-Grade2	Garage	768	33.5	none	0	0%	No

01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
R-21 Wall	Exterior Walls	Wood Framed Wall	2x6-@-16 in. O. C.	R-21	None / None	0.069	Inside Finish: Gypsum Board Cavity / Frame: R-21 / 2x6 Exterior Finish: 3 Coat Stucco
Flat R-30 Roof + R-10	Cathedral Ceilings	Wood Framed Ceiling	2x10 @ 15 in. O. C.	R-30	None 710	0.026	Roofing: 5 PSF (Normal Gravel) Above Deck Insulation: R-10 Sheathing Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: R-30 / 2x10 Inside Finish: Gypsum Board
R-21 Wall1	Interior Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-21	None / None	0.064	Inside Finish: Gypsum Board Cavity / Frame: R-21 / 2x6 Other Side Finish: Gypsum Board

Registration Number: 424-P010317811A-000-000-000000000000000000000000000	Registration Date/Time: 12/17/2024 16:34 EERS) using information uploaded by third parties not affiliated with	HERS Provider: CHEERS ith or related to CHEERS. Therefore, CHEERS is not responsible fo
CA Building Energy Efficiency Standards - 2022 Residential Compliance	Report Version: 2022.0.000	Report Generated: 2024-12-13 10:15:24
	Sahama Varsian, ray 20220001	

Schema Version: rev 20220901

Quality Insulation Installation (QII) High R-value Spray Foam Insulation

03

Building Envelope Air Leakage

CFM50

CFM50

n/a

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: 24 Tehama (Serwin Res.)

Calculation Description: Title 24 Analysis

HVAC HEAT PUMPS - HERS VERIFICATION

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: 24 Tehama (Serwin Res.)

Calculation Description: Title 24 Analysis

Calculation Date/Time: 2024-12-13T10:14:23-08:00 Input File Name: 24-602 24 Tehama (Serwin Res.).ribd22x

·		, 				_						
HVAC - HEAT PUMPS	i											
01	02	03	04	05	06	07	08	09	10	11	12	13
				Heati	ng 💮			Cooling				
Name	System Type	Number of Units	Heating Efficiency Type	HSPF/HS PF2/COP	Cap 47	Cap 17	Cooling Efficiency Type	SEER/SE ER2	EER/EER 2/CEER	Zonally Controlled	Compressor Type	HERS Verification
Heat Pump System 1	Air to water HP	3	n/a	n/a	76773	n/a	n/a	n/a	n/a	Not Zonal	Single Speed	Heat Pump System 1-hers-htpump

01	02	03	, C)4	0	5	0)6/ /	07	08	09
Name	Verified Airflow	Airflow Target	Verified	EER/EER2	Veri SEER/	fied SEER2	400000000000000000000000000000000000000	lefrigerant arge	Verified HSPF/HSPF2	Verified Heating Cap 47	Verified Heating Cap 17
Heat Pump System 1-hers-htpump	Required	350	Not Re	equired	Not Re	quired	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	6	No	Yes	No
					N ,						
HVAC - DISTRIBUTIO	N SYSTEMS		1//			Z	F				
01	02	03	04	05	06	07	08	09	10	11	12
Nome	Time	Davies T	Duct Ins	. R-value	Duct Lo	ocation	Surfac	e Area	- P	Durat Lankson	LIEDE Verification
Name	Туре	Design Type	Supply	Return	Supply	Return	Supply	Return	Bypass Duct	Duct Leakage	HERS Verification
Air Distribution System 1	Conditioned space-entirely	Non-Verified	R-6	R-6	Conditi oned Zone	Conditi oned Zone	n/a	n/a_	No Bypass Duct	Sealed and Tested	Air Distribution System 1-hers-dist

Registration Number: 424-P010317811A-000-000-0000000-00000 Registration Date/Time: 12/17/2024 16:34 HERS Provider: CHEERS

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REVISIONS: BY:

CF1R-PRF-01-E

(Page 11 of 14)

CF1R-PRF-01-E

(Page 12 of 14)

GROUP
Igineering
armel, CA 9392
eyenergygroup.com



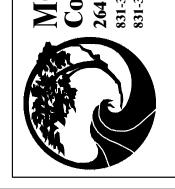
DATE: 12/18/2024 SCALE: AS NOTED DRAWN: MEG CHECKED:

CHECKED:

SHEET:

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: 24 Tehama (Serwin Res.) Calculation Date/Time: 2024-12-13T10:14:23-08:00 Calculation Description: Title 24 Analysis Input File Name: 24-602 24 Tehama (Serwin Res.), ribd22x DOCUMENTATION AUTHOR'S DECLARATION STATEMENT 1. I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: Michael Hafner Company: Monterey Energy Group Address: Documentation Author Planeth Planet	The Control Language Post Language Verifications Description of Control Language Verifications Description	
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System 1-hars did no sequence (so the sequence of the sequence	Seption: Service date: 10% 10% 10% 10% 10% 10% 10% 10% 10% 10%	Space Space
NAME - NAME STREAMS SIX D2 G3 G4 Name Type Mark Crist D2 G3 G4 NAME Crist D4 Cris	THE CONTROL OF THE STATE OF THE	System 1-hers-dist Yes 5.0 Required Not Requ
NAME FOR 1 NOVE FOR 1	Name Notice Notic	
HWAC Fan 1 Manue Wortlief Pas Witt Draw Required Fas Biflicary (Netru/CFM) HWAC Fan 1-bert-fan Required So Si Network Fan Strict	HOLD CAN STREAM FOR THE VERDICATION OR STREAM FOR THE VERDICATION	
INAC Fon 1 here from Name Verified Ren Wert Draw Required O.38 NAME Verified Ren Wert Draw Required Ren efficacy (Nets/CrM) NAME Net Net	Note that states with the control of	HVAC Fan 1 HVAC Fan 0.58 HVAC Fan 1-hers-fan
Name Verified Firs West Draw Required Fan Efficacy (Worts/CDM) INDOOR AIR QUALITY (AQ) FANS D1 02 03 04 05 06 07 08 09 Develing Unit Airflow (EFM) Fan Efficacy (Worts) Day Includes Fault Face of Complement of Workship (Worts) Sens (AC) Fan Face of Complement of C	Name Na	
Required C.S.B	FROME Fire 1-bers fair REGORDA ARE GUARTY (Agr) ARSS ON 12 2 3 3 04 65 106 07 08 09 Descring table Aurinos (CTA) Intelligency 14 10 Feb Tiggery 14 10 Feb	
ON ORDER AIR QUARTY (AQ) FANS O1 O2 O3 O4- O5 O6 O7 O8 O9 Dwelling Unit Airflow (CTM) Fan Efficacy (W/CTM) (AQ Fan Type Heat/Deepty Effectioness - Includes Fault Indicator Display) Has Version (W/CTM) (AQ Fan Type Heat/Deepty Effectioness - Includes Fault Indicator Display) Has Version (W/CTM) (AQ Fan Type Heat/Deepty Effectioness - Includes Fault Indicator Display) Has Version (W/CTM) (W/CTM) (AQ Fan Type Heat/Deepty Effectioness - Includes Fault Indicator Display) Has Version (W/CTM) (W/CTM) (AQ Fan Type Heat/Deepty Effectioness - Includes Fault Indicator Display) Has Version (W/CTM) (W/	Deciding Line Air flow (CFM) Fan tifficacy W/FMN U/G I'm Type Indicates Head forcery University Indicates	
Dwelling Unit Airflow (CFM) Fan Efficacy (N/CFM) IAQ Fan Type Heal/ Finergy Effectiveness Includes Fault Indicator Dipplay? Shari IALVertript 1 138 0.702899 Balanced Yes 75 / 80 Yes Yes Yes PROJECT NOTE Balanced ventilation system required to meet the state energy code. (2) Panasonic FV 50VE3 modeled for compliance. If substituted provide CFM, Wetts and unit efficiency prior to installation. Registration Purpose: 42-P3-1013718 10-000-000000000000000000000000000000	Desiring Libit Airflow (FAM) Fin Efficacy (WCFM) Add Ron Type Interesting State Add Rose State Interesting Interesting State Interesting State Interesting Interesting Interesting State Interesting I	
Dwelling Unit Aurillow (FM) (MYCH) (AC) Fan Type Recovery? SFEI (ASE) FRECKEMENT SFEI (ASE) FRECKEMENT 138 0.702899 Balanced Ves 75 / 80 Yes Yes PROJECT NOTES Balanced werditation system required to meet the state energy code. (2) Panasonic PV-10VE2 modeled for compliance. If substituted provide CFM, Watts and unit efficiency prior to installation. Registration Number: 424-P010317811A-000-000-0000000-0000 MYTCE: This descreated has been percentage for compliance of the state	Documentary Annual Services and Completes an	01 02 03 04 05 06 07 08 09
Seam MACVentRot 138 0.702899 Balanced Yes 75 / 80 Ves Ves 1-1 PROJECT NOTES Balanced ventilation system required to meet the state energy code. [2] Panasonic FV-10VE2 modeled for compliance. If substituted provide CFM, Watts and unit efficiency prior to installation. Registration Number: \$24-PD 10337874 ACOD-000-00000000000000000000000000000000	Sean MACROSTOR 138 0.702699 Balanced Yes 75 / 80 Yes Wes PROJECT NOTIS Balanced ventilation system required to meet the state energy code. (2] Parasonic Py 100/23 modeled for compliance. if substituted provide CHM, Withis and unit efficiency gries to installation. Inagerication Date/Time. 197170204 1834 Project Name: 24 679-0437811A-030-000-0000000000000000000000000000	Dwelling Unit
PROJECT NOTES Balanced writing the project in the state energy code. (2) Panasonic PN-10VE2 modeled for compiliance. If substituted provider CFM, Watts and unit efficiency prior to installation. Registration Number: 424-69103178114-000-000-000000000000000 Registration Number: 424-69103178114-000-000-000000000000000000000000000	PROJECT NOTES Basines de ventilation system required to meet the state energy code. (2) Prinsposite PV-10/12 modelec for compliance. Il substituted provider CFM, Wasts and unit efficiently prior to installation. Registration Number: 624-670(3315) 14-660-600-00000000000000000000000000000	Recovery? SRE/ASRE Indicator Display?
Balanced ventilation system required to meet the state energy code. (2) Panasonic PV-10VE2 modeled for compliance. If substituted provide CFM, Watts and unit efficiency prior to installation. Registration Number: 424-P010317811A-Q00-000-0000000000000000000000000000	Registration Numbers (64-P0137781 - 550-000-200000-2000) Registration Numbers (64-P0137781 - 550-000-200000-2000) Registration Numbers (64-P0137878 - 550-000-200000-20000-2000) Registration Numbers (64-P0137878 - 550-000-200000-200	
Registration Number: 424-8010317811h.000.000.000000000000000000000000000	Registration Namiber: 424-F010178114-000-000-000000000000000000000000000	
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Documentation Author Name: Michael Hafner Company: Monterey Energy Group Address: 26465 Carmel Rancho Blvd. #8 City/State/Tip: Carmel, CA 93923 RESPONSIBLE PERSON'S DECLARATION STATEMENT Lecrify the following under penalty of perjury, under the laws of the State of California: 1. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance. 2. Lecrify that the energy features and performance specifications identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit applications. Responsible Designer Name: Juancarlos Fernandez Company: signum architecture Address: 1675 2nd St City/State/Zip: Napa, CA 94559	Documentation Author Name: Michael Haffner Company: Montrery Energy Group Address: 26465 Carmel Rancho Blvd. #8 City/State/Zip: Carmel, CA 93923 RESPONSIBLE PERSON'S DELIARATION STATEMENT Tecrify the following under penalty of pedigin, under the lower of the State of California. 1. I am eligible under Division 3 of the Business and Professions (ode to a drop responsibility for the building design feetful of finite Certificate of Compliance. 2. I carrier, that the energy features and performance separations is Restricted in this Certificate of Compliance are consistent with the infernation provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for disposary of the infernation provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for disposary with the infernation provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for disposary with the infernation provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for disposary with the infernation provided on other applicable compliance documents, worksheets, calculations. Responsible Designer Name: Juancacinos Fernandez Company: Signum architecture Address: 1675 2nd 5t City/State/Cip. Napa, CA 34559 Registration Number: 424-PD10317811A-000-0000000000000000000000000000000	Project Name: 24 Tehama (Serwin Res.) Calculation Date/Time: 2024-12-13T10:14:23-08:00 (Page 14 of 14) Calculation Description: Title 24 Analysis Input File Name: 24-602 24 Tehama (Serwin Res.).ribd22x
Company: Monterey Energy Group Address: 26455 Carmel Rancho Blvd. #8 R22-18-40041 City/State/Zip: Carmel, CA 93923 RESPONSIBLE PERSON'S DECLARATION STATEMENT Lertify the following under penalty of perjury, under the laws of the State of California: 1. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance. 2. Lertify that the energy features and performance specifications identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. Responsible Designer Name: Juancarlos Fernandez Company: signum architecture Address: 1675 2nd St City/State/Zip: Napa, CA 94559	Monterey Finergy Group Address: 26465 Carmel, Rancho Blvd. #8 CEX/MERS Certification (if applicable): R22-18-40041 City/State/Ziz: Carmel, CA 93923 RESPONSIBLE PERSON'S DECLARATION STATEMENT Lettly the following under penalty of perjury, under the laws of the State of California 1. I am eligible under Division 3 of the Business and Professions (social to accept responsibility for the building design identified on this Certificate of Compliance. 2. I certify that the energy festions and performance specification (social to this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, accurations, plans and specifications submitted to the enforcement general for State of Sta	1. I certify that this Certificate of Compliance documentation is accurate and complete.
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2022 Single-Family Residential Mandatory Requirements Summary

NOTE: Single-family residential buildings subject to the Energy Codes must comply with all applicable mandatory measures, regardless of the compliance approach

Building Envelo	pe:
§ 110.6(a)1:	Air Leakage. Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 CFM per square foot or less when tested per NFRC-400, ASTM E283, or AAMA/WDMA/CSA 101/I.S.2/A440-2011. *
§ 110.6(a)5:	Labeling. Fenestration products and exterior doors must have a label meeting the requirements of § 10-111(a).
§ 110.6(b):	Field fabricated exterior doors and fenestration products must use U-factors and solar heat gain coefficient (SHGC) values from Tables 110.6-A, 110.6-B, or JA4.5 for exterior doors. They must be caulked and/or weather-stripped. *
§ 110.7:	Air Leakage. All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be caulked, gasketed, or weather stripped.
§ 110.8(a):	Insulation Certification by Manufacturers. Insulation must be certified by the Department of Consumer Affairs, Bureau of Household Goods and Services (BHGS).
§ 110.8(g):	Insulation Requirements for Heated Slab Floors. Heated slab floors must be insulated per the requirements of § 110.8(g).
§ 110.8(i):	Roofing Products Solar Reflectance and Thermal Emittance. The thermal emittance and aged solar reflectance values of the roofing material must meet the requirements of § 110.8(i) and be labeled per §10-113 when the installation of a cool roof is specified on the CF1R.
§ 110.8(j):	Radiant Barrier. When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Consuma Affairs.
§ 150.0(a):	Roof Deck, Ceiling and Rafter Roof Insulation. Roof decks in newly constructed attics in climate zones 4 and 8-16 area-weighted average U-factor not exceeding U-0.184. Ceiling and rafter roofs minimum R-22 insulation in wood-frame ceiling; or area-weighted average U-factor must not exceed 0.043. Rafter roof alterations minimum R-19 or area-weighted average U-factor of 0.054 or less. Attic access doors must have permanently attached insulation using adhesive or mechanical fasteners. The attic access must be gasketed to prevent air leakage. Insulation must be installed in direct contact with a roof or ceiling which is sealed to limit infiltration and exfiltration as specified in § 110.7, including but not limited to placing insulation either above or below the roof deck or on top of a drywall ceiling.
§ 150.0(b):	Loose-fill Insulation. Loose fill insulation must meet the manufacturer's required density for the labeled R-value.
§ 150.0(c):	Wall Insulation. Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less, or R-20 in 2x6 inch wood framing or have a U-factor of 0.071 or less. Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0.1 Masonry walls must meet Tables 150.1-A or B. *
§ 150.0(d):	Raised-floor Insulation. Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor. *
§ 150.0(f):	Slab Edge Insulation. Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alo without facings, no greater than 0.3 percent; have a water vapor permeance no greater than 2.0 perm per inch; be protected from physical damage and UV light deterioration; and, when installed as part of a heated slab floor, meet the requirements of § 110.8(g).
§ 150.0(g)1:	Vapor Retarder. In climate zones 1 through 16, the earth floor of unvented crawl space must be covered with a Class I or Class II vapor retarder. This requirement also applies to controlled ventilation crawl space for buildings complying with the exception to §150.0(d).
§ 150.0(g)2:	Vapor Retarder. In climate zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all insulation in all exterior walls, vented attics, and unvented attics with air-permeable insulation.
§ 150.0(q):	Fenestration Products. Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must be a maximum U-factor of 0.45; or area-weighted average U-factor of all fenestration must not exceed 0.45.

§ 150.0(q):	a maximum U-factor of 0.45; or area-weighted average U-factor of all fenestration must not exceed 0.45.
Fireplaces, Dece	prative Gas Appliances, and Gas Log:
§ 110.5(e)	Pilot Light. Continuously burning pilot lights are not allowed for indoor and outdoor fireplaces.
§ 150.0(e)1:	Closable Doors. Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebo
§ 150.0(e)2:	Combustion Intake. Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inches area and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device. *

8 150.0(e)1:	Closable bools. Masonly of factory-built fireplaces must have a closable metal of glass door covering the entire opening of the firet
§ 150.0(e)2:	Combustion Intake. Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inchearea and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device.
§ 150.0(e)3:	Flue Damper. Masonry or factory-built fireplaces must have a flue damper with a readily accessible control.*
Space Conditioni	ng, Water Heating, and Plumbing System:
§ 110.0-§ 110.3:	Certification. Heating, ventilation, and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other

3	regulated appliances must be certified by the mandiacturer to the Camornia Energy Commission.
§ 110.2(a):	HVAC Efficiency. Equipment must meet the applicable efficiency requirements in Table 110.2-A through Table 110.2-N.*
§ 110.2(b):	Controls for Heat Pumps with Supplementary Electric Resistance Heaters. Heat pumps with supplementary electric resistance heaters must have controls that prevent supplementary heater operation when the heating load can be met by the heat pump alone; and in which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating.
§ 110.2(c):	Thermostats. All heating or cooling systems not controlled by a central energy management control system (EMCS) must have a setback thermostat. *
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Insulation. Unfired service water heater storage tanks and solar water-heating backup tanks must have adequate insulation, or tank surface heat loss rating. **Isolation Valves.** Instantaneous water heaters with an input rating greater than 6.8 kBtu per hour (2 kW) must have isolation valves with hose bibbs or other fittings on both cold and hot water lines to allow for flushing the water heater when the valves are closed.

5/6/22



2022 Single-Family Residential Mandatory Requirements Summary

NAME OF TAXABLE PARTY.	
§ 110.5:	Pilot Lights. Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces; household cooking appliances (except appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu per hour); and pool and
	spa heaters.*
§ 150.0(h)1:	Building Cooling and Heating Loads. Heating and/or cooling loads are calculated in accordance with the ASHRAE Handbook, Equipment Volume, Applications Volume, and Fundamentals Volume; the SMACNA Residential Comfort System Installation Standards Manual; or the ACCA Manual J using design conditions specified in § 150.0(h)2.
§ 150.0(h)3A:	Clearances. Air conditioner and heat pump outdoor condensing units must have a clearance of at least five feet from the outlet of any dryer.
§ 150.0(h)3B:	Liquid Line Drier. Air conditioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the manufacturer's instructions.
§ 150.0(j)1:	Water Piping, Solar Water-heating System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must be insulated as specified in § 609.11 of the California Plumbing Code.*
§ 150.0(j)2:	Insulation Protection. Piping insulation must be protected from damage, including that due to sunlight, moisture, equipment' maintenance, and wind as required by §120.3(b). Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes). Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space must include, or be protected by, a Class I or Class II vapor retarder. Pipe insulation buried below grade must be installed in a waterproof and non-crushable casing or sleeve.
§ 150.0(n)1:	Gas or Propane Water Heating Systems. Systems using gas or propane water heaters to serve individual dwelling units must designate a space at least 2.5' x 2.5' x 7' suitable for the future installation of a heat pump water heater, and meet electrical and plumbing requirements, based on the distance between this designated space and the water heater location; and a condensate drain no more than 2" higher than the base of the water heater
§ 150.0(n)3:	Solar Water-heating Systems. Solar water-heating systems and collectors must be certified and rated by the Solar Rating and Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing (IAPMO R&T), or by a listing agency that is approved by the executive director.
ucts and Fans:	
§ 110.8(d)3:	Ducts. Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC). If a contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement.
	CMC Compliance. All air-distribution system ducts and plenums must meet CMC §§ 601.0-605.0 and ANSI/SMACNA-006-2006 HVAC

§ 110.8(d)3:	contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement.
§ 150.0(m)1:	CMC Compliance. All air-distribution system ducts and plenums must meet CMC §§ 601.0-605.0 and ANSI/SMACNA-006-2006 HVAC Duct Construction Standards Metal and Flexible 3rd Edition. Portions of supply-air and return-air ducts and plenums must be insulated to R-6.0 or higher; ducts located entirely in conditioned space as confirmed through field verification and diagnostic testing (RA3.1.4.3.8) do not require insulation. Connections of metal ducts and inner core of flexible ducts must be mechanically fastened. Openings must be sealed with mastic, tape, or other duct-closure system that meets the applicable UL requirements, or aerosol sealant that meets UL 723. The combination of mastic and either mesh or tape must be used to seal openings greater than ¼", If mastic or tape is used. Building cavities, air handler support platforms, and plenums designed or constructed with materials other than sealed sheet metal, duct board or flexible duct must not be used to convey conditioned air. Building cavities and support platforms may contain ducts; ducts installed in these spaces must not be compressed. *
	Factory-Fabricated Duct Systems. Factory-fabricated duct systems must comply with applicable requirements for duct construction,

	these spaces must not be compressed.
	Factory-Fabricated Duct Systems. Factory-fabricated duct systems must comply with applicable requirements for duct construction,
§ 150.0(m)2:	connections, and closures; joints and seams of duct systems and their components must not be sealed with cloth back rubber adhesive
	duct tapes unless such tape is used in combination with mastic and draw bands.
	Field-Fabricated Duct Systems. Field-fabricated duct systems must comply with applicable requirements for: pressure-sensitive tapes,
§ 150.0(m)3:	mastics, sealants, and other requirements specified for duct construction.
	Backdraft Damner, Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic

50.0(m)7:	Backdraft Damper. Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic dampers.
50.0(m)8:	Gravity Ventilation Dampers. Gravity ventilating systems serving conditioned space must have either automatic or readily accessible, manually operated dampers in all openings to the outside, except combustion inlet and outlet air openings and elevator shaft vents.
50.0(m)9:	Protection of Insulation. Insulation must be protected from damage due tosunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather must be suitable for outdoor service (e.g., protected by aluminum, sheet metal, painted canvas, or plastic cover). Cellular foam insulation must be protected as above or painted with a water retardant and solar radiation-resistant coating.
50.0(m)10·	Parous Inner Core Fley Duct. Parous inner cores of fley ducts must have a non-norous layer or air harrier between the inner core and

§ 150.0(m)9:	Insulation exposed to weather must be suitable for outdoor service (e.g., protected by aluminum, sheet metal, painted canvas, or plastic cover). Cellular foam insulation must be protected as above or painted with a water retardant and solar radiation-resistant coating.
§ 150.0(m)10:	Porous Inner Core Flex Duct. Porous inner cores of flex ducts must have a non-porous layer or air barrier between the inner core and
	outer vapor barrier.
	Duct System Sealing and Leakage Test. When space conditioning systems use forced air duct systems to supply conditioned air to an
§ 150.0(m)11:	occupiable space, the ducts must be sealed and duct leakage tested, as confirmed through field verification and diagnostic testing, in
	accordance with Reference Residential Annendix RA3 1

Air Filtration. Space conditioning systems with ducts exceeding 10 feet and the supply side of ventilation systems must have MERV 13 § 150.0(m)12: or equivalent filters. Filters for space conditioning systems must have a two inch depth or can be one inch if sized per Equation 150.0-A. Clean-filter pressure drop and labeling must meet the requirements in §150.0(m)12. Filters must be accessible for regular service. Filter racks or grilles must use gaskets, sealing, or other means to close gaps around the inserted filters to and prevents air from bypassing the



2022 Single-Family Residential Mandatory Requirements Summary

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§ 150.0(k)1G:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8.*
§ 150.0(k)1H:	Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)11:	Light Sources in Drawers, Cabinets, and Linen Closets. Light sources internal to drawers, cabinetry or linen closets are not required to comply with Table 150.0-A or be controlled by vacancy sensors provided that they are rated to consume no more than 5 watts of power, emit no more than 150 lumens, and are equipped with controls that automatically turn the lighting off when the drawer, cabinet or linen closet is closed.
§ 150.0(k)2A:	Interior Switches and Controls. All forward phase cut dimmers used with LED light sources must comply with NEMA SSL 7A.
§ 150.0(k)2B:	Interior Switches and Controls. Exhaust fans must be controlled separately from lighting systems. *
§ 150.0(k)2A:	Accessible Controls. Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned on and off. *
§ 150.0(k)2B:	Multiple Controls. Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the dimmer or sensor is installed to comply with § 150.0(k).
§ 150.0(k)2C:	Mandatory Requirements. Lighting controls must comply with the applicable requirements of § 110.9.
§ 150.0(k)2D:	Energy Management Control Systems. An energy management control system (EMCS) may be used to comply with dimming, occupancy, and control requirements if it provides the functionality of the specified control per § 110.9 and the physical controls specified in § 150.0(k)2A.
§ 150.0(k)2E:	Automatic Shutoff Controls. In bathrooms, garages, laundry rooms, utility rooms and walk-in closets, at least one installed luminaire must be controlled by an occupancy or vacancy sensor providing automatic-off functionality. Lighting inside drawers and cabinets with opaque fronts or doors must have controls that turn the light off when the drawer or door is closed.
§ 150.0(k)2F:	Dimmers. Lighting in habitable spaces (e.g., living rooms, dining rooms, kitchens, and bedrooms) must have readily accessible wall-mounted dimming controls that allow the lighting to be manually adjusted up and down. Forward phase cut dimmers controlling LED light sources in these spaces must comply with NEMA SSL 7A.
§ 150.0(k)2K:	Independent controls. Integrated lighting of exhaust fans shall be controlled independently from the fans. Lighting under cabinets or shelves, lighting in display cabinets, and switched outlets must be controlled separately from ceiling-installed lighting.
§ 150.0(k)3A:	Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or to other buildings on the same lot, must have a manual on/off switch and either a photocell and motion sensor or automatic time switch control) or an astronomical time clock. An energy management control system that provides the specified control functionality and meets all applicable requirements may be used to meet these requirements.
§ 150.0(k)4:	Internally illuminated address signs. Internally illuminated address signs must either comply with § 140.8 or consume no more than 5 watts of power.
	Residential Garages for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply with the

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olar Readiness	
§ 110.10(a)1:	Single-family Residences. Single-family residences located in subdivisions with 10 or more single-family residences and where the application for a tentative subdivision map for the residences has been deemed complete and approved by the enforcement agency, which do not have a photovoltaic system installed, must comply with the requirements of § 110.10(b)-(e).
§110.10(b)1A:	Minimum Solar Zone Area. The solar zone must have a minimum total area as described below. The solar zone must comply with access, pathway, smoke ventilation, and spacing requirements as specified in Title 24, Part 9 or other parts of Title 24 or in any requirements adopted by a local jurisdiction. The solar zone total area must be comprised of areas that have no dimension less than 5 feet and are no less than 80 square feet each for buildings with roof areas less than or equal to 10,000 square feet or no less than 160 square feet each for buildings with roof areas greater than 10,000 square feet. For single-family residences, the solar zone must be located on the roof or overhang of the building and have a total area no less than 250 square feet.
§ 110.10(b)2:	Azimuth. All sections of the solar zone located on steep-sloped roofs must have an azimuth between 90-300° of true north.
§ 110.10(b)3A:	Shading. The solar zone must not contain any obstructions, including but not limited to: vents, chimneys, architectural features, and roof mounted equipment.*
§ 110.10(b)3B:	Shading. Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice the horizontal distance of the height difference between the highest point of the obstruction and the horizontal projection of the nearest point of the solar zone, measured in the vertical plane.*
§ 110.10(b)4:	Structural Design Loads on Construction Documents. For areas of the roof designated as a solar zone, the structural design loads for roof dead load and roof live load must be clearly indicated on the construction documents.
§ 110.10(c):	Interconnection Pathways. The construction documents must indicate: a location reserved for inverters and metering equipment and a pathway reserved for routing of conduit from the solar zone to the point of interconnection with the electrical service; and for single-family

residences and central water-heating systems, a pathway reserved for routing plumbing from the solar zone to the water-heating system.

Documentation. A copy of the construction documents or a comparable document indicating the information from § 110.10(b)-(c) must be Main Electrical Service Panel. The main electrical service panel must have a minimum busbar rating of 200 amps.

Main Electrical Service Panel. The main electrical service panel must have a reserved space to allow for the installation of a double pole § 110.10(e)2: Main Electrical Service Panel. The main electrical service panel must have a servi

Electric and Energy Storage Ready:



2022 Single-Family Residential Mandatory Requirements Summary

Space Conditioning System Airflow Rate and Fan Efficacy. Space conditioning systems that use ducts to supply cooling must have § 150.0(m)13: be ≥ 350 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.45 watts per CFM for gas furnace air handlers and ≤ 0.58 watts per CFM for all others. Small duct high velocity systems must provide an airflow ≥ 250 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.62 watts per CFM. Field verification testing is required in accordance with Reference Residential Appendix RA3.3. *

Ventilation and Indoor Air Quality:			
8 150 0(a)1·	Requirements for Ventilation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2,		

150.0(0)1:	Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(o)1.*
150.0(o)1B:	Central Fan Integrated (CFI) Ventilation Systems. Continuous operation of CFI air handlers is not allowed to provide the whole-dwelling unit ventilation airflow required per §150.0(o)1C. A motorized damper(s) must be installed on the ventilation duct(s) that prevents all airflow through the space conditioning duct system when the damper(s) is closed and controlled per §150.0(o)1Biii&iv. CFI ventilation systems must have controls that track outdoor air ventilation run time, and either open or close the motorized damper(s) for compliance with §150.0(o)1C.
150.0(o)1C:	Whole-Dwelling Unit Mechanical Ventilation for Single-Family Detached and townhouses. Single-family detached dwelling units, and attached dwelling units not sharing ceilings or floors with other dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical ventilation airflow specified in § 150.0(o)1Ci-iii.
150.0(o)1G:	Local Mechanical Exhaust. Kitchens and bathrooms must have local mechanical exhaust; nonenclosed kitchens must have demand-controlled exhaust system meeting requirements of §150.0(o)1Giii,enclosed kitchens and bathrooms can use demand-controlled or continuous exhaust meeting §150.0(o)1Giii-iv. Airflow must be measured by the installer per §150.0(o)1Gv, and rated for sound per §150.0(o)1Gvi. *
150.0(o)1H&I:	Airflow Measurement and Sound Ratings of Whole-Dwelling Unit Ventilation Systems. The airflow required per § 150.0(o)1C must be measured by using a flow hood, flow grid, or other airflow measuring device at the fan's inlet or outlet terminals/grilles per Reference Residential Appendix RA3.7. Whole-Dwelling unit ventilation systems must be rated for sound per ASHRAE 62.2 §7.2 at no less than the minimum airflow rate required by §150.0(o)1C.
150.0(o)2:	Field Verification and Diagnostic Testing. Whole-Dwelling Unit ventilation airflow, vented range hood airflow and sound rating, and HRV and ERV fan efficacy must be verified in accordance with Reference Residential Appendix RA3.7. Vented range hoods must be verified per Reference Residential Appendix RA3.7.4.3 to confirm if it is rated by HVI or AHAM to comply with the airflow

Pool and Spa Systems and Equipment: Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following: compliance

§ 110.4(a):	with the Appliance Efficiency Regulations and listing in MAEDbS; an on-off switch mounted outside of the heater that allows shutting the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must no use electric resistance heating. *
§ 110.4(b)1:	Piping. Any pool or spa heating system or equipment must be installed with at least 36 inches of pipe between the filter and the heat dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating.
§ 110.4(b)2:	Covers. Outdoor pools or spas that have a heat pump or gas heater must have a cover.
& 110 4/b\3·	Directional Inlets and Time Switches for Pools. Pools must have directional inlets that adequately mix the pool water, and a time

suitch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods. Pilot Light. Natural gas pool and spa heaters must not have a continuously burning pilot light.

§ 150.0(p):	Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pump sizing, flow rate, piping, filters, and valves. *
ighting:	
§ 110.9:	Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirements of § 110.9. *
§ 150.0(k)1A:	Luminaire Efficacy. All installed luminaires must meet the requirements in Table 150.0-A, except lighting integral to exhaust fans, kitchen range hoods, bath vanity mirrors, and garage door openers; navigation lighting less than 5 watts; and lighting internal to drawers, cabinets, and liner closets with an efficacy of at least 45 lumens per watt.
150.0(k)1B:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8. *
§ 150.0(k)1C:	Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must not contain screw based sockets, must be airtight, and must be sealed with a gasket or caulk. California Electrical Code § 410.116 must also be met.
§ 150.0(k)1D:	Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)1E:	Blank Electrical Boxes. The number of electrical boxes that are more than five feet above the finished floor and do not contain a

luminaire or other device shall be no more than the number of bedrooms. These boxes must be served by a dimmer, vacancy sensor

control, low voltage wiring, or fan speed control. Lighting Integral to Exhaust Fans. Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoods) must meet the applicable requirements of § 150.0(k). * § 150.0(k)1F:

rates and sound requirements per §150.0(o)1G

2022 Single-Family Residential Mandatory Requirements Summary

§ 150.0(s)	Energy Storage System (ESS) Ready. All single-family residences must meet all of the following: Either ESS-ready interconnection equipment with backed up capacity of 60 amps or more and four or more ESS supplied branch circuits, or a dedicated raceway from the main service to a subpanel that supplies the branch circuits in § 150.0(s); at least four branch circuits must be identified and have their source collocated at a single panelboard suitable to be supplied by the ESS, with one circuit supplying the refrigerator, one lighting circuit near the primary exit, and one circuit supplying a sleeping room receptacle outlet; main panelboard must have a minimum busbar rating 225 amps; sufficient space must be reserved to allow future installation of a system isolation equipment/transfer switch within 3' of the manufloard, with raceways installed between the panelboard and the switch location to allow the connection of backup power source.
§ 150.0(t)	Heat Pump Space Heater Ready. Systems using gas or propane furnaces to serve individual dwelling units must include: A dedicated unobstructed 240V branch circuit wiring installed within 3' of the furnace with circuit conductors rated at least 30 amps with the blank cov identified as "240V ready;" and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."
§ 150.0(u)	Electric Cooktop Ready. Systems using gas or propane cooktop to serve individual dwelling units must include: A dedicated unobstruct 240V branch circuit wiring installed within 3' of the cooktop with circuit conductors rated at least 50 amps with the blank cover identified a "240V ready;" and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."
§ 150.0(v)	Electric Clothes Dryer Ready. Clothes dryer locations with gas or propane plumbing to serve individual dwelling units must include: A dedicated unobstructed 240V branch circuit wiring installed within 3' of the dryer location with circuit conductors rated at least 30 amps w the blank cover identified as "240V ready," and a reserved main electrical service panel space to allow for the installation of a double policircuit breaker permanently marked as "For Future 240V use."

*Exceptions may apply.

5/6/22

REVISIONS: BY:

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DATE: 12/18/2024 SCALE: AS NOTED

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GENERAL NOTES 1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS HERE ON. IN ADDITION ALL WORK SHALL ALSO COMPLY WITH TITLE 24 AND 2022 CALIFORNIA BUILDING CODE, CALIFORNIA MECHANICAL CODE, CALIFORNIA PLUMBING CODE, CALIFORNIA RESIDENTIAL CODE, CALIFORNIA ELECTRICAL CODE, AND THE CALIFORNIA ENERGY CODE AS THEY MAY APPLY. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE MONTEREY COUNTY PLANNING AND BUILDING INSPECTION DEPARTMENT AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS, DETAILS, SPECIFICATIONS AND SITE CONDITIONS PRIOR TO THE 4. IN THE EVENT THAT THE CONTRACTOR FINDS A CONFLICT OR A DEFICIENCY IN THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER, THE OWNER, AND OR THE OWNER'S REPRESENTATIVE(S) IMMEDIATELY. ALL REVISIONS TO THESE PLANS MUST BE APPROVED BY THE ENGINEER PRIOR TO THEIR CONSTRUCTION, AND SHALL BE ACCURATELY SHOWN ON 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. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE EXISTING TOPOGRAPHY SHOWN, NOR THE ACCURACY OF THE DELINEATION OF SAID UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED AND ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR IS HEREBY NOTIFIED THAT, PRIOR TO COMMENCING CONSTRUCTION HE IS RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES INVOLVED AND REQUESTING A VISUAL VERIFICATION OF THEIR UNDERGROUND UTILITIES AND OR FACILITIES. REPAIR OF DAMAGE TO ANY UNDERGROUND UTILITY OR FACILITY SHALL BE MADE AT THE CONTRACTORS EXPENSE. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AT (800) 642-2444 AT LEAST 48 HOURS PRIOR TO THE START OF WORK TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL LEAVE A 24-HOUR EMERGENCY TELEPHONE NUMBER WITH THE SHERIFF, FIRE DEPARTMENT, AND PRIVATE SECURITY COMPANY (IF APPLICABLE), AND KEEP THEM INFORMED DAILY REGARDING ANY CONSTRUCTION RELATED ACTIVITY 9. EXISTING CURB, GUTTER, SIDEWALK, SURVEY MONUMENTS, AND OTHER IMPROVEMENTS WITHIN PROJECT SITE THAT ARE DAMAGED OR DISPLACED SHALL BE REPLACED AS DIRECTED BY THE COUNTY AND OR THE ENGINEER AT THE CONTRACTOR'S EXPENSE WHETHER SHOWN ON THE PLANS OR NOT, EVEN IF DAMAGE OR DISPLACEMENT WAS NOT CAUSED BY ACTUAL WORK PERFORMED BY THE CONTRACTOR. UNLESS NOTED OTHERWISE.

11. THE CONTRACTOR ASSUMES SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS AND SAFETY OF ALL PERSONS AND PROPERTY DURING THE COURSE OF CONSTRUCTION OF THE PROJECT AND SHALL HOLD HARMLESS, INDEMNIFY AND DEFEND THE OWNER AND THE ENGINEER 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 12. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PREVENT AIRBORNE DUST FROM BECOMING A NUISANCE TO 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

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. KEEP CONSTRUCTION AREAS AND ADJACENT STREET FREE OF MUD AND DUST.

LANDSCAPE, SEED, OR COVER PORTIONS OF THE SITE AS SOON AS CONSTRUCTION IS COMPLETE 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 CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL, OFF-HAUL, AND PROPER DISPOSAL OF ALL ITEMS TO BE REMOVED INCLUDING BUT NOT LIMITED TO: DEBRIS FROM THE SITE, TREES, ROOT BALLS AND FENCING. 15. 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 MONTEREY COUNTY PUBLIC WORKS DEPARTMENT. THIS MAY CONSIST OF EFFECTIVE PLANTING OF RYE GRASS, BARLEY OR SOME OTHER FAST GERMINATING SEED.

16. CONSTRUCTION ACTIVITY SHALL BE RESTRICTED TO THE HOURS OF MONDAY-FRIDAY 8:00 AM TO 5:00 PM CONSTRUCTION EQUIPMENT SHALL HAVE MUFFLERS IN GOOD CONDITION. CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR COMPLIANCE WITH ANY CURRENTLY APPLICABLE SAFETY LAW OF OF ANY JURISDICTIONAL BODY, FOR INFORMATION REGARDING THIS PROVISION, THE CONTRACTOR IS DIRECTED TO CONTACT STATE OF CALIFORNIA DIVISION OF OCCUPATIONAL SAFETY AND HEALTH, FREMONT, CA. PHONE (510) 794-2521.

19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADES, SAFETY DEVICES, AND TRAFFIC CONTROL WITHIN THE 20. FOR ALL TRENCH EXCAVATIONS FIVE (5) FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE DIVISION OF OCCUPATIONAL SAFETY AND HEALTH, 39141 CIVIC CENTER DRIVE, SUITE 310, FREMONT CALIFORNIA 94538, PHONE (510) 794-2521, PRIOR TO ANY EXCAVATION. A COPY OF THIS PERMIT SHALL BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL

21. AT COMPLETION OF THE CONSTRUCTION, THE CONTRACTOR SHALL FURNISH REPRODUCIBLE AS-BUILT PLANS TO THE ENGINEER AND THE MONTEREY COUNTY PLANNING AND BUILDING DEPARTMENT. SAID PLANS SHALL SHOW ALL CHANGES AND ADDITIONS/DELETIONS IN RED ON THE REPRODUCIBLE PLANS. PAVEMENT SECTION TO BE DETERMINED AS SHOWN ON THESE PLANS.

23. A SEPERATE PERMIT IS REQUIRED FOR THE CONSTRUCTION OF ALL RETAINING WALLS. 24. TREES WHICH ARE LOCATED CLOSE TO THE CONSTRUCTION SITE SHALL BE PROTECTED FROM INADVERTENT DAMAGE FROM CONSTRUCTION EQUIPMENT BY WRAPPING TRUNKS WITH PROTECTIVE MATERIALS, AVOIDING FILL OF ANY TYPE AGAINST THE BASE OF TRUNKS. AND AVOIDING AN INCREASE IN SOIL DEPTH AT THE FEEDING ZONE OR DRIP LINE OF THE RETAINED TREES.

GRADING NOTES

REFER TO GENERAL NOTES AND DETAILS AS SHOWN ON THESE PLANS.
ALL GRADING SHALL CONFORM TO THE MONTEREY COUNTY GRADING ORDINANCE #2535, EROSION CONTROL ORDINANCE #2806, THE CALIFORNIA BUILDING CODE AND GEOTECHNICAL REPORT ENTITLED:

"GEOTECHNICAL AND GEOLOGIC INVESTIGATION FOR PROPOSED RESIDENTIAL CONSTRUCTION, APN 169-421-045, 24 TEHAMA, LOT 10 CARMEL CALIFORNIA"

116 EAST LAKE AVENUE WATSONVILLE, CA 95076 (831) 722-4175

ELEVATION BENCHMARK: SEE SHEET C2.

DATED: DECEMBER 31, 2024

3. ALL GRADING AND COMPACTION SHALL BE DONE IN THE PRESENCE OF AND TESTED BY THE SOILS ENGINEER AND/OR SOILS TESTING CONSULTANT, WHO WILL PROVIDE THE ENGINEER WITH COPIES OF ALL TEST RESULTS. THE CONTRACTOR SHALL SUBMIT TESTS AND REPORT FROM SOILS ENGINEER TO THE MONTEREY COUNTY PLANNING AND BUILDING INSPECTION DEPARTMENT PRIOR TO SCHEDULING ANY INSPECTIONS. 4. 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. 5. IT IS THE CONTRACTORS RESPONSIBILITY TO PREPARE THE GROUND SURFACE TO RECEIVE THE FILLS TO THE SATISFACTION OF THE SOIL ENGINEER AND TO PLACE, SPREAD, MIX, WATER, AND COMPACT THE FILL IN ACCORDANCE WITH THE RECOMMENDATIONS

6. WHERE UNSTABLE OR UNSUITABLE MATERIALS ARE ENCOUNTERED DURING SUBGRADE PREPARATION, THE AREA IN QUESTION SHALL BE OVER EXCAVATED AND REPLACED BY SELECT BACKFILL MATERIAL AS DIRECTED IN THE FIELD BY THE SOILS ENGINEER. ALL CUT AND FILL SLOPE SHALL BE 2:1 OR FLATTER UNLESS OTHERWISE DIRECTED IN WRITING BY THE ENGINEER OR SOILS ENGINEER AND APPROVED BY THE MONTEREY COUNTY PLANNING AND BUILDING INSPECTION DEPARTMENT. 8. 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 AND LANDSCAPE MAINTENANCE WILL BE REQUIRED UNTIL GROUND COVER IS ESTABLISHED.

OF THE SOILS ENGINEER. THE CONTRACTOR SHALL ALSO REMOVE ALL MATERIAL CONSIDERED UNSATISFACTORY BY THE SOILS

CONTRACTOR SHALL USE CAUTION WHEN GRADING AROUND AND/OR OVER EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL CONDUCT ALL GRADING OPERATIONS IN SUCH A MANNER AS TO PRECLUDE WIND BLOWN DIRT, DUST AND RELATED DAMAGE TO NEIGHBORING PROPERTIES. SUFFICIENT WATERING TO CONTROL DUST IS REQUIRED AT ALL TIMES. CONTRACTOR SHALL ASSUME LIABILITY FOR CLAIMS RELATED TO WIND BLOWN MATERIAL. IF THE DUST CONTROL IS INADEQUATE AS DETERMINED BY THE MONTEREY COUNTY PLANNING AND BUILDING DEPARTMENT OR DESIGNATED REPRESENTATIVE, THE CONSTRUCTION WORK SHALL BE TERMINATED UNTIL CORRECTIVE MEASURES ARE TAKEN. 12. THE SOILS ENGINEER SHALL BE NOTIFIED AT LEAST FOUR (4) DAYS IN ADVANCE OF COMMENCING WORK, INCLUDING SITE STRIPPING AND GRADING OPERATIONS. THIS WORK SHALL BE OBSERVED AND TESTED BY THE SOILS ENGINEER. 13. STRIPINGS TO BE USED AS TOPSOIL SHALL BE STOCKPILED IN APPROVED AREAS FOR FUTURE USE IN LANDSCAPED AREAS. STOP WORK WITHIN 50 METERS (165 FT) 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.

15. ALL HAUL ROADS SHALL BE RETURNED TO ORIGINAL CONDITION AND RESEEDED WHEN GRADING IS COMPLETE. NO HAUL

ROADS SHALL BE ALLOWED IN AREAS WHICH ARE NOT SHOWN TO BE GRADED WITHOUT PRIOR APPROVAL OF THE ENGINEER.

RESTORATION OF HAUL ROADS WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

16. EARTHWORK QUANTITIES ARE SHOWN ON SHEET C4. . ALL GRADES TO BE A MINIMUM OF 5% AWAY FROM FOUNDATIONS FOR 10 FEET UNLESS SPECIFIED OTHERWISE ON PLANS. TREE REMOVAL SHALL INCLUDE REMOVAL OF TRUNKS, STUMPS, AND ROOTBALLS. THE REMAINING CAVITY SHALL BE CLEARED OF ALL ROOTS LARGER THAN ½" TO A DEPTH OF NOT LESS THAN 18" AND BACKFILLED WITH SUITABLE MATERIAL THEN COMPACTED TO CONFORM WITH THE EXISTING GROUND.

19. DURING WINTER OPERATIONS (BETWEEN OCTOBER 15 AND APRIL 15), THE FOLLOWING MEASURES MUST BE TAKEN: DISTURBED SURFACES NOT INVOLVED IN THE IMMEDIATE OPERATIONS MUST BE PROTECTED BY MULCHING AND/OR OTHER FFECTIVE 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) DRAINAGE CONTROL MEASURES SHALL BE MAINTAINED AND IN PLACE AT THE END OF EACH DAY AND CONTINUOUSLY CHECKED HROUGHOUT THE LIFE OF THE PROJECT DURING WINTER OPERATIONS.

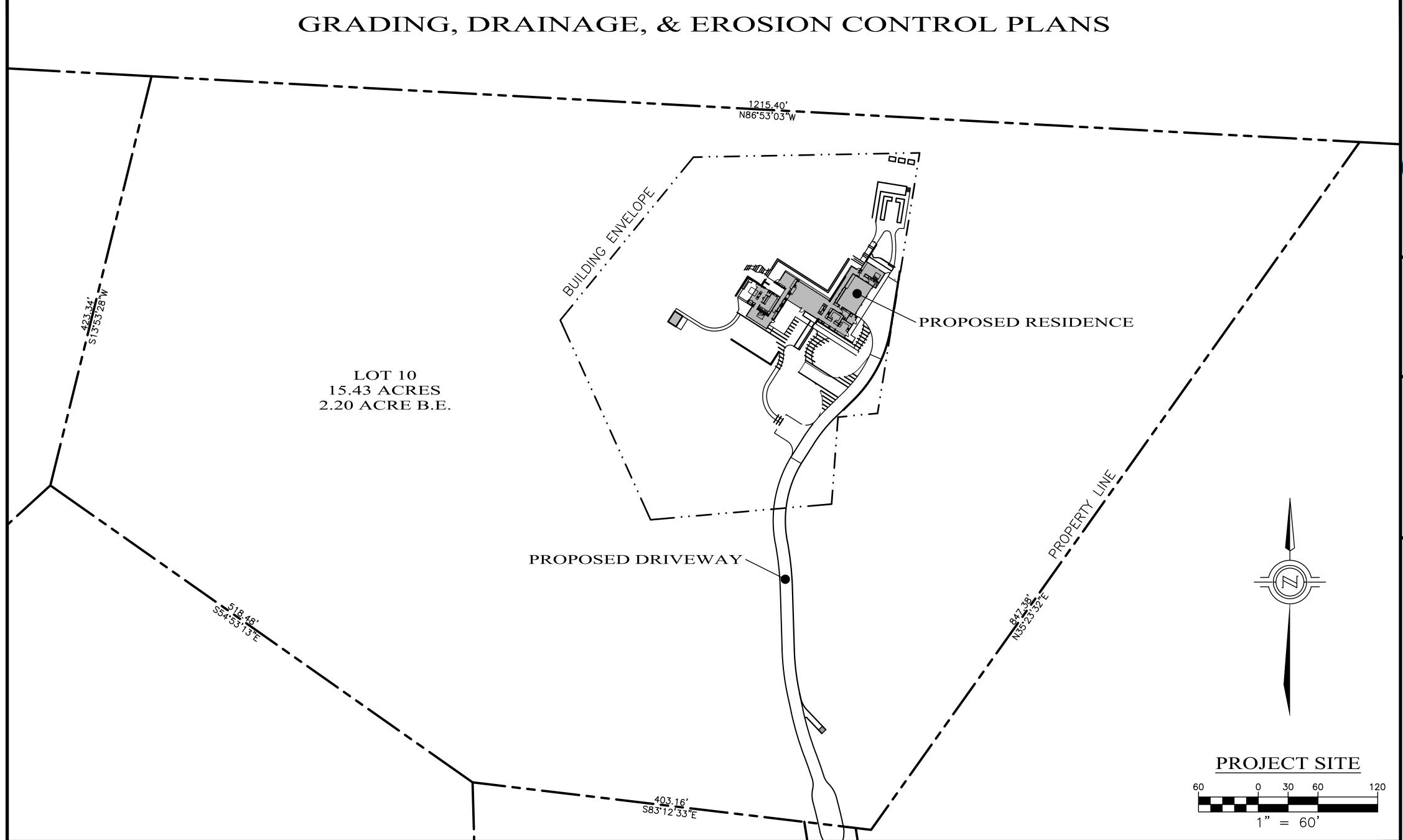
(MONTEREY COUNTY GRADING/EROSION ORD. 2806-16.12.090)). PAD ELEVATIONS SHALL BE CERTIFIED TO 0.1 FEET, PRIOR TO DIGGING ANY FOOTINGS OR SCHEDULING ANY INSPECTIONS. . GROUND SURFACE SHALL BE PREPARED TO RECEIVE FILL BY REMOVING VEGETATION, NON-COMPLYING FILL, TOPSOIL AND OTHER UNSUITABLE MATERIALS SCARIFYING TO PROVIDE A BOND WITH THE NEW FILL, AND WHERE SLOPES ARE STEEPER THAN 5 TO 1, AND THE HEIGHT IS GREATER THAN 5 FT, BY BENCHING INTO SOUND BEDROCK OR OTHER COMPETENT MATERIAL AS DETERMINED BY THE GEOTECHNICAL ENGINEER.

22. NO ORGANIC MATERIAL SHALL BE PERMITTED IN FILLS EXCEPT AS TOPSOIL USED FOR SURFACE PLANT GROWTH ONLY AND WHICH DOES NOT EXCEED 4" IN DEPTH. NO ROCK OR CLODS OVER 4" IN ITS MAXIMUM DIMENSION MAY BE USED IN A FILL. 23. PRIOR TO FINAL INSPECTION, THE GEOTECHNICAL CONSULTANT SHALL PROVIDE CERTIFICATION THAT ALL DEVELOPMENT HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. 24. ALL FILL SOILS SHALL BE COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

25. OVER EXCAVATION SHOULD BE CONDUCTED BELOW THE FOUNDATIONS AND FLOOR SLABS IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT. 26. A COPY OF ALL FIELD REPORTS/COMPACTION TESTS, AND FINAL GRADING REPORT SHALL BE SUBMITTED TO THE COUNTY AT SCHEDULED INSPECTIONS.

STATEMENT OF PURPOSE

THESE PLANS WERE PRODUCED TO PROVIDE FOR GRADING, DRAINAGE, AND EROSION CONTROL FOR AND DURING THE CONSTRUCTION OF A SINGLE FAMILY RESIDENCE AT 24 TEHAMA IN CARMEL CALIFORNIA 93923



FIRE DEPARTMENT NOTES

. FIREOO7-DRIVEWAYS SHALL NOT BE LESS THAN 12 FT WIDE UNOBSTRUCTED, WITH AN UNOBSTRUCTED VERTICAL CLEARANCE OF NOT LESS THAN 15 FT. THE GRADE FOR ALL DRIVEWAYS SHALL NOT EXCEED 15% (UNLESS APPROVED BY FD). WHERE THE GRADE EXCEEDS 8 PERCENT. A MINIMUM STRUCTURAL ROADWAY SURFACE OF 0.17 FT OF AC ON 0.34 FT OF AB SHALL BE REQUIRED. THE DRIVEWAY SURFACE SHALL BE CAPABLE OF SUPPORTING THE IMPOSED LOAD OF FIRE APPARATUS (22 TONS), AND BE ACCESSIBLE BY CONVENTIONAL-DRIVE VEHICLES, INCLUDING SEDANS. FOR DRIVEWAYS WITH TURNS 90° AND LESS, THE MINIMUM HORIZONTAL INSIDE RADIUS CURVATURE SHALL BE 25 FT. FOR DRIVEWAYS WITH TURNS GREATER THAN 90°, THE MINIMUM HORIZONTAL INSIDE RADIUS CURVATURE SHALL BE 28 FT. FOR ALL DRIVEWAY TURNS, AN ADDITIONAL SURFACE OF 4 FT SHALL BE ADDED. TURNAROUNDS SHALL BE REQUIRED ON DRIVEWAYS IN EXCESS OF 150 FT OF SURFACE LENGTH AND SHALL BE LOCATED WITHIN 50 FT OF THE PRIMARY BUILDING. THE MINIMUM TURNING RADIUS FOR A TURNAROUND SHALL BE 40 FT FROM THE CENTER LINE OF THE DRIVEWAY. IF A HAMMERHEAD T IS USED, THE TOP OF THE T SHALL BE A MINIMUM OF 60 FT IN LENGTH, OR AS APPROVED BY THE FIRE CHIEF.

2. FIREOO8—ALL GATES PROVIDING ACCESS FROM A ROAD TO A DRIVEWAY SHALL BE LOCATED AT LEAST 30 FT FROM THE ROADWAY AND SHALL OPEN TO ALLOW A VEHICLE TO STOP WITHOUT OBSTRUCTING TRAFFIC ON THE ROAD. GATE ENTRANCES SHALL BE AT LEAST THE WIDTH OF THE TRAFFIC LANE BUT IN NO CASE LESS THAN 12 FT WIDE. WHERE A ONE WAY ROAD WITH A SINGLE TRAFFIC LANE PROVIDES ACCESS TO A GATED ENTRANCE, A 40 FT TURNING RADIUS SHALL BE USED. WHERE GATES ARE TO BE LOCKED, THE INSTALLATION OF A KEY BOX OR OTHER ACCEPTABLE MEANS FOR IMMEDIATE ACCESS BY EMERGENCY EQUIPMENT MAY BE REQUIRED. 3. FIREO11-ALL BUILDINGS SHALL BE ISSUED AN ADDRESS IN ACCORDANCE WITH MONTEREY COUNTY ORDINANCE NO1241. EACH OCCUPANCY, EXCEPT ACCESSORY BUILDINGS, SHALL HAVE ITS OWN PERMANENTLY POSTED ADDRESS. WHEN MULTIPLE OCCUPANCIES EXIST WITHIN

A SINGLE BUILDING, EACH INDIVIDUAL OCCUPANCY SHALL BE SEPARATELY IDENTIFIED BY ITS OWN ADDRESS. LETTERS, NUMBERS, AND SYMBOLS FOR ADDRESSES SHALL BE A MINIMUM OF 4 IN HEIGHT, 1/2 IN STROKE, CONTRASTING WITH THE BACKGROUND COLOR OF THE SIGN, AND SHALL BE ARABIC. THE SIGN AND NUMBERS SHALL BE REFLECTIVE AND MADE OF A NONCOMBUSTIBLE MATERIAL. ADDRESS SIGNS SHALL BE PLACED AT EACH DRIVEWAY ENTRANCE AND AT EACH DRIVEWAY SPLIT. ADDRESS SIGNS SHALL BE VISIBLE AND LEGIBLE FROM BOTH DIRECTIONS OF TRAVEL ALONG THE ROAD. IN ALL CASES, THE ADDRESS SHALI BE POSTED AT THE BEGINNING OF CONSTRUCTION AND SHALL BE MAINTAINED THEREAFTER. ADDRESS SIGNS ALONG ONE-WAY ROADS SHALL BE VISIBLE FROM BOTH DIRECTIONS OF TRAVEL. WHERE MULTIPLE ADDRESSES ARE REQUIRED AT A SINGLE DRIVEWAY, THEY SHALL BE MOUNTED ON A SINGLE SIGN. WHERE A ROADWAY PROVIDES ACCESS SOLELY TO A SINGLE COMMERCIAL OCCUPANCY, THE ADDRESS SIGN SHALL BE PLACED AT THE NEAREST ROAD INTERSECTION PROVIDING ACCESS TO THAT SITE. PERMANENT ADDRESS NUMBERS SHALL BE POSTED PRIOR TO REQUESTING FINAL CLEARANCE. 4. FIRE020-REMOVE COMBUSTIBLE VEGETATION FROM WITHIN A MINIMUM OF 100 FT OF STRUCTURES. LIMB TREES 6 FT UP FROM GROUND. REMOVE LIMBS WITHIN 10 FT OF CHIMNEYS. ADDITIONAL FIRE PROTECTION OR FIREBREAKS APPROVED BY THE REVIEWING AUTHORITY MAY BE REQUIRED TO PROVIDE REASONABLE FIRE SAFETY. ENVIRONMENTALLY SENSITIVE AREAS MAY REQUIRE ALTERNATIVE FIRE PROTECTION, TO BE DETERMINED BY REVIEWING AUTHORITY AND THE DIRECTOR OF PLANNING AND BUILDING INSPECTION. 5. FIRE022-FIRE PROTECTION EQUIPMENT & SYSTEMS-FIRE SPRINKLER SYSTEM-(HAZARDOUS CONDITIONS). THE BUILDING(S) AND ATTACHED GARAGE(S) SHALL BE FULLY PROTECTED WITH AUTOMÁTIC FIRE SPRINKLÉR SYSTEM(S). INSTALLATION SHALL BE IN ACCORDANCE WITH THE APPLICABLE NFPA STANDARD, A MINIMUM OF FOUR (4) SETS OF PLANS FOR FIRE SPRINKLER SYSTEMS MUST BE SUBMITTED BY A CALIFORNIA LICENSED C-16 CONTRACTOR AND APPROVED PRIOR TO INSTALLATION. THIS REQUIREMENT IS NOT INTENDED TO DELAY ISSUANCE OF A BUILDING PERMIT. A ROUGH SPRINKLER INSPECTION MUST BE SCHEDULED BY THE INSTALLING CONTRACTOR AND COMPLETED PRIOR TO REQUESTING A FRAMING INSPECTION. DUE TO SUBSTANDARD ACCESS, OR OTHER MITIGATING FACTORS, SMALL BATHROOM(S) AND OPEN ATTACHED PORCHES, CARPORTS, AND SIMILAR STRUCTURES SHALL BE PROTÉCTED WITH FIRE SPRINKLERS.

GEOTECHNICA	L INSPECTION WITH	ΓIMING OF INSPE	CTION	
DESCRIPTION OF THE REQUIRED INSPECTION:	WHEN INSPECTION IS TO BE COMPLETED:	WHO WILL CONDUCT THE INSPECTION:	INSPECTOR NAME:	COMPLETION DATE:
INSPECT AND TEST KEYWAY/SUBEXCAVATION/OVEREXCAVATION:	1) PRIOR TO BACKFILLING	GEOTECHNICAL ENGINEER		
INSPECT AND TEST KEYWAY/SUBEXCAVATION/OVEREXCAVATION:	2) DURING BACKFILL PLACEMENT - ONGOING	GEOTECHNICAL ENGINEER		
INSPECT AND TEST BUILDING PAD SUBGRADE:	PRIOR TO EXCAVATION FOOTINGS OR PLACEMENT OF SLAB-ON-GRADE MATERIALS	GEOTECHNICAL ENGINEER		
INSPECT SLAB-ON-GRADE INSTALLATION:	1) PRIOR TO CONCRETE PLACEMENT	GEOTECHNICAL ENGINEER		
INSPECT FOUNDATION AND/OR RETAINING WALL FOOTING EXCAVATIONS:	1) PRIOR TO REINFORCEMENT PLACEMENT	GEOTECHNICAL ENGINEER		
INSPECT AND TEST RETAINING WALL BACKFILL:	1) DURING BACKFILL PLACEMENT - ONGOING	GEOTECHNICAL ENGINEER		
INSPECT AND TEST DRIVEWAY FILL, SUBGRADE, AND BASEROCK PLACEMENT:	1) DURING FILL PLACEMENT	GEOTECHNICAL ENGINEER		
INSPECT AND TEST DRIVEWAY FILL, SUBGRADE, AND BASEROCK PLACEMENT:	2) SUBGRADE, PRIOR TO BASEROCK PLACEMENT	GEOTECHNICAL ENGINEER		
INSPECT AND TEST DRIVEWAY FILL, SUBGRADE, AND BASEROCK PLACEMENT:	3) BASEROCK PRIOR TO PAVEMENT APPLICATION	GEOTECHNICAL ENGINEER		
INSPECT AND TEST DRAINAGE INSTALLATION:	AFTER PIPE PLACEMENT, PRIOR TO BACKFILL PLACEMENT	GEOTECHNICAL ENGINEER		
INSPECT AND TEST DRAINAGE INSTALLATION:	2) DURING BACKFILL PLACEMENT - ONGOING	GEOTECHNICAL ENGINEER		

ABBREVIATIONS

CB

DIA

DWY

(E)

ELEV

HDPE

PVC

TW

TYP

SANITARY SEWER

TOP OF CURB

TRENCH DRAIN

TOP OF STEP

TOP OF WALL

FM FORCE MAIN

TYPICAL

w WATER

SEWER CLEAN-OUT

AGGREGATE BASE ASPHALT CONCRETE AREA DRAIN BOTTOM OF STEP CATCH BASIN	
CENTERLINE DIAMETER DRIVEWAY ELECTRICAL SERVICE EXISTING	
EXISTING END CURVE ELEVATION EDGE OF PAVEMENT FACE OF CURB	
FINISHED PAVEMENT FINISHED FLOOR ELEVATION FLOW LINE GAS SERVICE	SD SS FM
HIGH DENSITY POLYETHYLENE JOINT UTILITY TRENCH CURVE COEFFICICIENT LINEAR FEET	
MINIMUM NOT APPLICABLE NEW NOT TO SCALE	
PACIFIC GAS & ELECTRIC POLYVINYL CHLORIDE STORM DRAIN SLOPE	SHEET IN GRADING

LEGEND

400	
	BUILDING ENVELOPE EASEMENT
— — — — JT — — — — — — — — — — — SD — — — — — — —	(E) JOINT UTILITY TRENCH (E) STORM DRAIN
— — — — FM — — — — — — — — — — — — — — —	(E) SEWER FORCE MAIN (E) WATER LINE
JT SD	
	(N) SANITARY SEWER (N) SEWER FORCE MAIN (N) WATER LINE (N) WALL
	(N) SAWCUT LINE DESIGN MAJOR CONTOUR DESIGN MINOR CONTOUR (N) BUILDING FOOTPRINT
	` '

NDEX

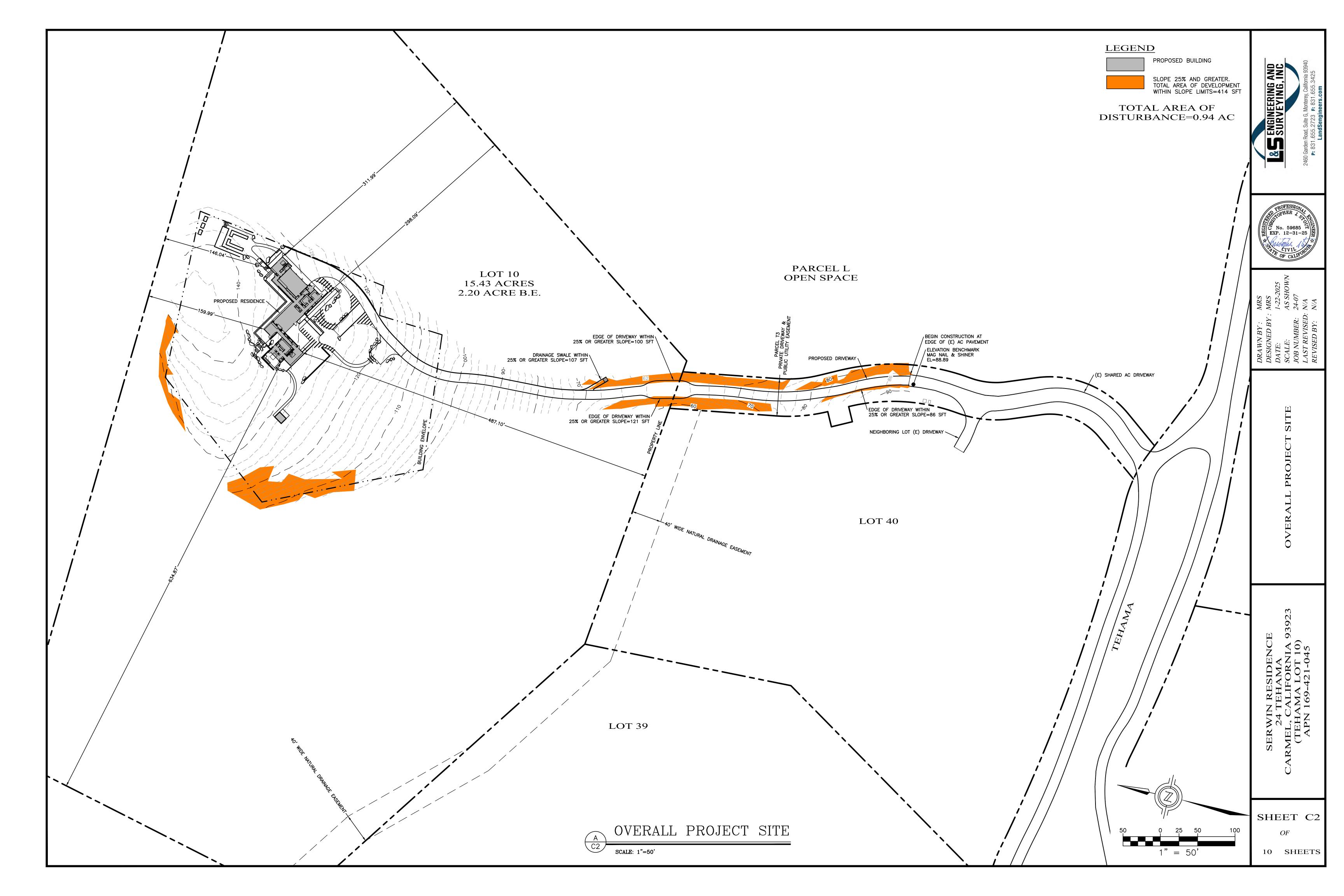
C1	GRADING PLAN TITLE SHEET
C2	OVERALL PROJECT SITE
C3	DRIVEWAY GRADING PLAN
C4	SITE GRADING PLAN
	SIL GRADING I LAN
C5	SITE CROSS SECTIONS
C6	STORMWATER CONTROL PLAN
C7	SITE UTILITY PLAN
C8	CONSTRUCTION DETAILS
C9	EROSION CONTROL PLAN
C10	CONSTRUCTION MANAGEMENT PLAN
\sim 10	CONSTRUCTION MANAGEMENT FLAN

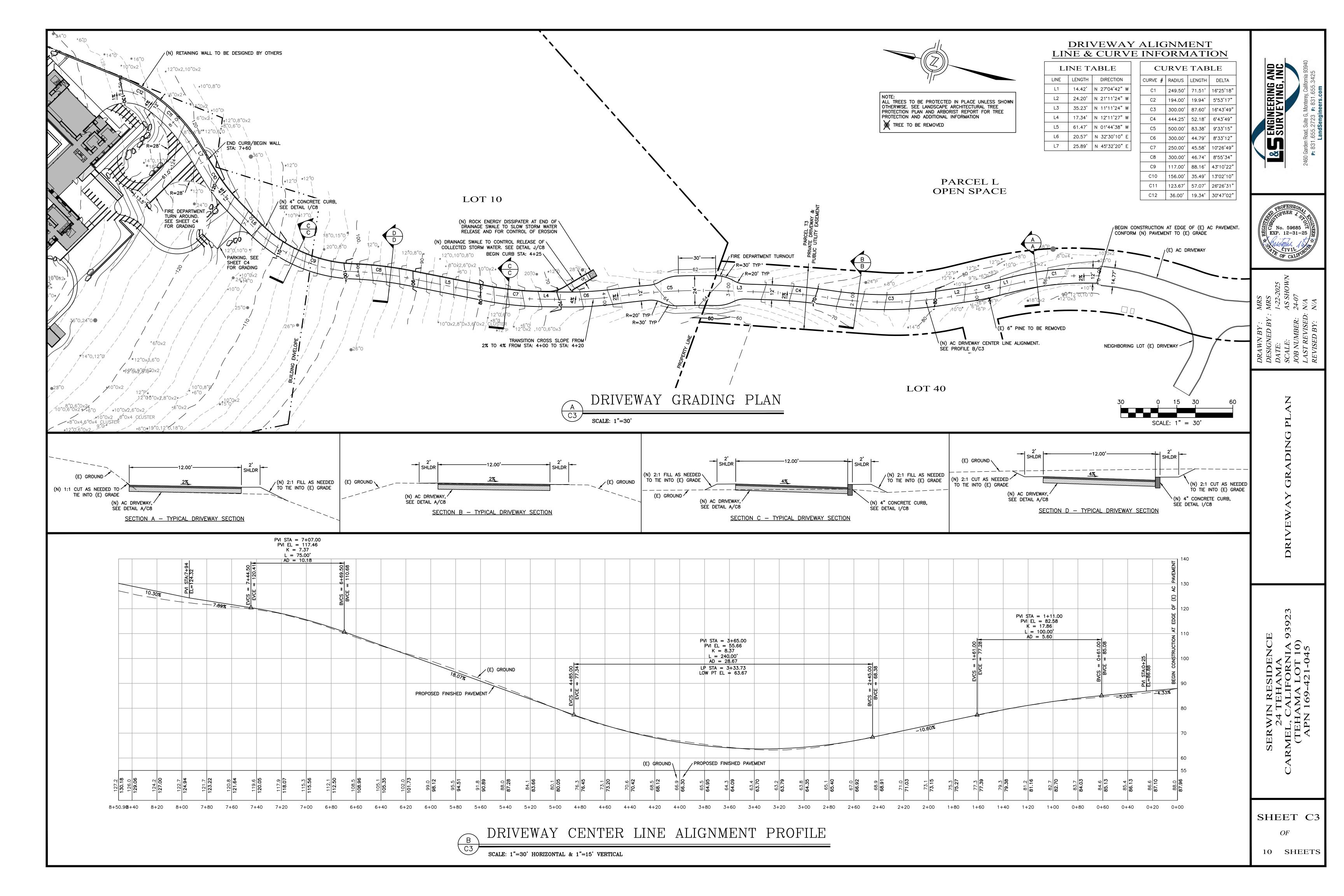
SHEET C1

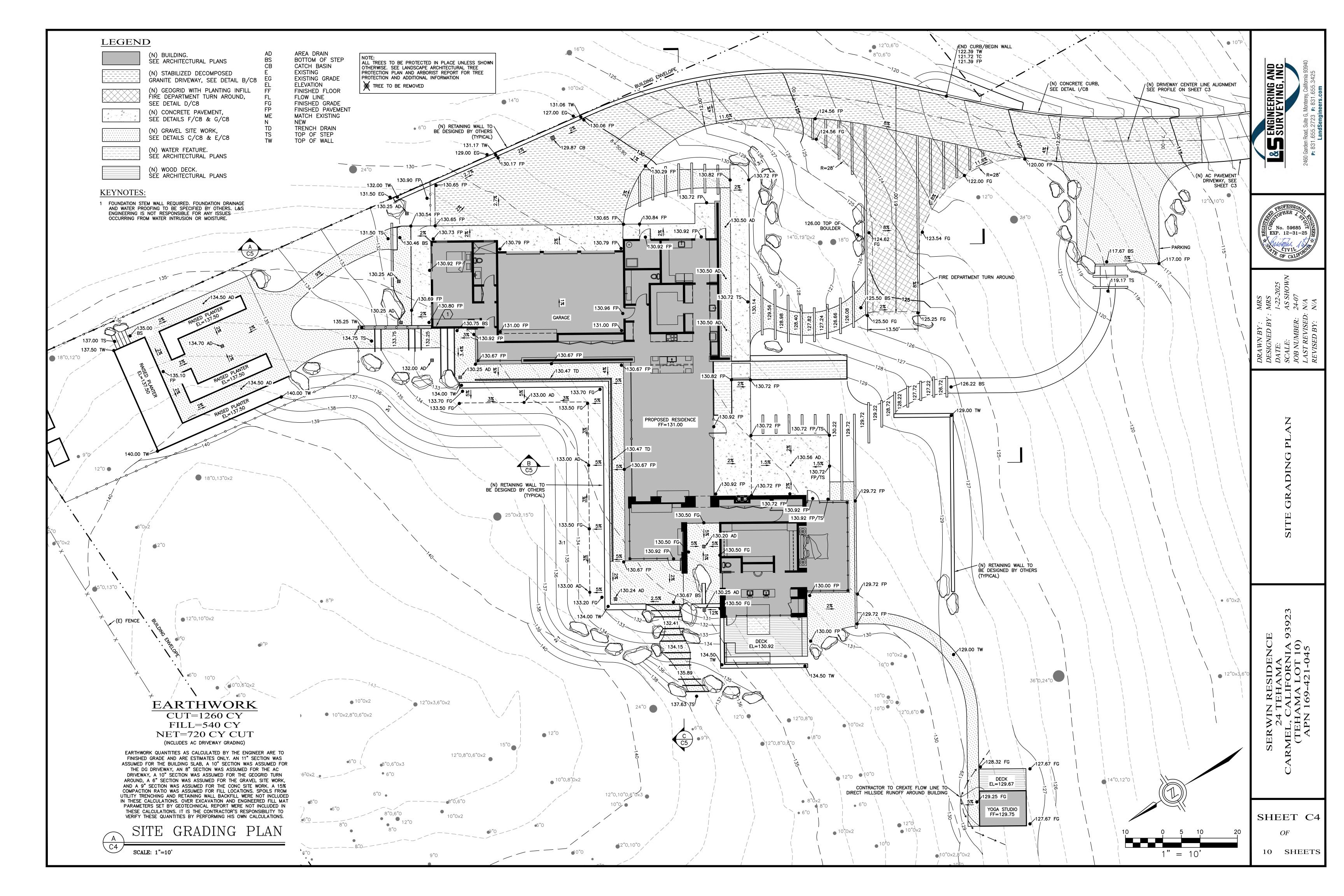
10 SHEETS

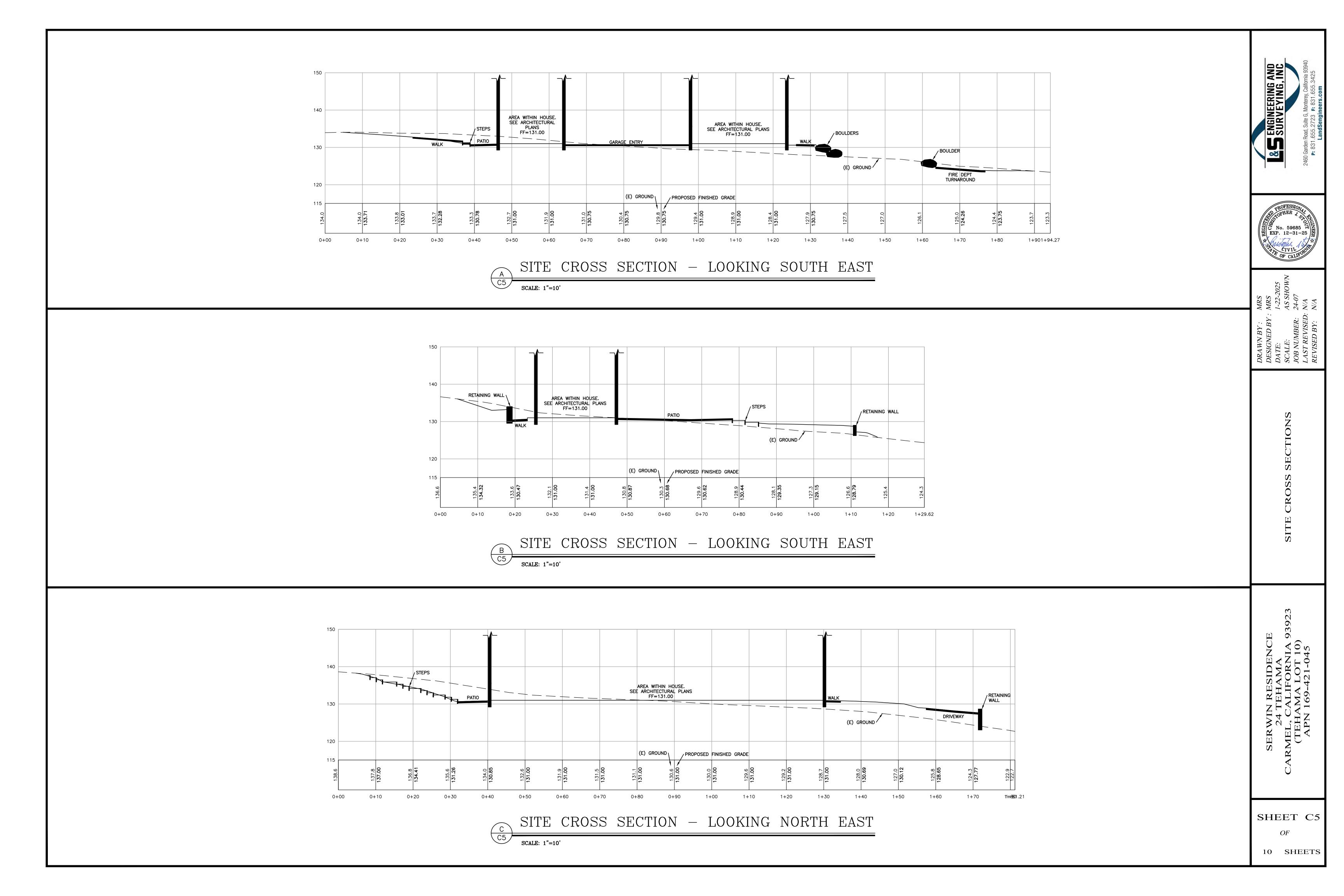
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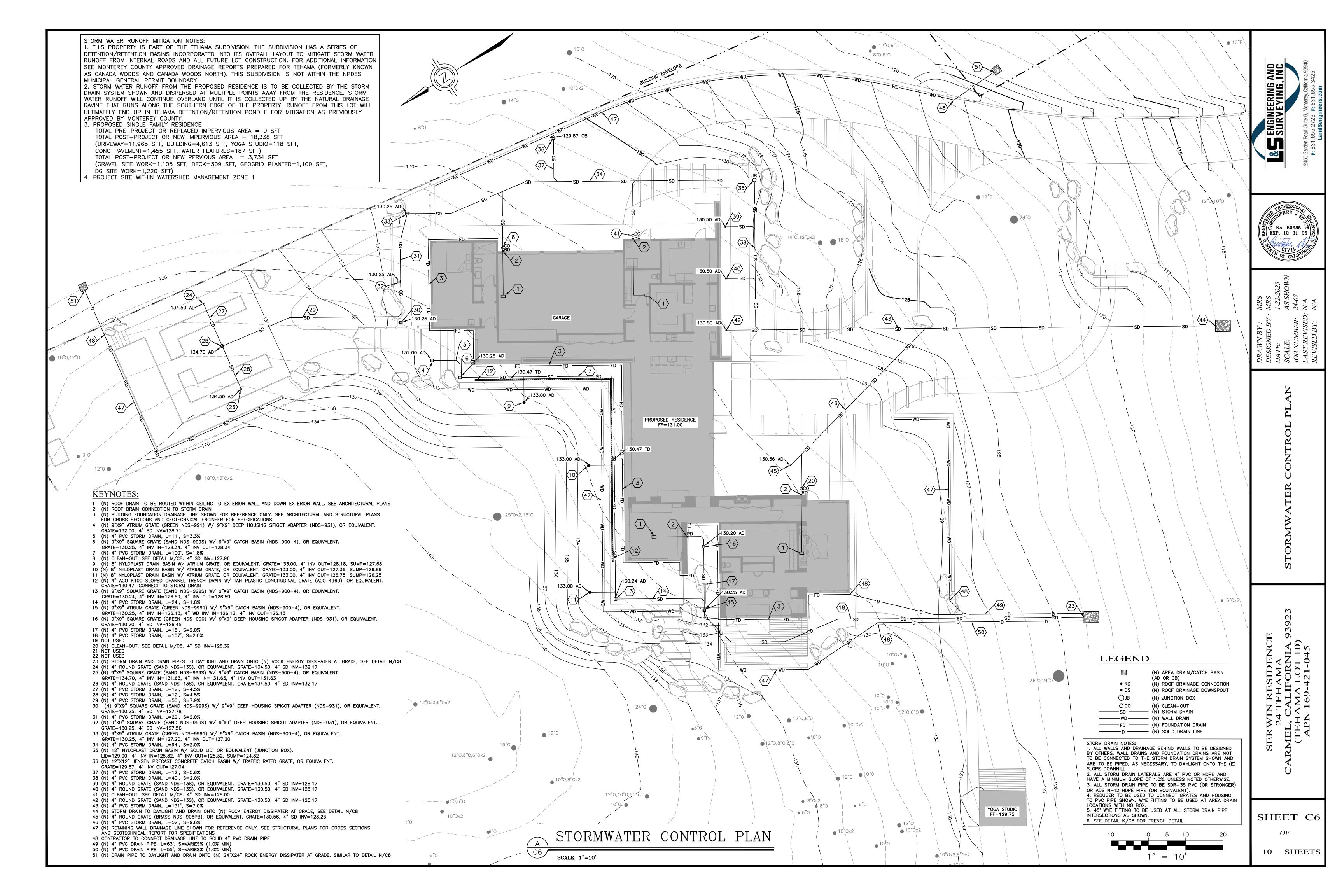
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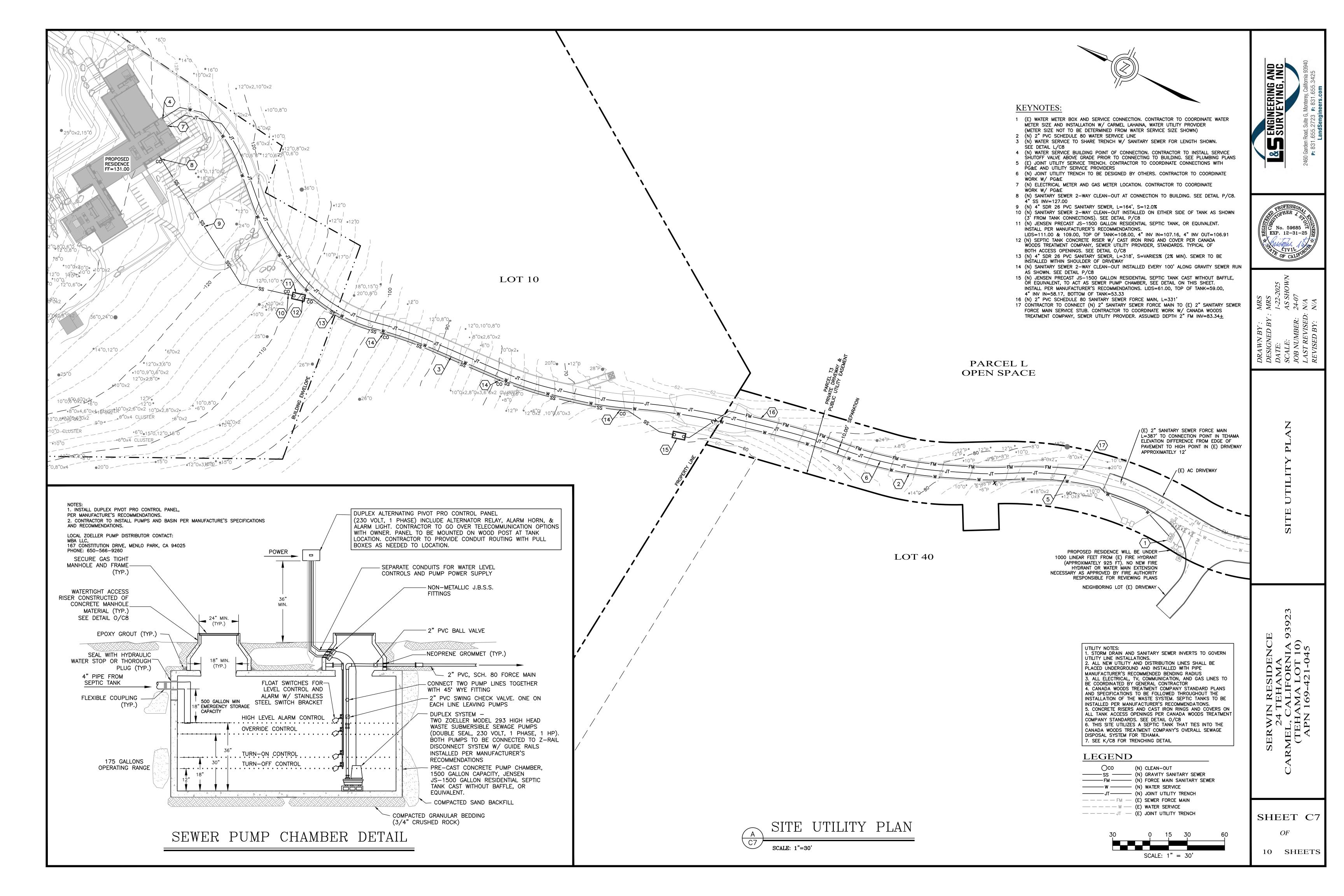


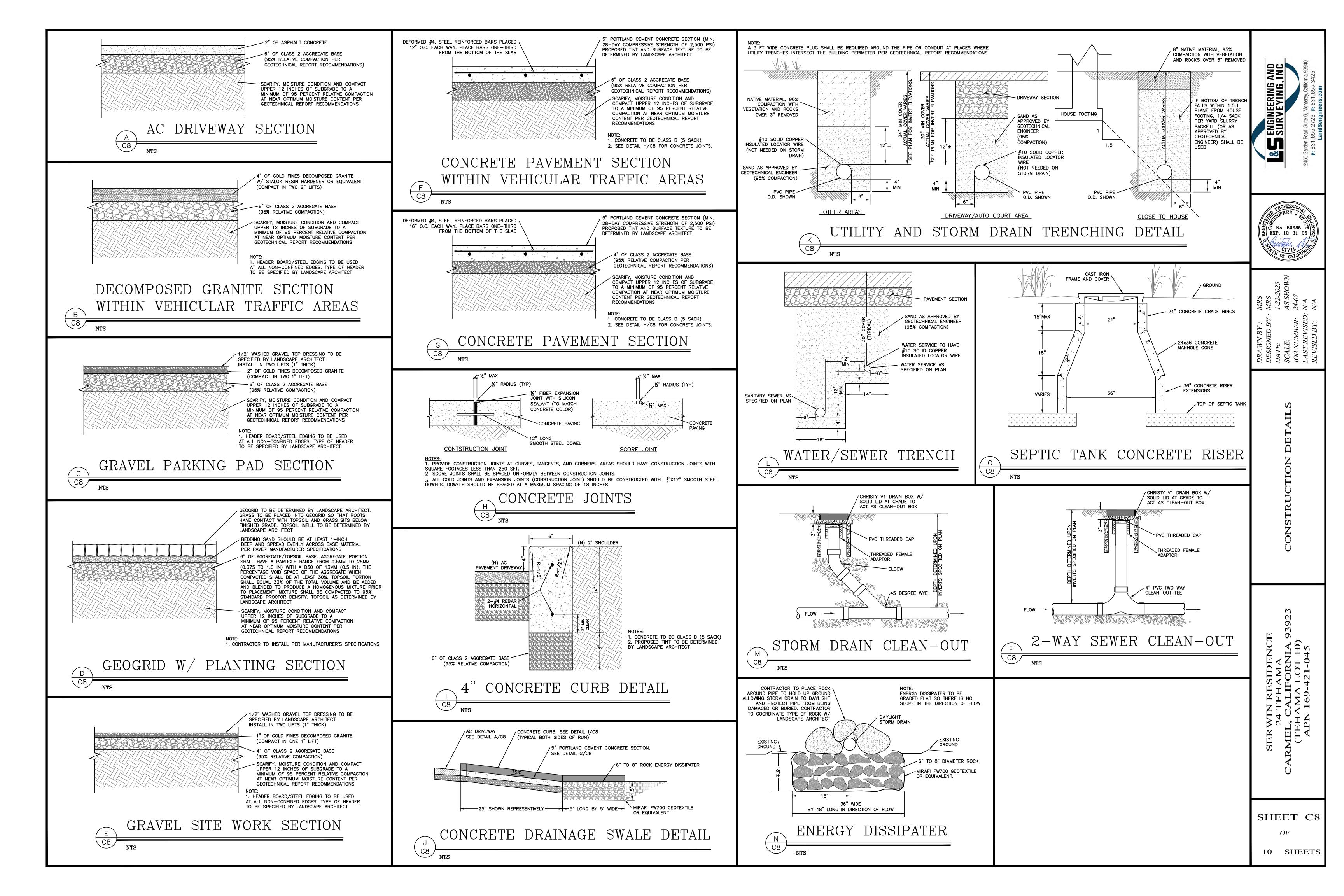


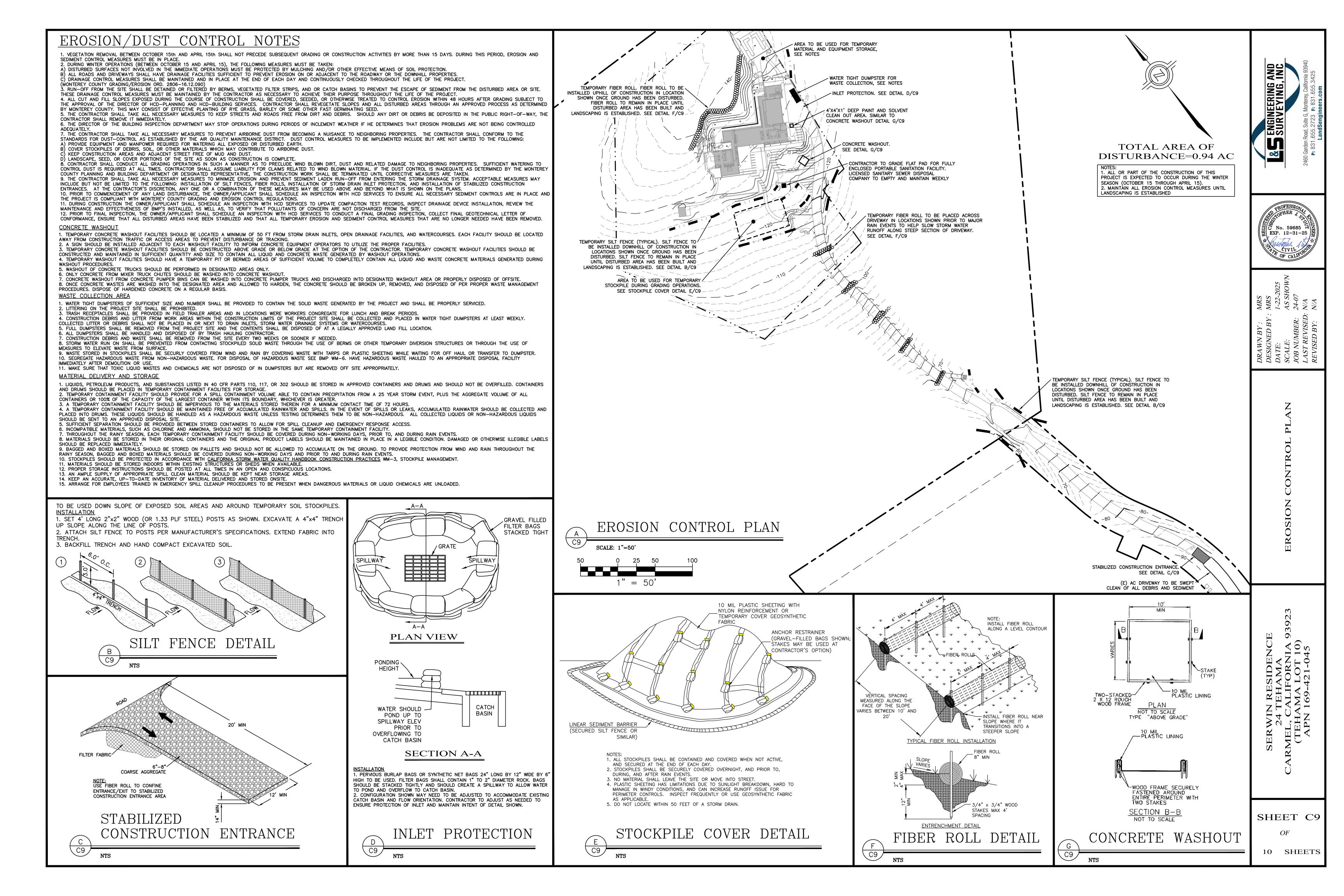












PROJECT SITE. ALL VEHICLES GOING TO THE PROJECT SITE TO TAKE SAME ROUTE. **VALLEY**

ENLACE \

VIA MALPASO

OLMSTEAD ROAD

MONTERRA RANCH GATE

VICINITY MAP/OVERALL TRUCK ROUTING PLAN 1"=6000'

CARMEL VALLEY ROAD

COMMUNITY

CONSTRUCTION NOTES

CARMEL

BAY

CARMEI

 ALL WORK SHALL TAKE PLACE DURING DAYLIGHT HOURS, MONDAY — FRIDAY, 8AM TO 5PM (EXCLUDING NATIONAL HOLIDAYS) 2. THE SIGNED PERMITS AND THE APPROVED CONSTRUCTION PLANS SHALL BE MAINTAINED IN A CONSPICUOUS LOCATION AT THE CONSTRUCTION JOB SITE AT ALL TIMES, AND THAT SUCH COPIES ARE AVAILABLE FOR AGENCY REVIEW ON REQUEST, ALL PERSONS INVOLVED WITH THE CONSTRUCTION SHALL BE BRIEFED ON THE CONTENT AND MEANING OF THE PERMITS AND THE APPROVED CONSTRUCTION PLANS, AND THE PUBLIC REVIEW REQUIREMENTS APPLICABLE TO THEM, PRIOR TO COMMENCEMENT OF

3. STOP WORK WITHIN 50 METERS (165 FT) 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. EQUIPMENT WASHING, REFUELING AND SERVICING SHALL TAKE PLACE ONLY ONSITE. APPROPRIATE BEST MANAGEMENT PRACTICES SHALL BE USED TO ENSURE THAT NO SPILLS OF PETROLEUM PRODUCTS OR OTHER CHEMICALS TAKE PLACE DURING THESE ACTIVITIES. SEE BMP HANDOUT ON THIS SHEET. 5. THE CONSTRUCTION SITE SHALL MAINTAIN GOOD CONSTRUCTION SITE HOUSEKEEPING CONTROLS AND PROCEDURES (E.G. CLEANUP ALL LEAKS, DRIPS, AND OTHER SPILLS

IMMEDIATELY; KEEP MATERIALS COVERED AND OUT OF THE RAIN, INCLUDING COVERING EXPOSED PILES OF SOIL AND WASTES; DISPOSE OF ALL WASTES PROPERLY, PLACE TRASH RECEPTACLES ON SITE FOR THAT PURPOSE, AND COVER OPEN TRASH RECEPTACLES DURING WET WEATHER). SEE BMP HANDOUT ON THIS SHEET. 6. ALL EROSION AND SEDIMENT CONTROLS SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AS WELL AS AT THE END OF EACH WORKDAY. AT A MINIMUM, SILT FENCES, OR EQUIVALENT APPARATUS, SHALL BE INSTALLED AT THE PERIMETER OF THE CONSTRUCTION SITE TO PREVENT CONSTRUCTION—RELATED RUNOFF

7. THE CONTRACTOR SHALL IMPLEMENT THE FOLLOWING MEASURES TO CONTROL FUGITIVE DUST EMISSIONS DURING CONSTRUCTION (MM AQ C1 - DUST CONTROL):

1. WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY. FREQUENCY SHOULD BE BASED ON THE TYPE OF OPERATION, SOIL, AND WIND EXPOSURE. NOT APPLICABLE TO SITE.

2. PROHIBIT ALL GRADING ACTIVITIES DURING PERIODS OF HIGH WIND MORE THAN 15 MILES PER HOUR. 3. APPLY CHEMICAL SOIL STABILIZERS ON INACTIVE CONSTRUCTION AREAS SUCH AS DISTURBED LANDS WITHIN CONSTRUCTION PROJECTS THAT ARE UNUSED FOR AT LEAST FOUR CONSECUTIVE DAYS. - NOT APPLICABLE TO SITE

4. APPLY NON-TOXIC BINDERS LIKE LATEX ACRYLIC COPOLYMER TO EXPOSED AREAS AFTER CUT AND FILL OPERATIONS AND HYDROSEED AREA. NOT APPLICABLE TO SITE.

5. MAINTAIN AT LEAST 2 FEET OF FREEBOARD ON HAUL TRUCKS.

6. COVER ALL TRUCKS HAULING DIRT SAND OR LOOSE MATERIALS. 7. PLANT TREE WINDBREAKS ON THE WINDWARD PERIMETER OF CONSTRUCTION PROJECTS IF ADJACENT TO OPEN LAND, PRIOR TO CONSTRUCTION.

-NOT APPLICABLE TO SITE 8. PLANT VEGETATIVE GROUND COVER IN DISTURBED AREAS AS SOON AS POSSIBLE.

12. SWEEP STREETS IF VISIBLE SOIL MATERIAL IS CARRIED OUT FROM THE CONSTRUCTION SITE.

9. COVER INACTIVE STORAGE PILES.

10. INSTALL WHEEL WASHERS AT THE ENTRANCE TO CONSTRUCTION SITES FOR ALL EXITING TRUCKS — NOT APPLICABLE TO SITE 11. PAVE ALL ROADS ON CONSTRUCTION SITES PRIOR TO USE BY CONSTRUCTION EQUIPMENT - NOT APPLICABLE TO SITE

13. POST A PUBLICLY VISIBLE SIGN THAT SPECIFIES THE TELEPHONE NUMBER AND PERSON TO CONTACT REGARDING DUST COMPLAINTS. THIS PERSON WILL RESPOND TO COMPLAINTS AND TAKE CORRECTIVE ACTION WITHIN 48 HOURS, THE PHONE NUMBER OF THE MBUAPCD WILL BE VISIBLE TO ENSURE COMPLIANCE WITH RULE 402

THE CONSTRUCTION CONTRACTOR WILL ENSURE THESE MEASURES ARE IMPLEMENTED DURING CONSTRUCTION AS VERIFIABLE UPON COUNTY INSPECTION. THE CONTRACTOR WILL ENSURE THAT ALL STATIONARY NOISE GENERATING EQUIPMENT, SUCH AS PUMPS AND GENERATORS ARE LOCATED AS FAR AS POSSIBLE FROM NEARBY NOISE SENSITIVE RECEPTORS AS PRACTICABLE. WHERE POSSIBLE, NOISE GENERATING EQUIPMENT WILL BE SHIELDED FROM NEARBY NOISE SENSITIVE RECEPTORS BY NOISE ATTENUATING BUFFERS SUCH AS STRUCTURES OR HAUL TRUCK TRAILERS. STATIONARY NOISE SOURCES LOCATED CLOSER THAN 500 FEET FROM NOISE SENSITIVE RECEPTORS WILL BE EQUIPPED WITH NOISE REDUCING ENGINE HOUSINGS. PORTABLE ACOUSTIC BARRIERS WILL BE PLACED AROUND NOISE GENERATING EQUIPMENT LOCATED WITHIN 200 FEET OF RESIDENCES. WATER TANKS AND EQUIPMENT STORAGE, STAGING, AND WARM-UP AREAS WILL BE LOCATED AS FAR FROM NOISE SENSITIVE RECEPTORS AS POSSIBLE.

THE CONTRACTOR WILL ENSURE ALL CONSTRUCTION EQUIPMENT POWERED BY GASOLINE OR DIESEL ENGINES HAS SOUND CONTROL DEVICES AT LEAST AS EFFECTIVE AS THOSE ORIGINALLY PROVIDED BY THE MANUFACTURER. NO EQUIPMENT WILL BE PERMITTED TO HAVE AN UNMUFFLED EXHAUST. THE APPLICANT WILL ENSURE THE CONSTRUCTION SPECIFICATIONS SPECIFY THAT ANY MOBILE NOISE-GENERATING EQUIPMENT OR MACHINERY IS SHUT OFF WHEN NOT II USE. THESE REQUIREMENTS WILL BE INCLUDED IN ALL RELEVANT CONSTRUCTION CONTRACTS AND SHOWN ON CONSTRUCTION PLANS, AND WILL BE IMPLEMENTED DURING

THE CONTRACTOR TO ENSURE THAT CONSTRUCTION VEHICLES ACCESSING THE SITE USE THE SHORTEST POSSIBLE ROUTE TO AND FROM LOCAL FREEWAYS, PROVIDED THE ROUTES DO NOT EXPOSE ADDITIONAL RECEPTORS TO NOISE. SEE APPROVED TRUCK ROUTE ON THIS SHEET. 12. THE APPLICANT AND THE CONTRACTOR WILL ENSURE THAT RESIDENTS WITHIN 500 FEET OF THE CONSTRUCTION AREA ARE NOTIFIED OF THE CONSTRUCTION SCHEDULE IN WRITING BEFORE CONSTRUCTION BEGINS.

CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPs)

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



MATERIALS & WASTE MANAGEMENT

☐ Berm and cover stockpiles of material with tarps when rain is forecast or if not actively being used within 14 days. ☐ Use (but don't overuse)

Hazardous Materials

reclaimed water for dust

☐ 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

☐ 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



MANAGEMENT & SPILL CONTROL

☐ Cover waste disposal ☐ Designate an area, fitted with appropriate BMPs, for vehicle at the end of every work day and equipment parking and ☐ Perform major maintenance,

☐ Check waste disposal containers frequently for leaks and to make sure they are not overfilled. Never hose down a dumpster on the construction

☐ 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

glues, and cleaning fluids as

hazardous waste.

pipe, etc.)

streets, storm drains, or surface ☐ Dispose of liquid residues from paints, thinners, solvents,

☐ Establish and maintain and stabilize all construction sufficiently control erosion and sediment discharges from site and tracking off site. ☐ Sweep or vacuum any stree

tracking immediately and

secure sediment source to

tracking.

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

prevent further tracking. Never

☐ If vehicle or equipment be recycled (such as asphalt, cleaning must be done onsite, concrete, aggregate base clean with water only in a bermed area that will not allow materials, wood, gyp board, rinse water to run into gutters,

> ☐ Do not clean vehicle or equipment onsite using soaps, solvents, degreasers, steam

repair jobs, and vehicle and

equipment washing off site.

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

maintenance must be done

☐ If refueling or vehicle

by digging up and properly disposing of contaminated soil. cleaning equipment, etc.

☐ 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**

Spill Prevention and Control

☐ Keep spill cleanup materials

available at the construction

frequently for and repair leaks

promptly. Use drip pans to

catch leaks until repairs are

immediately and dispose of

cleanup materials properly.

☐ Sweep up spilled dry materials

wash them away with water, or

immediately. Do not try to

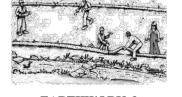
☐ Clean up spills on dirt areas

☐ Clean up spills or leaks

and/or rags).

bury them.

(rags, absorbents, etc.)



EARTHWORK & CONTAMINATED SOILS

☐ Schedule grading and excavation work for dry weather only.

☐ Stabilize all denuded areas,

☐ Inspect vehicles and equipment install and maintain temporary erosion controls (such as erosion control fabric or bonded fiber matrix) until Collect and recycle or vegetation is established. ☐ Seed or plant vegetation for erosion control on slopes or where construction is not

and maintaining sediment

controls, such as fiber rolls, silt

conditions are observed, test for

Regional Water Quality Control

Abandoned underground tanks

Buried barrels, debris, or trasl

contamination and contact the

Unusual soil conditions,

discoloration, or odor.

Abandoned wells

immediately planned. ☐ Do not hose down surfaces where fluids have spilled. Sediment Control Use dry cleanup methods ☐ Protect storm drain inlets, (absorbent materials, cat litter,

Sawcutting & Asphalt/Concrete gutters, ditches, and drainage courses with appropriate ☐ Completely cover or barricade BMPs, such as gravel bags. storm drain inlets when saw fiber rolls, berms, etc. cutting. Use filter fabric, catch ☐ Prevent sediment from basin inlet filters, or gravel migrating offsite by installing

☐ Shovel, abosorb, or vacuum fences, or sediment basins. saw-cut slurry and dispose of ☐ Keep excavated soil on the site all waste as soon as you are where it will not collect into finished in one location or at the end of each work day ☐ Transfer excavated materials to (whichever is sooner!). dump trucks on the site, not in

storm drain system.

PAVING/ASPHALT

WORK

☐ Avoid paving and seal coating

in wet weather, or when rain is

☐ Cover storm drain inlets and

manholes when applying seal

coat, tack coat, slurry seal, fog

appropriately dispose of excess

abrasive gravel or sand. Do

NOT sweep or wash it into

down fresh asphalt concrete

☐ Do not use water to wash

gutters.

pavement.

will have time to cure.

forecast before fresh pavement

☐ If sawcut slurry enters a catch being used. basin, clean it up immediately. ☐ Stack erodible landscape

> ☐ Discontinue application of any erodible landscape material within 2 days before a forecast rain event or during wet



CONCRETE, GROUT & MORTAR APPLICATION

☐ Store concrete, grout and mortar under cover, on pallets and away from drainage areas. These materials must never reach a

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.

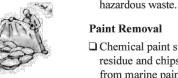
bags to keep slurry out of the

LANDSCAPE MATERIALS



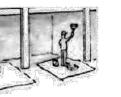
PAINTING & PAINT REMOVAL

☐ Wash out concrete equipment/ ☐ For water-based paints, pain



☐ Contain stockpiled landscaping materials by storing them under tarps when they are not actively

material on pallets. Cover or store these materials when they are not actively being used or



DEWATERING

all runoff within the site, and all

runoff that discharges from the

site. Divert run-on water from

offsite away from all disturbed

areas or otherwise ensure

☐ When dewatering, notify and

obtain approval from the local

municipality before discharging

water to a street gutter or storm

drain. Filtration or diversion

sediment trap may be required

through a basin, tank, or

contamination, testing is

required prior to reuse or

Consult with the Engineer to

determine whether testing is

required and how to interpre

groundwater must be treated

or hauled off-site for proper

☐ In areas of known

No. 59685

EXP. 12-31-25

OF

10 SHEETS

☐ Effectively manage all run-on.

Painting cleanup □ Never clean brushes or rinse gutter, storm drain, or surface

out brushes to the extent possible. Rinse to the sanitar sewer once you have gained permission from the local wastewater treatment authority Never pour paint down a drain ☐ For oil-based paints, paint out

brushes to the extent possible and clean with thinner or solvent in a proper container Filter and reuse thinners and solvents. Dispose of residue and unusable thinner/solvents as

> Paint Removal ☐ 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

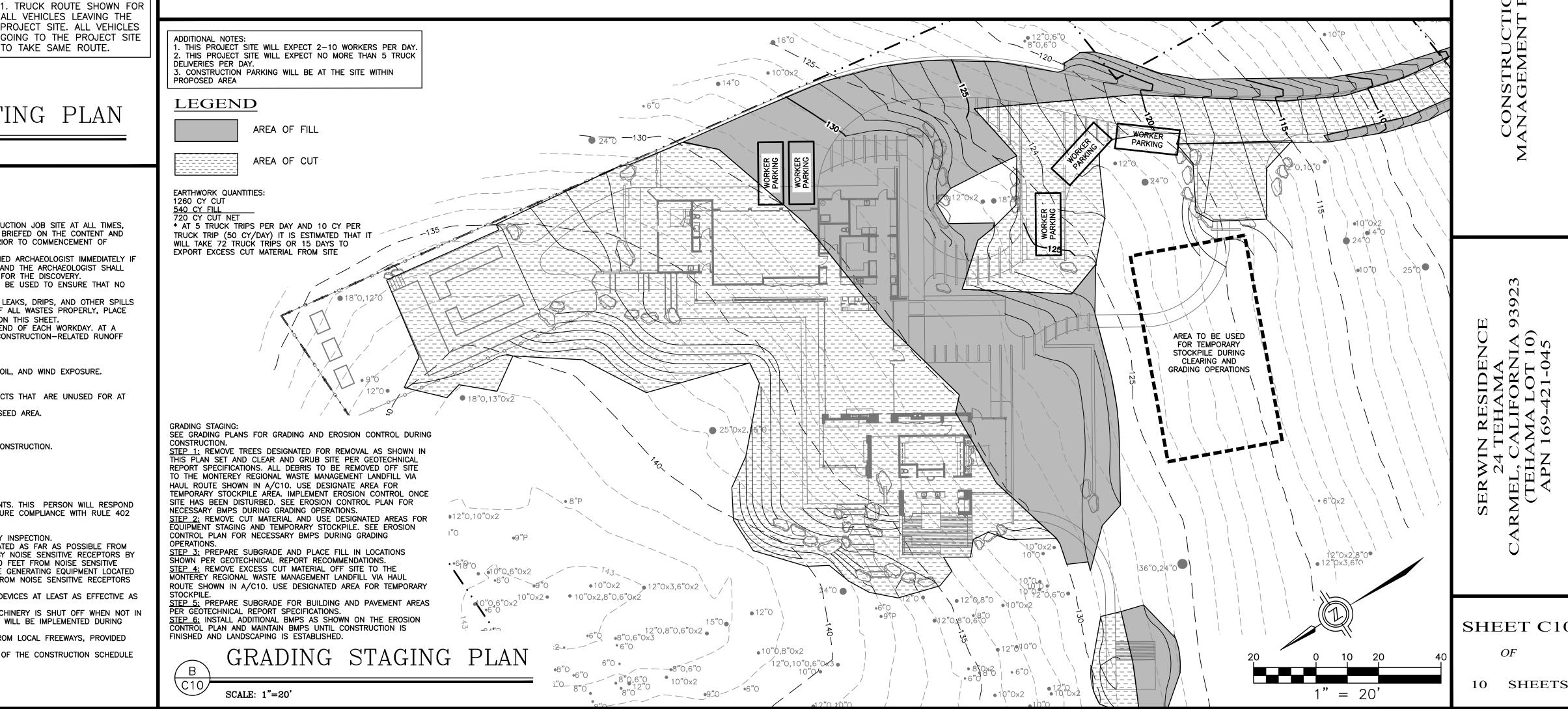
non-hazardous dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash

o Report a Spill: Call 911 or (831) 394-681 you see paint, cement, motor oil, antifreeze or other hazardous materials flowing into or being dumped into a storm drain, immediately call 911 to report it.

Additional Contact Nu	mbers (Non-Emergency):
City of Carmel-by-the-Sea:	(831) 620-2000
City of Del Rey Oaks:	(831) 394-8511
City of Monterey:	(831) 646-3921
City of Pacific Grove:	(831) 648-5722
City of Sand City:	(831) 394-3054
City of Seaside:	(831) 899-6825
County of Monterey:	(831) 755-4800

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

☐ If any of the following



HILLTOP RESIDENCE

24 TEHAMA, CARMEL, CA 93923 APN #169-421-045

PERSPECTIVE RENDERING



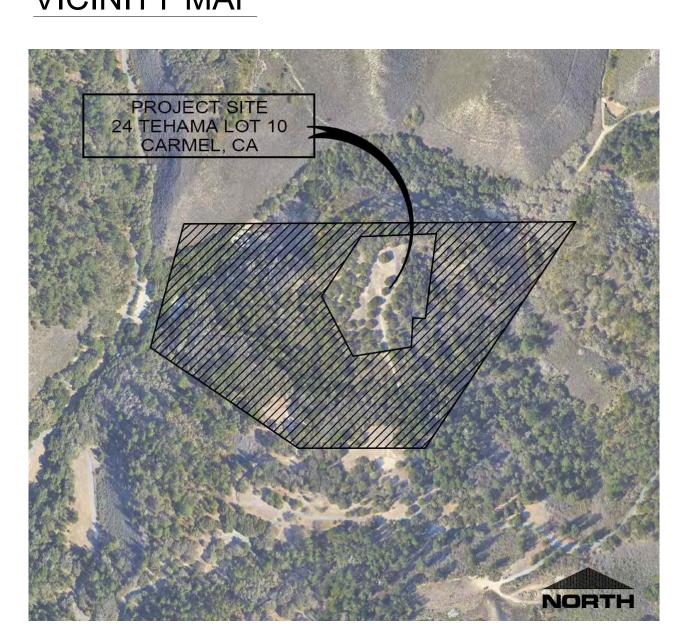
ABBREVIATIONS

AMERICANS WITH DISABILITIES ACT **ADJACENT** ADJ BOTTOM OF SURFACE BOTTOM OF WALL CALIFORNIA BUILDING CODE CL CLR CENTER LINE CLEAR CONC CONCRETE DRAIN INLET **EXISTING EXPANSION JOINT** FINISH FLOOR ELEVATION FINISH GRADE FINISH SURFACE HIGH POINT INVERT LIMIT OF WORK LOW POINT MAXIMUM MANHOLE MAINLINE ON CENTER POINT OF BEGINNING QUICK COUPLER VALVE RELATIVE COMPACTION RIM ELEVATION STORM DRAIN TOP OF SURFACE TREE PROTECTION ZONE TOP OF WALL

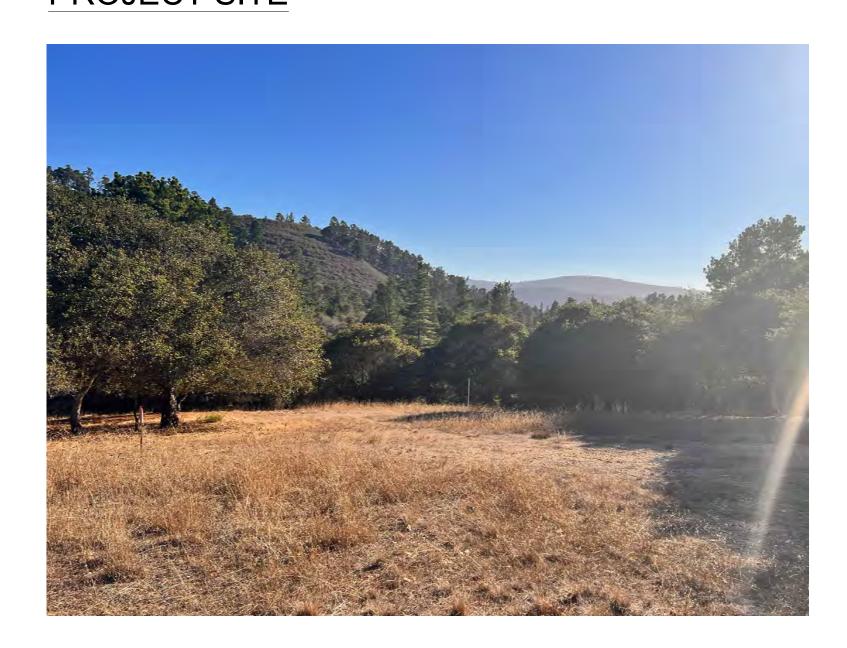
UNLESS OTHERWISE NOTED

VERIFY IN FIELD

VICINITY MAP



PROJECT SITE



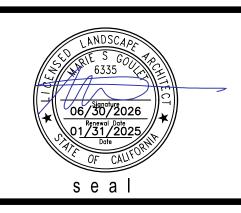
PROJECT DESCRIPTION

THE LANDSCAPE FOR THE PROPOSED NEW RESIDENCE WILL CELBRATE THE OAK SAVANNA AND GRASSLANDS ALREADY PRESENT ON THE SITE. ALL PAVING AND HARDSCAPE MATERIALS HAVE BEEN SELECTED TO MAINTAIN THIS NATURAL AESTHETIC. THE PROJECT FEATURES NATIVE MEADOW GARDENS, 2 WATER FEATURES, OUTDOOR PATIOS, A VEGETABLE GARDEN AND A SMALL NO MOW LAWN TERRACE.

INDEX OF DRAWINGS

SHEET NUMBER	SHEET TITLE
L0.00	COVER SHEET
L0.01	SITE ANALYSIS
L0.02	TREE PROTECTION PLAN
L0.03	FUEL MANAGEMENT PLAN
L1.00	LANDSCAPE SITE PLAN
L2.00	PLANTING PLAN
L3.00	IRRIGATION DIAGRAM
L3.01	IRRIGATION LEGEND
L3.02	IRRIGATION DETAILS
L3.03	IRRIGATION DETAILS
L4.00	LANDSCAPE LIGHTING PLAN
L5.00	CONSTRUCTION DETAILS
L5.01	CONSTRUCTION DETAILS

WILD LAND WORKSHOP LANDSCAPE ARCHITECTURE MONTEREY CA (831) 238-8459



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LISA AND BRAD SERWIN

o w n e r

HILLTOP RESIDENCE

24 TEHAMA, CARMEL, CA 93923

project

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3	PERMIT SET	01.31.2025
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COVER SHEET

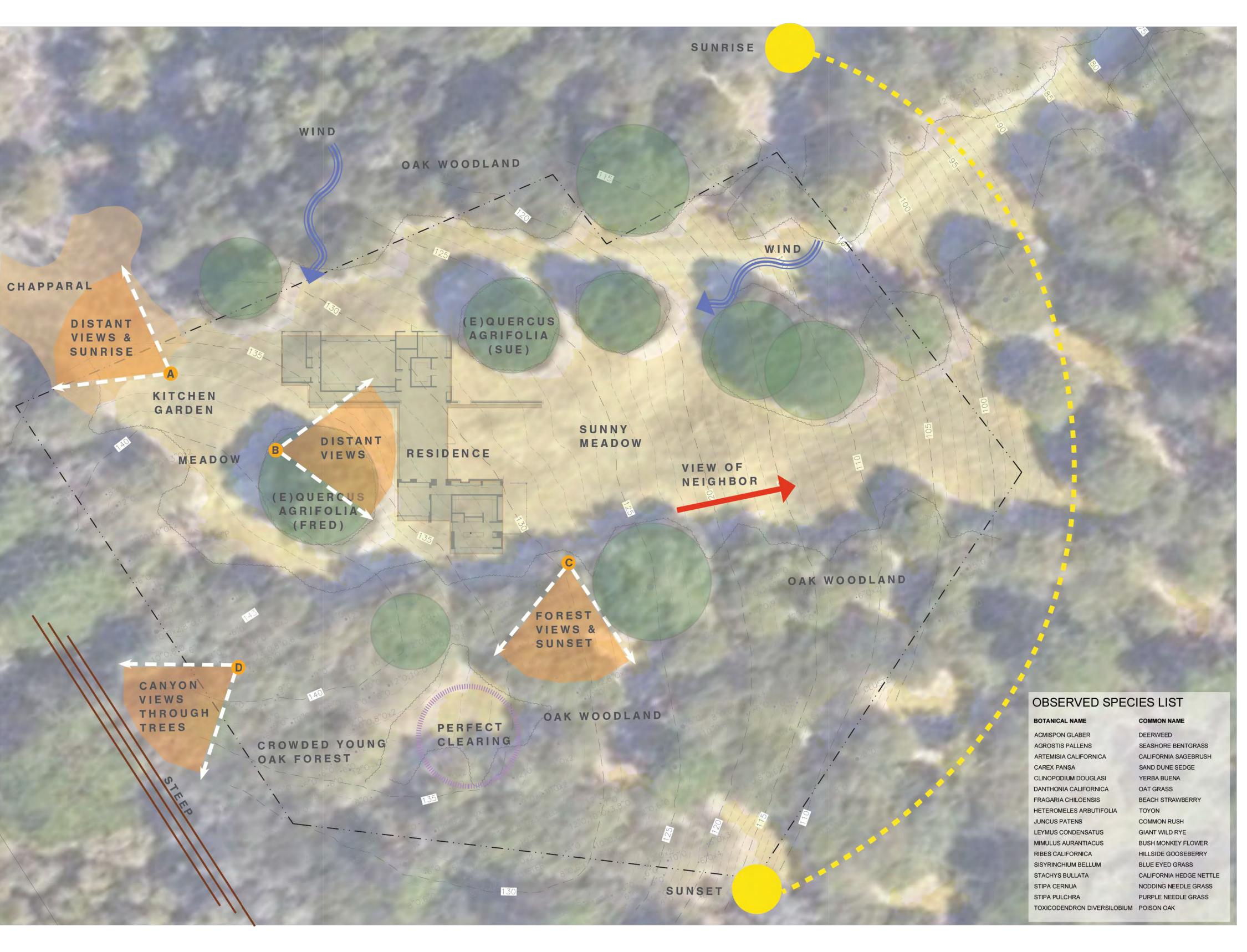
01.22.2025

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sheet no.

2/4/2025 10:00 AM



1, MARIE GOULET, CERTIFY THAT THIS LANDSCAPING AND IRRIGATION PLAN COMPLIES WITH ALL MONTEREY COUNTY LANDSCAPING REQUIREMENTS INCLUDING USE OF NATIVE DROUGHT TOLERANT, NON-INVASIVE SPECIES, LIMITED TURF AND LOW FLOW, WATER CONSERVING IRRIGATION FIXTURES."













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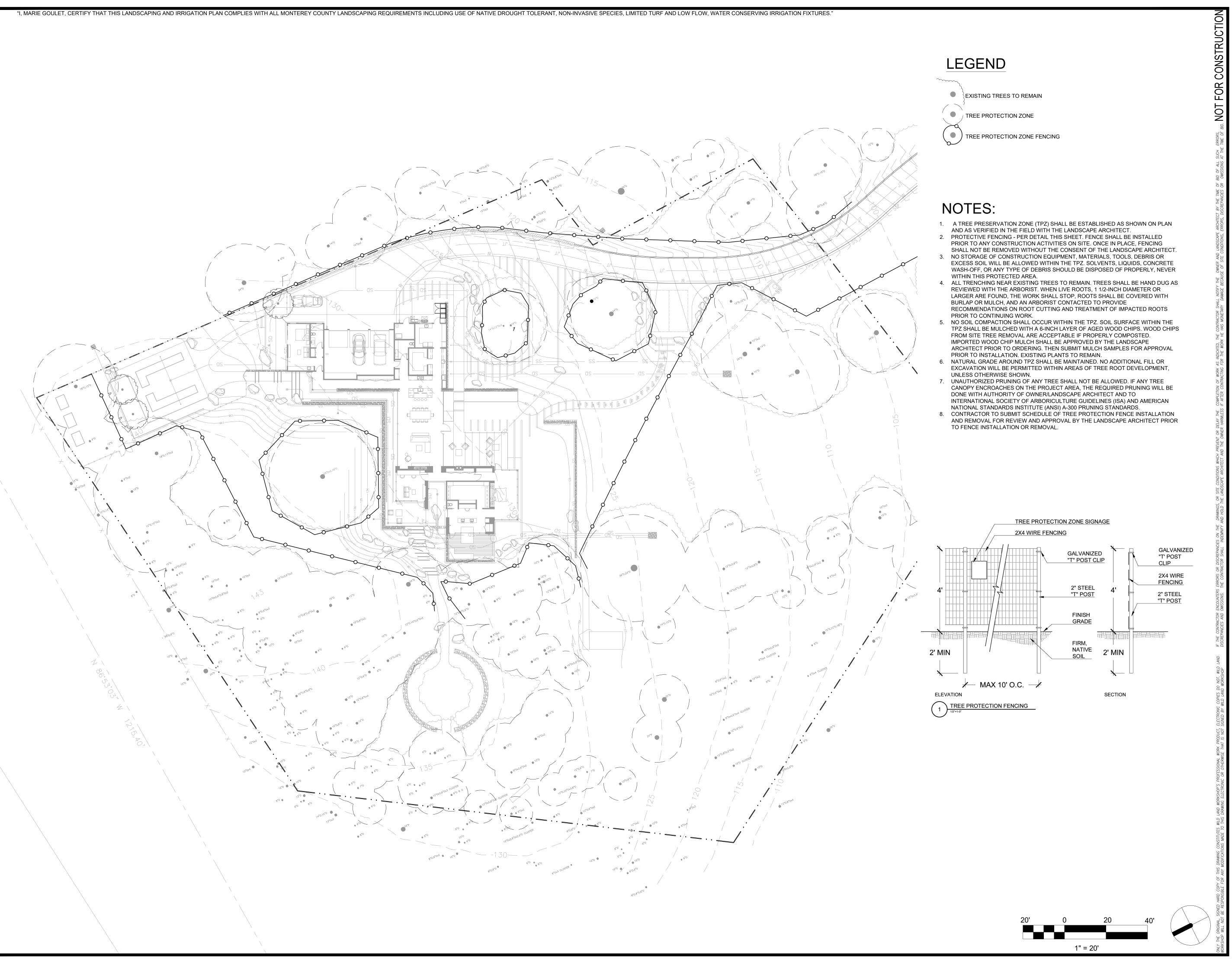
SITE ANALYSIS

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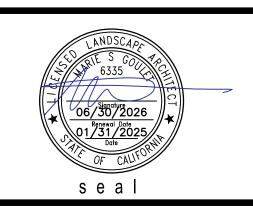
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20' 0 20 40'

1" = 20'







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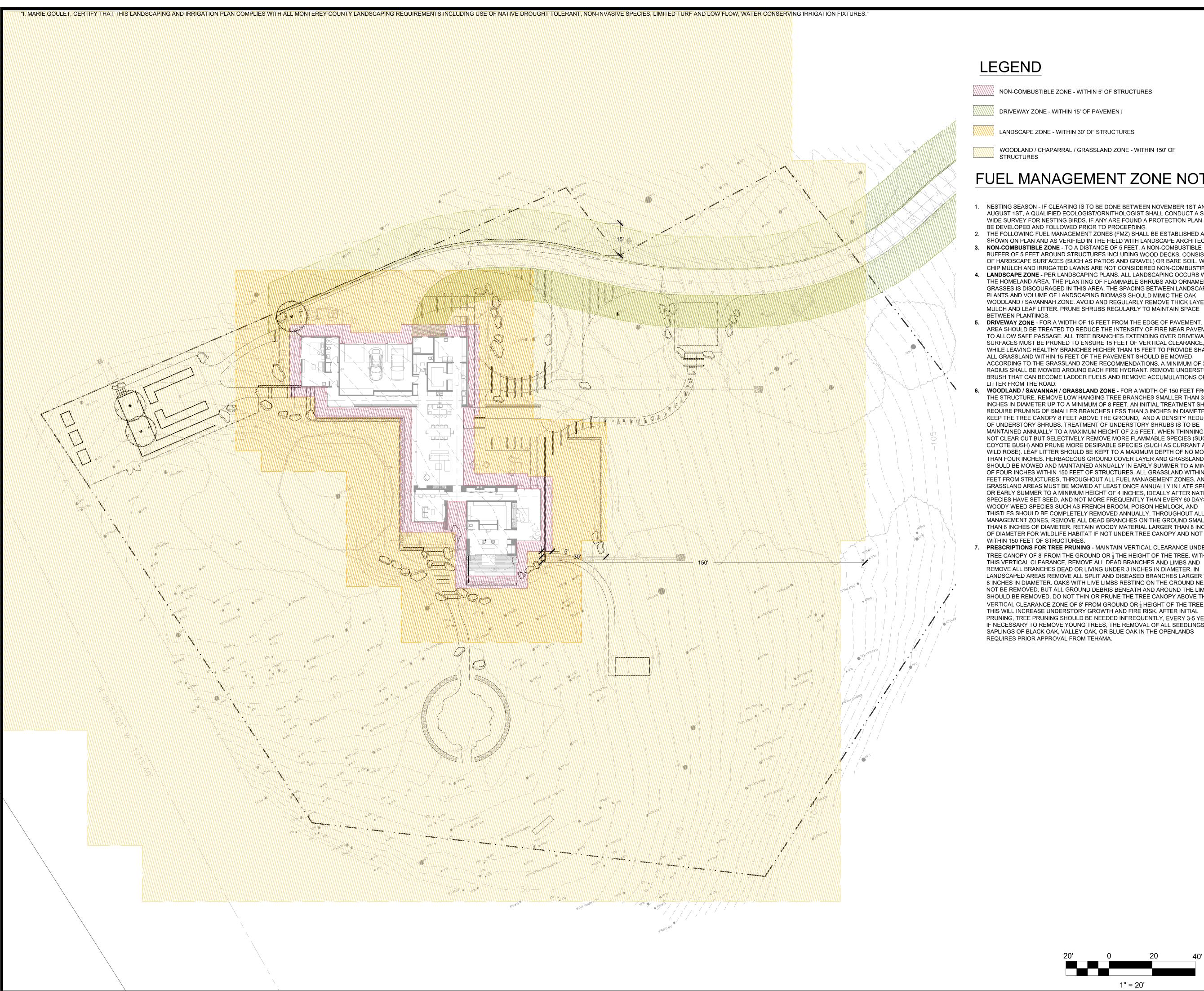
TREE PROTECTION PLAN

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NON-COMBUSTIBLE ZONE - WITHIN 5' OF STRUCTURES

DRIVEWAY ZONE - WITHIN 15' OF PAVEMENT

LANDSCAPE ZONE - WITHIN 30' OF STRUCTURES

WOODLAND / CHAPARRAL / GRASSLAND ZONE - WITHIN 150' OF STRUCTURES

FUEL MANAGEMENT ZONE NOTES

- 1. NESTING SEASON IF CLEARING IS TO BE DONE BETWEEN NOVEMBER 1ST AND AUGUST 1ST, A QUALIFIED ECOLOGIST/ORNITHOLOGIST SHALL CONDUCT A SITE WIDE SURVEY FOR NESTING BIRDS. IF ANY ARE FOUND A PROTECTION PLAN SHALL BE DEVELOPED AND FOLLOWED PRIOR TO PROCEEDING.
- 2. THE FOLLOWING FUEL MANAGEMENT ZONES (FMZ) SHALL BE ESTABLISHED AS SHOWN ON PLAN AND AS VERIFIED IN THE FIELD WITH LANDSCAPE ARCHITECT.
- BUFFER OF 5 FEET AROUND STRUCTURES INCLUDING WOOD DECKS, CONSISTING OF HARDSCAPE SURFACES (SUCH AS PATIOS AND GRAVEL) OR BARE SOIL. WOOD CHIP MULCH AND IRRIGATED LAWNS ARE NOT CONSIDERED NON-COMBUSTIBLE. 4. LANDSCAPE ZONE - PER LANDSCAPING PLANS. ALL LANDSCAPING OCCURS WITHIN
- THE HOMELAND AREA. THE PLANTING OF FLAMMABLE SHRUBS AND ORNAMENTAL GRASSES IS DISCOURAGED IN THIS AREA. THE SPACING BETWEEN LANDSCAPING PLANTS AND VOLUME OF LANDSCAPING BIOMASS SHOULD MIMIC THE OAK WOODLAND / SAVANNAH ZONE. AVOID AND REGULARLY REMOVE THICK LAYERS OF MULCH AND LEAF LITTER. PRUNE SHRUBS REGULARLY TO MAINTAIN SPACE BETWEEN PLANTINGS.
- 5. DRIVEWAY ZONE FOR A WIDTH OF 15 FEET FROM THE EDGE OF PAVEMENT. THIS AREA SHOULD BE TREATED TO REDUCE THE INTENSITY OF FIRE NEAR PAVEMENT TO ALLOW SAFE PASSAGE. ALL TREE BRANCHES EXTENDING OVER DRIVEWAY SURFACES MUST BE PRUNED TO ENSURE 15 FEET OF VERTICAL CLEARANCE, WHILE LEAVING HEALTHY BRANCHES HIGHER THAN 15 FEET TO PROVIDE SHADE. ALL GRASSLAND WITHIN 15 FEET OF THE PAVEMENT SHOULD BE MOWED ACCORDING TO THE GRASSLAND ZONE RECOMMENDATIONS. A MINIMUM OF 3 FEET RADIUS SHALL BE MOWED AROUND EACH FIRE HYDRANT. REMOVE UNDERSTORY BRUSH THAT CAN BECOME LADDER FUELS AND REMOVE ACCUMULATIONS OF LEAF LITTER FROM THE ROAD.
- WOODLAND / SAVANNAH / GRASSLAND ZONE FOR A WIDTH OF 150 FEET FROM THE STRUCTURE. REMOVE LOW HANGING TREE BRANCHES SMALLER THAN 3 INCHES IN DIAMETER UP TO A MINIMUM OF 8 FEET. AN INITIAL TREATMENT SHALL REQUIRE PRUNING OF SMALLER BRANCHES LESS THAN 3 INCHES IN DIAMETER TO KEEP THE TREE CANOPY 8 FEET ABOVE THE GROUND, AND A DENSITY REDUCTION OF UNDERSTORY SHRUBS. TREATMENT OF UNDERSTORY SHRUBS IS TO BE MAINTAINED ANNUALLY TO A MAXIMUM HEIGHT OF 2.5 FEET. WHEN THINNING, DO NOT CLEAR CUT BUT SELECTIVELY REMOVE MORE FLAMMABLE SPECIES (SUCH AS COYOTE BUSH) AND PRUNE MORE DESIRABLE SPECIES (SUCH AS CURRANT AND WILD ROSE). LEAF LITTER SHOULD BE KEPT TO A MAXIMUM DEPTH OF NO MORE THAN FOUR INCHES. HERBACEOUS GROUND COVER LAYER AND GRASSLAND SHOULD BE MOWED AND MAINTAINED ANNUALLY IN EARLY SUMMER TO A MINIMUM OF FOUR INCHES WITHIN 150 FEET OF STRUCTURES. ALL GRASSLAND WITHIN 150 FEET FROM STRUCTURES, THROUGHOUT ALL FUEL MANAGEMENT ZONES. ANNUAL GRASSLAND AREAS MUST BE MOWED AT LEAST ONCE ANNUALLY IN LATE SPRING OR EARLY SUMMER TO A MINIMUM HEIGHT OF 4 INCHES, IDEALLY AFTER NATIVE SPECIES HAVE SET SEED, AND NOT MORE FREQUENTLY THAN EVERY 60 DAYS. WOODY WEED SPECIES SUCH AS FRENCH BROOM, POISON HEMLOCK, AND THISTLES SHOULD BE COMPLETELY REMOVED ANNUALLY. THROUGHOUT ALL FUEL MANAGEMENT ZONES, REMOVE ALL DEAD BRANCHES ON THE GROUND SMALLER OF DIAMETER FOR WILDLIFE HABITAT IF NOT UNDER TREE CANOPY AND NOT WITHIN 150 FEET OF STRUCTURES.
- PRESCRIPTIONS FOR TREE PRUNING MAINTAIN VERTICAL CLEARANCE UNDER TREE CANOPY OF 8' FROM THE GROUND OR $\frac{1}{3}$ THE HEIGHT OF THE TREE. WITHIN THIS VERTICAL CLEARANCE, REMOVE ALL DEAD BRANCHES AND LIMBS AND REMOVE ALL BRANCHES DEAD OR LIVING UNDER 3 INCHES IN DIAMETER. IN PRUNING, TREE PRUNING SHOULD BE NEEDED INFREQUENTLY, EVERY 3-5 YEARS. IF NECESSARY TO REMOVE YOUNG TREES, THE REMOVAL OF ALL SEEDLINGS AND SAPLINGS OF BLACK OAK, VALLEY OAK, OR BLUE OAK IN THE OPENLANDS REQUIRES PRIOR APPROVAL FROM TEHAMA.





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LISA AND BRAD SERWIN

owner

HILLTOP RESIDENCE

24 TEHAMA, CARMEL, CA 93923

project

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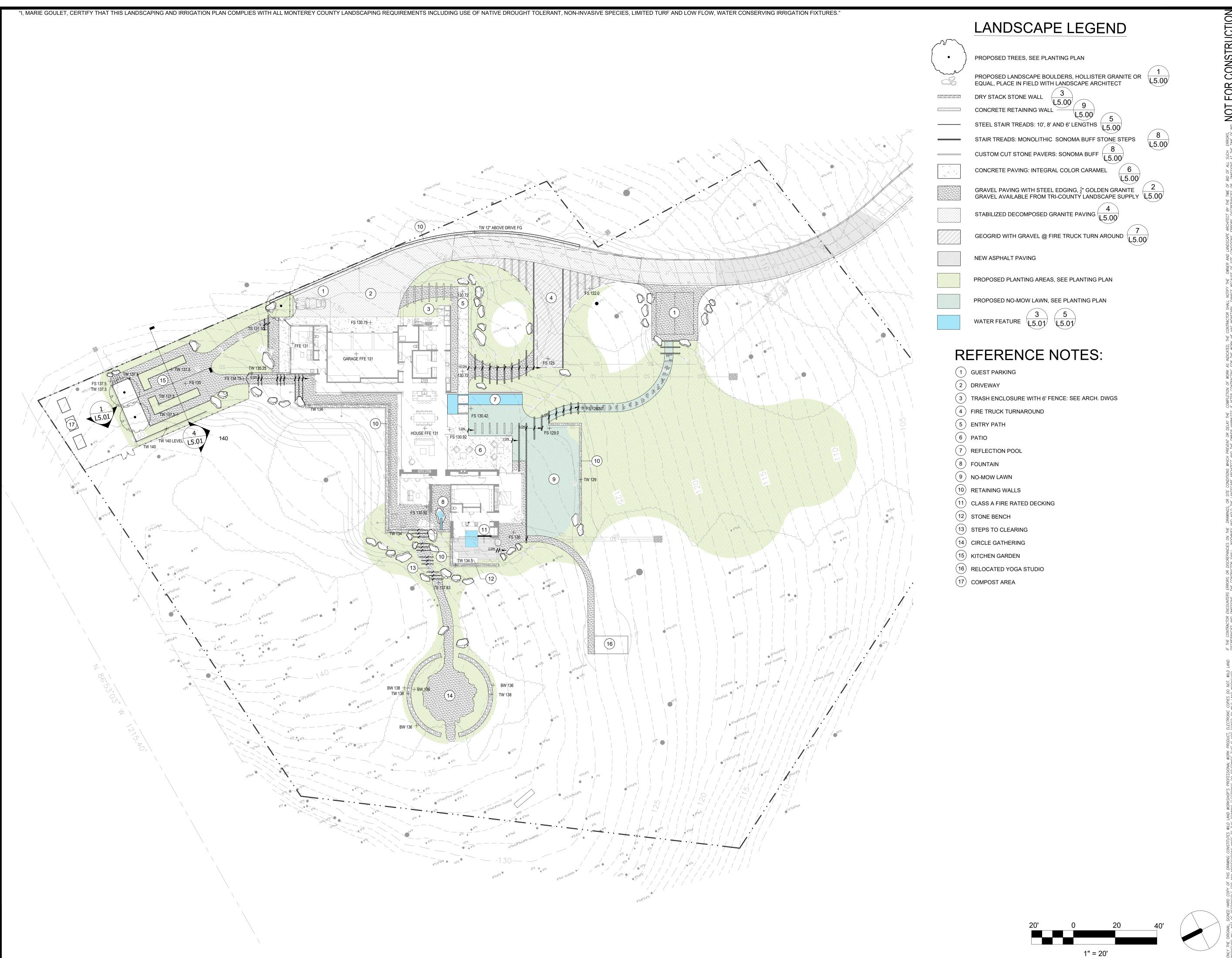
FUEL MANAGEMENT PLAN

sheet title

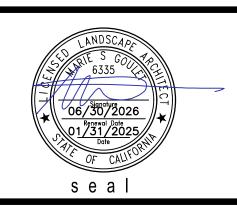
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1" = 20'







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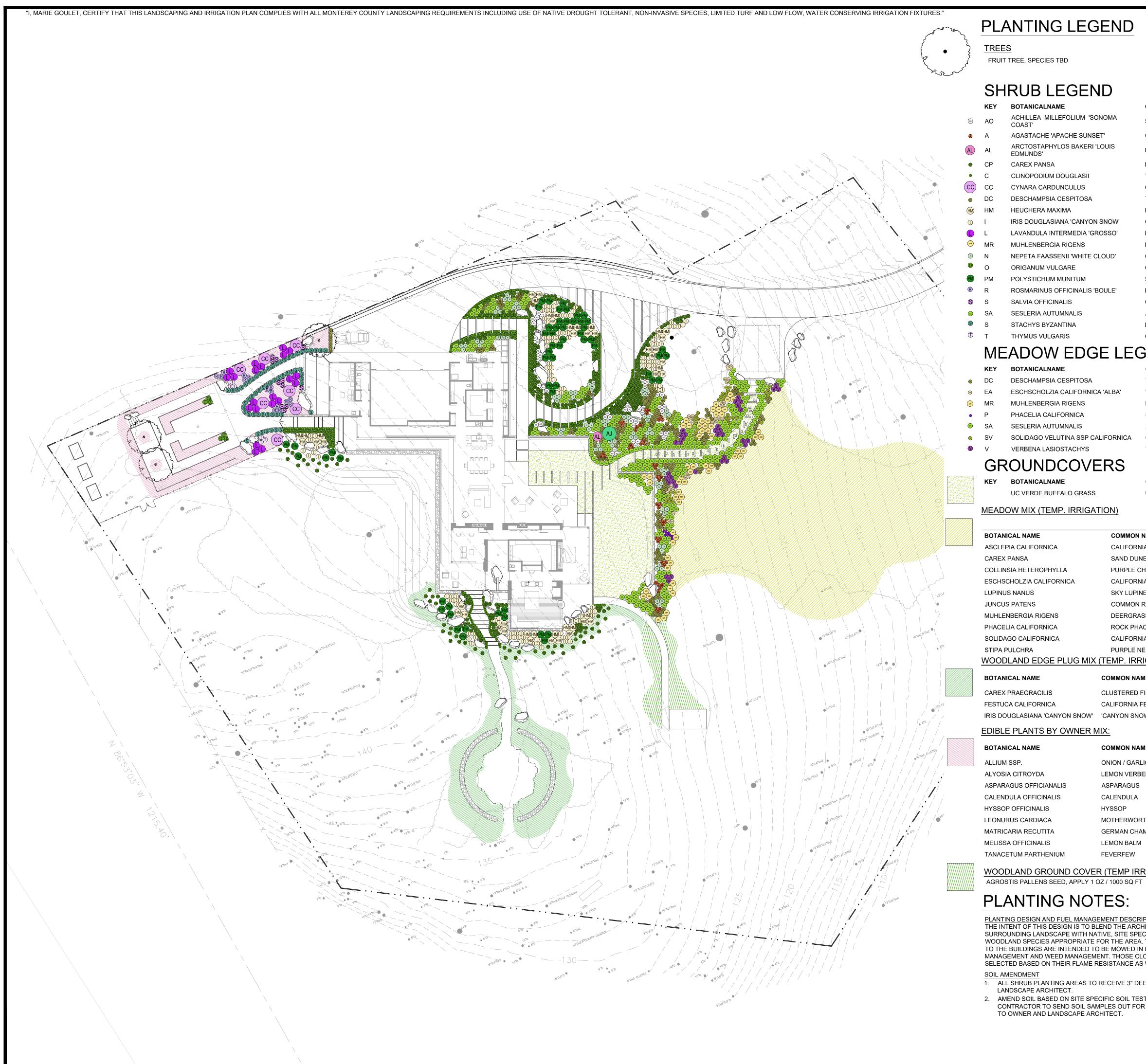
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LANDSCAPE SITE PLAN

sheet title

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PLANTING LEGEND

FRUIT TREE, SPECIES TBD

SHRUB LEGEND

	O i					
	KEY	BOTANICALNAME	COMMONNAME	SIZE	SPACING	WUCOLS
(AO)	AO	ACHILLEA MILLEFOLIUM 'SONOMA COAST'	SONOMA WHITE YARROW	1 GAL	2' OC	L
(A)	Α	AGASTACHE 'APACHE SUNSET'	GIANT HYSSOP	1 GAL	1'-6" OC	L
AL	AL	ARCTOSTAPHYLOS BAKERI 'LOUIS EDMUNDS'	LOUIS EDMUNDS MANZINITA	1 GAL	4' OC	L
	CP	CAREX PANSA	DUNE SEDGE	1 GAL	1'-6" OC	L
•	С	CLINOPODIUM DOUGLASII	YERBA BUENA	1 GAL	1'-0"	L
CC	CC	CYNARA CARDUNCULUS	CARDOON	1 GAL	5' OC	
6	DC	DESCHAMPSIA CESPITOSA	TUFTED HAIR GRASS	1 GAL	1'-6" OC	L
HM	НМ	HEUCHERA MAXIMA	ISLAND ALUM ROOT	1 GAL	3' OC	М
1	1	IRIS DOUGLASIANA 'CANYON SNOW'	CANYON SNOW DOUGLAS IRIS	1 GAL	2' OC	L
	L	LAVANDULA INTERMEDIA 'GROSSO'	LAVENDER	1 OR 2 GAL	3' OC	L
MR	MR	MUHLENBERGIA RIGENS	DEER GRASS	5 GAL	2'-6" OC	L
(8)	N	NEPETA FAASSENII 'WHITE CLOUD'	CAT MINT	4" POT	2'-0"	VL
0	0	ORIGANUM VULGARE	CULINARY OREGANO	1 GAL	2' OC	М
PM	PM	POLYSTICHUM MUNITUM	SWORD FERN	5 GAL	3' OC	М
R	R	ROSMARINUS OFFICINALIS 'BOULE'	BOULE ROSEMARY	5 GAL	2' OC	L
S	S	SALVIA OFFICINALIS	COMMON SAGE	1 GAL	2' OC	L
(54)	SA	SESLERIA AUTUMNALIS	AUTUMN MOOR GRASS	1 GAL	2' OC	М
(S)	S	STACHYS BYZANTINA	LAMB'S EARS	1 GAL	2' OC	L
1	Т	THYMUS VULGARIS	COMMON THYME	4" POT	2' OC	L

MEADOW EDGE LEGEND

KEY	BOTANICALNAME	COMMONNAME	SIZE	SPACING	WUCOLS	NO.
DC	DESCHAMPSIA CESPITOSA	TUFTED HAIR GRASS	1 GAL	1'-6" OC	L	土
EA	ESCHSCHOLZIA CALIFORNICA 'ALBA'	'ALBA' CALIFORNIA POPPY	1 GAL	1'-6" OC	VL	CATED
MR	MUHLENBERGIA RIGENS	DEER GRASS	5 GAL	2'-6" OC	L	AS IN
Р	PHACELIA CALIFORNICA	SCORPION FLOWER	1 GAL	1' OC	L	WORK
SA	SESLERIA AUTUMNALIS	AUTUMN MOOR GRASS	1 GAL	2' OC	М	OF
SV	SOLIDAGO VELUTINA SSP CALIFORNICA	CALIFORNIA GOLDENROD	1 GAL	1'-6" OC	M	FTION
V	VERBENA LASIOSTACHYS	WESTERN VERVAIN	1 GAL	2' OC	VL	OMP

GROUNDCOVERS

KEY	BOTANICALNAME	COMMONNAME	SIZE	SPACING	WUCOLS
	UC VERDE BUFFALO GRASS	UC VERDE	PLUGS	1' OC	L

MEADOW MIX (TEMP. IRRIGATION)

	BOTANICAL NAME	COMMON NAME	SIZE
///	ASCLEPIA CALIFORNICA	CALIFORNIA MILKWEED	PLUG
	CAREX PANSA	SAND DUNE SEDGE	PLUG
	COLLINSIA HETEROPHYLLA	PURPLE CHINESE HOUSES	SEED
	ESCHSCHOLZIA CALIFORNICA	CALIFORNIA POPPY	SEED
	LUPINUS NANUS	SKY LUPINE	SEED
	JUNCUS PATENS	COMMON RUSH	SEED
	MUHLENBERGIA RIGENS	DEERGRASS	PLUG
	PHACELIA CALIFORNICA	ROCK PHACELIA	SEED
	SOLIDAGO CALIFORNICA	CALIFORNIA GOLDENROD	SEED
	STIPA PULCHRA	PURPLE NEEDLE GRASS	SEED & PLUC
,	MOODLAND EDGE DLUG MIV /TI	TMD IDDICATION)	

WOODLAND EDGE PLUG MIX (TEMP. IRRIGATION)

BOTANICAL NAME	COMMON NAME
CAREX PRAEGRACILIS	CLUSTERED FIELD SEDGE
FESTUCA CALIFORNICA	CALIFORNIA FESCUE
IRIS DOUGLASIANA 'CANYON SNOW'	'CANYON SNOW' DOUGLAS IRIS

EDIBLE PLANTS BY OWNER MIX:

BOTANICAL NAME	COMMON NAME
ALLIUM SSP.	ONION / GARLIC
ALYOSIA CITROYDA	LEMON VERBENA
ASPARAGUS OFFICIANALIS	ASPARAGUS
CALENDULA OFFICINALIS	CALENDULA
HYSSOP OFFICINALIS	HYSSOP
LEONURUS CARDIACA	MOTHERWORT
MATRICARIA RECUTITA	GERMAN CHAMOMILE
MELISSA OFFICINALIS	LEMON BALM
TANACETUM PARTHENIUM	FEVERFEW

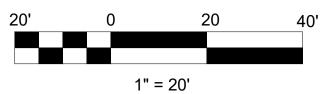
WOODLAND GROUND COVER (TEMP IRRIGATION)

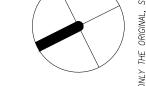
PLANTING NOTES:

PLANTING DESIGN AND FUEL MANAGEMENT DESCRIPTION: THE INTENT OF THIS DESIGN IS TO BLEND THE ARCHITECTURE INTO THE SURROUNDING LANDSCAPE WITH NATIVE, SITE SPECIFIC GRASSLAND AND OAK WOODLAND SPECIES APPROPRIATE FOR THE AREA. THE PLANTING AREAS ADJACENT TO THE BUILDINGS ARE INTENDED TO BE MOWED IN EARLY SUMMER FOR FUEL MANAGEMENT AND WEED MANAGEMENT. THOSE CLOSEST TO THE BUILDINGS ARE SELECTED BASED ON THEIR FLAME RESISTANCE AS WELL AS AESTHETICS.

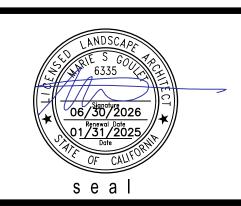
1. ALL SHRUB PLANTING AREAS TO RECEIVE 3" DEEP MULCH, VERIFY SPEC WITH LANDSCAPE ARCHITECT.

^{2.} AMEND SOIL BASED ON SITE SPECIFIC SOIL TESTING RECOMMENDATIONS,
CONTRACTOR TO SEND SOIL SAMPLES OUT FOR TESTING AND PROVIDE RESULTS
TO OWNER AND LANDSCAPE ARCHITECT.









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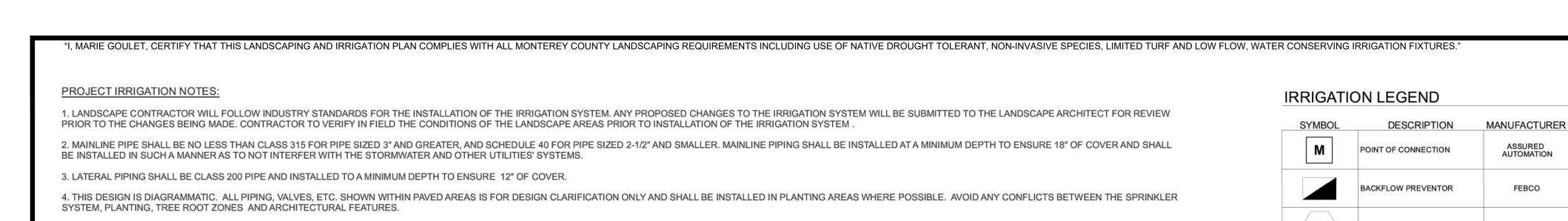
01.22.2025

PLANTING PLAN

sheet title

L2.00

sheet no.

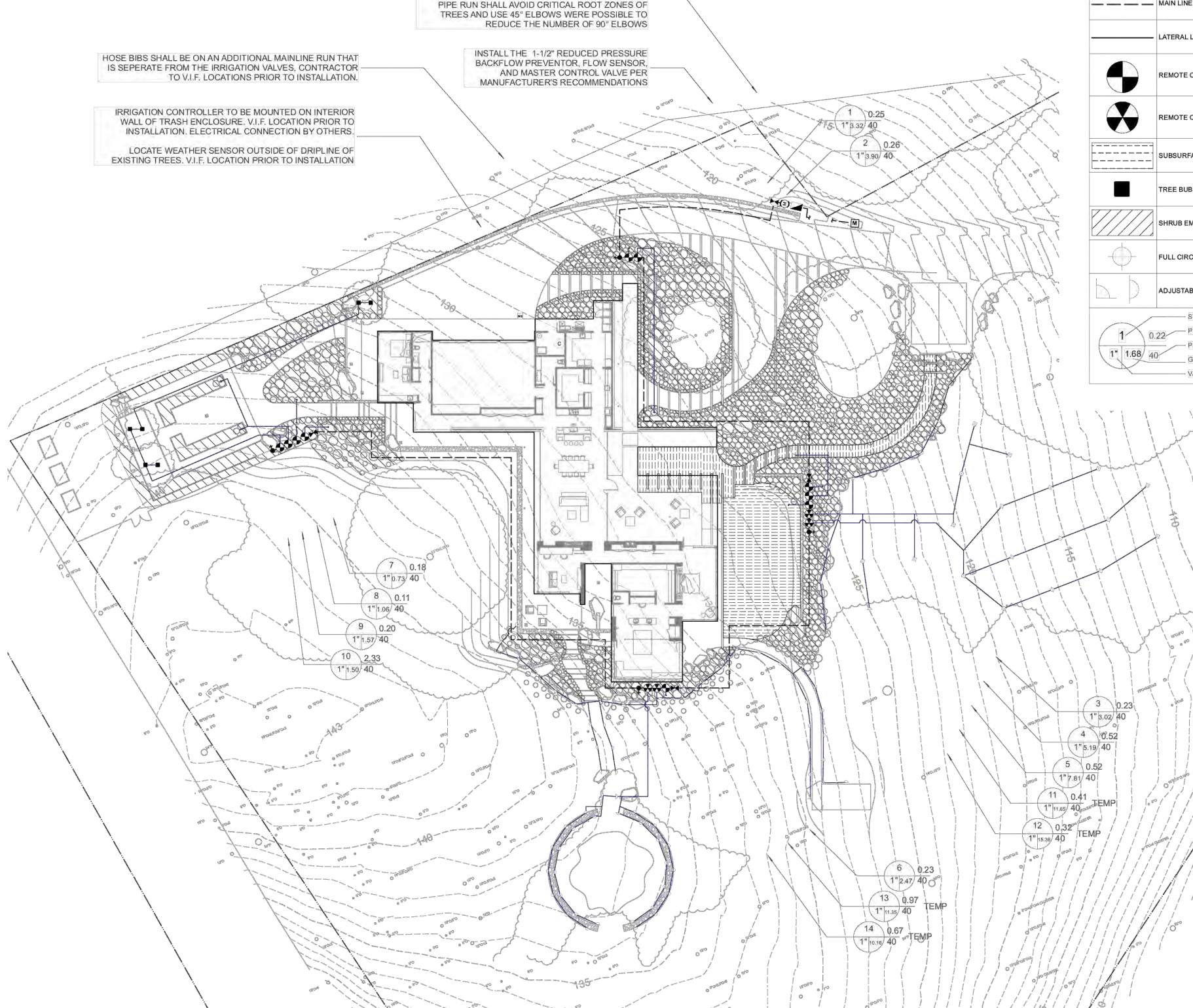


6. LANDSCAPE IRRIGATION SYSTEMS SHALL BE INSTALLED TO PREVENT OVER-SPRAY ON STRUCTURES. 7. IRRIGATION DEMAND: 20 GPM AT 80 PSI. FIELD VERIFY EXACT PRESSURE PRIOR TO START OF WORK. IF PRESSURE VARIES FROM REQUIRED PRESSURE, NOTIFY LANDSCAPE ARCHITECT FOR FURTHER INSTRUCTION. 8. ALL SPRAY VALVES AND SPRINKLER OUTLETS SHOWN ARE FOR THE ESTABLISHMENT PERIOD AND SHALL BE RARELY USED POST ESTABLISHMENT. 9. REFER TO PLANTING PLAN FOR FULL EXTENT OF SEEDED AREAS. CONTRACTOR TO ADD ALTERNATE ALLOWANCE FOR OVER-HEAD SPRAYS AT ALL DISTURBED AREAS THAT SHALL RECEIVE SEED MIX. SPRAYS SHALL BE MATCH PRECIPITATION ROTATOR NOZZLES AND THE PVC LATERAL LINES SHALL BE PLACED ON THE SURFACE WITH NO TRENCHING REQUIRED. 10. ALL IRRIGATION OUTLETS AND PIPING FOR TEMPORARY ZONES SHALL BE INSTALLED ABOVE GROUND AND REMOVED AFTER THE ESTABLISHMENT PERIOD OF NO MORE THAN THREE (3) YEARS FROM DATE OF PLANTING. CONNECT IRRIGATION MAINLINE TO DOMESTIC WATER

LINE. INSTALL A NEW 1-1/2" SUB-METER FOR THE IRRIGATION SYSTEM, RUN 1-1/2" MAINLINE FROM NEW

SUB-METER TO BACKFLOW PREVENTOR.

5. SYSTEM SHALL RECEIVE AN INTERIOR MOUNTED IRRIGATION CONTROLLER. CONTRACTOR TO VERIFY IN FIELD LOCATION PRIOR TO INSTALLATION. ELECTRICAL CONNECTION BY OTHERS.



IRRIGATION LEGEND	

SYMBOL	DESCRIPTION	MANUFACTURER	PRODUCT	MODEL NUMBER	NOTES
M	POINT OF CONNECTION	ASSURED AUTOMATION	1-1/2" SUB-METER	WM150	PER MANUFACTURER'S RECOMMENDATIONS
	BACKFLOW PREVENTOR	FEBCO	1-1/2" BACKFLOW PREVENTOR W/ PRESSURE REGULATOR, IN ENCLOSURE	825Y	PER MANUFACTURER'S RECOMMENDATIONS, SEE DETAIL 1/L3.02
(c)	CONTROLLER	HUNTER	PRO-HC W/ RAIN CLIK AND HC-150-FLOW SENSOR	PHC-1200	12 STATION HYDRAWISE COMPATIBLE CONTROLLER, SEE DETAIL 9/L3.02
ws	WEATHER SENSOR	HUNTER	SOLAR-SYNC ETO-RAIN-FREEZE SENSOR	WSS-SEN	WIRELESS SENSOR, LOCATE NO MORE THAN 800' FROM CONTROLLER
F	FLOW SENSOR	HUNTER	1-1/2" FLOW-SYNC SENSOR	HC-150-FLOW	PER MANUFACTURER'S RECOMMENDATIONS, SEE DETAIL 2/L3.02
M	MASTER VALVE	HUNTER	1-1/2" REMOTE CONTROL VALVE WITH FILTER SCREEN, NORMALLY CLOSED	ICV-151G-FS	PER MANUFACTURER'S RECOMMENDATIONS, SEE DETAIL 3/L3.02
	BRASS SHUT-OFF VALVE	NIBCO	LINE-SIZE BRASS GATE VALVE	TI-8	PER MANUFACTURER'S RECOMMENDATIONS, SEE DETAIL 5/L3.02
-	HOSE SPIGOT	LASCO	3/4" INVERTED GARDEN VALVE	MODEL 06-1342	PER MANUFACTURER'S RECOMMENDATIONS, SEE DETAIL 4/L3.02
	- MAIN LINE	-	PVC SCH 40 W/ SOLVENT WELD FITTINGS	-	SIZE: 1-1/2", SEE DETAIL 8/L3.02
	- LATERAL LINE	-	PVC CLASS 200 W/SOLVENT WELD FITTINGS	-	SIZE: 0 - 6 GPM = 3/4", 7 - 18 GPM = 1", SEE DETAIL 8/L3.02
	REMOTE CONTROL VALVE	HUNTER	DRIP ZONE CONTROL KITS	PCZ-101-LF-40	USE DRIP ZONE KITS AT ALL SUBSURFACE DRIP, BUBBLERS, AND EMITTERS. SEE DETAIL 6/L3.02
	REMOTE CONTROL VALVE	HUNTER	GLOBE VALVES	ICV-101G	ICV TO BE USED AT POP-UP SPRAYS, SEE DETAIL 7/L3.02
	SUBSURFACE DRIP ZONE	HUNTER	0.4 GPM DRIP LINE W/ CHECK VALVES	HDL-04-18-CV	12" ROW AND 12" EMITTER SPACING UNLESS OTHERWISE NOTED, SEE DETAILS 1-4/L3.03
	TREE BUBBLERS	HUNTER	18" ROOT ZONE WATERING SYSTEM	RZWS-18-25-CV	0.25 GPM BUBBLER, SEE DETAIL 5/L3.02
	SHRUB EMITTERS	HUNTER	0.50 GPH EMITTERS W/BARBED END	HE-050-B	PLACE TWO (2) PER 15 GAL. SHRUBS, SEE DETAIL 7/L3.03
-	FULL CIRCLE ROTATOR	HUNTER	MP ROTATOR NOZZLE ON 12" POP-UP	MP1000-360 OR MP2000-360	PER MANUFACTURER'S RECOMMENDATIONS, SEE DETAIL 6/L3.03
	ADJUSTABLE ROTATOR	HUNTER	MP ROTATOR NOZZLE ON 12" PO-UP	MP1000-90 OR MP2000-90	V.I.F., USE MP-800 SERIES WHERE NECESSARY, SEE DETAIL 6/L3.03
	STATION NUMBER				

PRODUCT

MODEL NUMBER

NOTES

Regular Landscape Area		7,447	SF					
Special Landscape Area		1,739	SF					
Total Landscape Area		9186	SF	-				
Eto (CIMIS)		49.7						
Eppt (@ 25% Annual Rainfall)		5.275						
Maximum Applied Water Allowan	ce							
(Eto - Eppt)	X	Gal./SF	X	$[(0.55 \times LA)]$	+	(0.45 x SLA)]	MAWA	ACRE-FT.
44.43		0.62		5,052		782.55	160,712	0.49
Estimated Total Water Use (Post	Esta	blishment)						
Plant Water Use		(ETo)(0.62)	X	(PF x HA)		100	ETWU	ACRE-FT.
				ΙE				
Low		30.8		2,268			69,891	
Med.		30.8		0			0	
High		30.8		0			0	
						ETWU	69,891	0.21
							ETWU compli	es with MAWA
Estimated Total Water Use (Esta	olish	ment Period @	9,85	7 SF Grassland	Res	toration Areas)		
Plant Water Use		(ETo)(0.62)	X	(PF x HA)		_	ETWU	ACRE-FT.
				IE				
Low		30.8		2,629			80,996	
Med.		30.8		0			0	
100-6		30.8		0			0	
High								

Total Establishment ETWU





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team

LISA AND BRAD SERWIN

owner

HILLTOP RESIDENCE

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project

3	PERMIT SET	01.31.2025
2	COORDINATION SET	12.04.2024
1	STEP 3 REVISION	08.23.2024
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01.22.2025

IRRIGATION DIAGRAM

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OLINEIVAL IIXIXIOATION NOTEO

- 1. THE CONTRACTOR SHALL REVIEW RELATED DRAWINGS AND SHALL ENSURE COORDINATION WITH ALL APPLICABLE TRADES PRIOR TO SUBMITTING BID.
- 2. THE IRRIGATION SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES BY LICENSED CONTRACTORS AND EXPERIENCED WORKERS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES RELATING TO THEIR WORK.
- 3. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHERE POSSIBLE. AVOID ANY CONFLICTS BETWEEN THE SPRINKLER SYSTEM, PLANTING, TREE ROOT ZONES AND ARCHITECTURAL FEATURES.
- 4. PARALLEL PIPES MAY BE INSTALLED IN COMMON TRENCH. PIPES ARE NOT TO BE INSTALLED DIRECTLY ABOVE ONE ANOTHER. TRENCHES SHALL BE AMPLE SIZE TO PERMIT THE PIPES TO BE LAID AT THE ELEVATIONS INTENDED AND TO PERMIT SPACE FOR JOINING.
- 5. CONTRACTOR SHALL RESTORE SURFACES, EXISTING UNDERGROUND INSTALLATIONS, ETC., DAMAGED OR CUT AS A RESULT OF EXCAVATIONS, TO ORIGINAL CONDITIONS IN A MANNER APPROVED BY THE OWNER'S REPRESENTATIVE.
- 6. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- 7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, ETC. COORDINATE WORK WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS FOR THE LOCATION AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING, STRUCTURES, ETC. CONTRACTOR TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO THE EXCAVATION OF TRENCHES. CONTRACTOR IS TO REPAIR ANY DAMAGE CAUSED BY THEIR WORK AT NO ADDITIONAL COST TO THE OWNER.
- 8. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC., WHICH MAY BE REQUIRED. CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL WORK AND PLAN WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THE WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEMS, PLANTING, AND ARCHITECTURAL FEATURES.
- 9. ELECTRICAL CONTRACTOR TO SUPPLY 120 VAC (2.5 AMP) SERVICE TO CONTROLLER LOCATION. IRRIGATION CONTRACTOR TO MAKE FINAL CONNECTION FROM ELECTRICAL STUB-OUT TO CONTROLLER. IRRIGATION CONTROL WIRE SHALL BE #14, U.L. APPROVED FOR DIRECT BURIAL. COMMON WIRE SHALL BE #12 U.L. APPROVED AND SHALL BE WHITE IN COLOR. WIRING TO INDIVIDUAL REMOTE CONTROL VALVES SHALL BE COLOR OTHER THAN WHITE.
- 10. EACH CONTROLLER SHALL HAVE ITS OWN INDEPENDENT GROUND WIRE.
- 11. REMOTE CONTROL VALVES SHALL BE WIRED TO CONTROLLER IN SEQUENCE AS SHOWN ON PLANS. RUN WIRE FROM EACH RCV TO THE CONTROLLER. SPLICING WIRES TOGETHER OUTSIDE OF VALVE BOXES WILL NOT BE PERMITTED. ATTACH A LABEL TO CONTROL WIRE AT THE CONTROLLER AND ATTACH AN ID TAG AT EACH REMOTE CONTROL VALVE INDICATING CONTROLLER AND STATION NUMBER.
- 12. SPLICING OF 24-VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 36" COIL OF EXCESS WIRE AT EACH SPLICE AND 100 FEET ON CENTER ALONG WIRE RUN. TAPE WIRE IN BUNDLES 10 FEET ON CENTER. NO TAPING PERMITTED INSIDE SLEEVES.
- 13. WIRE CONNECTORS SHALL BE 3M-DBR/Y-6 DIRECT BURY UNLESS OTHERWISE NOTED.
- 14. INSTALL TWO (2) SPARE CONTROL WIRES ALONG THE ENTIRE MAIN LINE. SPARE WIRES SHALL BE THE SAME COLOR (ONE WITH A WHITE STRIPE) AND OF A DIFFERENT COLOR THAN OTHER CONTROL WIRES. LOOP 36" EXCESS WIRE INTO EACH SINGLE VALVE BOX AND INTO ONE VALVE BOX IN EACH GROUP OF VALVES.
- 15. VALVE LOCATIONS SHOWN ARE DIAGRAMMATIC. INSTALL IN GROUND COVER/SHRUB AREAS WHERE POSSIBLE.
- 16. INSTALL VALVE BOXES MINIMUM 12" FROM AND PERPENDICULAR TO WALK, CURB, BUILDING OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, EACH BOX SHALL BE AN EQUAL DISTANCE FROM THE WALK, CURB, ETC. AND EACH BOX SHALL BE MINIMUM 12" APART. SHORT SIDE OF VALVE BOXES SHALL BE PARALLEL TO WALK, CURB, ETC.
- 17. THOROUGHLY FLUSH MAIN LINE BEFORE INSTALLING VALVES.
- 18. ALL MAIN LINES SHALL BE FLUSHED PRIOR TO THE INSTALLATION OF IRRIGATION HEADS, BUBBLERS AND DRIP TUBING. AT 30 DAYS AFTER INSTALLATION EACH SYSTEM SHALL BE FLUSHED TO ELIMINATE GLUE AND DIRT PARTICLES FROM THE LINES.
- 19. LOCATE BUBBLERS ON UPHILL SIDE OF TREES. TREE BUBBLERS ARE FOR ESTABLISHMENT AND DROUGHT CONDITIONS. THEY ARE TO BE TURNED OFF AFTER TREES ARE ESTABLISHED AND TURNED ON DURING DROUGHT CONDITIONS.
- 20. IN ADDITION TO THE SLEEVES AND CONDUITS SHOWN ON THE DRAWINGS, THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF SLEEVES AND CONDUITS OF SUFFICIENT SIZE UNDER ALL PAVED AREAS.
- 21. ALL EXCAVATIONS ARE TO BE FILLED WITH COMPACTED BACKFILL. BACKFILL MATERIAL SHALL BE THE EARTH EXCAVATED FROM THE TRENCH AND FREE OF ROCKS AND OTHER FOREIGN COURSE MATERIAL. COMPACT BACKFULL TO A MINIMUM OF 90 PERCENT OF ORIGINAL SOIL DENSITY. REPAIR ALL SETTLED TRENCHES PROMPTLY, FOR A PERIOD OF 1 YEAR AFTER COMPLETION OF WORK.
- 22. CONTRACTOR SHALL WARRANT THAT THE IRRIGATION SYSTEM WILL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF 1 YEAR AFTER FINAL ACCEPTANCE OF WORK.
- 23. ALL CONSTANT PRESSURE PIPES SHALL BE TESTED AT A MINIMUM OF 125 PSI FOR TWO HOURS. CENTER LOAD PIPING WITH A SMALL AMOUNT OF BACKFILL TO PREVENT ARCHING OR SLIPPING UNDER PRESSURE. NO FITTINGS SHALL BE COVERED. REPAIR FAULTY JOINTS WITH NEW MATERIALS. DO NOT USE CEMENT OR CAULKING TO REPAIR LEAKS.
- 24. WHERE IT IS NECESSARY TO EXCAVATE ADJACENT TO EXISTING TREES, USE ALL POSSIBLE CARE TO AVOID INJURY TO TREES, AND TREE ROOTS. EXCAVATION IN AREAS WHERE 2 INCH AND LARGER ROOTS OCCUR SHALL BE DONE BY HAND. ROOTS 2 INCHES AND LARGER IN DIAMETER SHALL BE WRAPPED IN A PLASTIC BAG AND SECURED WITH A RUBBER BAND. TRENCHES ADJACENT TO TREE SHOULD BE CLOSED WITHIN 24 HOURS; WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE SHALL BE KEPT SHADED WITH BURLAP OR CANVAS.
- 25. THE SPRINKLER SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE SHOWN ON THE IRRIGATION DRAWINGS. VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE
- 26. NOTIFY UNDERGROUND SERVICE ALERT AT 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.
- 27. AT LEAST 10 DAYS PRIOR TO COMPLETION OF CONSTRUCTION, PROVIDE THE OWNER WITH A MAINTENANCE MANUAL. DATA SHALL BE ON 8 1/2" X 11" SHEETS, IN A 3-RING BINDER AND SHALL INCLUDE:
- INDEX SHEET WITH CONTRACTOR'S CONTACT INFORMATION AND LIST OF EQUIPMENT WITH LOCAL MANUFACTURER'S REPRESENTATIVES.

 CATALOG AND PARTS SHEET OF ALL MATERIAL AND FOLUMENT.
- CATALOG AND PARTS SHEET OF ALL MATERIAL AND EQUIPMENT.
 COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS FOR ALL EQUIPMENT.
- COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS FOR A
 COMPLETE AND DATED MANUFACTURER'S WARRANTIES.

DRIPLINE NOTES

- 1. PLANS ARE DIAGRAMMATIC. INSTALL DRIPLINE AND COMPONENTS PER MANUFACTURERS INSTRUCTIONS AND INSTALLATION DETAILS.
- 2. INSTALL DRIPLINE A MAXIMUM OF 24" APART WITH EMITTERS TRIANGULARLY SPACED. INSTALL 2" FROM PERIMETER OF PLANTED AREA. THERE SHOULD BE A MINIMUM OF TWO DRIPLINE LATERALS IN EACH PLANTED AREA. DRIPLINE SHALL BE INSTALLED AT A CONSISTANT DEPTH THROUGHOUT THE CIRCUIT.
- 3. PLACE AIR/VACUUM RELIEF VALVES AT THE HIGHEST POINTS OF EACH ZONE AND JUST BELOW CHECK VALVES ON SLOPES. INSTALL ONE AIR/VACUUM RELIEF VALVE FOR EVERY 1125' OF TOTAL DRIPLINE PER ZONE.
- 4. PLACE FLUSH VALVES AT THE HYDRAULIC CENTER OF THE EXHAUST HEADER OR AT LOW POINT ON SLOPES.
- 5. INSTALL IN-LINE CHECK VALVES ON SLOPES GREATER THAN 3% AND WHERE LOW-LINE DRAINAGE COULD CAUSE WET AREAS IN THE LOWEST AREAS OF AN IRRIGATION ZONE. CHECK VALVES SHALL BE PLACED EVERY 4-5 FEET BETWEEN DRIPLINE LATERALS AND BEFORE THE FLUSH VALVE.
- 6. ON ALL SLOPES AND MOUNDS, PLACE THE DRIPLINE LATERALS PARALLEL TO THE SLOPE CONTOUR WHERE POSSIBLE. INCREASE THE LATERAL SPACING BY 25% ON THE LOWER ONE-THIRD OF THE SLOPE TO AVOID EXCESS DRAINAGE.
- 7. PVC SUPPLY AND FLUSH LINE SIZING GUIDE (ALL SUPPLY AND FLUSH LINES SHALL BE THE SAME SIZE FOR THE ENTIRE ZONE):
- 0-6 GPM 3/4"
 6.1-15 GPM 1"
- 8. FITTINGS SHALL BE OF THE SAME MANUFACTURER AS DRIPLINE.
- 9. STAPLE DRIPLINE TO GROUND EVERY 2 FEET. USE ADDITIONAL STAPLES OVER EACH TEE, ELBOW OR CROSS. USE U-SHAPED STAPLES TO AVOID PINCHING THE DRIPLINE.
- 10. THOROUGHLY FLUSH EACH INSTALLATION SEGMENT TO ENSURE NO DEBRIS CONTAMINATION OCCURS.
- 11. RUN THE DRIPLINE SYSTEM EVERY DAY OR EVERY OTHER DAY TO ESTABLISH PLANT MATERIAL. MAINTAIN A CONSISTENT MOISTURE BALANCE IN THE SOIL. IT IS IMPORTANT TO KEEP THE SOIL MOIST WITHOUT SATURATION.

ADDITIONAL DRIPLINE NOTES

1. ALL SUBSURFACE DRIP AREAS ARE DESIGNED TO BE 12" ROW SPACING WITH 12" EMITTER SPACING EXCEPT AS FOLLOWS:

NONE

IRRIGATION LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER	PRODUCT	MODEL NUMBER	NOTES
M	POINT OF CONNECTION	ASSURED AUTOMATION	1-1/2" SUB-METER	WM150	PER MANUFACTURER'S RECOMMENDATIONS
	BACKFLOW PREVENTOR	FEBCO	1-1/2" BACKFLOW PREVENTOR W/ PRESSURE REGULATOR, IN ENCLOSURE	825Y	PER MANUFACTURER'S RECOMMENDATIONS, SEE DETAIL 1/L3.02
(c)	CONTROLLER	HUNTER	PRO-HC W/ RAIN CLIK AND HC-150-FLOW SENSOR	PHC-1200	12 STATION HYDRAWISE COMPATIBLE CONTROLLER, SEE DETAIL 9/L3.02
ws	WEATHER SENSOR	HUNTER	SOLAR-SYNC ETO-RAIN-FREEZE SENSOR	WSS-SEN	WIRELESS SENSOR, LOCATE NO MORE THAN 800' FROM CONTROLLER
F	FLOW SENSOR	HUNTER	1-1/2" FLOW-SYNC SENSOR	HC-150-FLOW	PER MANUFACTURER'S RECOMMENDATIONS, SEE DETAIL 2/L3.02
M	MASTER VALVE	HUNTER	1-1/2" REMOTE CONTROL VALVE WITH FILTER SCREEN, NORMALLY CLOSED	ICV-151G-FS	PER MANUFACTURER'S RECOMMENDATIONS, SEE DETAIL 3/L3.02
	BRASS SHUT-OFF VALVE	NIBCO	LINE-SIZE BRASS GATE VALVE	TI-8	PER MANUFACTURER'S RECOMMENDATIONS, SEE DETAIL 5/L3.02
•+	HOSE SPIGOT	LASCO	3/4" INVERTED GARDEN VALVE	MODEL 06-1342	PER MANUFACTURER'S RECOMMENDATIONS, SEE DETAIL 4/L3.02
	MAIN LINE	-	PVC SCH 40 W/ SOLVENT WELD FITTINGS	-	SIZE: 1-1/2", SEE DETAIL 8/L3.02
	- LATERAL LINE	-	PVC CLASS 200 W/SOLVENT WELD FITTINGS	-	SIZE: 0 - 6 GPM = 3/4", 7 - 18 GPM = 1", SEE DETAIL 8/L3.02
•	REMOTE CONTROL VALVE	HUNTER	DRIP ZONE CONTROL KITS	PCZ-101-LF-40	USE DRIP ZONE KITS AT ALL SUBSURFACE DRIP, BUBBLERS, AND EMITTERS. SEE DETAIL 6/L3.02
	REMOTE CONTROL VALVE	HUNTER	GLOBE VALVES	ICV-101G	ICV TO BE USED AT POP-UP SPRAYS, SEE DETAIL 7/L3.02
	SUBSURFACE DRIP ZONE	HUNTER	0.4 GPM DRIP LINE W/ CHECK VALVES	HDL-04-18-CV	12" ROW AND 12" EMITTER SPACING UNLESS OTHERWISE NOTED, SEE DETAILS 1-4/L3.03
	TREE BUBBLERS	HUNTER	18" ROOT ZONE WATERING SYSTEM	RZWS-18-25-CV	0.25 GPM BUBBLER, SEE DETAIL 5/L3.02
	SHRUB EMITTERS	HUNTER	0.50 GPH EMITTERS W/BARBED END	HE-050-B	PLACE TWO (2) PER 15 GAL. SHRUBS, SEE DETAIL 7/L3.03
—	FULL CIRCLE ROTATOR	HUNTER	MP ROTATOR NOZZLE ON 12" POP-UP	MP1000-360 OR MP2000-360	PER MANUFACTURER'S RECOMMENDATIONS, SEE DETAIL 6/L3.03
D	ADJUSTABLE ROTATOR	HUNTER	MP ROTATOR NOZZLE ON 12" PO-UP	MP1000-90 OR MP2000-90	V.I.F., USE MP-800 SERIES WHERE NECESSARY, SEE DETAIL 6/L3.03
	CTATION NUMBER		1	1	

24 Tehema, Carmel CA 93923

1 0.22 PRECIPITATION RATE

- VALVE SIZE

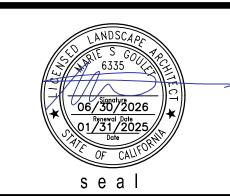
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	NE TABLE COMPLE		S			
Valve Number	Irrigation Method	Plant type (High, Med, Low)	GPM	Precipitation Rate (in/hr)	Area (sq.ft.)	% of Landscape
1	Emitters	Low	3.32	0.25	1288	14.0%
2	Emitters	Low	3.90	0.26	1466	16.0%
3	Emitters	Low	3.02	0.23	1274	13.9%
4	Sub-surface Drip	Low	5.19	0.52	790	8.6%
5	Sub-surface Drip	Low	7.81	0.52	1173	12.8%
6	Emitters	Low	2.47	0.23	1056	11.5%
7	Emitters	Low	0.73	0.18	400	4.4%
8	Emitters	Low	1.06	0.11	913	9.9%
9	Emitters	Low	1.57	0.20	764	8.3%
10	Bubblers	Low	1.50	2.33	62	0.7%
TEMP.						
11	MP Rotators	Low	11.65	0.41	2702	27.4%
12	MP Rotators	Low	15.36	0.32	4560	46.3%
13	MP Rotators	Low	11.35	0.97	1130	11.5%
14	MP Rotators	Low	10.16	0.67	1465	14.9%

 TOTAL SF (PERM)
 9186
 100%

 TOTAL SF (TEMP)
 9857
 100%





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t e a m

LISA AND BRAD SERWIN

owner

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project

-			
-			
-	3	PERMIT SET	01.31.202
_	2	COORDINATION SET	12.04.202
_	1	STEP 3 REVISION	08.23.202
	no.	description	

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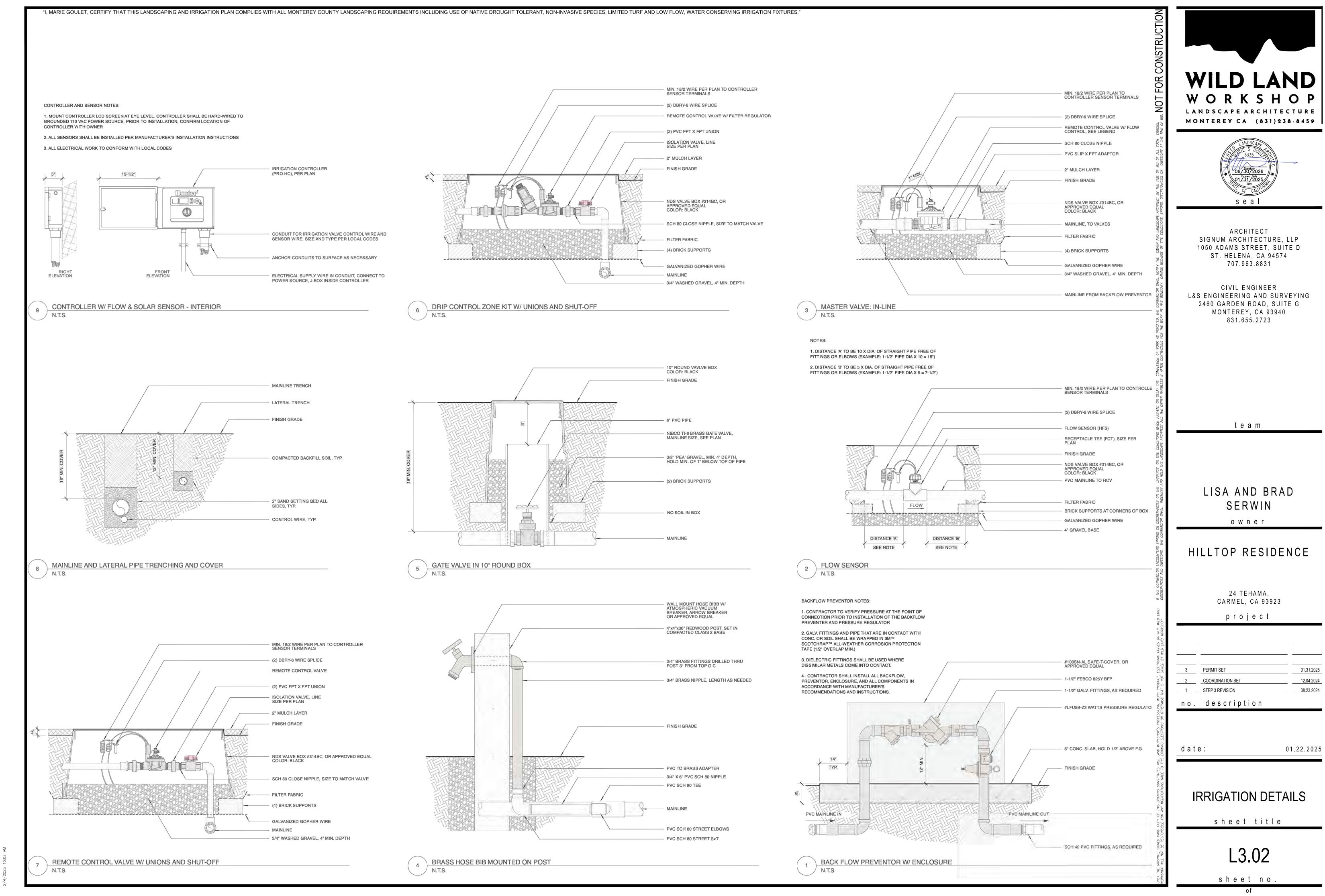
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IRRIGATION LEGEND

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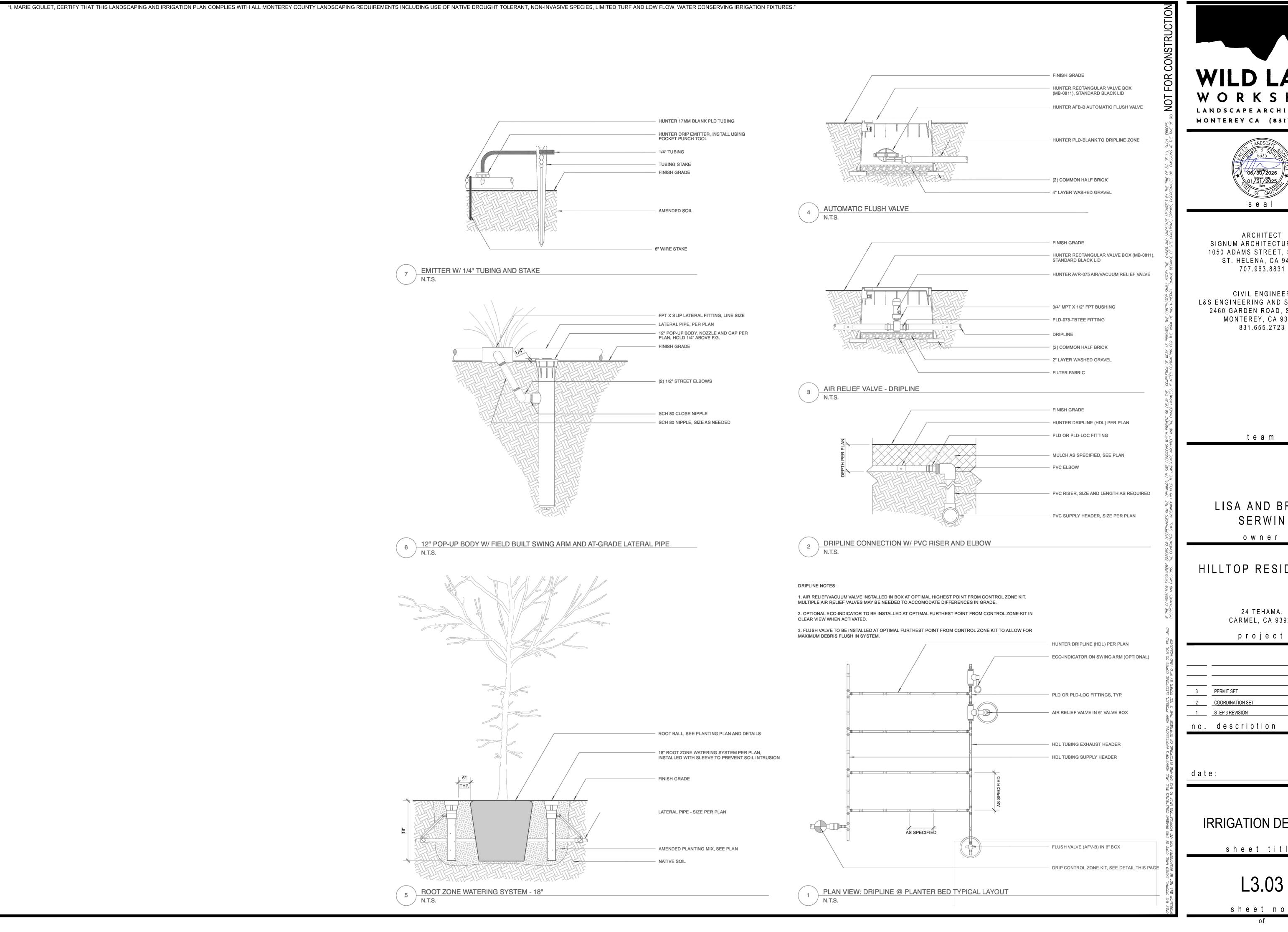
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of



WORKSHOP LANDSCAPEARCHITECTURE MONTEREY CA (831)238-8459

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_	COORDINATION SET	12.04.2024
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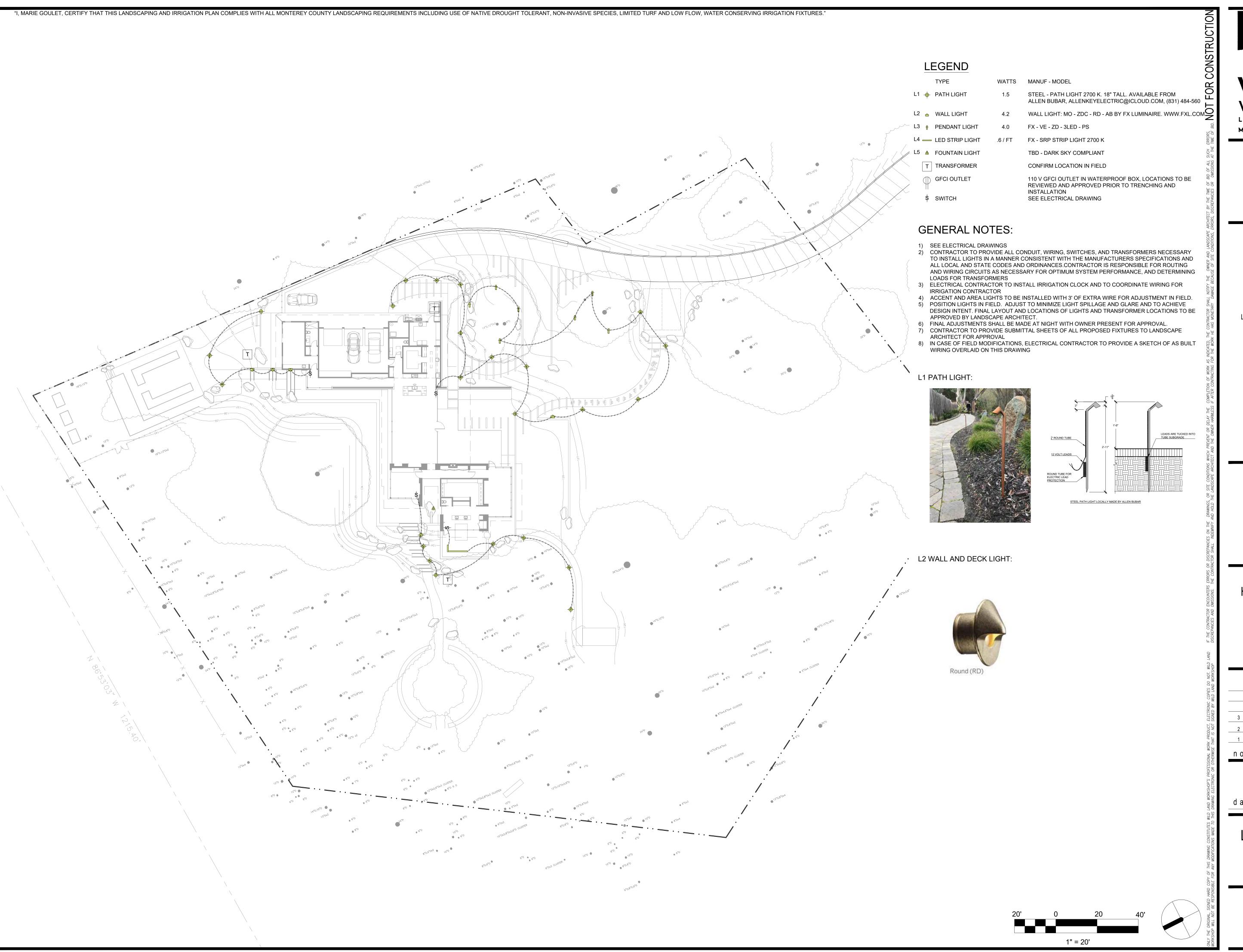
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IRRIGATION DETAILS

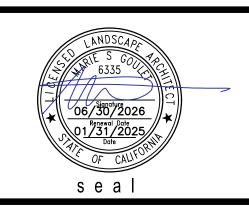
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project

3	PERMIT SET	01.31.2025
2	COORDINATION SET	12.04.2024
1	STEP 3 REVISION	08.23.2024

no. description

date

01.22.2025

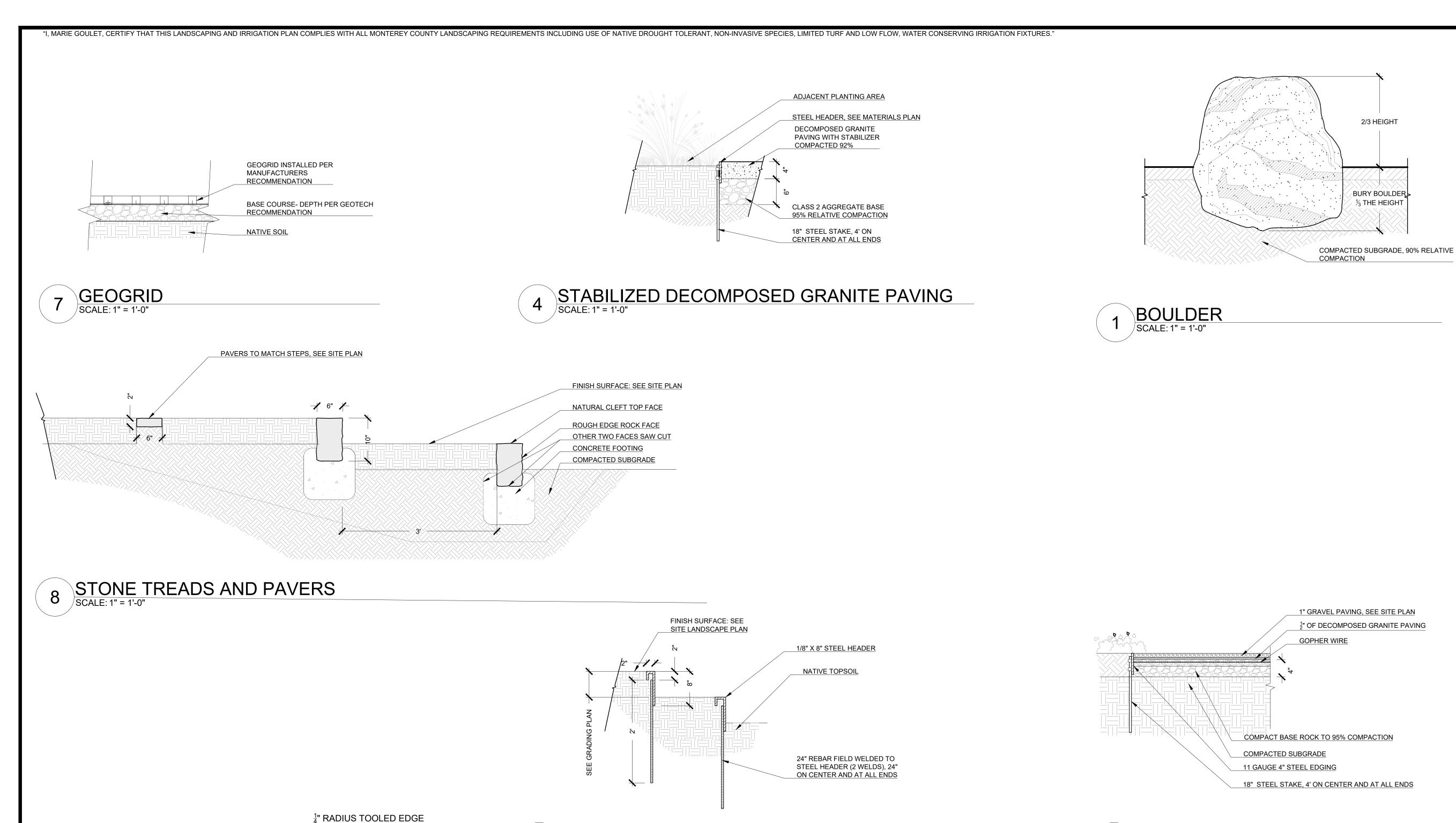
LANDSCAPE LIGHTING PLAN

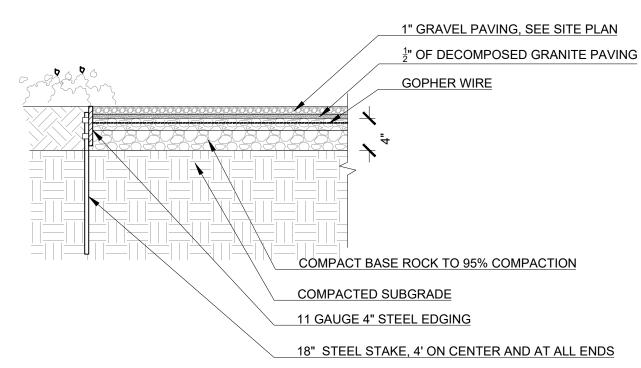
sheet title

L4.00

sheet no.

of

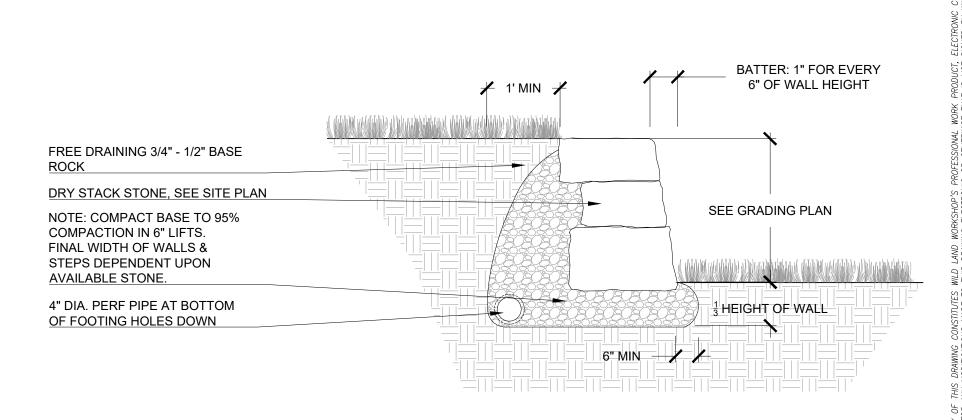




2/3 HEIGHT

BURY BOULDER 1/3 THE HEIGHT

GRAVEL PAVING
SCALE: 1" = 1'-0"



3 DRY STACK STONE WALL
SCALE: 3/4" = 1'-0"





ARCHITECT SIGNUM ARCHITECTURE, LLP 1050 ADAMS STREET, SUITE D ST. HELENA, CA 94574 707.963.8831

CIVIL ENGINEER L&S ENGINEERING AND SURVEYING 2460 GARDEN ROAD, SUITE G MONTEREY, CA 93940 831.655.2723

team

LISA AND BRAD SERWIN

owner

HILLTOP RESIDENCE

24 TEHAMA, CARMEL, CA 93923

project

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DIM			
ВУ			
SIGNED	3	PERMIT SET	01.31.202
IS NOT	2	COUNTY PARTON SET	0 <u>2/</u> 04/202
THAT 18	1	SEEPENRELASION CATION	05/23/202
ERWISE	no.	description	

date:

01.22.2025

CONSTRUCTION DETAILS

sheet title

L5.00

s<u>h</u>eet no.

CONCRETE RETAINING WALL
SCALE: NTS

/ 1'-0" -

/ 1'-0" **/** 1'-0" **/**

3" CLR

1'-0"

#4 REBAR,

VERTICAL

VARIES: 3'

MAX

CONTINUOUS @ 16" O.C

@ CENTER LINE

#4 VERTICALS @ 16" O.C, ALTERNATE HOOK, TYP.

FS: SEE GRADING PLAN

(3) #4 REBAR, CONTINUOUS

NOTE: WALL FINISH TO BE

SAND FINISH, NATURAL

CONTRACTOR TO

PROVIDE EXPANSION

COLOR.

CONCRETE PAVING
SCALE: 1" = 1'-0"

STEEL STEPS

3/16" WIDE BY 1-1/4" DEEP SCORE

6"X6" #10/#10 WELDED WIRE MESH,

EXPANSION JOINT, ALL JOINTS TO

OCCUR AT 20'-0" O.C. MAX., AT

MATERIAL INTERFACES, AND AS

CONCRETE PAVING. SEE LAYOUT PLANS

FOR TYPE. SEE COLOR AND FINISH

AGGREGATE BASE AND SUB-GRADE

COMPACTED TO AT LEAST 95% OR PER

JOINT AT 7'-0" O.C. MAX. OR AS

SHOWN ON DRAWINGS

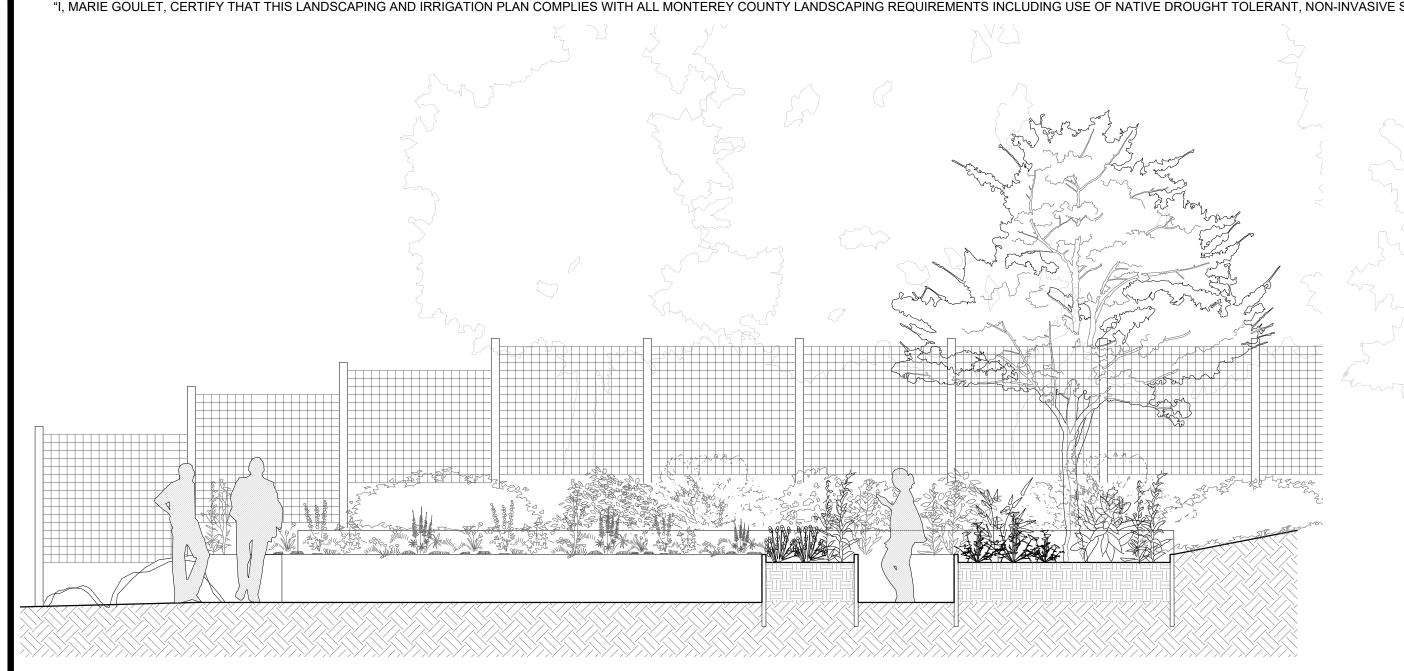
SHOWN ON DRAWINGS

SCHEDULE FOR FINISH.

GEOTECHNICAL REPORT

CENTER IN POUR.

SCALE: 1" = 1'-0"



NORTH/SOUTH SECTION ELEVATION VEGETABLE GARDEN SCALE: 1/4" = 1' 0"



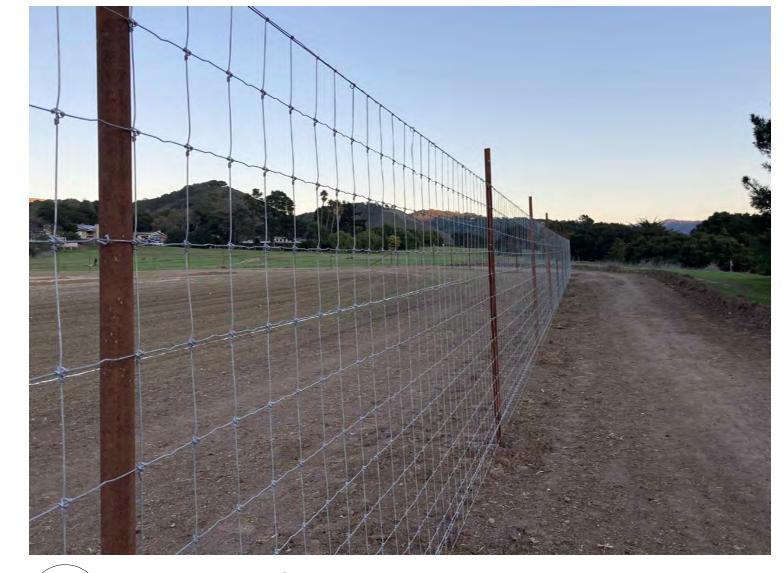




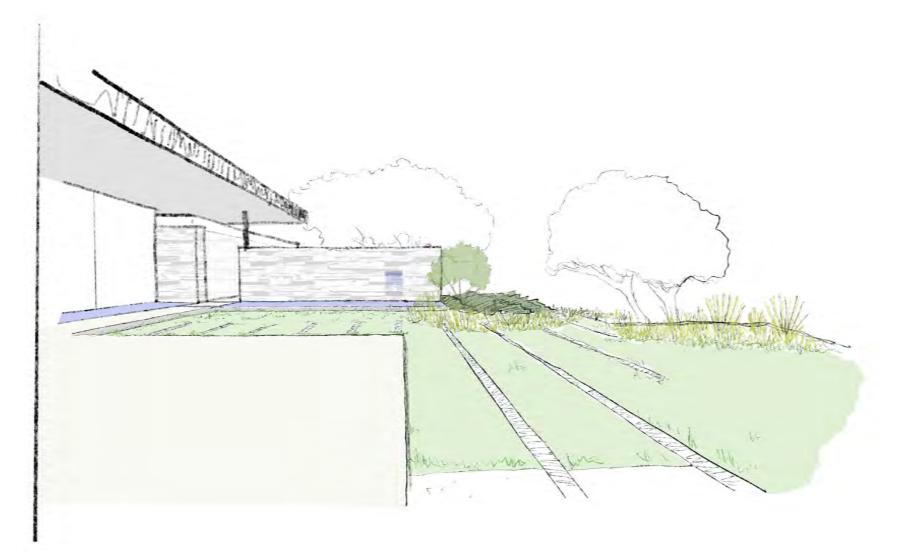


OFFICE WATER FEATURE SKETCH
SCALE: NTS WATER FEATURE WITH SPOUT FLOWING OVER NATURAL BOULDER TO UNDERGROUND WATERPROOF SUMP. PUMP, FILTER AND AUTOFILL INCLUDED IN REMOTE LOCATION.

4 EAST/WEST SECTION ELEVATION VEGETABLE GARDEN SCALE: 1/4" = 1' 0"



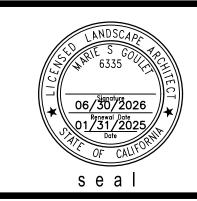
5 DEER FENCE SCALE: NTS



6 REFLECTING POOL SCALE: NTS

2" DEEP RECIRCULATING REFLECTING POOL MADE FROM POWDER COATED STEEL. INCLUDES FILTRATION AND AUTOFILL.





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project

3	PERMIT SET	01.31.2025
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no.	description	

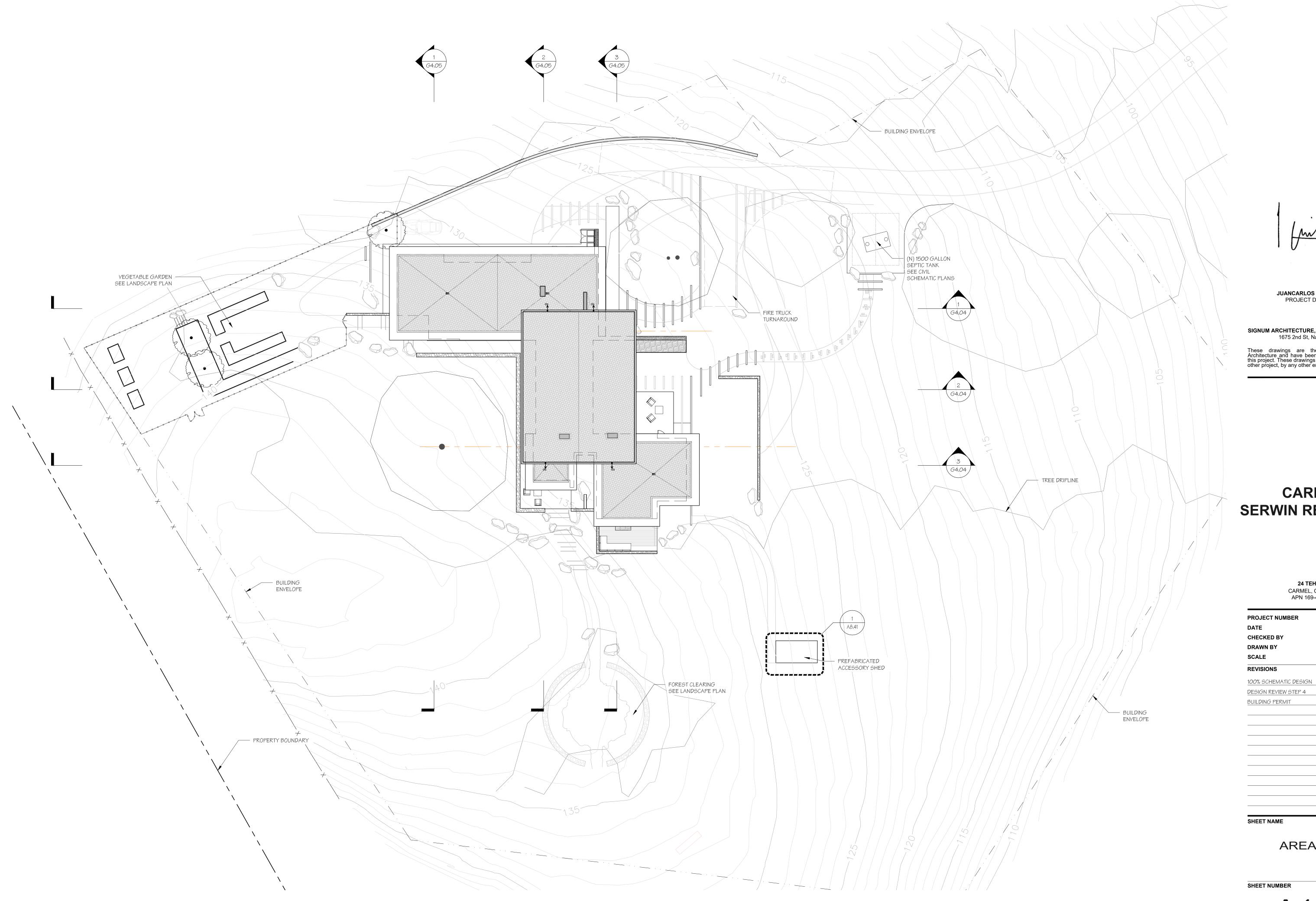
01.22.2025

CONSTRUCTION DETAILS

sheet title

L5.01

s<u>h</u>eet no.



JUANCARLOS FERNANDEZ PROJECT DESIGNER

SIGNUM ARCHITECTURE, LLP 707 963 8831 1675 2nd St, Napa, CA 94559

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CARMEL SERWIN RESIDENCE

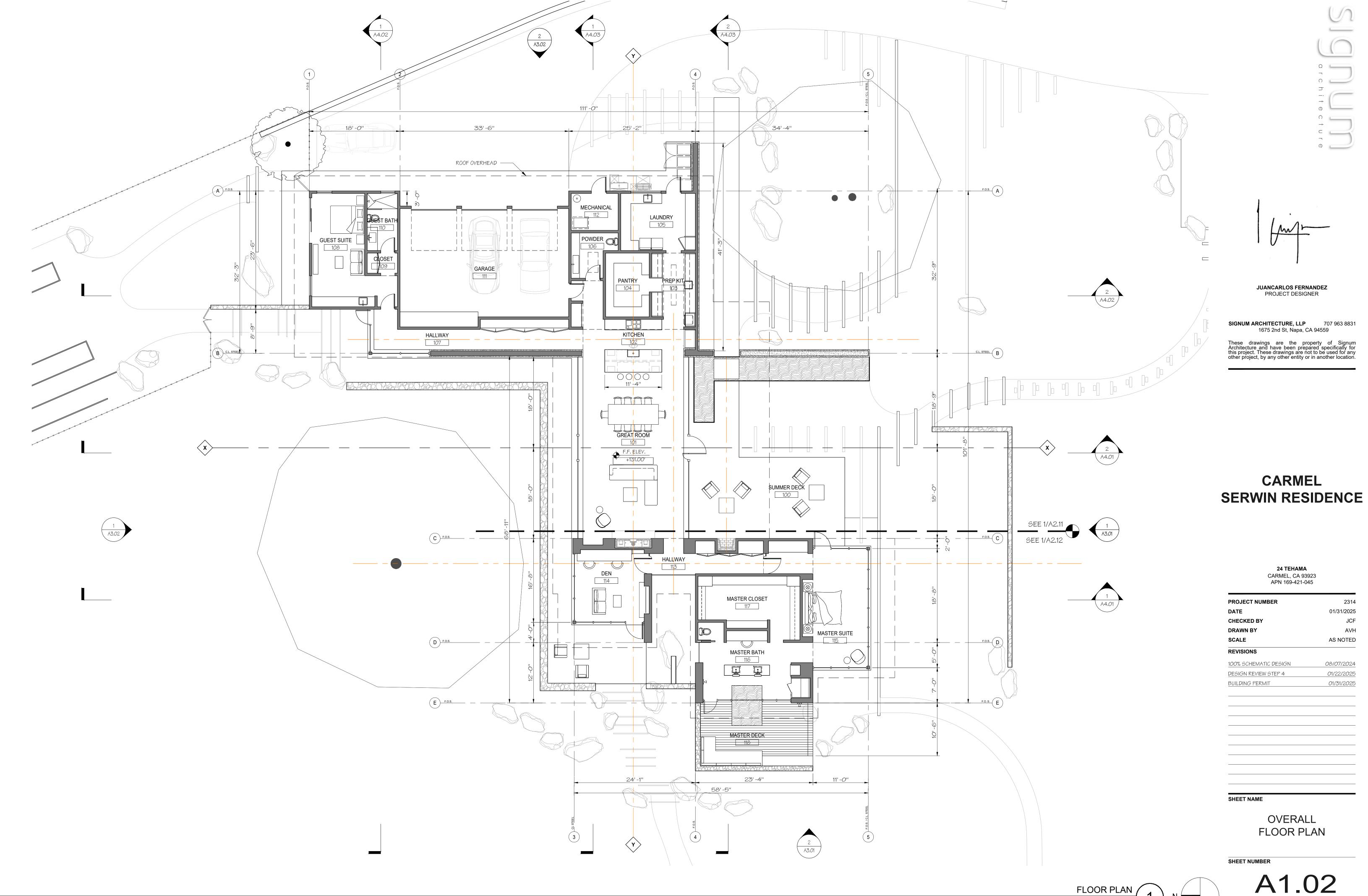
24 TEHAMACARMEL, CA 93923
APN 169-421-045

PROJECT NUMBER	23
DATE	01/31/20
CHECKED BY	J
DRAWN BY	A'
SCALE	AS NOT
REVISIONS	
100% SCHEMATIC DESIGN	08/07/20
DESIGN REVIEW STEP 4	01/22/20
BUILDING PERMIT	01/31/20

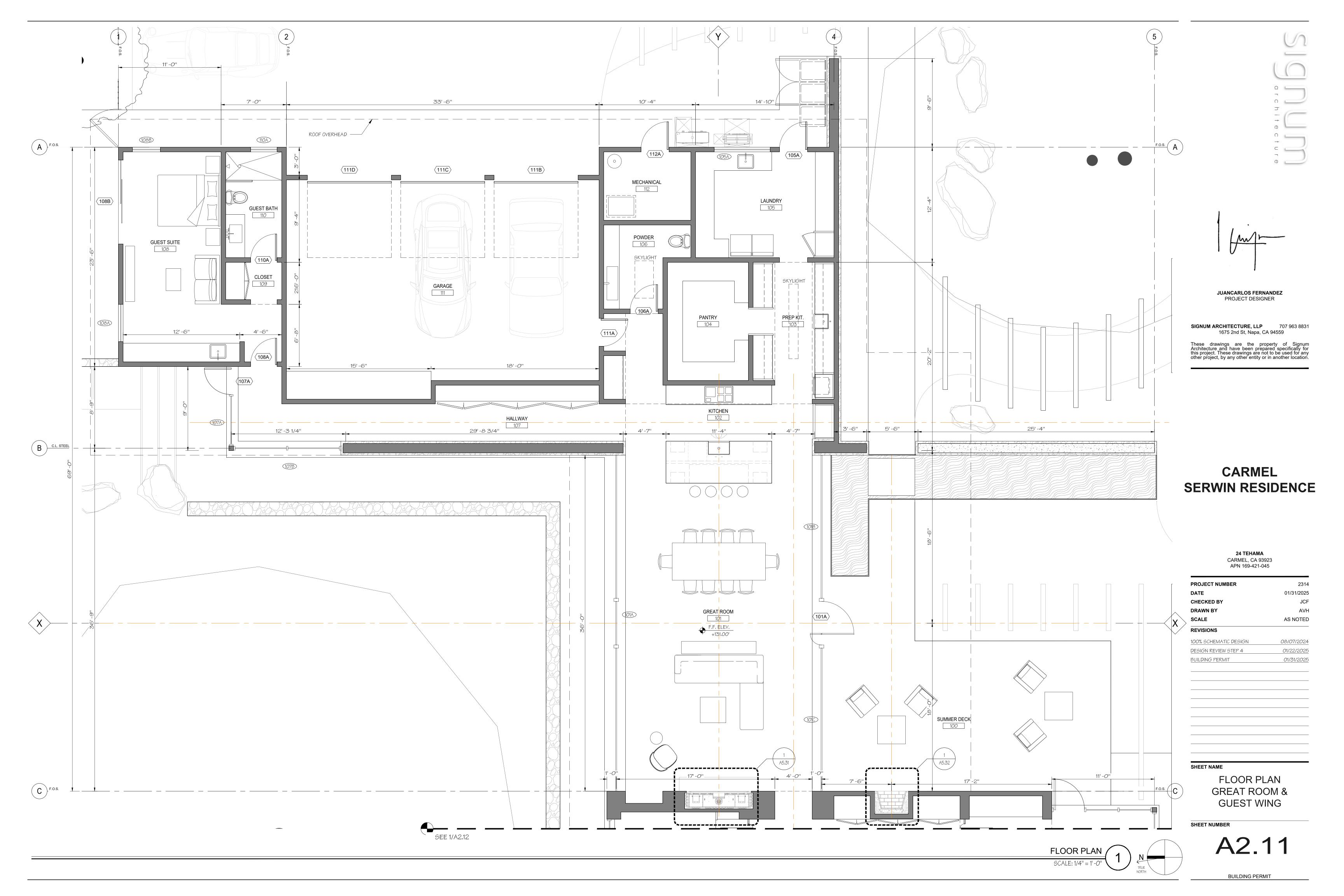
AREA PLAN

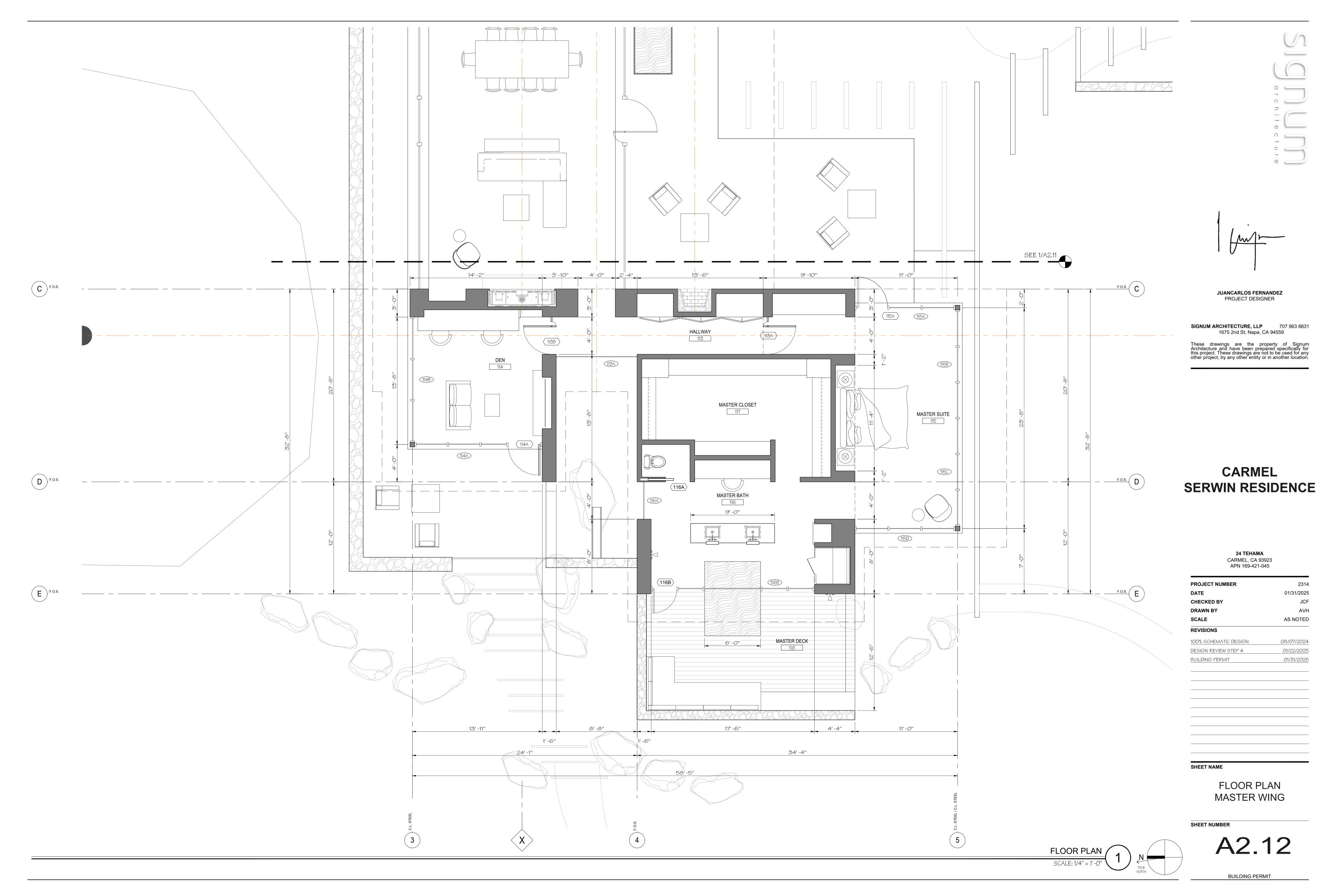


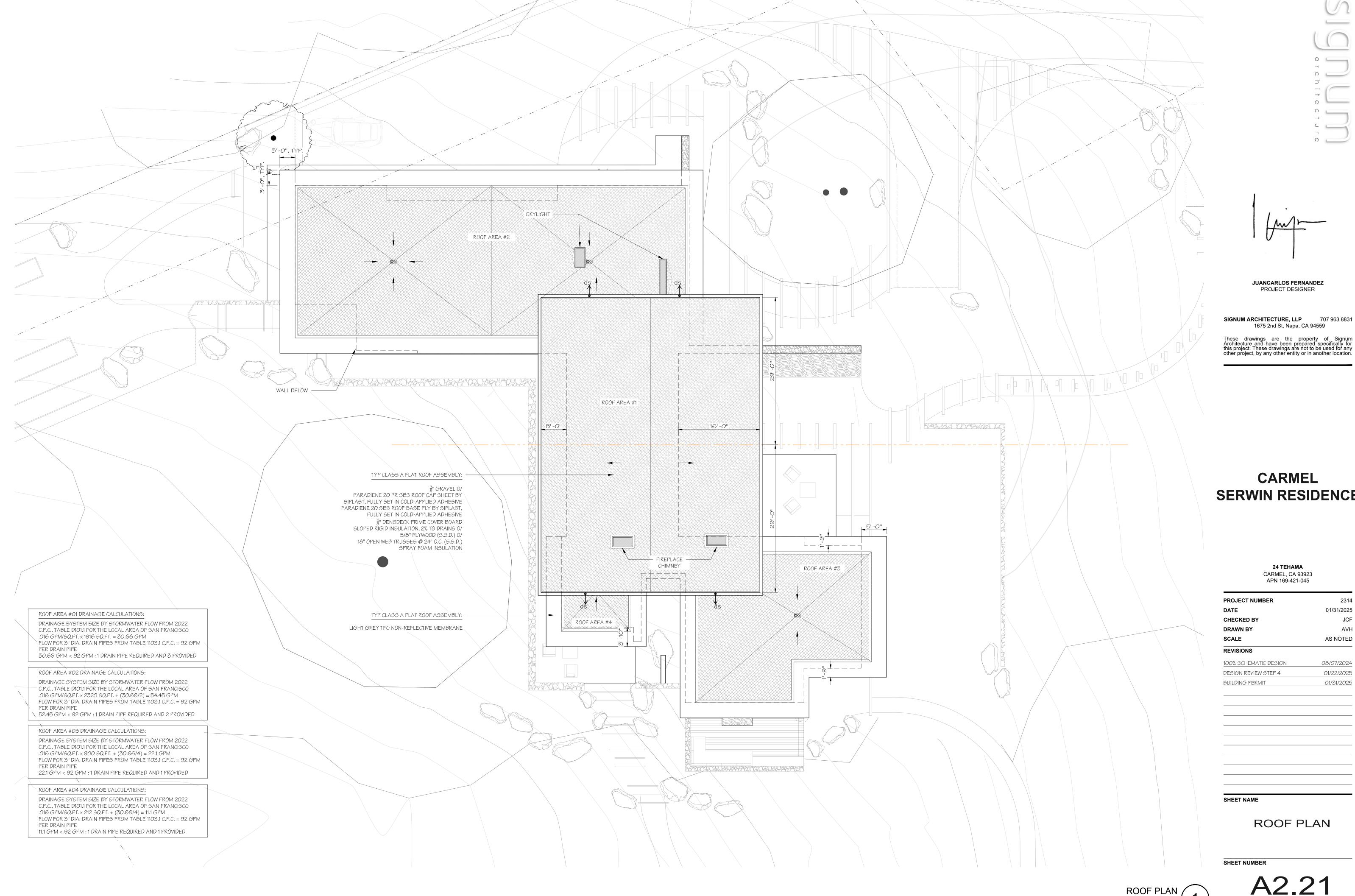
A1.01



A1.02







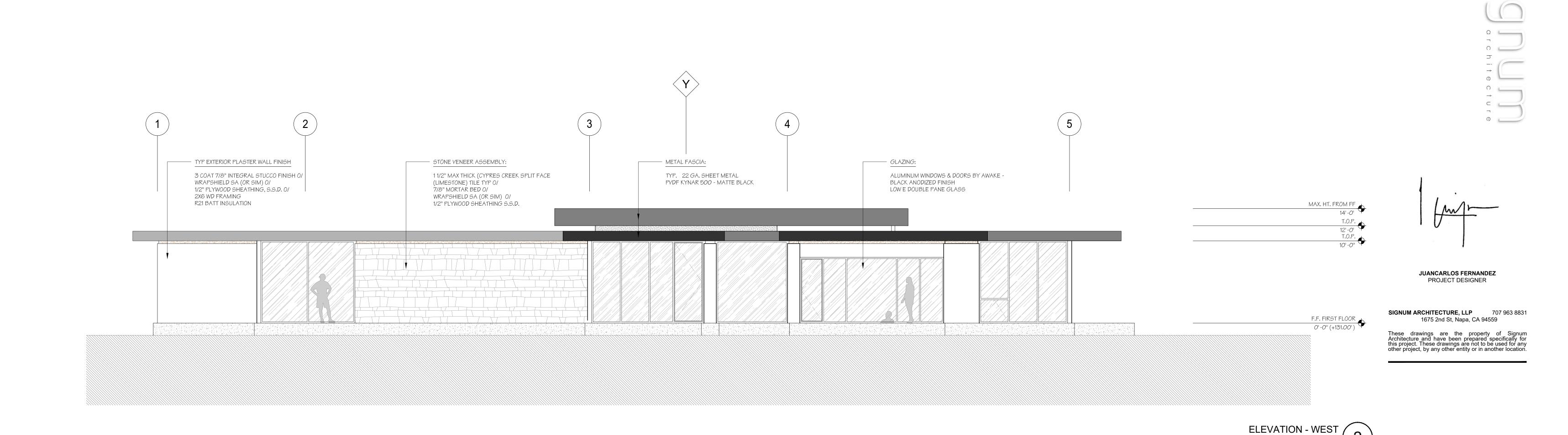
SERWIN RESIDENCE

PROJECT NUMBER	2314
DATE	01/31/2025
CHECKED BY	JCF
DRAWN BY	AVH
SCALE	AS NOTED
REVISIONS	

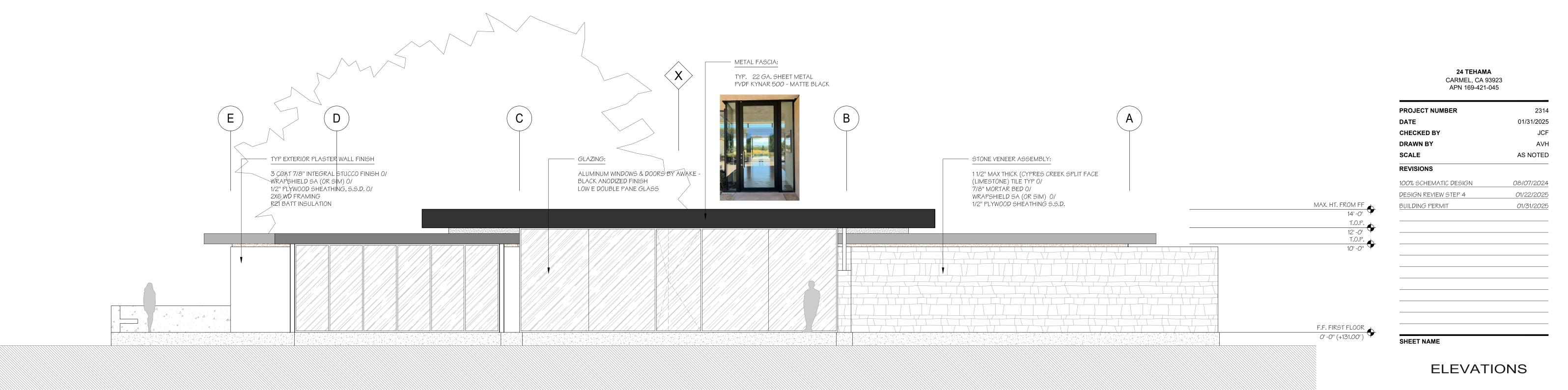
01/22/2025

A2.21

SCALE: 1/8" = 1'-0



CARMEL SERWIN RESIDENCE



ELEVATION - SOUTH

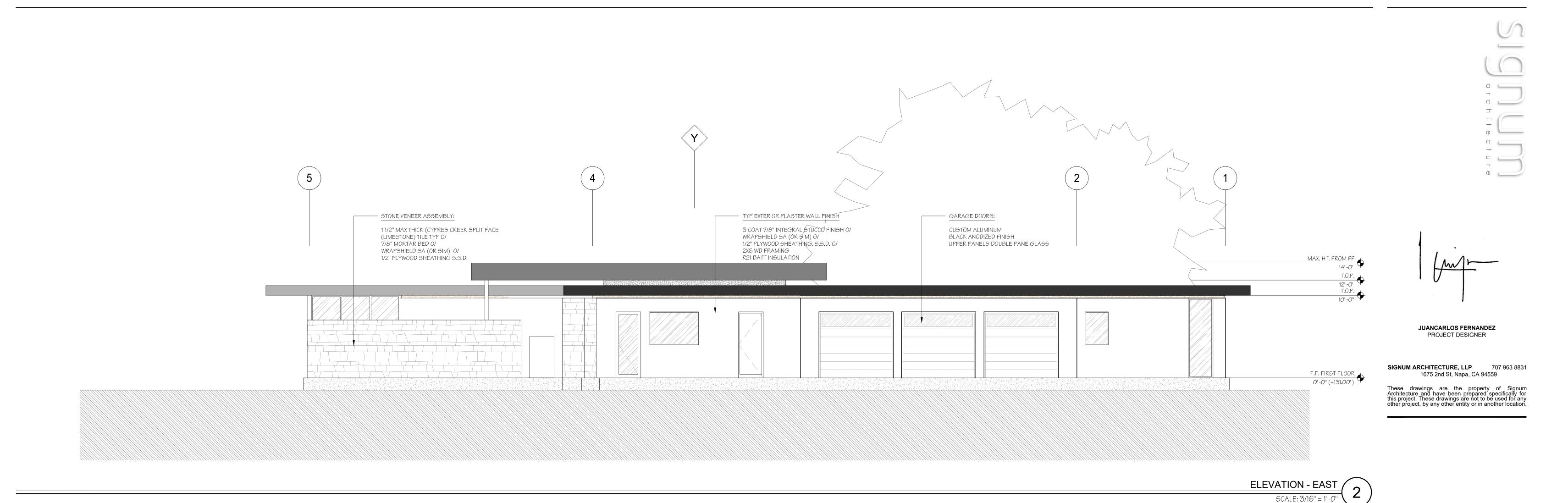
SCALE: 3/16" = 1'-0"

1

SCALE: 3/16" = 1'-0"

A3.01

SHEET NUMBER



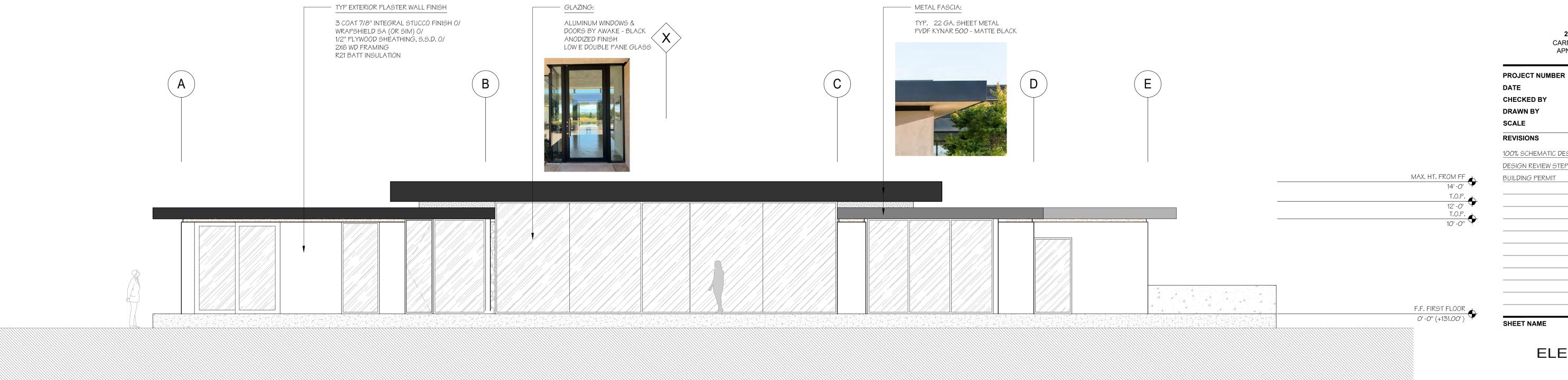
CARMEL SERWIN RESIDENCE

24 TEHAMACARMEL, CA 93923
APN 169-421-045

2314

JCF

01/31/2025



AVH AS NOTED **REVISIONS** 08/07/2024 100% SCHEMATIC DESIGN DESIGN REVIEW STEP 4 01/22/2025

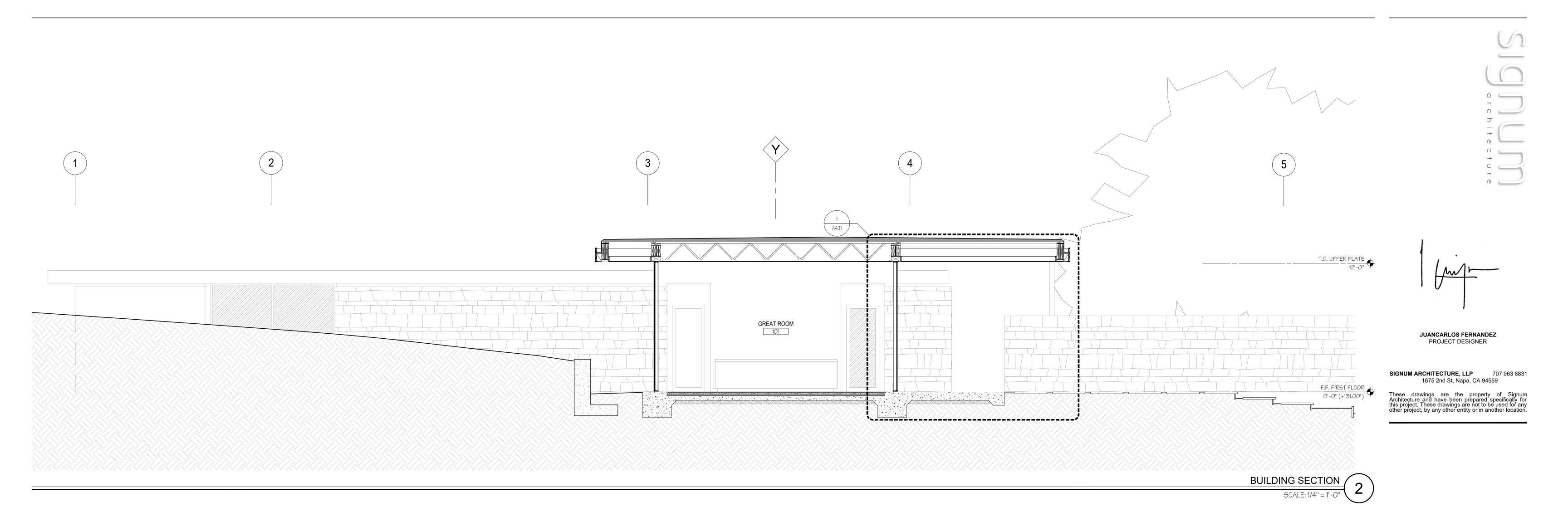
SHEET NAME

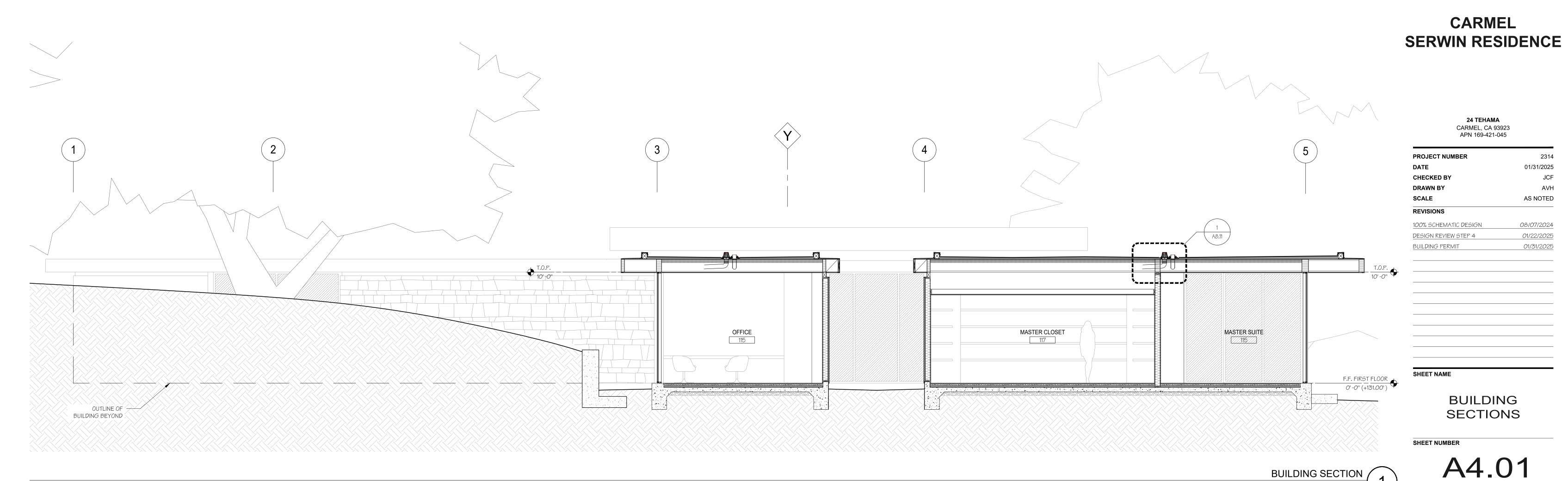
ELEVATIONS

SHEET NUMBER

ELEVATION - NORTH SCALE: 3/16" = 1'-0"

A3.02





2314

AVH

01/31/2025

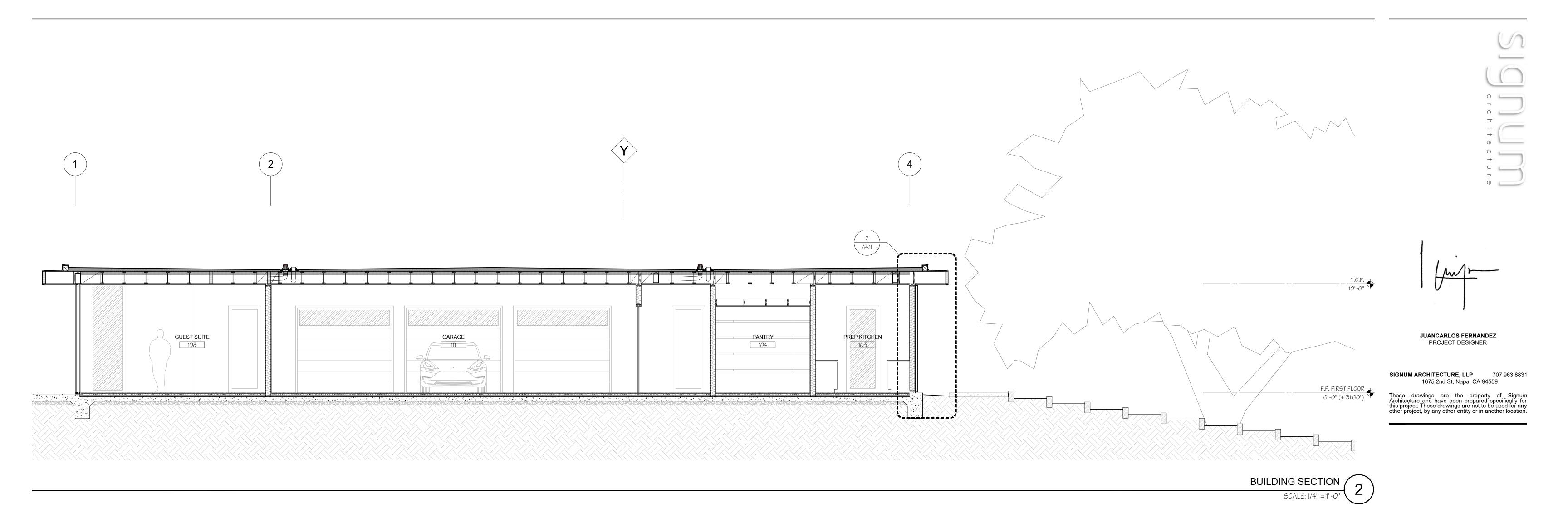
AS NOTED

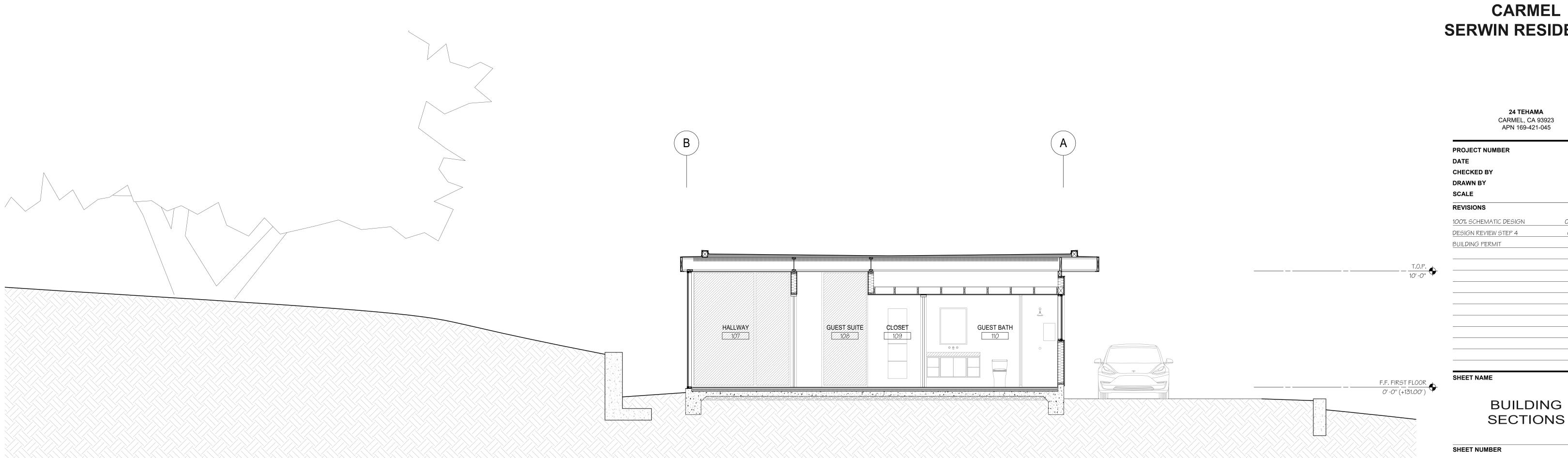
08/07/2024

01/22/2025

BUILDING PERMIT

SCALE: 1/4" = 1'-0"





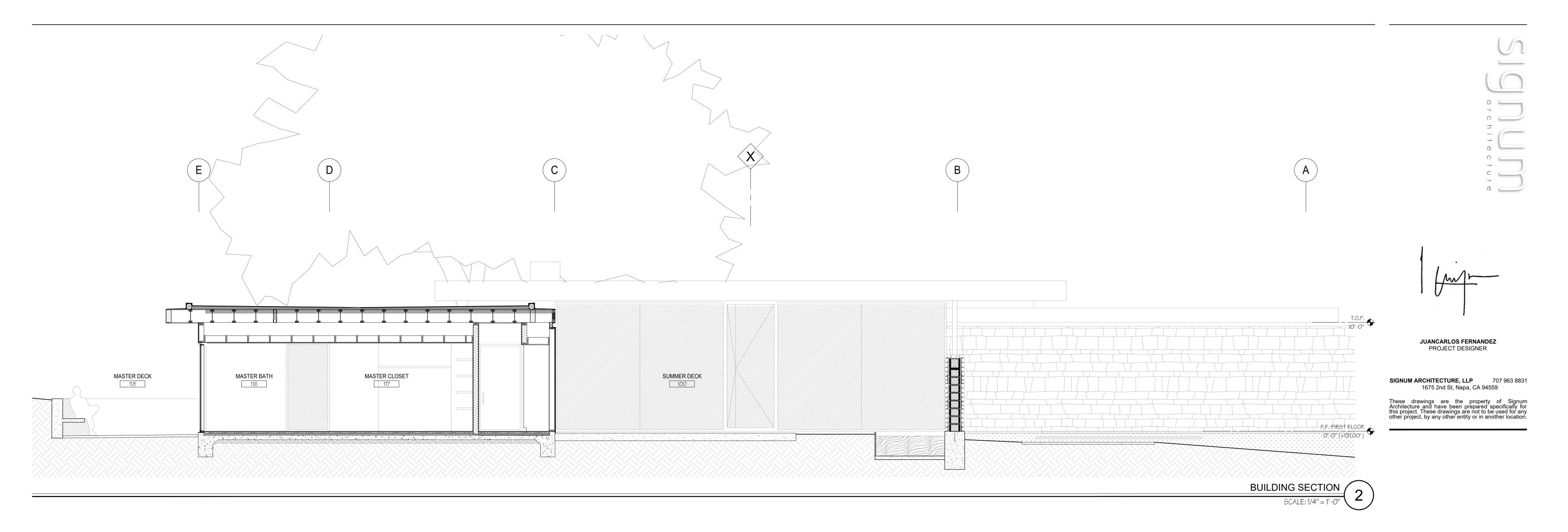
CARMEL SERWIN RESIDENCE

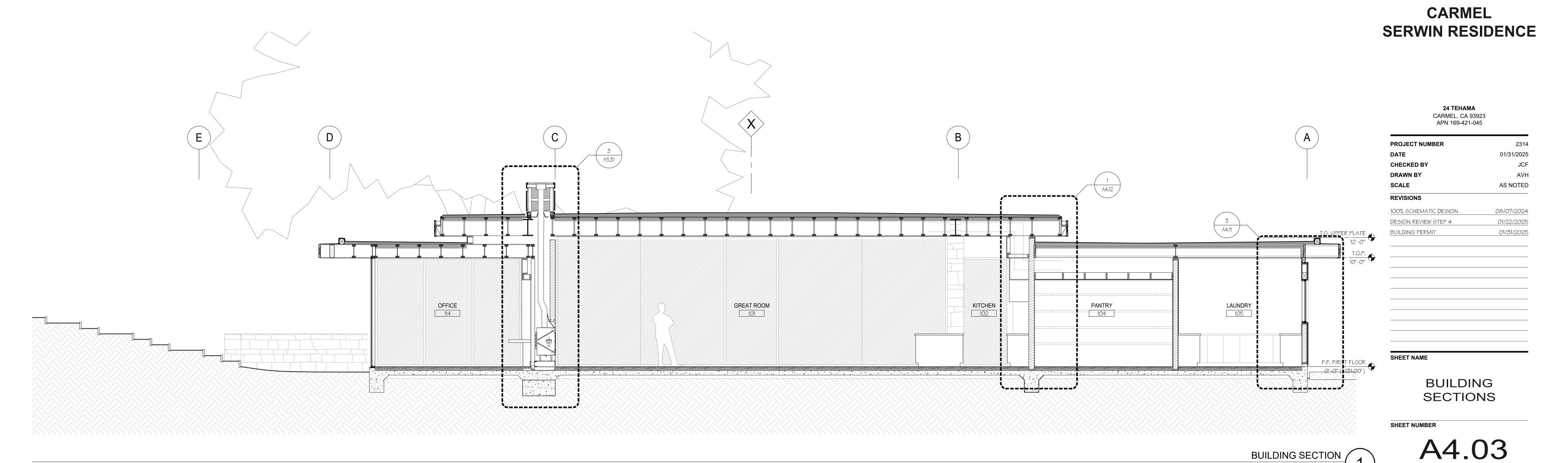
	PROJECT NUMBER	2314
	DATE	01/31/2025
	CHECKED BY	JCF
	DRAWN BY	AVH
	SCALE	AS NOTED
	REVISIONS	
	100% SCHEMATIC DESIGN	08/07/2024
	DESIGN REVIEW STEP 4	01/22/2025
	BUILDING PERMIT	01/31/2025
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	SHEET NAME	
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	BUILDIN	٧G
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A4.02

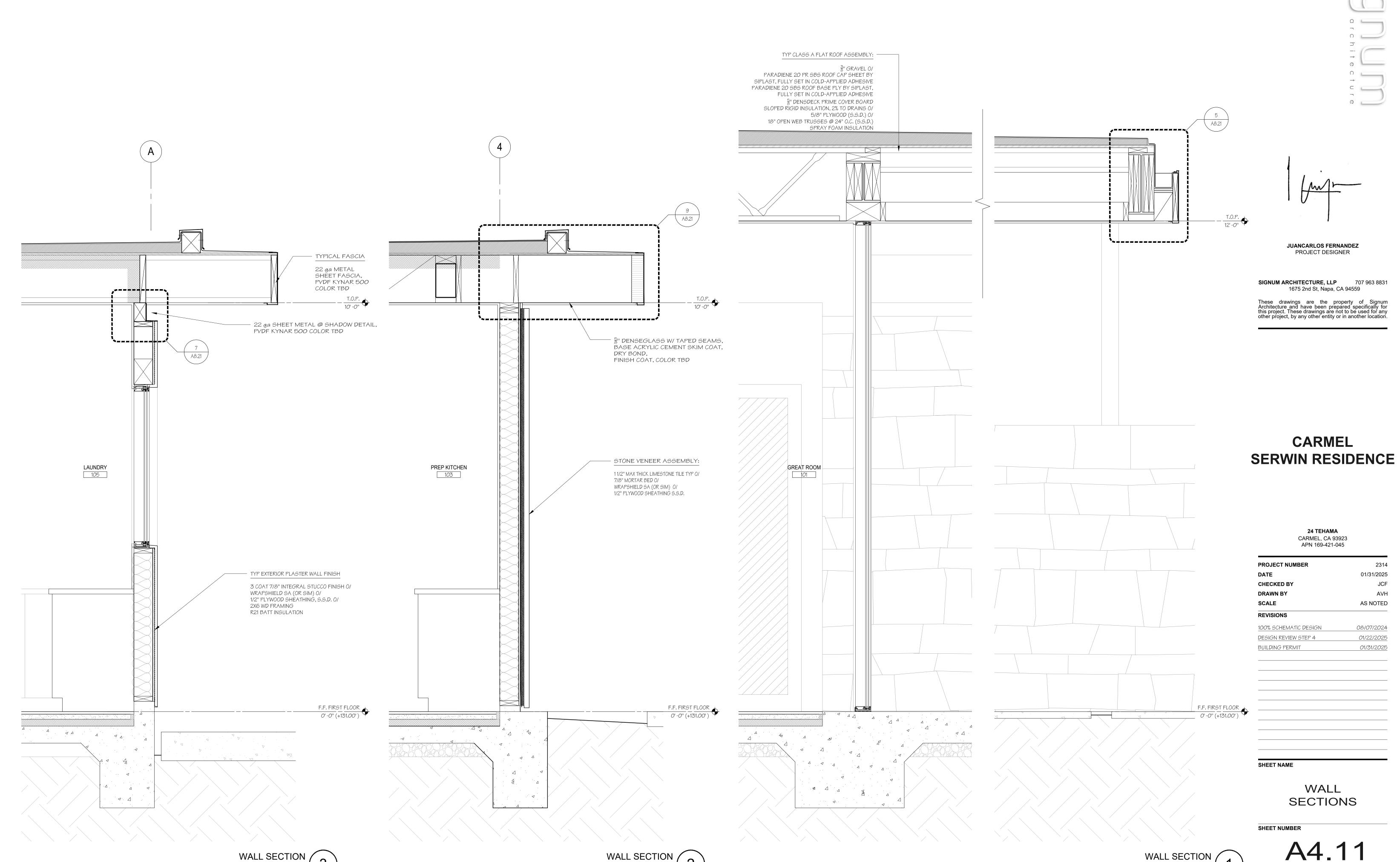
BUILDING SECTION 1

SCALE: 1/4" = 1' -0"





SCALE: 1/4" = 1'-0"



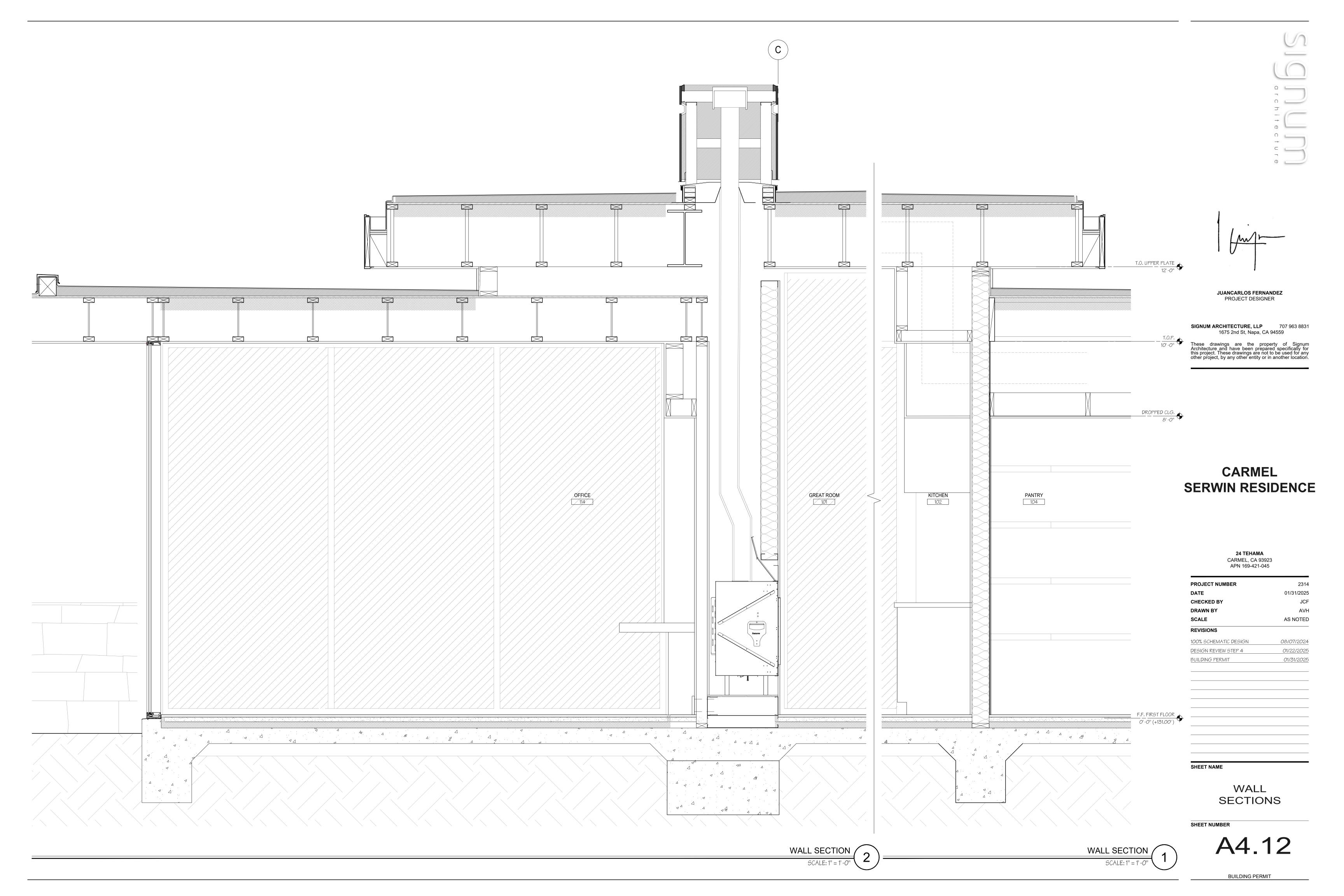
SCALE: 1" = 1'-C

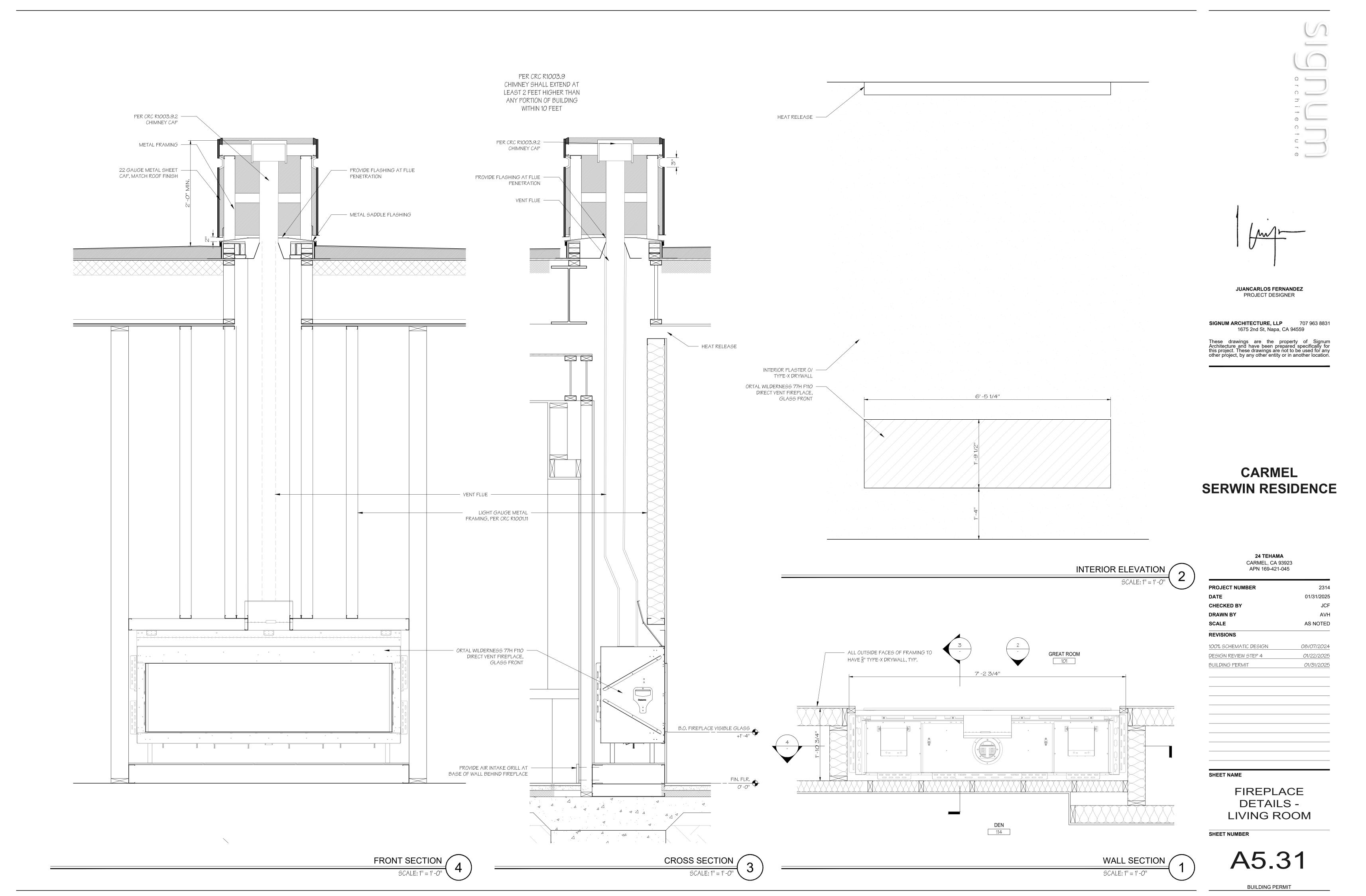
SCALE: 1" = 1' -0'

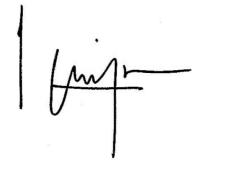
A4.11

BUILDING PERMIT

SCALE: 1'' = 1' - 0'

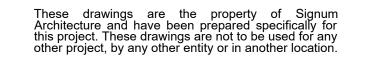






JUANCARLOS FERNANDEZ PROJECT DESIGNER

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CARMEL **SERWIN RESIDENCE**

24 TEHAMACARMEL, CA 93923
APN 169-421-045 INTERIOR ELEVATION /

PROJECT NUMBER 2314 01/31/2025 DATE CHECKED BY AVH AS NOTED REVISIONS

08/07/2024 100% SCHEMATIC DESIGN DESIGN REVIEW STEP 4 01/22/2025

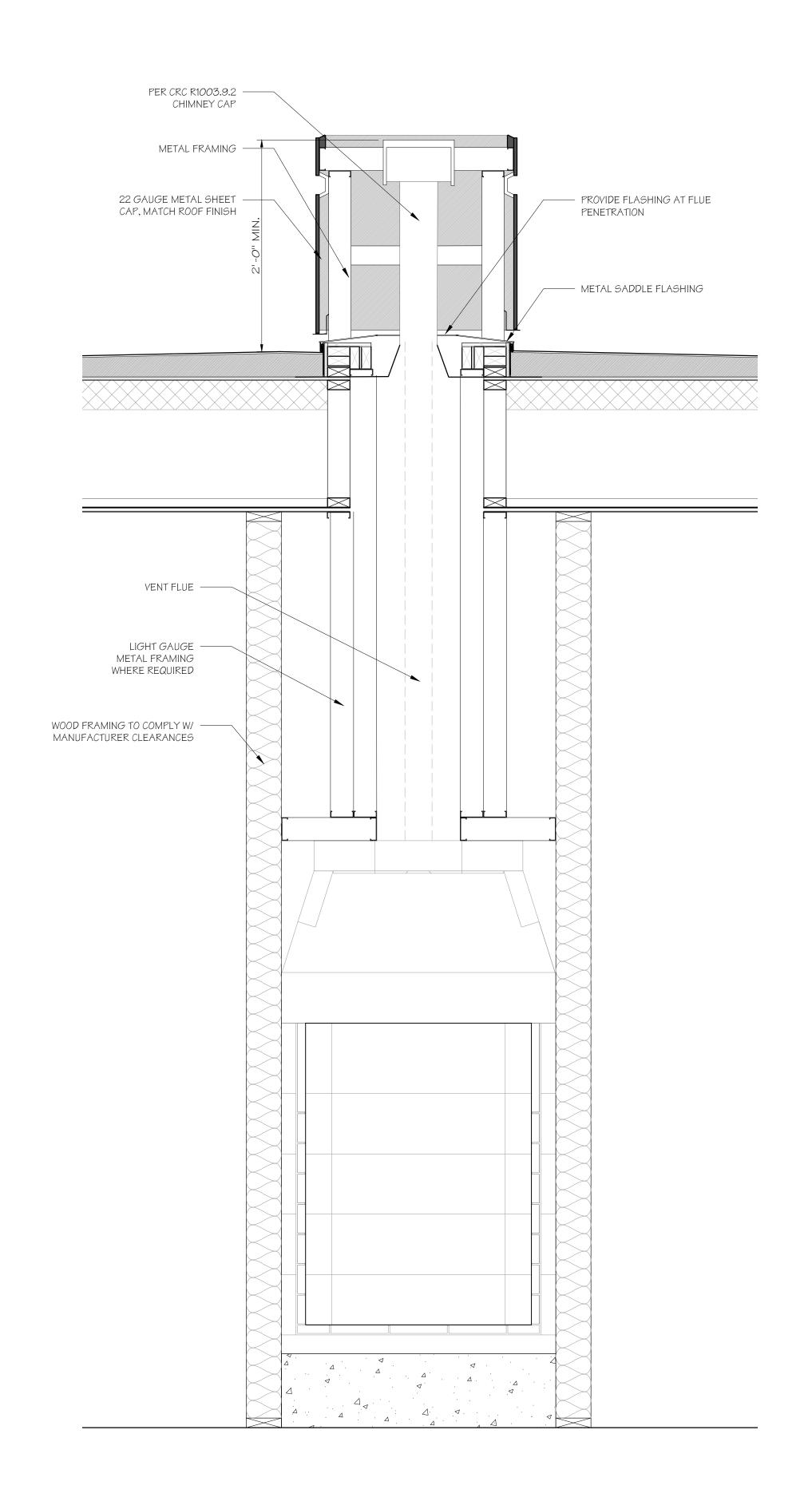
SHEET NAME

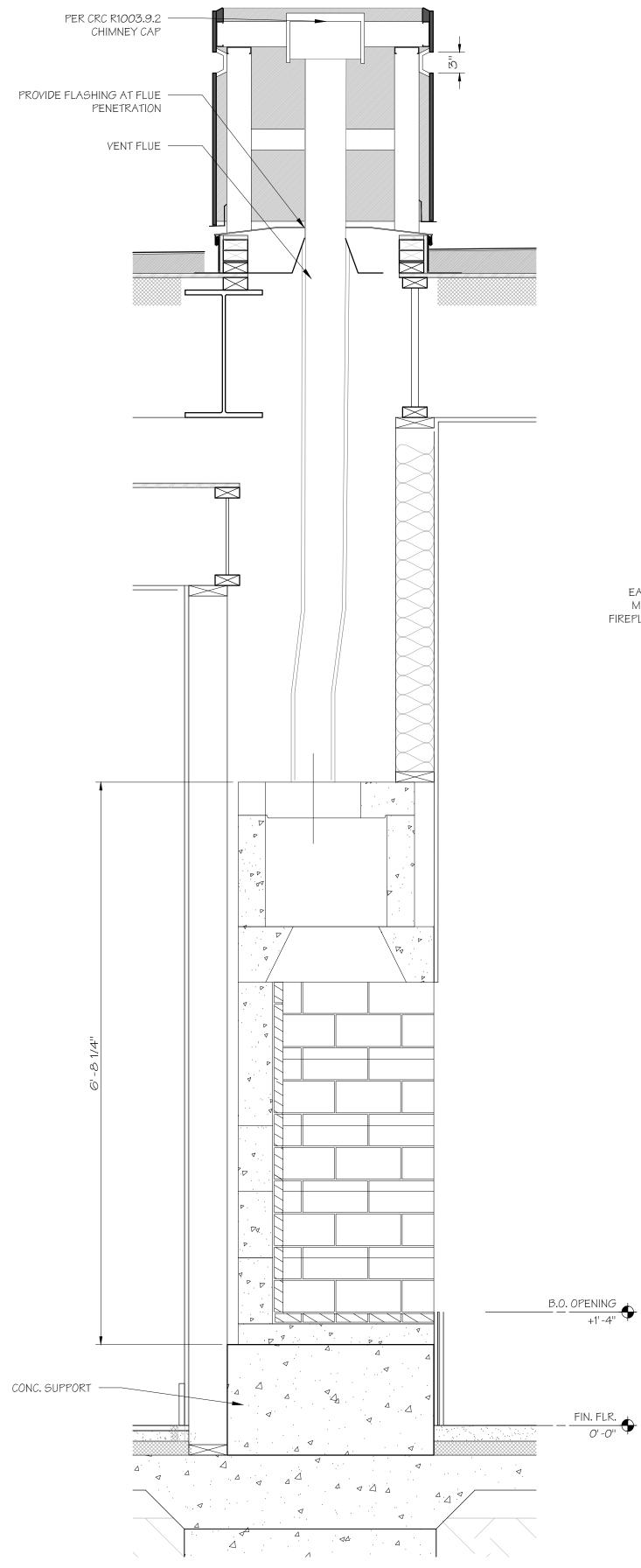
FIREPLACE DETAILS - OUTDOOR PATIO

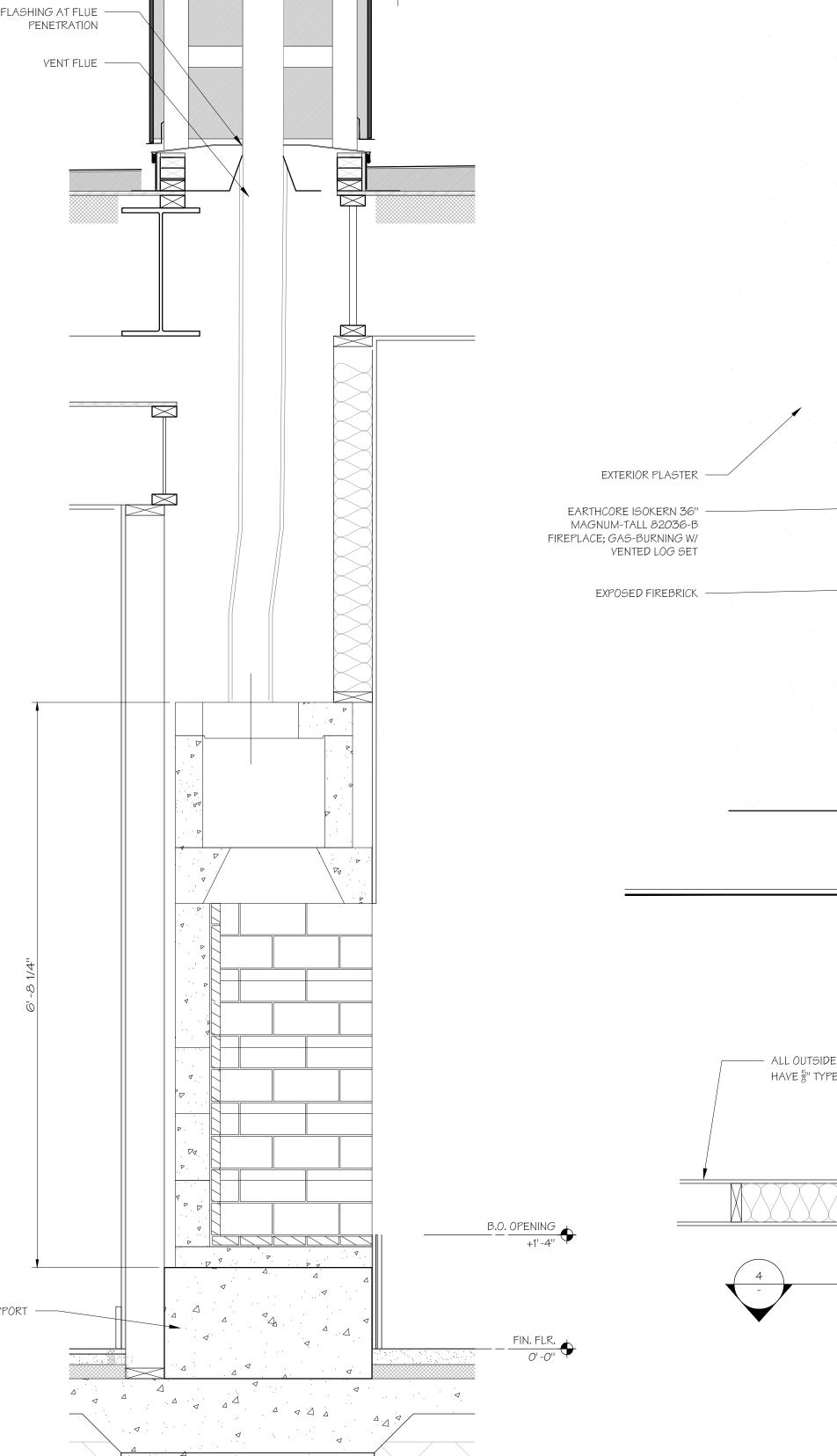
SHEET NUMBER

WALL SECTION SCALE: 1" = 1'-0"

SCALE: 1" = 1'-0"









- ALL OUTSIDE FACES OF FRAMING TO HAVE $\frac{5}{8}$ " TYPE-X DRYWALL, TYP. SUMMER DECK 3' -7'' HALLWAY

3'-0"

CROSS SECTION SCALE: 1" = 1'-0"

FRONT SECTION SCALE: 1" = 1'-0

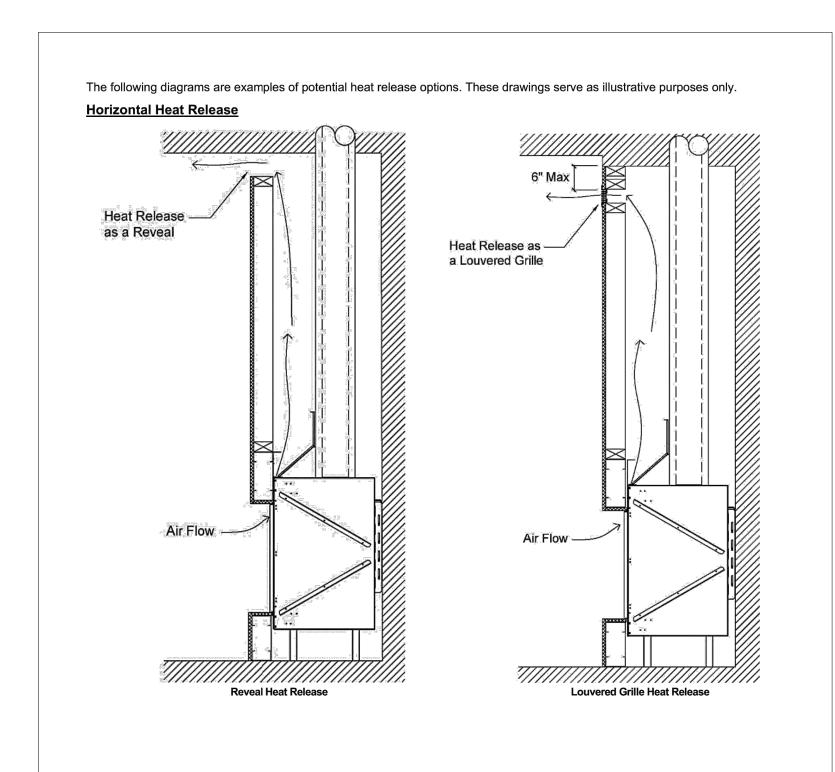
A5.32

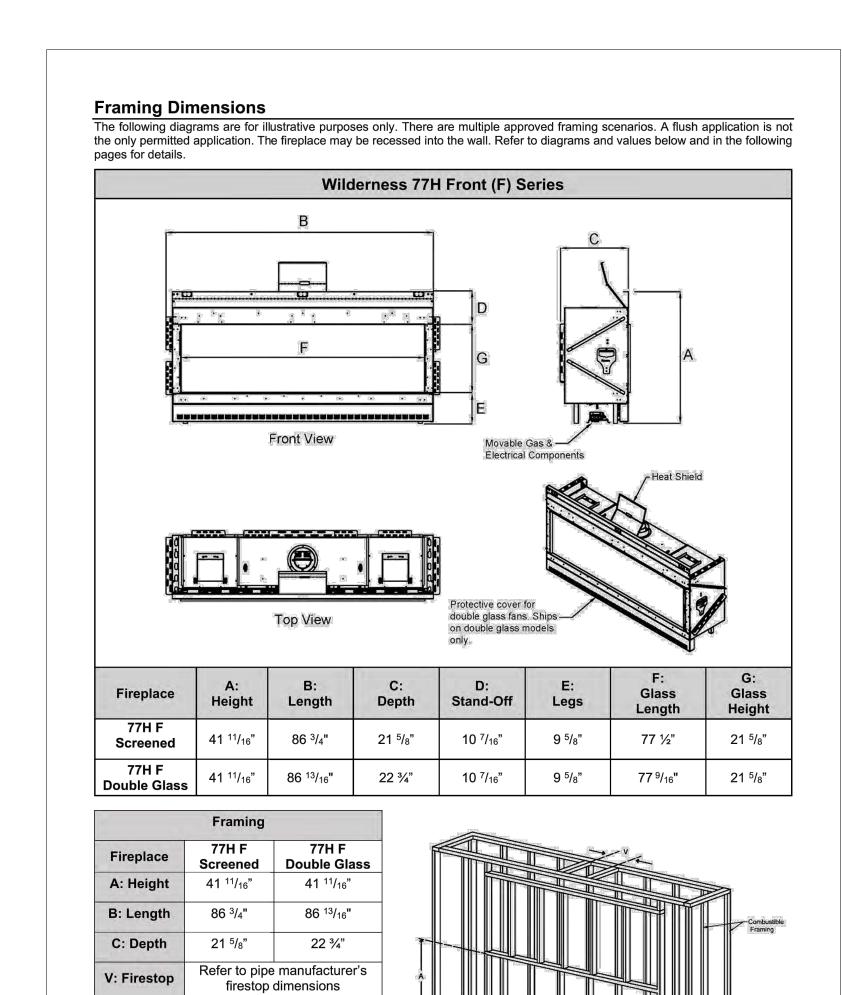
1 fmjr

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24 TEHAMACARMEL, CA 93923
APN 169-421-045

PROJECT NUMBER	
DATE	01/31
CHECKED BY	
DRAWN BY	
SCALE	AS NO
REVISIONS	
100% SCHEMATIC DESIGN	08/07/
DESIGN REVIEW STEP 4	01/22/
BUILDING PERMIT	01/31/

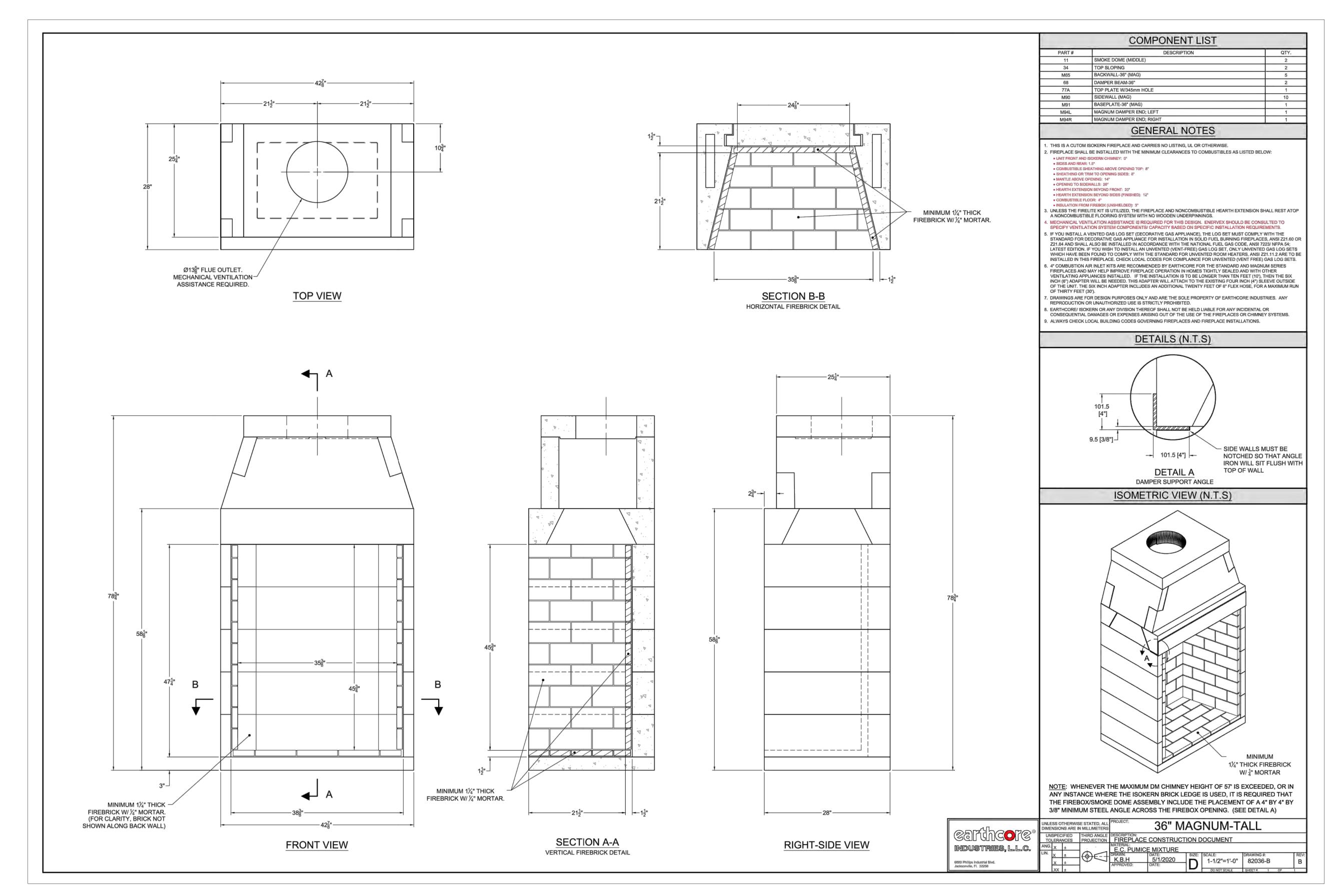
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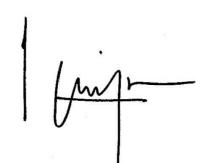
FIREPLACE SPECS -LIVING ROOM

SHEET NUMI

ORTAL INSTALLATION SPECS 1

A5.33





JUANCARLOS FERNANDEZ
PROJECT DESIGNER

SIGNUM ARCHITECTURE, LLP 707 963 8831 1675 2nd St, Napa, CA 94559

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24 TEHAMACARMEL, CA 93923
APN 169-421-045

PROJECT NUMBER	23
DATE	01/31/202
CHECKED BY	JC
DRAWN BY	A۱
SCALE	AS NOTE
REVISIONS	
100% SCHEMATIC DESIGN	08/07/202
DESIGN REVIEW STEP 4	01/22/202
BUILDING PERMIT	01/31/202

FIREPLACE SPECS - OUTDOOR PATIO

SHEET NUMBER

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N.T.S.

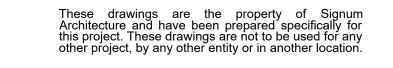
1

A5.34



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CARMEL

SERWIN RESIDENCE

24 TEHAMACARMEL, CA 93923
APN 169-421-045

2314

JCF

AVH

01/31/2025

AS NOTED

08/07/2024

01/22/2025

01/31/2025

PROJECT NUMBER

DATE

CHECKED BY

DRAWN BY

REVISIONS

100% SCHEMATIC DESIGN

DESIGN REVIEW STEP 4

BUILDING PERMIT

SCALE

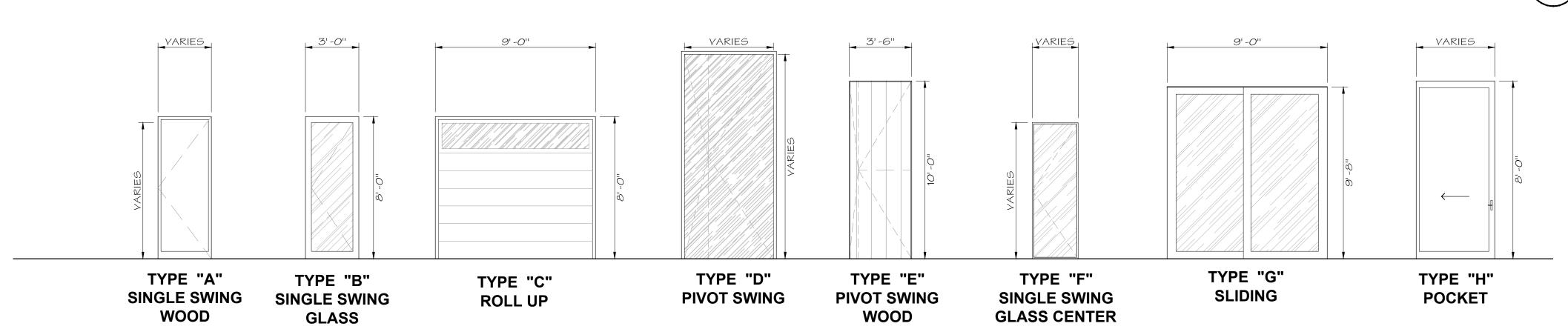
DOOR No.	<u>ROOM No.</u>	ROOM NAME	OPERATION	<u>PAIR</u>	<u>TYPE</u>	<u>MATL</u>	DOOR SIZE	RATING LABEL	<u>GLAZING</u>	HDWR GRP FRAME TYPE FRAME MATL	<u>FINISH</u>	<u>NOTES</u>
FIRST FI	_00R 7.01											THERMALLY BROKEN
1 <i>0</i> 1A	101	GREAT ROOM	SINGLE SWING	NO	D	GL	5'-0" x 12'-0"		TEMP.	ALUMINUM	DARK BRONZE	THERMALLY BROKEN
105A	105	LAUNDRY	SINGLE SWING	NO	В	GL	3'-0"×8'-0"		TEMP.	ALUMINUM	DARK BRONZE	
106A	106	POWDER	SINGLE SWING	NO	Α	WD	3'-0"×8'-0"			ALUMINUM	DARK BRONZE	
107A	107	HALLWAY	SINGLE SWING	NO	F	GL	3' -0''' × 10' -0"		TEMP.	ALUMINUM	DARK BRONZE	THERMALLY BROKEN
108A	108	GUEST SUITE	SINGLE SWING	NO	Α	WD	3'-0"×8'-0"			ALUMINUM	DARK BRONZE	
108B	108	GUEST SUITE	SLIDING	NO	G	GL	9'-0" × 9'-8"		TEMP.	ALUMINUM	DARK BRONZE	THERMALLY BROKEN
11 <i>O</i> A	110	GUEST BATH	SINGLE SWING	NO	Α	WD	3'-0"×8'-0"			ALUMINUM	DARK BRONZE	
111A	111	GARAGE	SINGLE SWING	NO	Α	WD	3'-0"×8'-0"			ALUMINUM	DARK BRONZE	
111B	111	GARAGE	GARAGE DOOR	NO	С	MTL.	9' -0" × 8' -0"		TEMP.	ALUMINUM	DARK BRONZE	
111 <i>C</i>	111	GARAGE	GARAGE DOOR	NO	С	MTL.	9' -0" × 8' -0"		TEMP.	ALUMINUM	DARK BRONZE	
111D	111	GARAGE	GARAGE DOOR	NO	С	MTL.	9'-0" × 8'-0"		TEMP.	ALUMINUM	DARK BRONZE	
112A	112	MECHANICAL	SINGLE SWING	NO	Α	WD	3'-0"×8'-0"			ALUMINUM	DARK BRONZE	
113A	113	HALLWAY	SINGLE SWING	NO	E	WD	3'-6" × 10'-0"			ALUMINUM	DARK BRONZE	
113B	113	HALLWAY	SINGLE SWING	NO	E	WD	3'-6" x 10'-0"			ALUMINUM	DARK BRONZE	
114A	114	OFFICE	SINGLE SWING	NO	F	GL	3'-6" x 10'-0"		TEMP.	ALUMINUM	DARK BRONZE	THERMALLY BROKEN
115A	115	MASTER SUITE	SINGLE SWING	NO	F	GL	3'-6" × 10'-0"		TEMP.	ALUMINUM	DARK BRONZE	THERMALLY BROKEN
116A	116	MASTER BATH	POCKET	NO	Н	WD	2' -8" x 8' -0"			ALUMINUM	DARK BRONZE	
116B	116	MASTER BATH	SINGLE SWING	NO	А	GL	3'-0"×8'-0"		TEMP.	ALUMINUM	DARK BRONZE	THERMALLY BROKEN
NO	TES:										<u> </u>	

1. THE OPERATING / OPENING EFFORT SHALL NOT EXCEED 5 POUNDS AT ALL DOORS.

2. ALL THRESHOLDS SHALL COMPLY W/CBC STANDARDS FOR ACCESSIBILITY

3. AA = ANODIZED ALUMINUM

DOOR SCHEDULE 2



DOOR TYPES SCALE: 1/4" = 1'

DOOR SCHEDULE

SHEET NUMBER

SHEET NAME

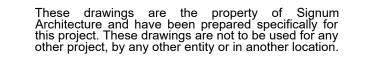
A7.01

WINDOW No.	ROOM No.	ROOM NAME	OPERATION	TYPE	MATL	<u>FINISH</u>	MANUFACTURER	MODEL	R.O. WINDOW SIZE	<u> 5Q. FT.</u>	HEAD HT. A.F.F.	CLG. HT.	INSUL.	GLAZING S	SCREEN	NOTES
1 <i>0</i> 1A	101	GREAT ROOM	FIXED	Н	AA	DARK BRONZE	AWAKE		36'-0" x 12'-0"		12' -0"	11' -10''		CLR		
101B	101	GREAT ROOM	FIXED	С	AA	DARK BRONZE	AWAKE		15'-6" x 12'-0"		12' -0"	11' -10''		CLR		
1 <i>O</i> 1 <i>C</i>	101	GREAT ROOM	FIXED	С	AA	DARK BRONZE	AWAKE		15' -6" x 12' -0"		12' -0"	11' -10''		CLR		
105A	105	LAUNDRY	CASEMENT	E	AA	DARK BRONZE	AWAKE		6'-0" × 4'-0"		8'-0"	10' -0''		CLR		
107A	107	HALLWAY	FIXED	Α	AA	DARK BRONZE	AWAKE		5' -6" x 10' -0"		10' -0"	10' -0''		CLR		
107B	107	HALLWAY	FIXED	С	AA	DARK BRONZE	AWAKE		11' -5" × 10' -0"		10'-0"	10' -0''		CLR		
108A	108	GUEST SUITE	FIXED	А	AA	DARK BRONZE	AWAKE		4'-0" x 9'-8"		9'-8"	10' -0''		CLR		
108B	108	GUEST SUITE	FIXED	Α	AA	DARK BRONZE	AWAKE		4'-0" x 9'-8"		9'-8"	10' -0''		CLR		
11 <i>O</i> A	110	GUEST BATH	CASEMENT	D	AA	DARK BRONZE	AWAKE		3' -0" × 4' -0"		8' -0"	10' -0''		CLR		
113A	113	HALLWAY	FIXED	А	AA	DARK BRONZE	AWAKE		8'-8" x 10'-0"		10' -0"	10' -0''		CLR		
114A	114	OFFICE	FIXED	В	AA	DARK BRONZE	AWAKE		10' -0" × 10' -0"		10' -0"	10' -0''		CLR		
114B	114	OFFICE	FIXED	В	AA	DARK BRONZE	AWAKE		13' -3" × 10' -0"		10' -0"	10' -0"		CLR		
115A	115	MASTER SUITE	FIXED	С	AA	DARK BRONZE	AWAKE		7' -3" × 10' -0"		10' -0"	10' -0''		CLR		
115B	115	MASTER SUITE	FIXED	В	AA	DARK BRONZE	AWAKE		11' -8" × 10' -0"		10' -0"	10' -0"		CLR		
115C	115	MASTER SUITE	FIXED	В	AA	DARK BRONZE	AWAKE		11' -8" × 10' -0"		10' -0"	10' -0''		CLR		
115D	115	MASTER SUITE	FIXED	F	AA	DARK BRONZE	AWAKE		10' -9" × 10' -0"		10' -0"	10' -0''		CLR		
116A	116	MASTER BATH	FIXED	А	AA	DARK BRONZE	AWAKE		4'-0" x 8'-0"		8'-0"	10' -0''		CLR		
116B	116	MASTER BATH	FIXED	G	AA	DARK BRONZE	AWAKE		14' -9" × 8' -0"		8'-0"	10' -0''		CLR		
NO 1. AA = ANODIZ	TES:				·											

1 fmjr

JUANCARLOS FERNANDEZ PROJECT DESIGNER

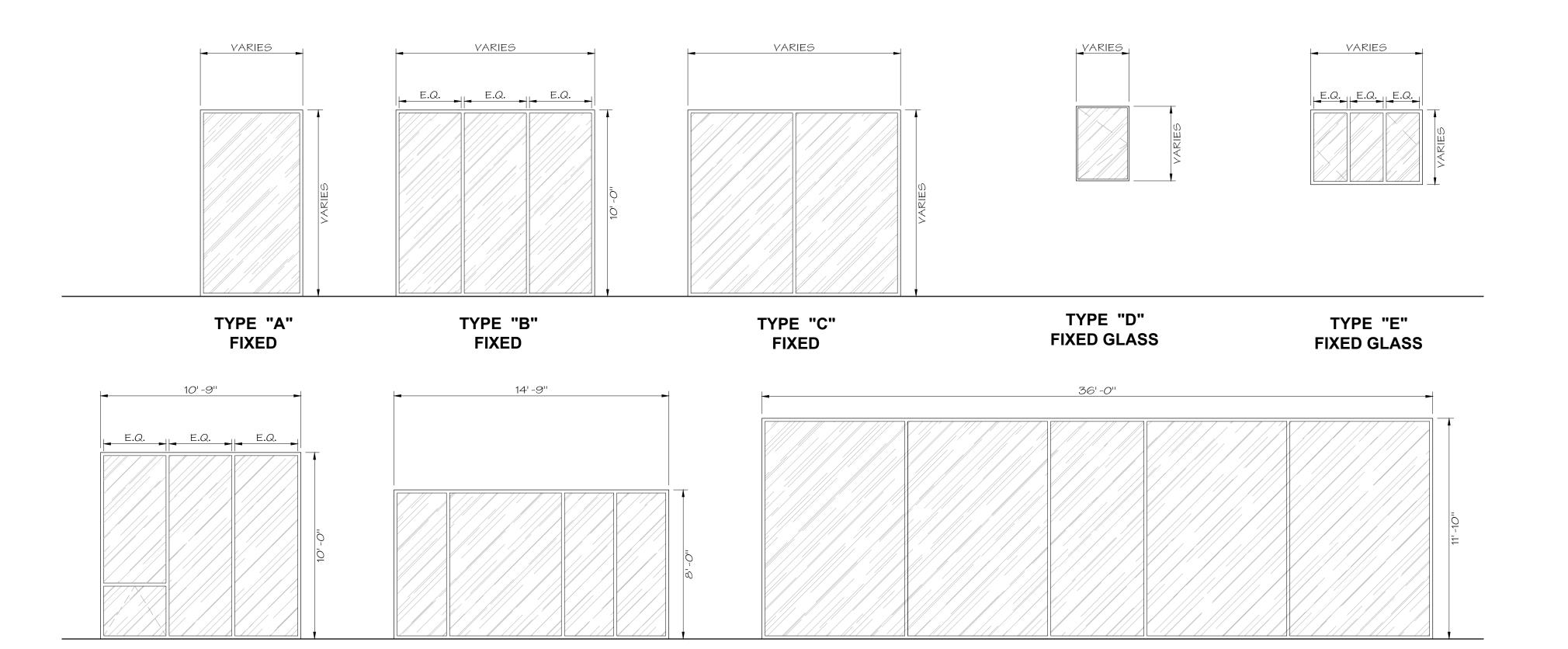
SIGNUM ARCHITECTURE, LLP 707 963 8831 1675 2nd St, Napa, CA 94559



WINDOW SCHEDULE

SCALE: NTS

2



TYPE "G" FIXED

TYPE "F" FIXED/AWNING

CARMEL SERWIN RESIDENCE

24 TEHAMACARMEL, CA 93923
APN 169-421-045

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WINDOW SCHEDULE

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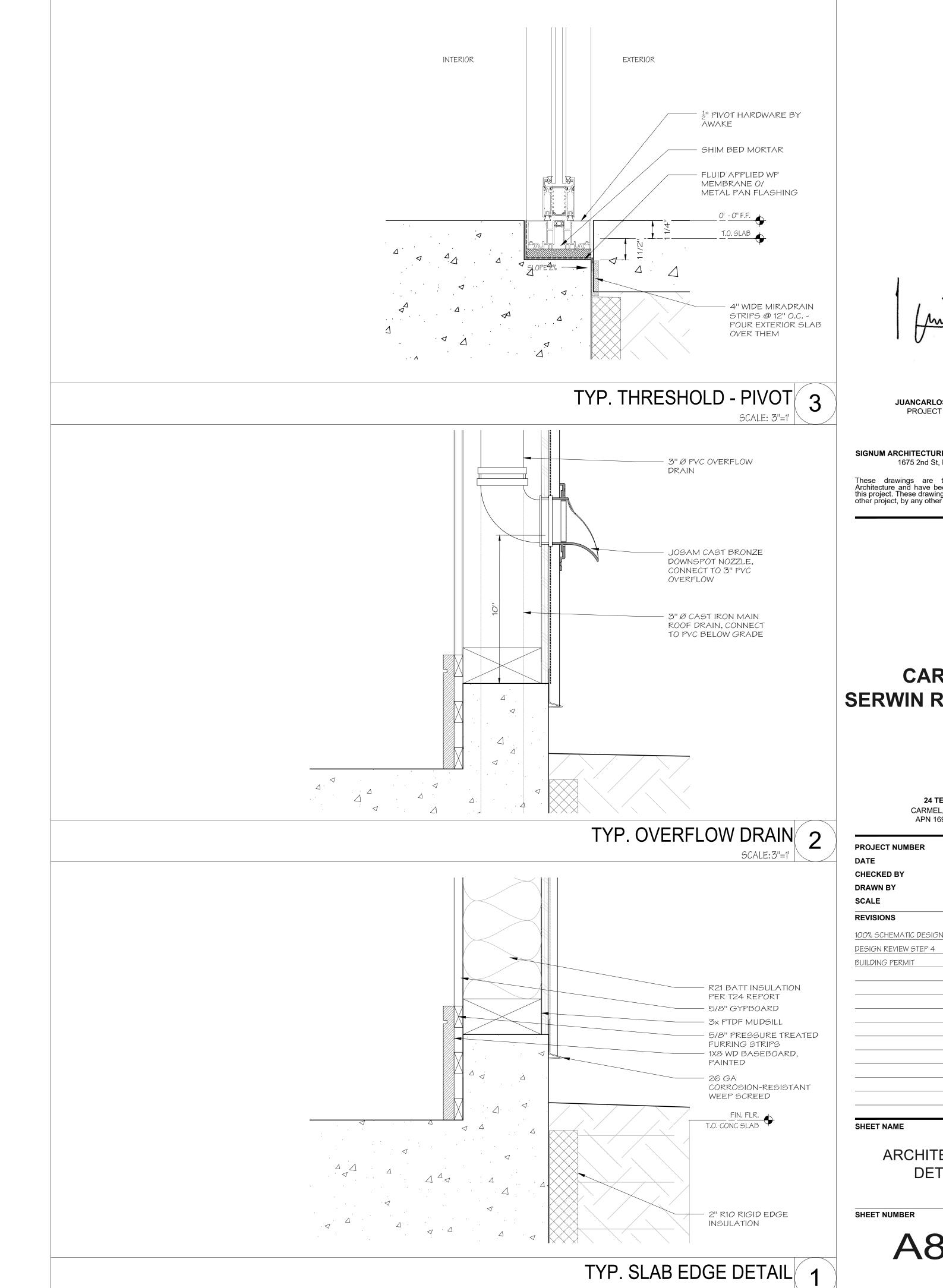
WINDOW TYPES

SCALE: 1/4" = 1'

1

TYPE "H" FIXED

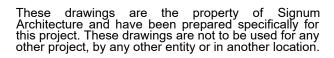
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CARMEL **SERWIN RESIDENCE**

24 TEHAMACARMEL, CA 93923
APN 169-421-045

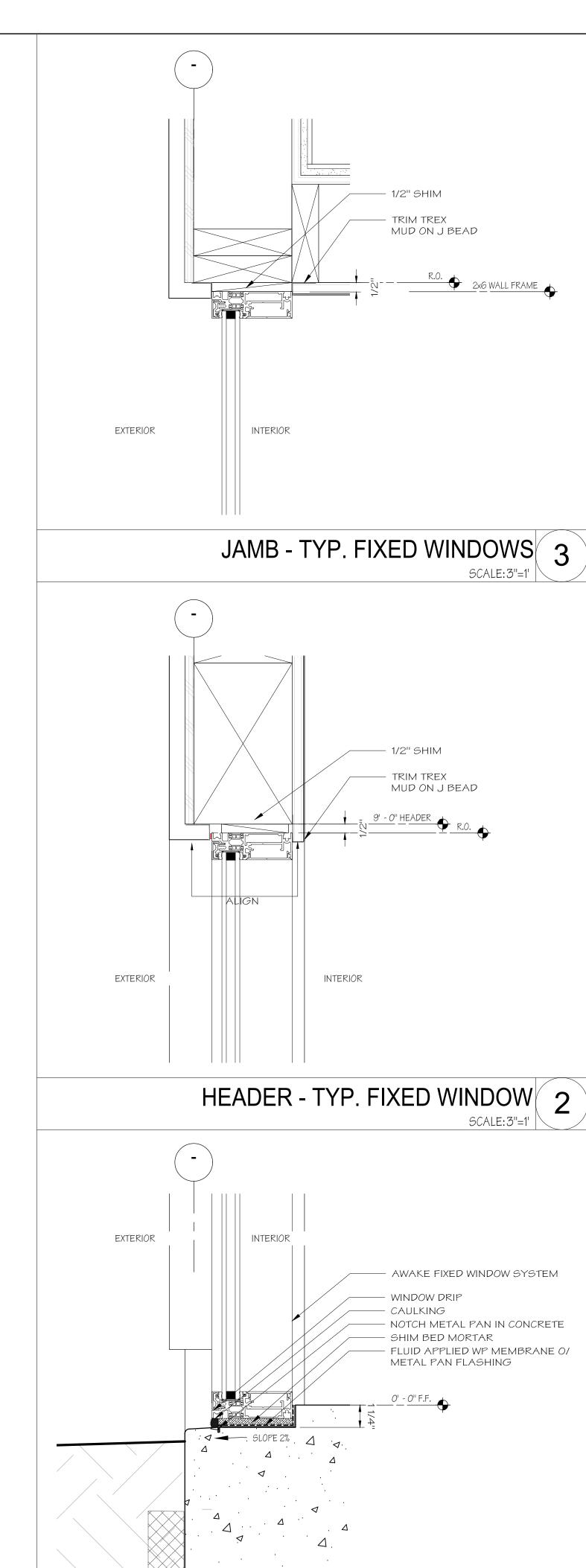
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DATE	01/31/2025
CHECKED BY	JCF
DRAWN BY	AVH
SCALE	AS NOTED
REVISIONS	
100% SCHEMATIC DESIGN	08/07/2024
DESIGN REVIEW STEP 4	01/22/2025
BUILDING PERMIT	01/31/2025
SHEET NAME	
ARCHITECT	URAL

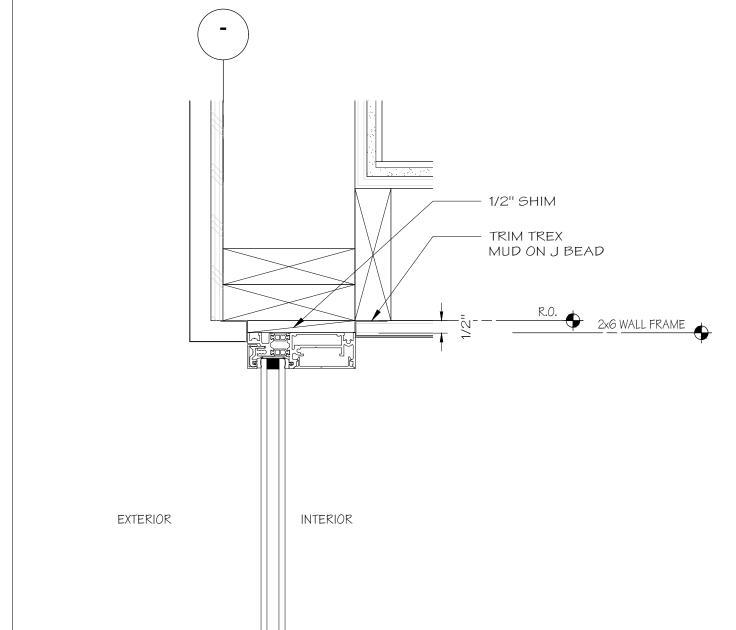
DETAILS

A8.01

BUILDING PERMIT

SCALE: 3"=1'





JAMB - TYP. FIXED WINDOWS 3

SCALE: 3"=1" **SIGNUM ARCHITECTURE, LLP** 707 963 8831 1675 2nd St, Napa, CA 94559 These drawings are the property of Signum Architecture and have been prepared specifically for this project. These drawings are not to be used for any other project, by any other entity or in another location.

INTERIOR

1/2" SHIM

- TRIM TREX MUD ON J BEAD

AWAKE FIXED WINDOW SYSTEM

— NOTCH METAL PAN IN CONCRETE

- FLUID APPLIED WP MEMBRANE O/ METAL PAN FLASHING

- WINDOW DRIP

- SHIM BED MORTAR

--- CAULKING

SILL - TYP. FIXED WINDOW 1

CARMEL **SERWIN RESIDENCE**

JUANCARLOS FERNANDEZ PROJECT DESIGNER

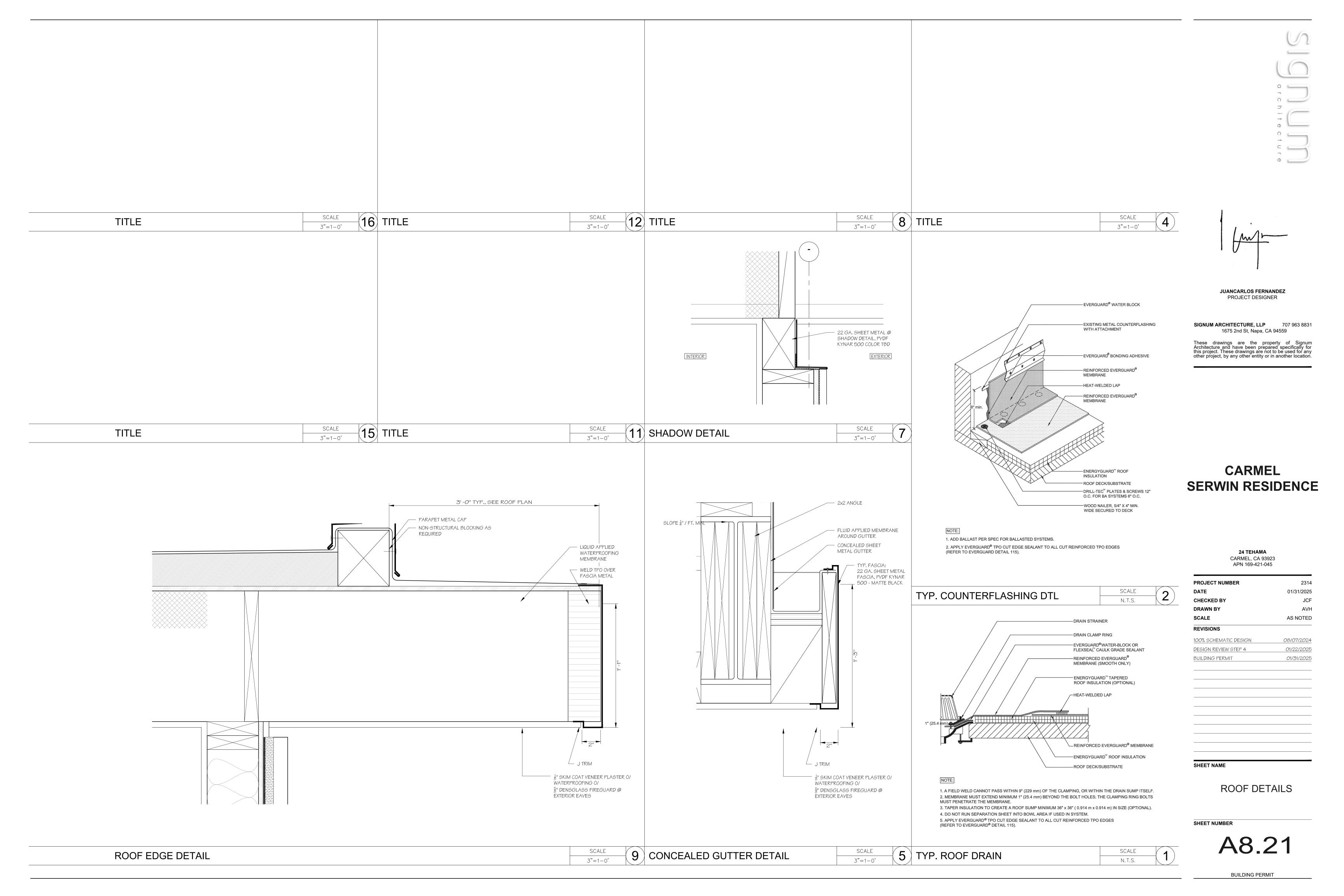
24 TEHAMACARMEL, CA 93923
APN 169-421-045

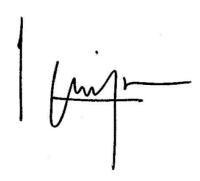
PROJECT NUMBER	2314
DATE	01/31/202
CHECKED BY	JCI
DRAWN BY	AVI
SCALE	AS NOTE
REVISIONS	
100% SCHEMATIC DESIGN	08/07/2024
DESIGN REVIEW STEP 4	01/22/2025
BUILDING PERMIT	01/31/2025
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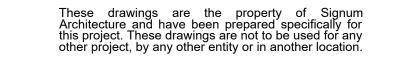
DETAILS





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CARMEL SERWIN RESIDENCE

24 TEHAMACARMEL, CA 93923
APN 169-421-045

DATE
CHECKED BY
DRAWN BY SCALE
REVISIONS
100% SCHEMATIC DESIGN
DESIGN REVIEW STEP 4
BUILDING PERMIT

ENTRY MARKER

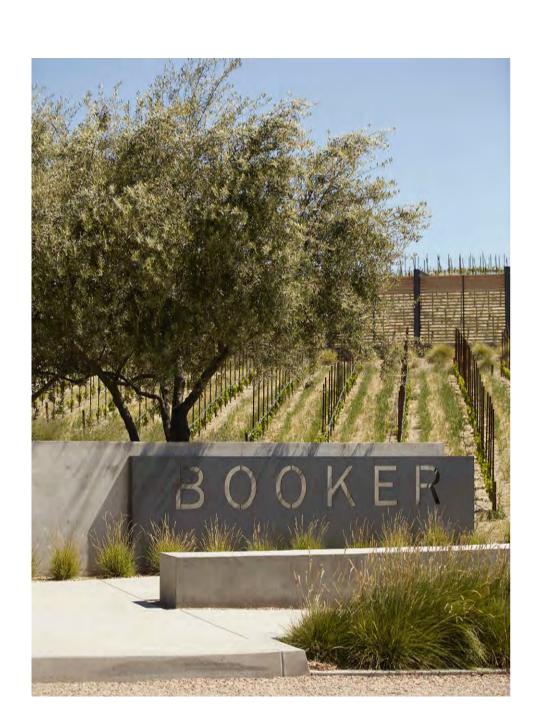
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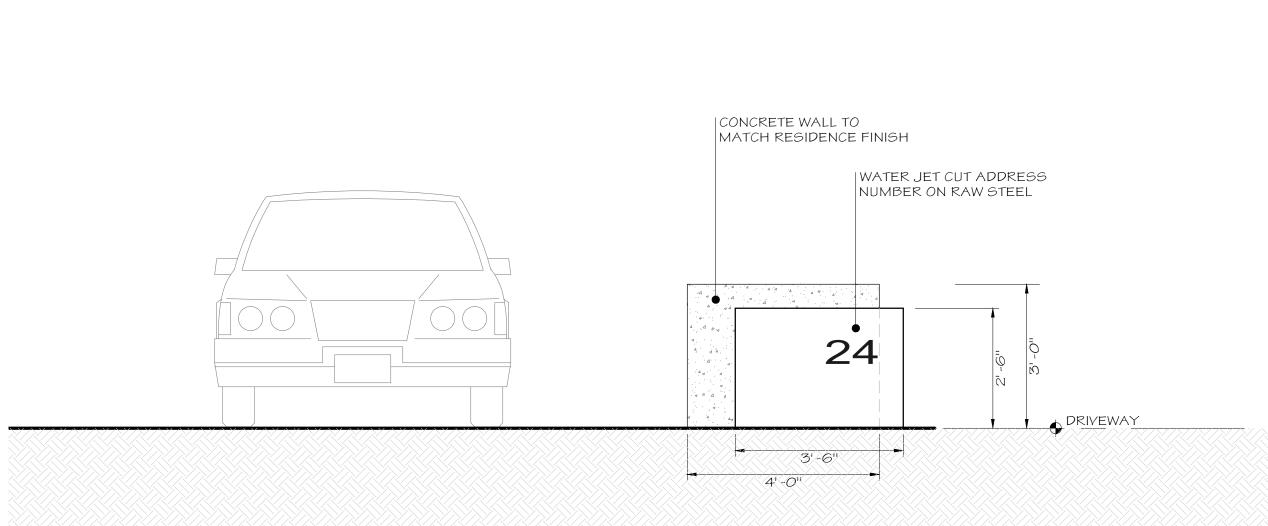
ADDRESS SIGNAGE

SCALE: 1/2" = 1' -0"

A8.31

BUILDING PERMIT



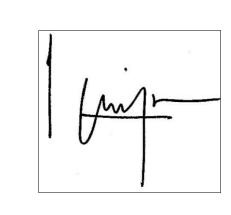


FINISHES PALETTE

SCALE: NTS

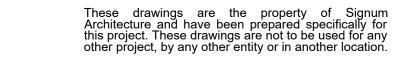
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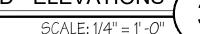
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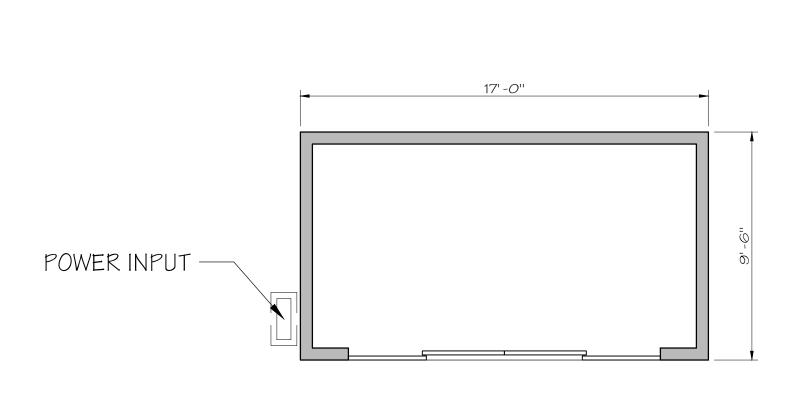
CARMEL OVERALL HT. SERWIN RESIDENCE T.O.P. 8'-0"











24 TEHAMACARMEL, CA 93923
APN 169-421-045

F.F. FIRST FLOOR 0'-0" (+131.00')	PROJECT NUMBER DATE CHECKED BY	231 01/31/202 JC
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ATIONS (2)	SCALE	AS NOTE
E: 1/4" = 1'-0" (3)	REVISIONS	
	100% SCHEMATIC DESIGN	08/07/202
	DESIGN REVIEW STEP 4	01/22/202
	BUILDING PERMIT	01/31/202

ACCESSORY SHED

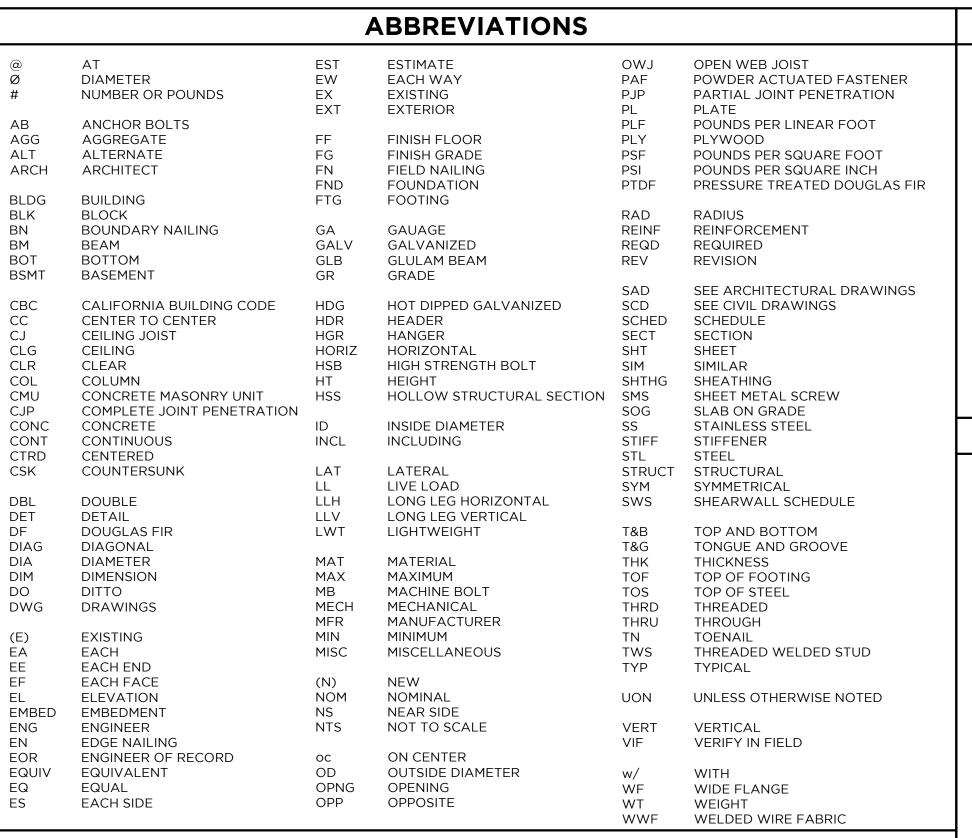
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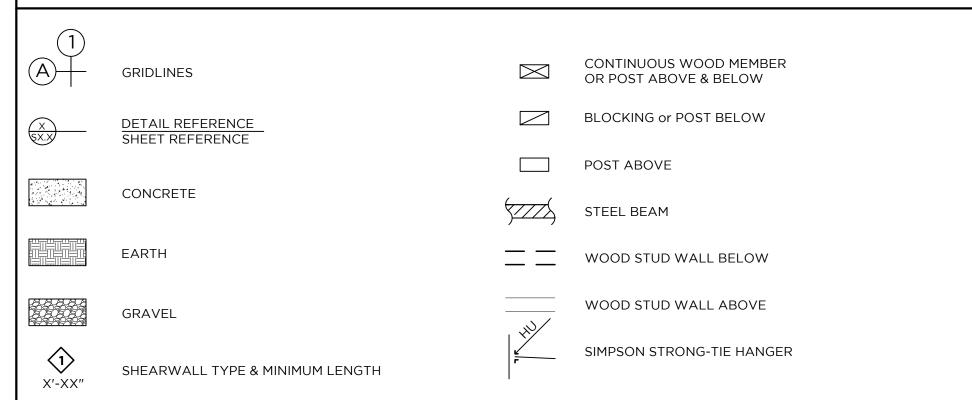
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ACCESSORY SHED - PLAN VIEW

(E) PHOTOS - ESCAPESPACE MA SHED



SYMBOLS



GENERAL

- THE INTENT OF THESE DRAWINGS IS TO SHOW ALL ITEMS NECESSARY TO COMPLETE THE CONSTRUCTION FOR THE STRUCTURAL PORTIONS OF THIS BUILDING.
- 2. WHERE SOME FEATURES OF CONSTRUCTION ARE NOT ENTIRELY SHOWN, THEIR CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR ELEMENTS.
- 3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE 2022 CALIFORNIA BUILDING CODE & ALL LOCAL JURISDICTION AMENDMENTS.
- 4. DO NOT SCALE DRAWINGS. SCALE IS FOR REFERENCE ONLY.
- 5. TYPICAL DETAILS AND NOTES SHOWN ON THESE SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR OTHERWISE NOTED.
- 6. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. THE DESIGN AND CONSTRUCTION OF ALL SHORING, BRACING, AND FORM WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS
- 7. THE CONTRACTOR SHALL CHECK, FIELD VERIFY, AND COORDINATE, AS REQUIRED, ALL DIMENSIONS AND RECOMMENDATIONS WITHIN THESE DRAWINGS, AND BETWEEN THESE DRAWINGS AND DOCUMENTS PREPARED BY OTHER CONSULTANTS, INCLUDING, BUT NOT LIMITED TO, ARCHITECTURAL DRAWINGS, CIVIL DRAWINGS, GEOTECHNICAL RECOMMENDATIONS, EXISTING SITE CONDITIONS, ETC. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT & EOR PRIOR TO BEGINNING WORK ON AREAS OF WORK AFFECTED BY THESE DISCREPANCIES
- DRAINAGE AND WATERPROOFING SYSTEMS ARE NOT PART OF THESE DRAWINGS AND SHALL BE DESIGNED BY OTHERS AS REQUIRED.

	DESIG	N LOADS	
GEN	ERAL	EARTHQU	JAKE LOAD
BUILDING CODE	2022 CALIFORNIA BUILDING CODE	IMPORTANCE FACTOR	I _e = 1.0
RISK CATEGORY	II	SITE CLASS	С
DEAD	LOAD	DESIGN CATEGORY	D
ROOF	21 PSF	SPECTRAL ACCELERATIONS	S _s = 1.305, S ₁ = 0.484
FIRST FLOOR	N/A	DESIGN ACCELERATIONS	$S_{DS} = 1.044, S_{D1} = 0.484$
LIVE	LOAD	RESPONSE MODIFICATION COEFFICIENT	R = 6.5 (LIGHT-FRAMED SHEATHED WALLS)
ROOF	20 PSF	ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE
TYPICAL FLOOR	40 PSF	SEISMIC RESPONSE COEFFICIENT	C _s = 0.16
WIND	LOAD	REDUNDANCY FACTOR	ρ = 1.3
DESIGN WIND SPEED	92 MPH		
DESIGN PROCEDURE	DIRECTIONAL PROCEDURE	1	
EXPOSURE CATEGORY	В	1	
DIRECTIONALITY FACTOR	K _d = 0.85	1	
TOPOGRAPHIC FACTOR	$K_{zt} = 1.07$	1	

BKG STRUCTURAL ENGINEERS IS NOT RESPONSIBLE FOR THE SUPPORTING SOILS. THE FOUNDATION DESIGN IS BASED UPON A GEOTECHNICAL REPORT PREPARED BY HARO. KASUNICH, AND ASSOCIATES, INC., 116 E, LAKE AVE, WATSONVILLE, CALIFORNIA PH:

CONCRETE, DRAINAGE, ETC. SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. GEOTECHNICAL CONSTRUCTION OBSERVATION SHALL BE PERFORMED AS SPECIFIED IN THE GEOTECHNICAL REPORT 2. THE ALLOWABLE SOIL BEARING PRESSURE USED IS 3000 PSF (DEAD \pm LIVE LOADS) WITH ONE-THIRD ADDITIONAL INCREASE FOR

831.722.4175, AND DATED 12.31.2024 (PROJECT NO. M12495). ALL FOUNDATION EXCAVATION, EARTHWORK, SITE PLACEMENT OF

FOUNDATIONS

- 3. ALL FOUNDATION ELEMENTS SHALL BE SUPPORTED ON COMPETENT MATERIAL. IN THE EVENT THE CONTRACTOR HAS REASON TO BELIEVE THAT THE SUPPORTING SOIL MAY NOT BE COMPETENT TO SUPPORT THE PROPOSED BUILDING STRUCTURE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER BEFORE PROCEEDING WITH ANY FURTHER WORK.
- 4. ALL EXCAVATIONS SHALL BE CLEAN OF ALL DEBRIS, AND ALL STANDING WATER SHALL BE REMOVED.
- 5. SHALLOW FOUNDATION ELEMENTS SHALL BE STEPPED WHERE THE BOTTOM OF FOOTING IS AT A SLOPE GREATER THAN 10:1 (HORIZONTAL: VERTICAL)

REINFORCED CONCRETE

- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 301: SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS. ALL STRUCTURAL CONCRETE SHALL COMPLY WITH THE PROVISIONS OF ACI 318-19.
- 2. ALL CONCRETE, AT A MINIMUM, SHALL CONFORM TO THE FOLLOWING:
- ALL CONCRETE SHALL BE NORMAL-WEIGHT (150 PCF) AND READY-MIXED
- ALL AGGREGATE SHALL CONFORM TO ASTM C33. COARSE AGGREGATE SHALL BE A MINIMUM OF 3/4", UNLESS A SMALLER
- PUMP MIX IS APPROVED BY THE ENGINEER PRIOR TO THE ORDERING AND PLACEMENT OF CONCRETE ALL CEMENT SHALL CONFORM TO ASTM C150, TYPE II
- THE WATER TO CEMENT RATIO SHALL NOT EXCEED 0.45
- THE MEASURED SLUMP SHALL BE 4 INCHES +/- 1"

SHORT TERM LOADING (WIND OR SEISMIC)

- ALL WATER SHALL BE POTABLE, CLEAN, AND NOT DETRIMENTAL TO THE CONCRETE
- ENTRAINED AIR CONTENT SHALL NOT EXCEED 3% WHERE A TROWEL FINISH WILL BE APPLIED MINIMUM 28-DAY COMPRESSIVE STRENGTH SHALL BE 3,000 PSI (SPECIAL INSPECTION NOT REQUIRED)
- 25% FLYASH OR SLAG IS ACCEPTABLE AS A CEMENT SUBSTITUTE. IF A GREATER PERCENTAGE IS NEEDED, CONTACT EOR. CARE SHALL BE TAKEN BY THE CONTRACTOR DURING THE CURING PROCESS TO MINIMIZE TEMPERATURE / SHRINKAGE CRACKING PARTICULARLY WHEN USING LOW CARBON CEMENT.
- 3. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 (#3 BARS MAY BE GRADE 40), EXCEPT WHERE WELDING OF REINFORCEMENT IS SHOWN ON THESE DRAWINGS IN WHICH CASE THE REINFORCING SHALL CONFORM TO ASTM A706. ALL REINFORCEMENT SHALL BE HELD SECURELY IN POSITION WITH DEVICES AND/OR TIES TO PREVENT DISPLACEMENT DURING PLACEMENT OF CONCRETE.
- 4. REINFORCEMENT SHALL NOT BE WELDED EXCEPT WHERE SPECIFICALLY SHOWN ON THESE DRAWINGS.
- ALL DIMENSIONS SHOWN FOR LOCATION OF REINFORCING ARE TO THE FACE OF MAIN BARS, TIES, ETC. (CLEAR COVER).

CONCRETE COVERAGE SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED: TYPE OF CONCRETE **CLEAR COVER UNO (INCHES)** CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH OR WEATHER EXPOSED TO EARTH OR WEATHER BUT CAST IN FORMS **#5 BARS AND SMALLER** #6 BARS AND LARGER NOT EXPOSED TO EARTH OR WEATHER 3/4" SLABS AND WALLS BEAMS AND COLUMNS 1 1/2"

- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND COORDINATING WITH ALL TRADES THE LOCATION OF ANY ELEMENTS TO BE EMBEDDED IN OR PENETRATING CONCRETE PRIOR TO THE PLACEMENT OF CONCRETE. NO PIPES, DUCTS, OR BLOCKOUTS SHALL BE PLACED IN CONCRETE SLABS OR WALLS UNLESS SPECIFICALLY DETAILED ON THESE DRAWINGS.
- 7. THE CONTRACTOR SHALL SUBMIT ALL PROPOSED LOCATIONS OF CONSTRUCTION JOINTS TO THE ENGINEER AND ARCHITECT FOR APPROVAL PRIOR TO PLACING CONCRETE.
- 8. ALL HARDENED SURFACES OF CONSTRUCTION JOINTS SHALL BE CLEANED TO REMOVE DUST, CHIPS, OR OTHER FOREIGN MATERIALS AND SHALL BE ROUGHENED TO A MINIMUM AMPLITUDE OF 1/4" PRIOR TO PLACING CONCRETE.
- 9. $\,$ DO NOT REMOVE ANY CONCRETE FORMS UNTIL THE CONCRETE HAS ATTAINED SUFFICIENT STRENGTH TO SUPPORT ITS OWN WEIGHT AND CONSTRUCTION LIVE LOADS WITHOUT DAMAGE TO THE STRUCTURE.

POST-INSTALLED EPOXY ANCHORS

- WHERE EPOXY IS INDICATED ON THESE DRAWINGS, EPOXY SHALL BE SET-3G (ICC-ES ESR #4057) AS MANUFACTURED BY SIMPSON STRONG-TIE OR APPROVED EQUAL.
- 2. ALL EPOXY SHALL BE INSTALLED PER MANUFACTURER'S APPROVED ICC REPORT, AND THE APPROVED REPORT SHALL BE KEPT ON THE JOBSITE AT ALL TIMES FOR REFERENCE BY INTERESTED PARTIES.
- 3. THE CONTRACTOR SHALL CAREFULLY READ THE ICC REPORT FOR CORRECT INSTALLATION INSTRUCTIONS. EPOXY INSTALLATION REQUIRES SPECIAL INSPECTION EXCEPT EPOXY TO BE USED FOR SHEAR DOWELS BETWEEN (E) AND (N) FOUNDATION ELEMENTS DOES NOT REQUIRE SPECIAL INSPECTION UNLESS OTHERWISE REQUIRED BY THE BUILDING DEPARTMENT.

STRUCTURAL STEEL

- . FABRICATION AND ERECTION OF ALL STEEL USED ON THIS PROJECT SHALL BE IN ACCORDANCE WITH AISC 360-16: SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, UNLESS OTHERWISE NOTED ON THESE PLANS.
- ALL WELDER QUALIFICATION REQUIREMENTS, AND WELDING PROCEDURES SHALL BE IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE (AISC 303-10), AWS D1.1, AND WHERE REQUIRED, AWS D1.8. ALL WELDING SHALL BE DONE BY CERTIFIED WELDER, WITH CURRENT CERTIFICATIONS FOR THE TYPE OF WELD AND WELDING POSITION REQUIRED. ALL ELECTRODES SHALL BE E70XX UNLESS OTHERWISE NOTED OR APPROVED.
- 3. DO NOT WELD ANY STRUCTURAL STEEL MEMBER OR CONNECTION UNLESS IT IS EXPLICITLY SHOWN ON THESE DRAWINGS.
- 4. ALL MISC STRUCTURAL STEEL SHALL CONFORM TO ASTM A36, UNLESS OTHERWISE NOTED ON THESE PLANS. ALL HSS SECTIONS SHALL CONFORM TO ASTM A500 GRADE C, AND ALL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992 GRADE 50.
- 5. ALL HIGH-STRENGTH BOLTS SHALL BE ASTM F3125 GRADE A325 (THREADS NOT EXCLUDED), UNLESS OTHERWISE NOTED. ALL BOLTS USED FOR ERECTION AND WOOD CONNECTIONS SHALL BE ASTM A307, UNLESS OTHERWISE NOTED. ALL ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 36.
- 6. ALL BOLT HOLES SHALL BE STANDARD SIZE IN ACCORDANCE WITH AISC SPECIFICATION FOR STRUCTURAL JOINTS UNLESS OTHERWISE NOTED ON THESE PLANS. ALL BOLTS FOR EXTERIOR USE SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A153, CLASS C.
- 7. PENETRATIONS THROUGH STRUCTURAL STEEL MEMBERS ARE NOT ALLOWED UNLESS THEY ARE SPECIFICALLY DETAILED ON THESE 8. ALL STRUCTURAL STEEL SHALL BE DELIVERED WITH A MINIMUM OF ONE COAT OF SHOP APPLIED PRIMER EXCEPT AT SURFACES
- WHERE HIGH-STRENGTH BOLTS WILL BE APPLIED, WHERE FIREPROOFING WILL BE APPLIED, OR WHERE STEEL WILL BE EMBEDDED IN CONCRETE. ALL EXTERIOR STRUCTURAL STEEL SHALL BE HOT-DIP GALVANIZED or STAINLESS STEEL.
- 9. USE NON-SHRINK GROUT UNDER ALL COLUMN BASES, UNLESS OTHERWISE NOTED ON THESE PLANS. GROUT SHALL MANUFACTURED BY FIVE STAR GROUT, MASTER BUILDERS, SIKA OR APPROVED EQUAL.
- 10. THE CONTRACTOR SHALL SUBMIT STEEL SHOP DRAWINGS SHOWING THE FABRICATION AND ERECTION OF ALL STRUCTURAL STEEL TO BE USED ON THIS PROJECT FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO ORDERING OR INSTALLING THE STRUCTURAL STEEL FLEMENTS.

STRUCTURAL SUBMITTALS

IN ORDER TO VERIFY THAT THE STRUCTURAL DESIGN INTENT OF CERTAIN ELEMENTS IS PROPERLY UNDERSTOOD. SUBMITTALS MAY BE REQUIRED FOR REVIEW AND APPROVAL BY THE EOR. THIS REVIEW SHALL NOT BE CONSIDERED TO BE ALL-ENCOMPASSING. AND WILL BE RESTRICTED TO A BRIEF REVIEW, FOR GENERAL CONFORMANCE WITH THE DESIGN DOCUMENTS. VERIFYING COMPLIANCE WITH ALL REQUIREMENTS OF THESE DESIGN DOCUMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR.

FOR THIS PROJECT THE FOLLOWING SHALL BE SUBMITTED TO THE EOR FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH ANY WORK RELATED TO THESE ELEMENTS:

- ROOF TRUSS SHOP DRAWINGS CONCRETE MIX DESIGNS
- STRUCTURAL STEEL SHOP DRAWINGS
 - ANY REQUESTS FOR SUBSTITUTIONS OR DEVIATIONS FROM THESE DRAWINGS.

ROUGH CARPENTRY

ALL STRUCTURAL LUMBER SHALL BE DOUGLAS FIR-LARCH OF THE GRADE INDICATED BELOW OR BETTER, UNLESS OTHERWISE NOTED ON THESE PLANS:

TYPE OF FRAMING MINIMUM GRADE 2x HORIZONTAL FRAMING NO. 2 4x OR LARGER HORIZONTAL FRAMING NO. 1 STUDS NO. 2 4x POSTS NO. 1 5x POSTS OR LARGER NO. 1 WALL PLATES NO. 1 PT NO. 2 WOOD MUDSILLS

- 2. ALL NAILS SHALL BE COMMON STEEL WIRE NAILS SIZED AND SPACED AS SPECIFIED ON THESE DRAWINGS. ALL FASTENERS INSTALLED IN PRESSURE-TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED.
- 3. ALL WOOD STRUCTURAL CONNECTORS (JOIST HANGERS, FRAMING CLIPS, ETC.) SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE. OTHER BRANDS SHALL NOT BE USED UNLESS THEY ARE SPECIFICALLY APPROVED BY THE EOR. AT A MINIMUM, Z-MAX FINISH SHALL BE USED FOR ALL STRUCTURAL CONNECTORS IN CONTACT WITH PRESSURE-TREATED LUMBER. WHERE CONNECTORS ATTACH TO PRESSURE-TREATED MUDSILLS IN INTERIOR, DRY CONDITIONS A MINIMUM G90 COATING MAY BE USED WHERE APPROVED BY SIMPSON STRONG-TIE, PROVIDED THE CONNECTOR IS SEPARATED FROM THE PRESSURE TREATED LUMBER BY A WATERPROOF BARRIER (GRACE VYCOR OR APPROVED EQUAL).
- 4. ALL STUD WALLS SHALL BE FRAMED WITH FULL-HEIGHT STUDS @ 16" oc UNLESS OTHERWISE NOTED ON THESE DRAWINGS.
- CUTTING, BORING, OR NOTCHING OF GIRDERS, BEAMS, JOISTS, AND OTHER STRUCTURAL ELEMENTS IS NOT ALLOWED UNLESS SPECIFICALLY DETAILED ON THESE DRAWINGS OR APPROVED BY THE EOR.
- 6. HOLES FOR BOLTS IN WOOD SHALL BE DRILLED A MAXIMUM OF 1/16" LARGER THAN BOLT DIAMETER. THE HEADS OF ALL BOLTS AND LAG SCREWS SHALL BE SEPARATED FROM WOOD BY A PROPERLY SIZED METAL WASHER.
- 7. ALL BOLTS AND SCREWS SHALL BE TIGHTENED AT THE TIME OF ERECTION AND RE-TIGHTENED BEFORE COMPLETION OF WORK OR BEFORE SUCH BOLTS AND SCREWS ARE COVERED BY ELEMENTS MAKING THEM INACCESSIBLE.
- 8. ALL WOOD IN CONTACT WITH CONCRETE, GROUT, OR MASONRY, SHALL BE PRESSURE-TREATED OR OF A NATURALLY DURABLE SPECIES OF WOOD. ALL PRESSURE-TREATED WOOD SHALL CONFORM TO AWPA STANDARD U1. ALL CUTS / NOTCHES / HOLES IN PRESSURE-TREATED LUMBER SHALL BE PROPERLY TREATED WITH WOOD PRESERVATIVE IN ACCORDANCE WITH AWPA M4. WHERE PRESSURE-TREATED WOOD IS USED IN INTERIOR APPLICATIONS, OR IN THE CRAWLSPACE, THE WOOD PRESERVATIVE SHALL BE RATED FOR INTERIOR USE.
- 9. MACHINE NAILING SHALL BE SUBJECT TO APPROVAL BY THE EOR AND THE BUILDING DEPARTMENT. ALL MACHINE NAILS SHALL HAVE EQUIVALENT SHANK DIAMETER AND NAIL LENGTH TO THOSE SPECIFIED ON THESE PLANS. MACHINE NAILING WILL NOT BE ALLOWED IF THE CONTRACTOR CAN NOT CONSISTENTLY PREVENT THE NAILHEADS FROM PENETRATING THE OUTER PLYWOOD LAYER MORE THAN NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES CANNOT BE CONSISTENTLY MAINTAINED.
- 10. USE DOUBLE FLOOR JOISTS UNDER ALL NONBEARING PARTITION WALLS WHEN PARALLEL TO FLOOR FRAMING. USE CONTINUOUS SOLID BLOCKING WHERE FLOOR FRAMING IS PERPENDICULAR.
- 11. ALL WOOD FRAMING SHALL BE PROPERLY WRAPPED FOR SHIPPING AND PROTECTED FROM THE ELEMENTS UNTIL THEY ARE READY TO BE INSTALLED.
- 12. SAWN LUMBER SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19% AT THE TIME OF INSTALLATION. ALL STRUCTURAL COMPOSITE LUMBER SHALL HAVE A MOISTURE CONTENT LESS THAN 16% AT THE TIME OF INSTALLATION. MOISTURE CONTENT OF SAWN LUMBER SHALL BE CHECKED PRIOR TO CLOSE-IN TO CONFIRM MOISTURE CONTENT DOES NOT EXCEED STATED VALUES OR EXCEED CALGREEN REQUIREMENTS. CONTRACTOR SHALL PROVIDE ALLOWANCE FOR DIFFERENTIAL SHRINKAGE OF LUMBER.
- 13. SOLID BLOCKING SHALL BE PLACED BETWEEN ALL JOISTS, RAFTERS, AND BEAMS AT ALL POINTS OF SUPPORT UNLESS THE JOIST, RAFTER, OR BEAM IS OTHERWISE PREVENTED FROM ROTATION BY THE INSTALLATION OF STEEL HARDWARE, STRAPS, OR BOLTS AS DETAILED ON THESE PLANS.
- 14. ALL TOP PLATES SHALL BE MADE UP OF (2)-2x MEMBERS, STITCH NAILED TOGETHER WITH A MINIMUM OF (2)-16d NAILS @ 16" oc. SPLICES SHALL BE OFFSET A MINIMUM OF 48" AND NAILED WITH A MINIMUM OF 24 -16D UNLESS OTHERWISE MECHANICALLY FASTENED TO TRANSFER THE ANTICIPATED FORCES ACROSS THE SPLICE.
- 15. MULTIPLE JOISTS SHALL BE LAMINATED TOGETHER WITH A MINIMUM OF (2)-16D NAILS INSTALLED AT 16" oc. THE NAILS SHALL BE STAGGERED AS REQUIRED TO PREVENT SPLITTING OF THE WOOD.
- 16. MINIMUM NAILING REQUIREMENTS SHALL BE AS SHOWN IN TABLE 2304.10.1 OF THE 2022 CBC UNLESS OTHERWISE NOTED ON THESE PLANS.
- 17. All MEMBERS SHALL BE INSTALLED CONTINUOUS, WITHOUT SPLICES, BETWEEN SUPPORT POINTS UNLESS OTHERWISE SHOWN ON THESE DRAWINGS.
- 18. STRUCTURAL LUMBER SHALL NOT BE RIPPED UNLESS SPECIFICALLY SHOWN ON THESE DRAWINGS.
- 19. ALL STRUCTURAL COMPOSITE LUMBER SHALL BE MANUFACTURED BY TRUS JOIST AND SHALL CONFORM TO ICC-ES ESR#-1387 UNLESS OTHERWISE APPROVED BY THE EOR. ALL LAMINATED VENEER LUMBER (LVL) SHALL HAVE A MINIMUM E = 2,000,000 PSI, FV = 285 PSI, AND Fb = 2600 PSI. ALL PARALLEL STRAND LUMBER (PSL) SHALL HAVE A MINIMUM E = 2,200,000 PSI, Fv = 290 PSI, AND
- 20. AT RIDGE CONDITIONS CONTRACTOR TO PROVIDE CS16 STRAP x 4'-0" LENGTH o/ ROOF PLYWOOD @ 6'-0" oc MAX SPACING (PERPENDICULAR TO RIDGE JOINING OPPOSITE RAFTERS).

STRUCTURAL SHEATHING

- ALL STRUCTURAL SHEATHING SHALL BE RATED APA RATED EXPOSURE 1 PLYWOOD UNLESS OTHERWISE NOTED ON THESE DRAWINGS. OSB SHALL NOT BE USED UNLESS APPROVED BY THE EOR.
- ALL EXTERIOR WALLS, WHETHER COVERED WITH FINISHES OR NOT, SHALL BE FIRST COVERED WITH PLYWOOD AND NAILED WITH A MINIMUM OF 10d NAILS @ 6" oc ALONG ALL EDGES AND 12" oc FIELD NAILING.
- ALL PLYWOOD SHALL BE INSTALLED WITH SHEETS CENTERED ACCURATELY OVER SUPPORTING MEMBERS. UNLESS OTHERWISE NOTED ON THESE DRAWINGS, LAY GRAIN PERPENDICULAR TO SUPPORTS WITH END JOINTS STAGGERED A MINIMUM OF 24".
- 4. MINIMUM WIDTH OF ALL PLYWOOD SHALL BE 2'-0" UNLESS IT IS SUPPORTED & NAILED ON ALL EDGES.
- 5. USE 3x4 FLAT BLOCKING AT UNSUPPORTED EDGES WHERE BLOCKING IS INDICATED ON THESE DRAWINGS.
- 6. PROVIDE TONGUE & GROOVE ENDS OR PANEL EDGE CLIPS (ONE MIDWAY BETWEEN EACH JOIST) AT UNSUPPORTED EDGES

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS SHALL BE COMPLETED IN CONFORMANCE WITH SECTION 1704 & 1705 OF THE 2022 CBC AND THE APPROVED SPECIAL INSPECTION AGREEMENT, WHERE SUCH AN AGREEMENT IS REQUIRED BY THE BUILDING DEPARTMENT.

2. THE CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTION AGENCY A MINIMUM OF 48 HOURS PRIOR TO ANY REQUESTED SPECIAL INSPECTIONS.

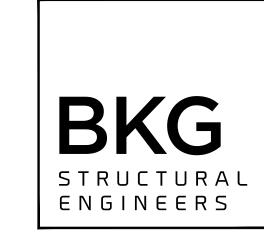
 \mid AT A MINIMUM, THE FOLLOWING WORK SHALL BE SUBJECTED TO SPECIAL INSPECTION BY AN OUTSIDE, THIRD-PARTY, SPECIAL INSPECTION TESTING AGENCY EMPLOYED BY THE OWNER OR THEIR REPRESENTATIVE:

- CAST-IN-PLACE AND POST-INSTALLED BOLTS INSTALLED IN CONCRETE (EPOXY, TITEN HD, EXPANSION,

- REBAR PLACEMENT BEFORE EACH POUR
- STRUCTURAL STEEL WELDING AND HIGH STRENGTH BOLTS SHEARWALL NAILING AND HOLDOWNS
- FOUNDATION EXCAVATION BY GEOTECH
- SUBGRADE/PAD GRADE PREPARATION BY GEOTECH

STRUCTURAL OBSERVATIONS

- STRUCTURAL OBSERVATIONS, AS REQUIRED BY SECTION 1704 OF THE 2022 CBC, ARE REQUIRED FOR THIS PROJECT. THESE OBSERVATIONS ARE SEPARATE FROM ANY REQUIRED SPECIAL INSPECTIONS OR BUILDING DEPARTMENT INSPECTION REQUIREMENTS.
- THE PURPOSE OF THE STRUCTURAL OBSERVATIONS ARE TO REVIEW THE OVERALL PROGRESS OF THE JOB AND TO REVIEW THAT GENERAL STRUCTURAL INTENT OF THESE DRAWINGS IS BEING EXECUTED. A VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM FOR GENERAL CONFORMANCE WITH THESE DRAWINGS WILL BE COMPLETED.
- 3. THE CONTRACTOR SHALL NOTIFY BKG A MINIMUM OF 48 HOURS PRIOR TO THE TIME OF ANY REQUESTED STRUCTURAL OBSERVATIONS.
 - AT A MINIMUM, THE FOLLOWING STRUCTURAL OBSERVATIONS SHALL BE COMPLETED FOR THIS PROJECT: FOUNDATION CONCRETE REINFORCING FOR EACH UNIQUE POUR, UNLESS OTHERWISE APPROVED BY EOR
 - ROUGH FRAMING, SHEARWALLS, AND FRAMING HARDWARE WHERE OTHERWISE REQUIRED BY THE BUILDING OFFICIAL OR THE BUILDING OWNER.



a California corporation 1600 El Camino Real, Unit C San Carlos, CA 94070 650.489.9224

Carmel Serwin Residence

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No. Date Description

Issue Date:

BKG Project No.: 24187

AS NOTED Drawn By:

Scale:

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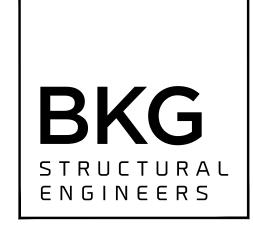
General Notes

PRE-MANUFACTURERED TRUSSES

- 1. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR PROVIDING ENGINEERED SHOP DRAWINGS FOR THE LAYOUT, CONFIGURATION, AND INSTALLATION OF ALL TRUSSES. THE SHOP DRAWINGS SHALL HAVE ALL INFORMATION REQUIRED FOR INDEPENDENT REVIEW AND CONFIRMATION OF TRUSS DESIGNS AND SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF THE 2022 CALIFORNIA BUILDING CODE. THE ENGINEERED SHOP DRAWINGS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT HAVING JURISDICTION OVER THE PROJECT FOR APPROVAL. ALL FEES ASSOCIATED WITH OBTAINING THE APPROVAL OF THE ENGINEERED SHOP DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- PRIOR TO SUBMITTAL OF THE ENGINEERED SHOP DRAWINGS TO THE BUILDING DEPARTMENT THE PLANS AND CALCULATIONS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER OF RECORD FOR REVIEW OF COMPLIANCE WITH THE GENERAL DESIGN INTENT OF THE PROJECT. CHANGES REQUIRED BY THE ENGINEER OF RECORD, BUILDING DEPARTMENT AND ARCHITECT SHALL BE INCORPORATED INTO THE TRUSS DESIGN WITHOUT ADDITIONAL EXPENSE TO THE OWNER. UNDER NO CIRCUMSTANCE SHALL TRUSSES BE FABRICATED OR INSTALLED PRIOR TO THE WRITTEN APPROVAL OF THE BUILDING DEPARTMENT, ENGINEER AND ARCHITECT.
- 3. THE ENGINEERED SHOP DRAWINGS AND SUBSTANTIATING STRUCTURAL CALCULATIONS SHALL BE PREPARED UNDER THE DIRECT SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF CALIFORNIA. THE ENGINEER WILL PLACE HIS SIGNATURE AND SEAL ON ALL TRUSS DRAWINGS AND CALCULATIONS.
- 4. THE PLANS INDICATE WHICH TRUSSES ARE REQUIRED TO RESIST AXIAL COMPRESSION AND TENSION FORCES ASSOCIATED WITH LATERAL LOADS GENERATED BY WIND OR EARTHQUAKE FORCES. THESE SPECIAL TRUSSES ARE DESIGNATED AS 'DRAG TRUSSES' ON THE PLANS AND HAVE THE MINIMUM AXIAL FORCES INDICATED.

DISTRIBUTED LOAD TO TOP CHORD = 17 PSF DEAD LOAD & 20 PSF ROOF LIVE LOAD DRAG FORCE (SEE PLAN FOR LOAD) DISTRIBUTED LOAD TO BOTTOM CHORD = 6.0 PSF DEAD LOAD & 20 PSF LIVE LOAD (STANDARD TRUSS) = 6.0 PSF DEAD LOAD & 40 PSF LIVE LOAD (ATTIC TRUSS)

> DEFLECTIONS OF ROOF TRUSSES SHALL BE LIMITED TO L/360 LIVE LOAD & L/240 TOTAL LOAD



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No.	Date	Description

Issue Date:

01/30/2025 BKG Project No.:

24187

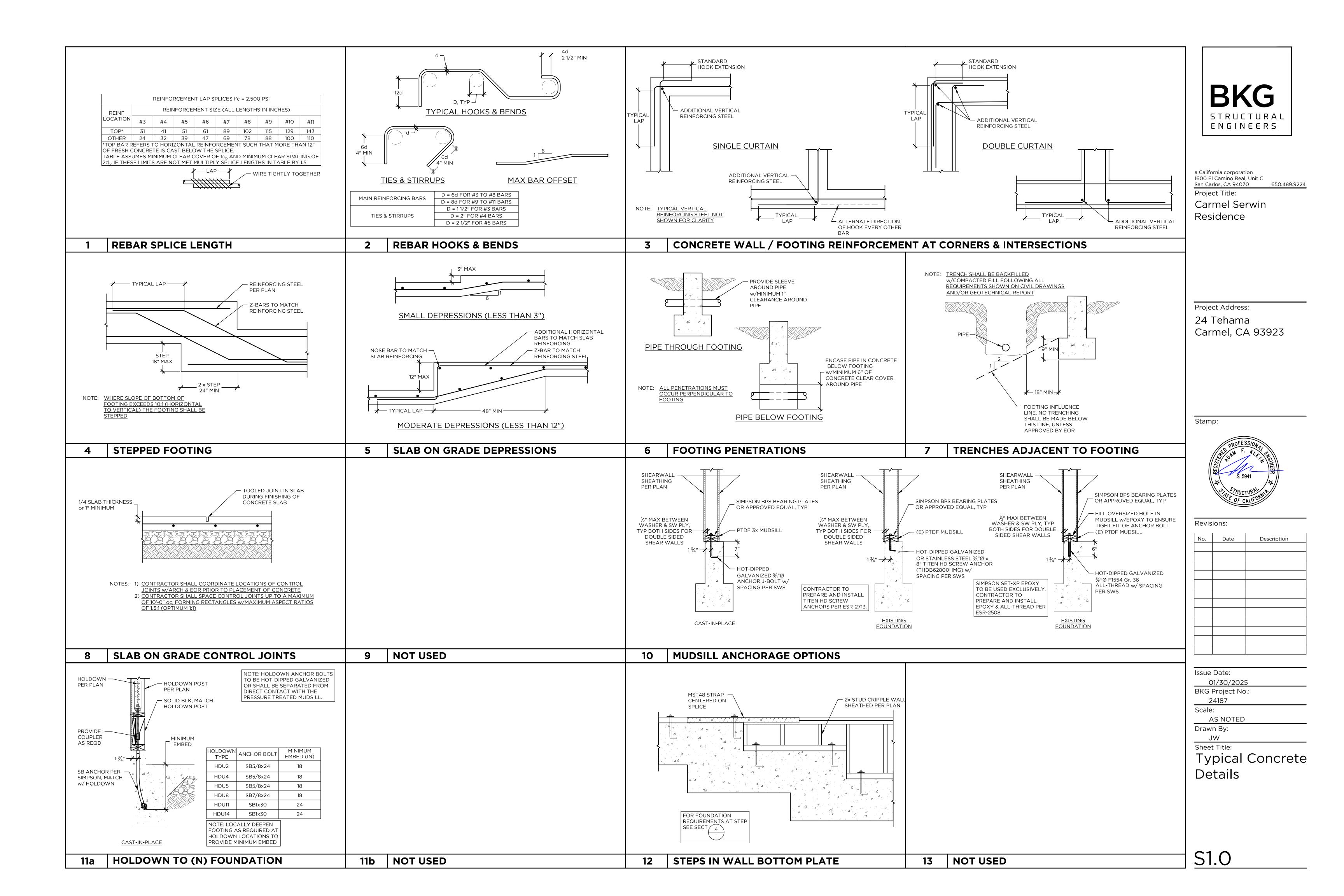
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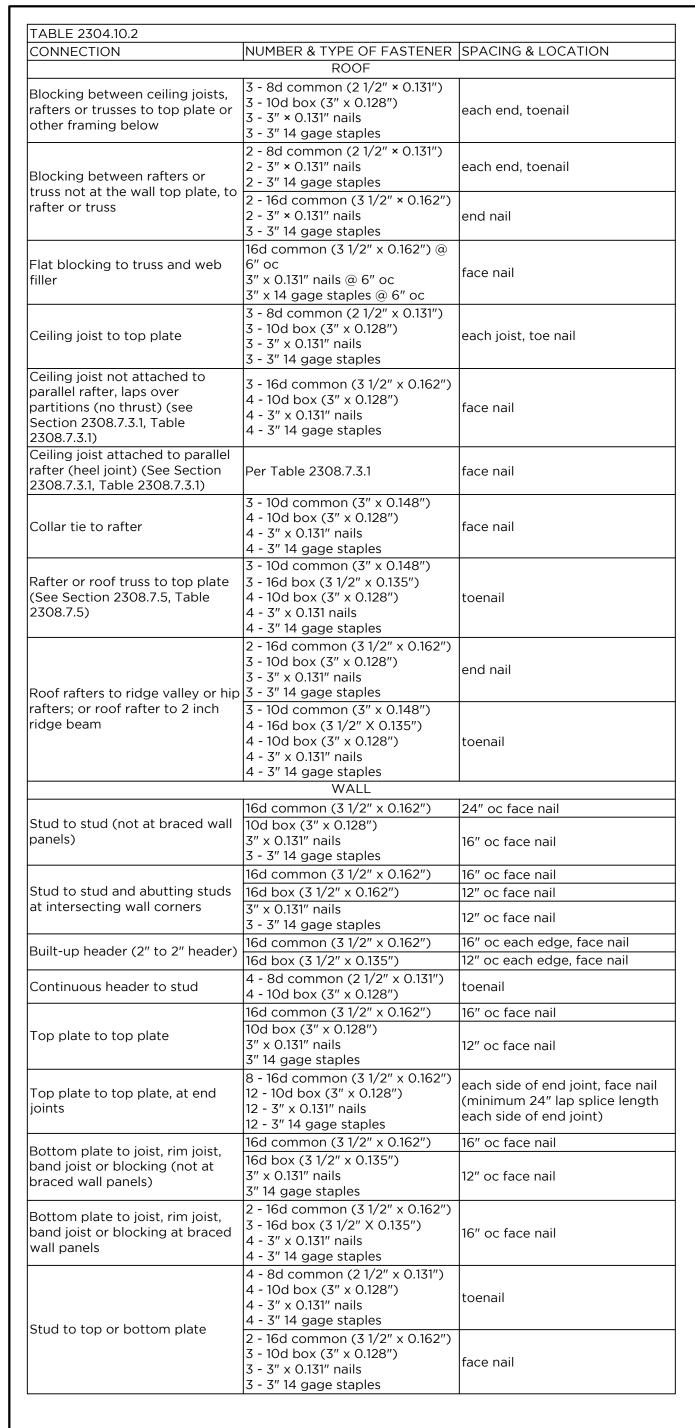
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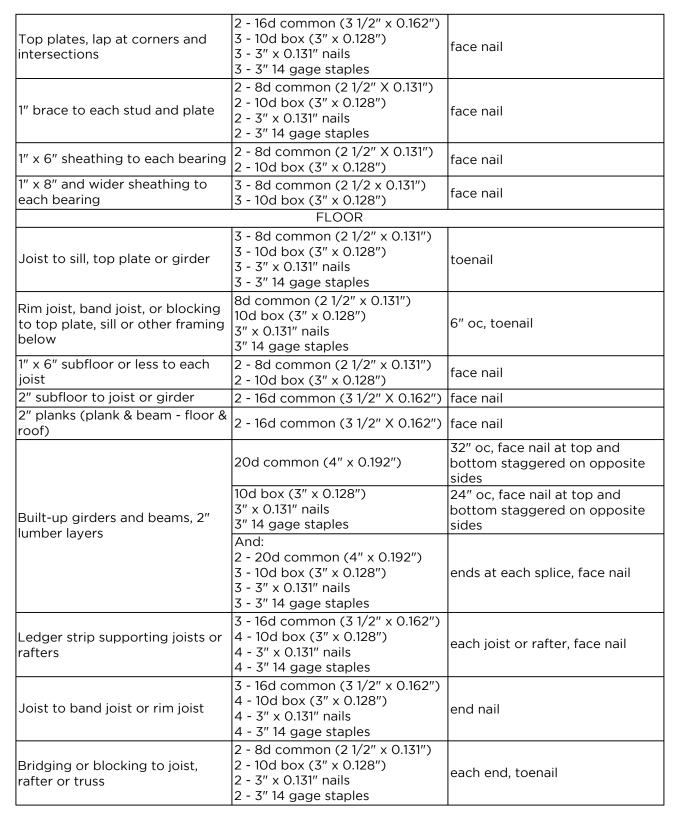
JW Sheet Title:

General Notes

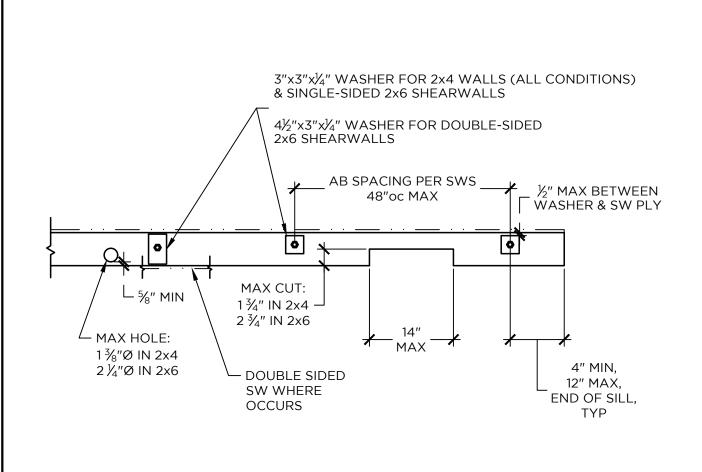
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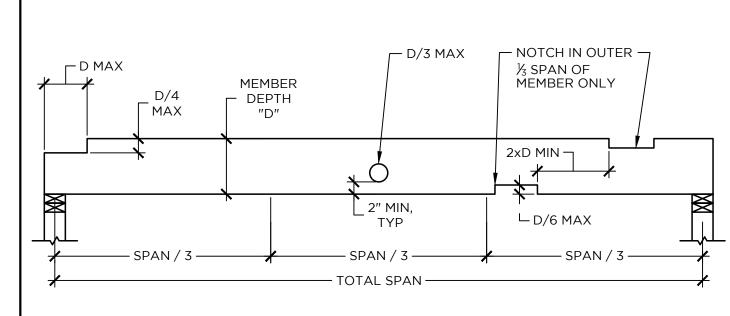


NOTE: BKG DETAILS & NOTES SUPERSEDE CONVENTIONAL FRAMING FASTENING SCHEDULE.



| MUDSILL ANCHORAGE & ALLOWABLE CUTS

ALLOWABLE TOP PLATE & STUD NOTCHES



NOTES: 1) DO NOT BORE HOLES IN 4x AND LARGER BEAMS WITHOUT STRUCTURAL ENGINEERS APPROVAL 2) THIS DETAIL DOESN'T APPLY TO MANUFACTURED LUMBER (PSL LSL, LVL, ETC) 3) THIS DETAIL DOESN'T APPLY TO MANUFACTURED JOISTS (TJI, BCI,

ALLOWABLE RAFTER & JOIST CUTS



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No.	Date	Description

Issue Date: 01/30/2025 BKG Project No.: 24187 Scale: AS NOTED Drawn By: JW

Sheet Title: Typical Wood Details

NOTE: DO NOT NOTCH OR DRILL STRUCTURAL POSTS WITHOUT APPROVAL FROM STRUCTURAL ENGINEER - UPPER TOP PLATE OF 1%"Ø IN 2x4 − 4 ½" MAX TRANSVERSE WALL CONTINUE TOP PLATES OR STUDS 2 ¼"Ø IN 2x6 TO OUTSIDE FACE 4'-0" MIN MAX 25% OF DEPTH - DOUBLE ALL STUDS └ ½" MIN TALLER THAN 9'-0" SIMPSON CTS218-24 - 16d NAILS 24 - 16d NAILS COMPRESSION - SIMPSON CTS218 TOP PLATES STAGGERED EA STAGGERED EA STRAP EACH COMPRESSION STRAP EACH SIDE OF ALL FACE OF TOP FACE OF TOP PLATES AT SPLICE LOCATIONS SPLICE LOCATIONS PLATES AT BREAKS BREAKS 8'-6" MIN LAP SPLICE AT INTERSECTION — -4 ½" MAX - 4 ½" MAX

6 - 16d NAILS — KING TO KING TO KING TO KING TO **HEADER HEADER** HEADER **HEADER** A34/A35 CLIPS T&B 2 - KING-1 - KING-3 - KING— 3 - KING-STUDS STUDS STUDS STUDS HEADER - HEADER - HEADER – HEADER - ACE CAP LTP4 EACH NAILING PER -NAILING PER **NAILING PER** NAILING PER -EACH SIDE SIDE **FASTENER** FASTENER **FASTENER FASTENER** SCHEDULE SCHEDULE SCHEDULE SCHEDULE — 4x4 JACK 4x4 JACK - JACK STUD JACK STUD POST POST HEADER SPAN ___ HEADER SPAN ___ HEADER SPAN ___ HEADER SPAN ___ 10' to 12' 8' to 10' 5' to 8' 2' to 5'

- PERPENDICULAR WALL UPPER TOP PLATE TO 24 - 16d NAILS STAGGERED EA SIDE OUTSIDE CORNER OF ALL SPLICE LOCATIONS 24 - 16d NAILS ★── STAGGERED EA SIDE ──

★ NAILS OF ALL SPLICES SPLICE-– PARALLĖL WALL LOWER TOP PLATE TO OUT SIDE CORNER |

NOTES: 1) WHERE 4'-0" TOP PLATE LAP SPLICE NOT POSSIBLE, OKAY TO USE CS14x36 STRAPS ON EACH FACE OF SPLICES

TYPICAL WALL TOP PLATE SPLICE

PLATE LAP AT CORNERS & INTERSECTIONS

HEADER OPENINGS

STRAP SCHEDULE MIN.

(WHERE FRAMING REQ'D) (3)-A35 1. ALL STRAPS SHALL BE INSTALLED PER MANUFACTURE'S CMSTC16 (2)-2x (10)-A35 SPECIFICATIONS. CMST14 2. FOR COIL STRAPS, SEE PLAN FOR LENGTH. 3. DEVELOPMENT LENGTHS PER MANUFACTURE. CMST12 4. SEE PLAN FOR INSTALLATION TYPE; RIDGE, PRE-NAILED, ETC. MSTA36 2x

PER MANUF,

TYP

FASTENING SCHEDULE

COLLECTOR PER PLAN w/

EN & 3" MIN BEARING SEAT

SIMPSON STRAP, SEE

PLAN, DADO BEAM AS

REQ'D, MAX ¼"

SHEARWALL

SEE PLAN

(15)-A35 (20)-A35 (5)-A35 MST48 (12)-A35 (2)-2x MST60 (15)-A35 MST72 4x (15)-A35 CONTRACTOR MAY USE LTP4 CLIPS IN LIEU OF A35 CLIPS, SAME AMOUNT

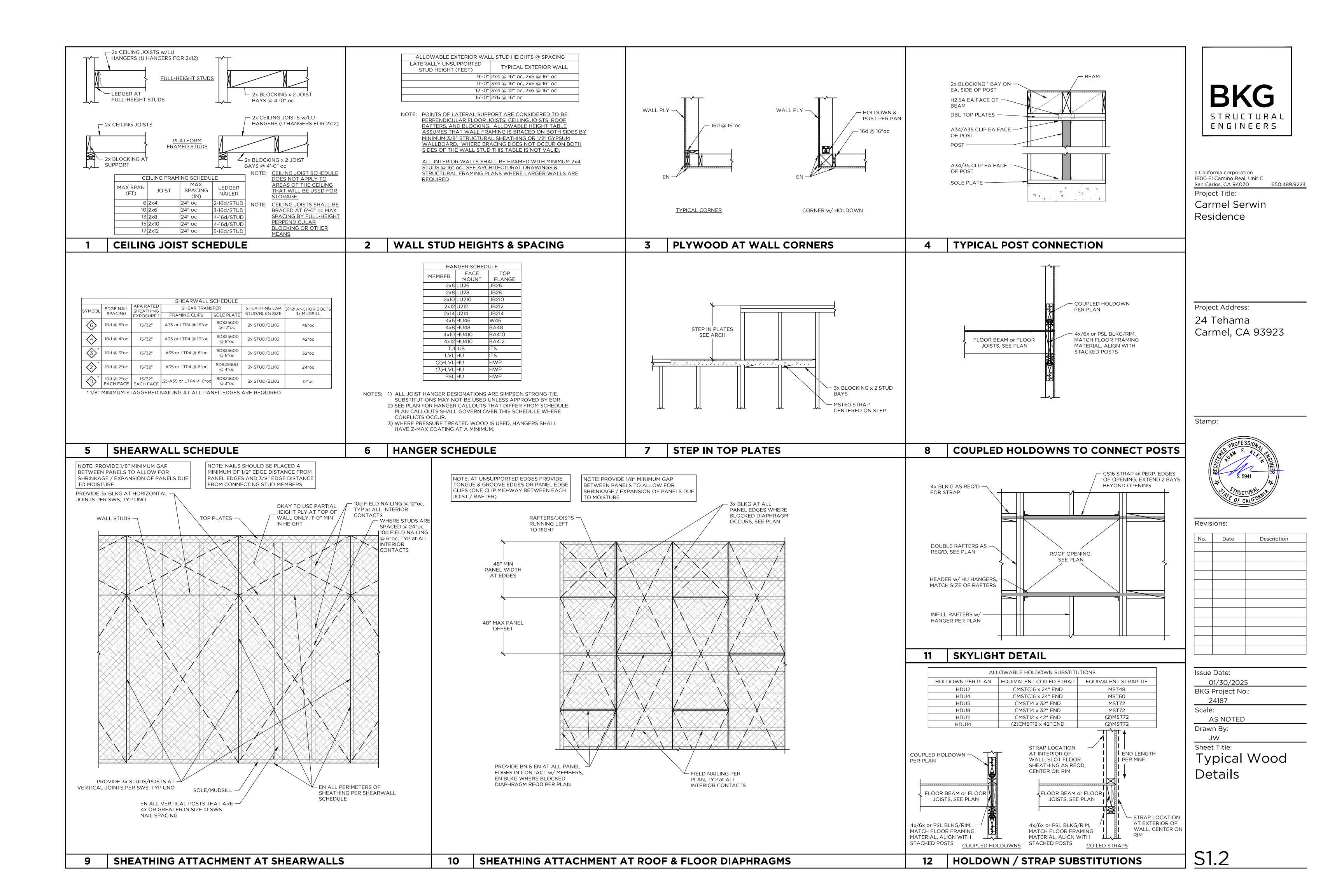
TO BE USED FLOOR JOISTS - 4x FULL DEPTH **BLOCKING AT** STRAP - WALL FRAMING PER PLAN TOP PLATES PRE-NAIL STRAP TO TOP PLATES, THEN NAIL STRAP

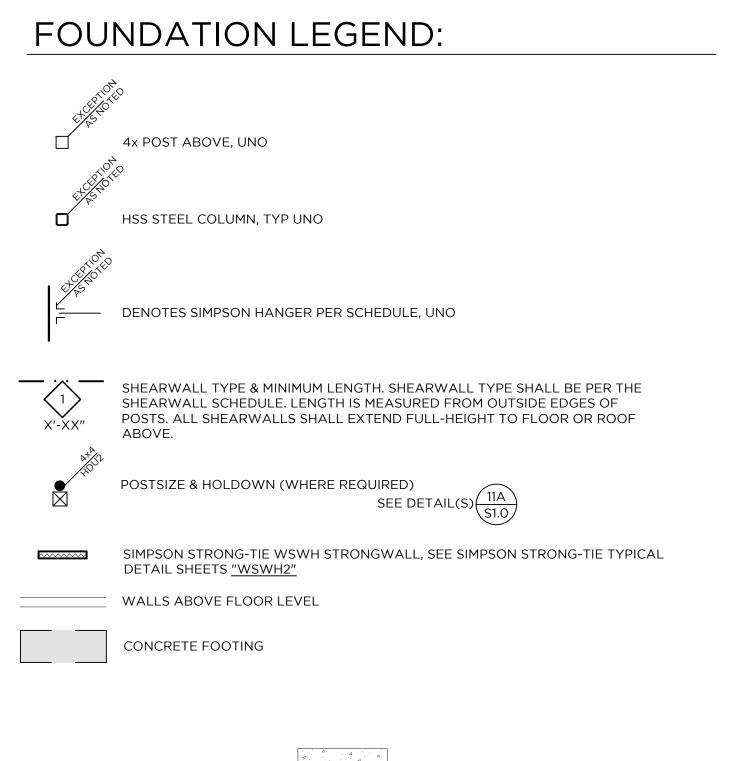
TO UNDERSIDE OF BLOCKING

SIMPSON STRAP, SEE PLAN, CENTERED ON COLLECTOR/ RIM CONNECTION - CLIPS TO TOP PLATES, COLLECTOR PER PLAN w/ SEE SCHEDULE EN & 3" MIN BEARING SEAT SHEARWALL, SEE PLAN FACE STRAP (FS)

SIMPSON STRAP, SEE -PER MANUF, PLAN, DADO PLYWD TYP AS REQ'D, MAX 1/4" - CLIPS TO TOP PLATES, SEE SCHEDULE WHERE COLLECTOR DOES NOT OCCUR, PROVIDE 4x4 BLK'G COLLECTOR PER PLAN w/ BETWEEN RAFTERS/JOISTS EN & 3" MIN BEARING SEAT SHEARWALL SEE PLAN

— BEAM PER PLAN SIMPSON STRAP, SEE — PLAN, DADO PLYWD PER MANUF, PER MANUF, AS REQ'D, MAX ¼" COLLECTOR PER PLAN -TOP STRAP (TS) TOP STRAP (TS)

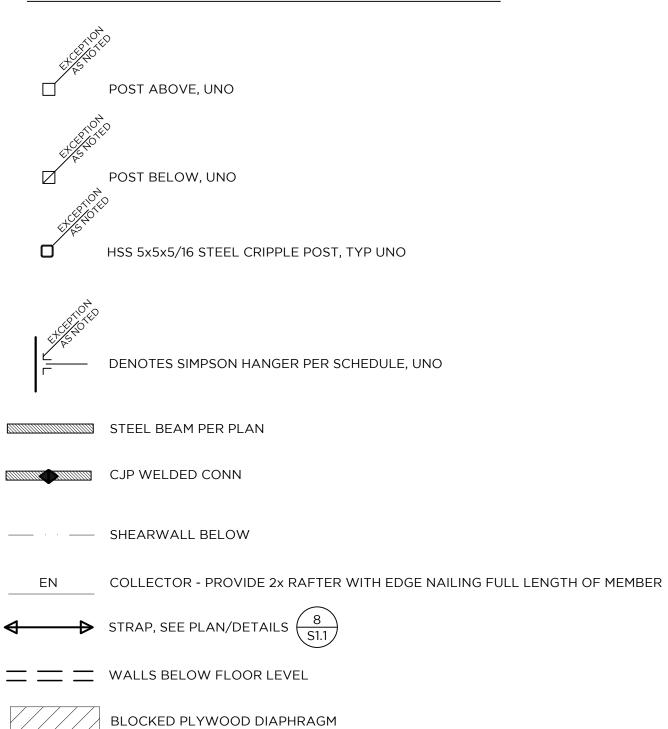


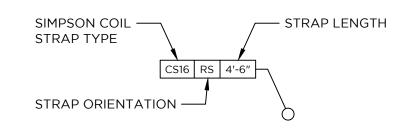


1. ALL <u>EXTERIOR</u> CONCRETE SLABS (UNLESS NOTED OTHERWISE ON PLANS) SHALL BE:

- 5" SLAB ON GRADE w/ #4 BARS @ 16"oc EA WAY CENTERED IN SLAB
- o/ 12" OF ENGINEERED FILL OR ENTIRELY CUT ON FIRM NATIVE SOIL • o/8" OF SCARIFIED, MOISTURE CONDITIONED, AND COMPACTED SUBGRADE MATERIAL PER GEOTECH
- 2. ALL <u>INTERIOR</u> CONCRETE SLABS (UNLESS NOTED OTHERWISE ON PLANS) SHALL BE:
 - 5" SLAB ON GRADE w/ #4 BARS @ 16"oc EA WAY CENTERED IN SLAB
 - o/ 15-MIL STEGOWRAP VAPOR BARRIER BY OTHERS
 - o/ 4" MIN OF A FREE DRAINING GRANULAR MATERIAL MEETING REQUIREMENTS OF CALTRANS CLASS I CLASS A GRADATION
 - o/ 12" OF ENGINEERED FILL OR ENTIRELY CUT ON FIRM NATIVE SOIL • o/8" OF SCARIFIED, MOISTURE CONDITIONED, AND COMPACTED SUBGRADE MATERIAL PER GEOTECH

ROOF LEGEND:

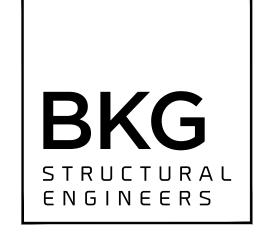




ROOF SHEATHING:

1. ALL ROOF SHEATHING SHALL BE 5/8" APA RATED SHEATHING EXPOSURE 1 (40/20 SPAN RATING) NAILED w/

- BOUNDARY/SUPPORTED EDGES: 10d @ 6" oc
- FIELD NAILING: 10d @ 12" oc



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Residence

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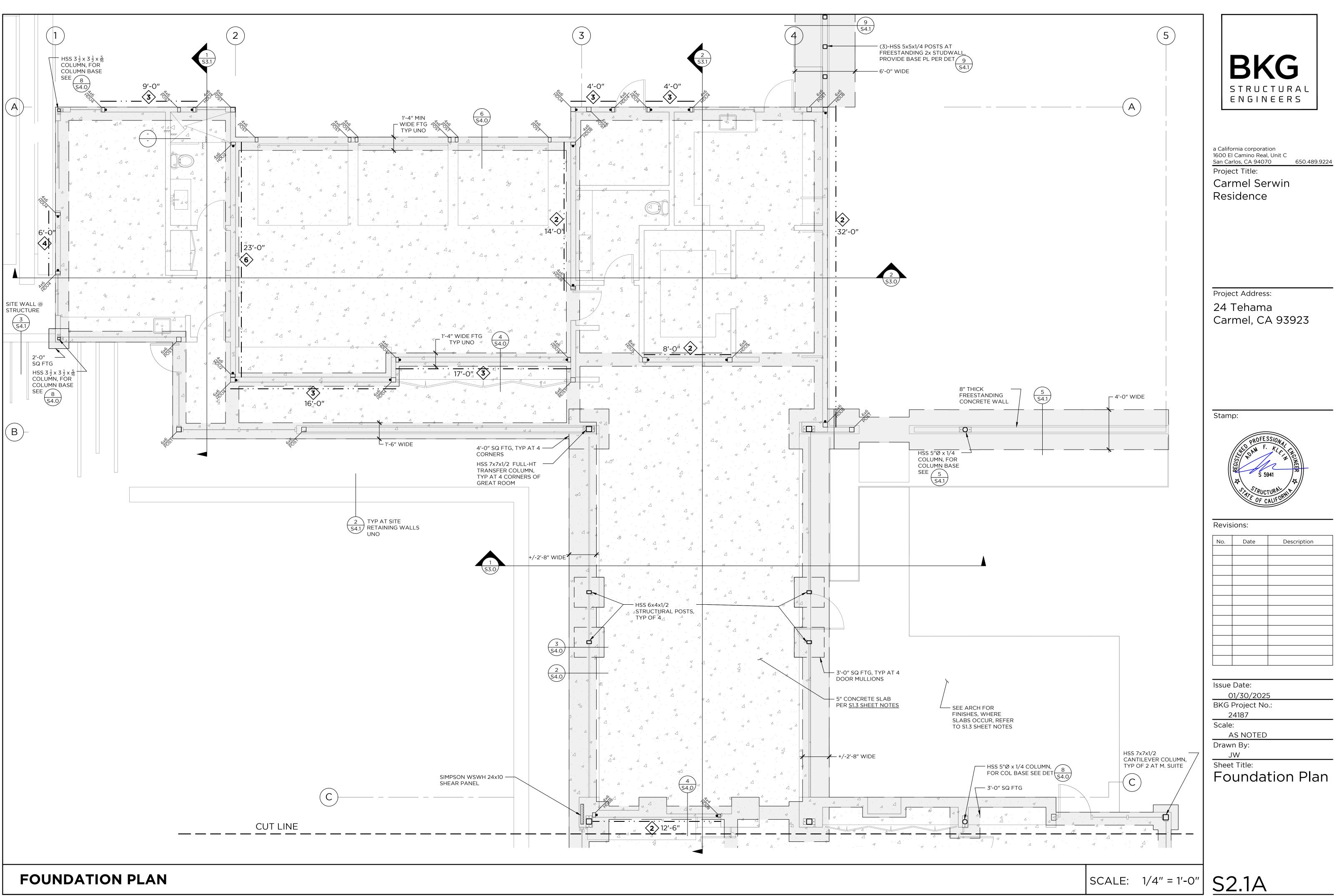


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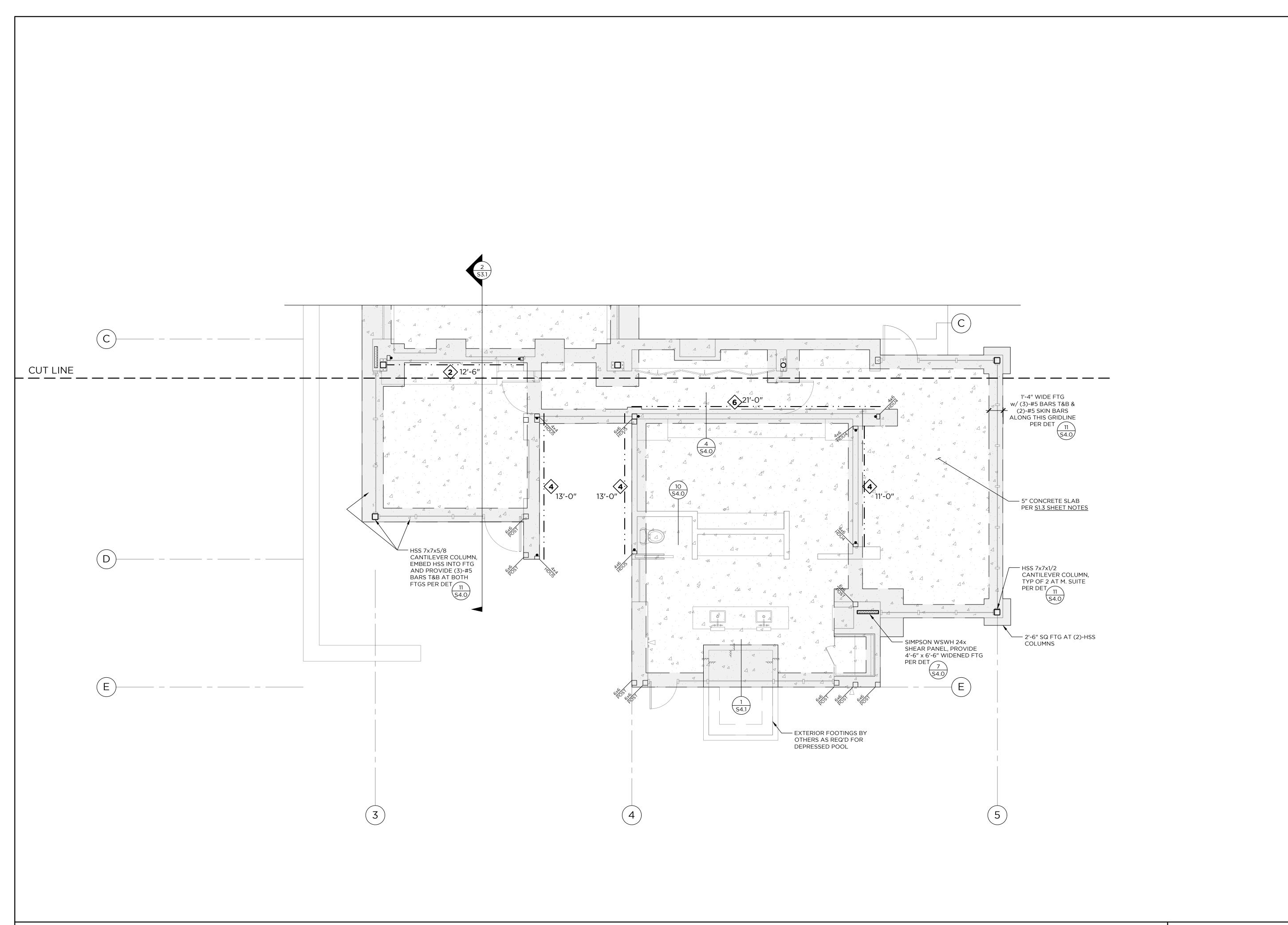
No.	Date	Description

Issue Date: 01/30/2025 BKG Project No.: 24187 Scale: AS NOTED Drawn By:

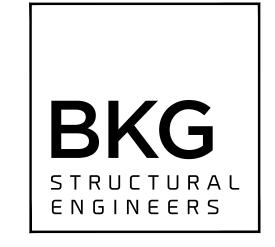
Sheet Title: Plan Notes & Legend



No.	Date	Description



FOUNDATION PLAN



a California corporation
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Project Address:

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Carmel, CA 93923

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BKG Project No.: 24187

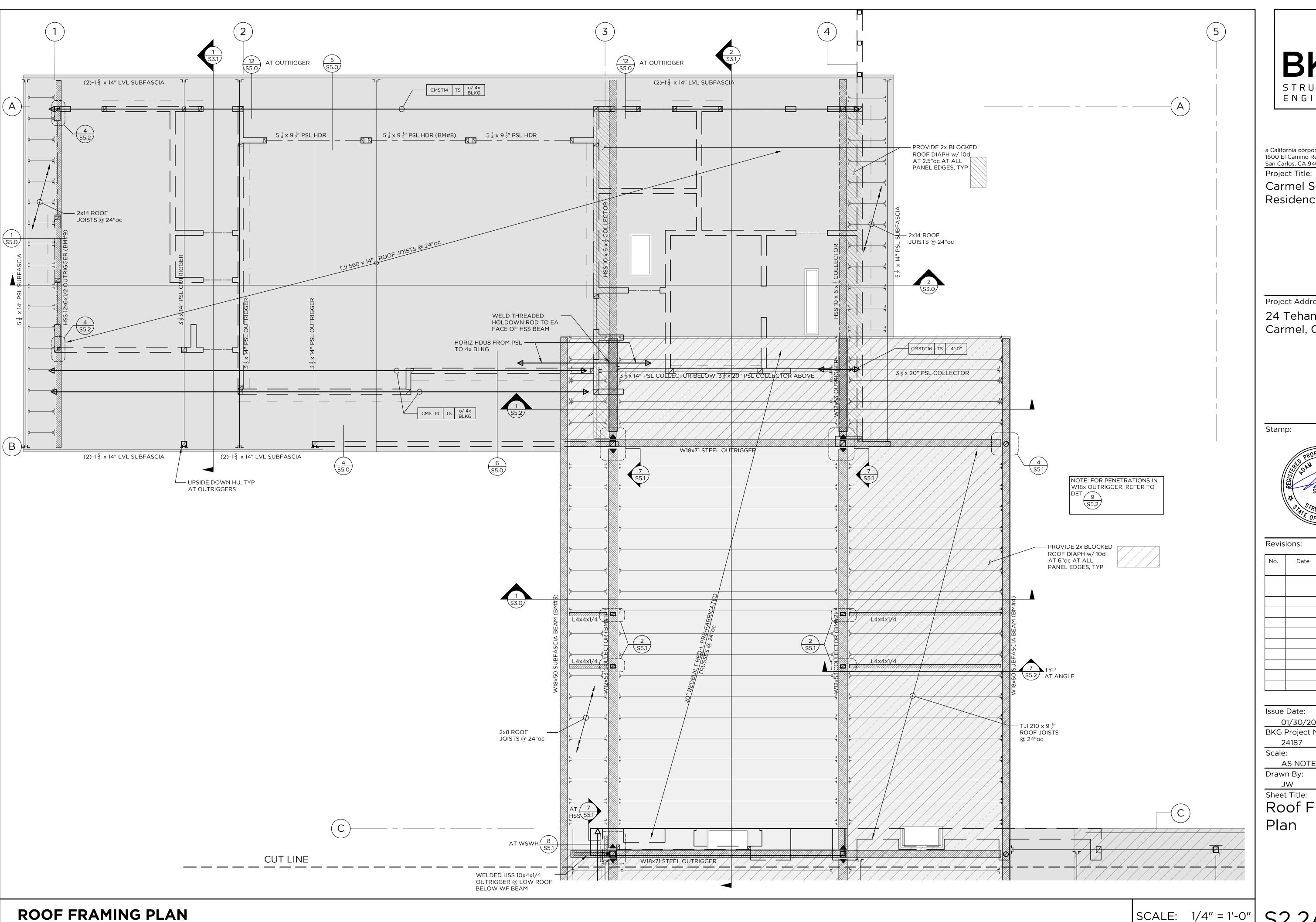
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AS NOTED

Drawn By:

JW Shoot Ti

Sheet Title:
Foundation Plan

SCALE: 1/4" = 1'-0" S2.1B





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No.	Date	Description

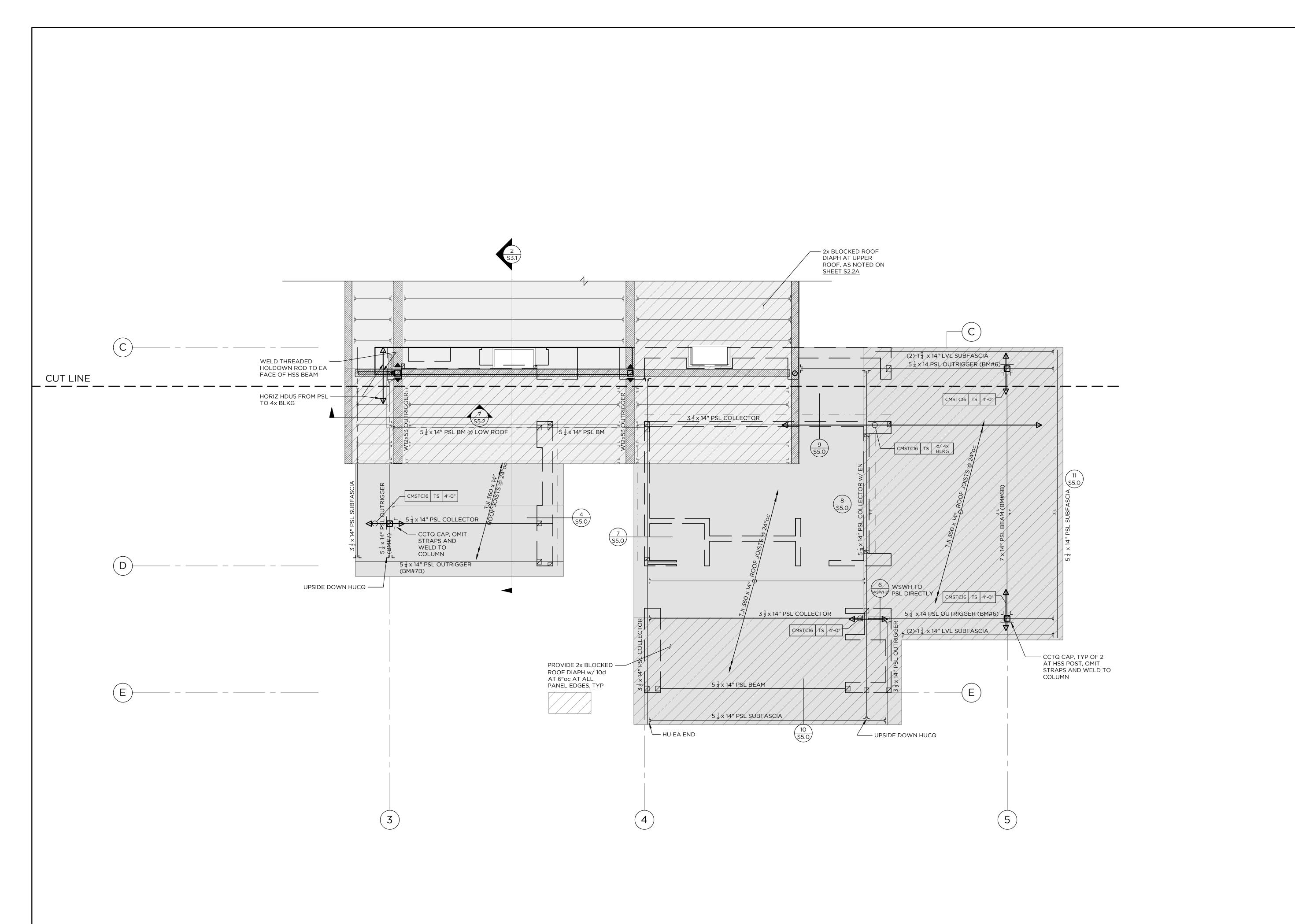
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24187 Scale:

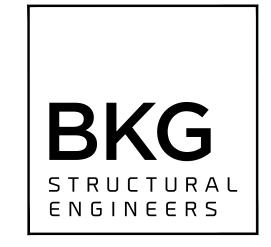
AS NOTED Drawn By:

Sheet Title:
Roof Framing Plan

SCALE: 1/4" = 1'-0" S2.2A



ROOF FRAMING PLAN



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Project Address:

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No.	Date	Description

Issue Date:
01/30/2025
BKG Project No.:
24187

Scale: AS NOTED

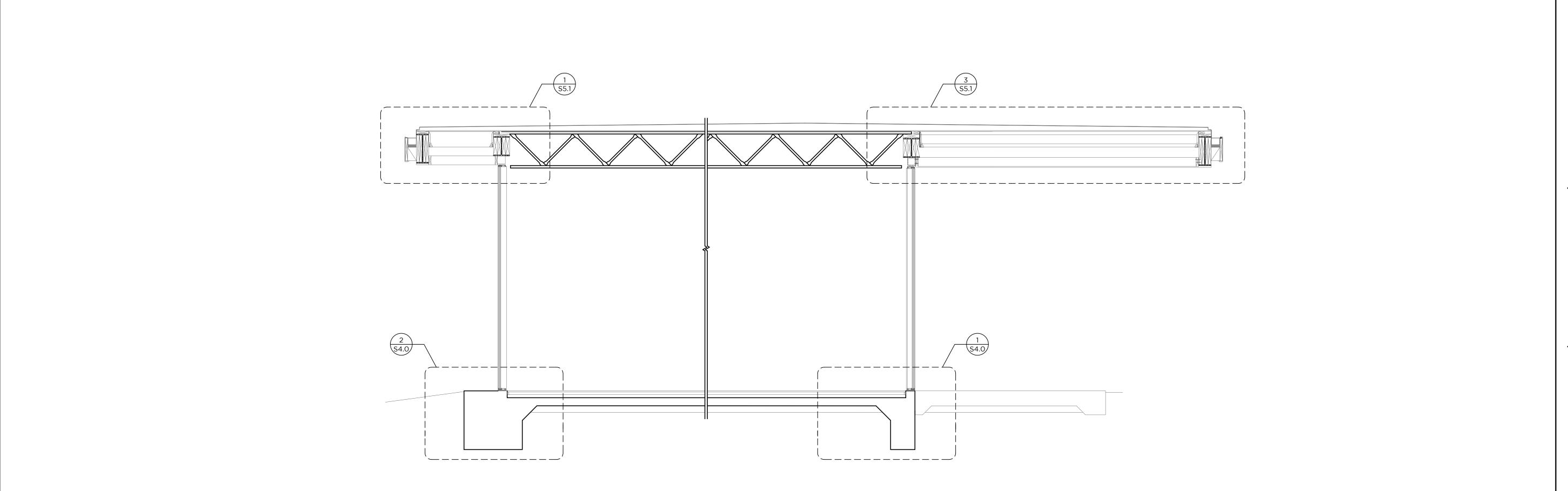
Drawn By:

Sheet Title:

Roof Framing Plan

SCALE: 1/4" = 1'-0"

S2.2B



SECTION THROUGH GREAT ROOM

1 S4.0

<u>4</u> <u>\$4.0</u>



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Revisions:

No.	Date	Description

Issue Date: 01/30/2025 BKG Project No.:

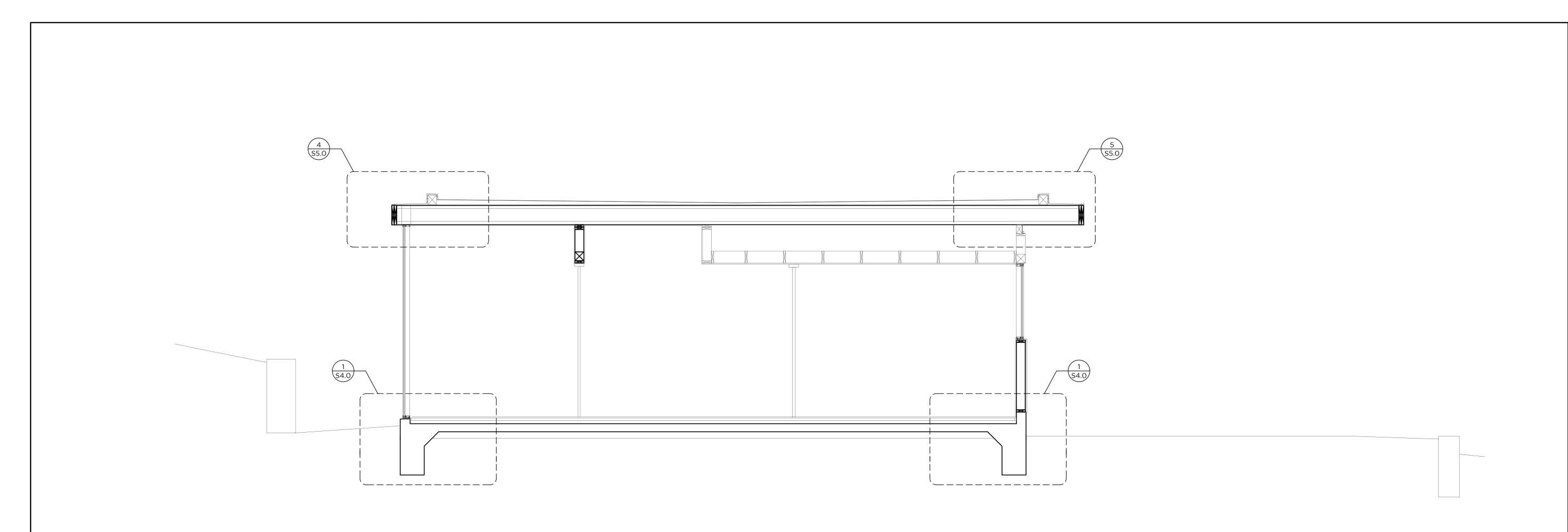
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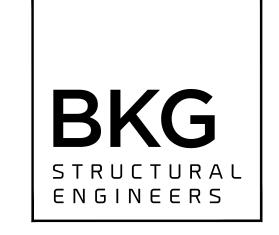
AS NOTED Drawn By:

Sheet Title:
Sections

<u>S3.0</u>

LONGITUDINAL SECTION THROUGH GARAGE





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No.	Date	Description

Issue Date:
01/30/2025
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24187 Scale:

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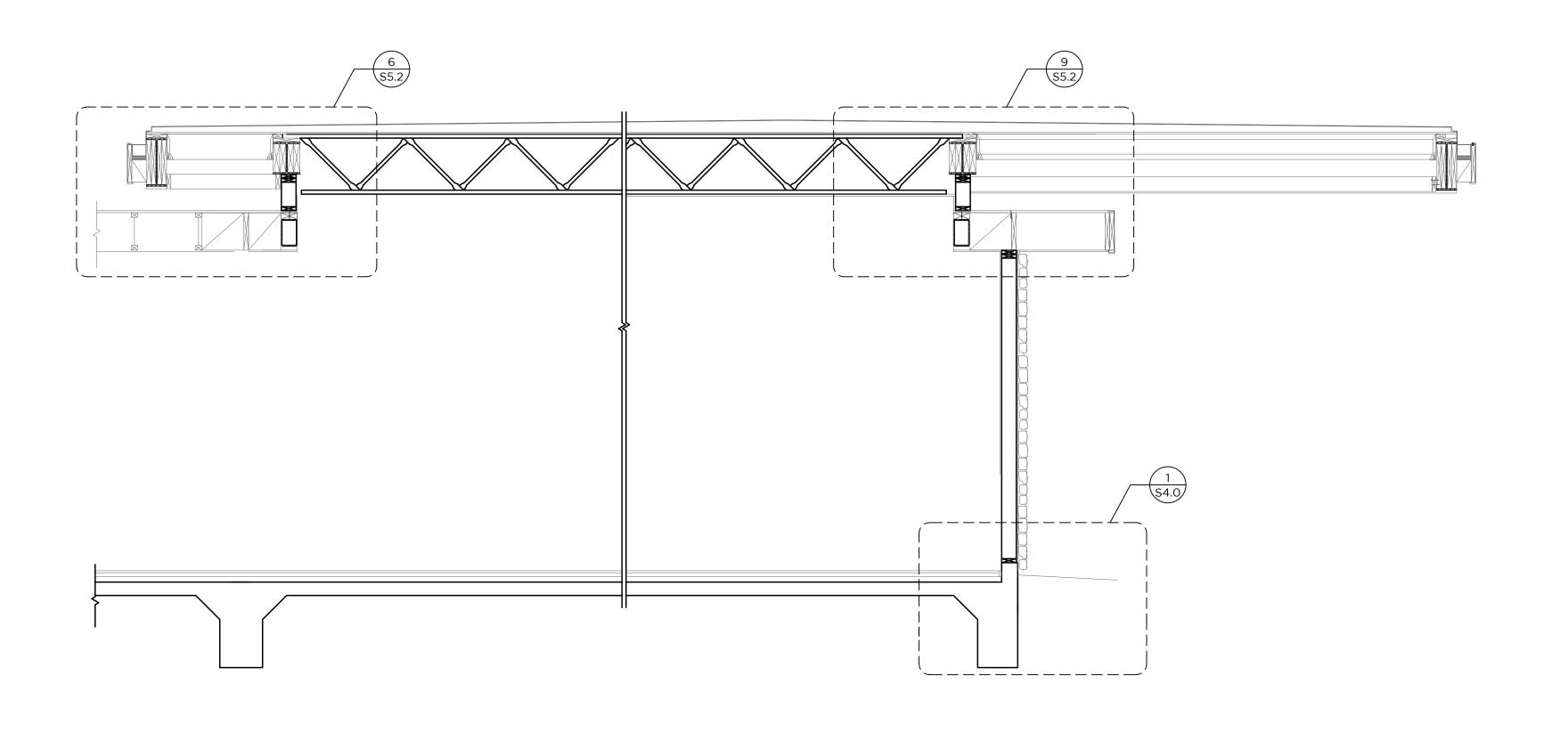
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Sections

2 LONGITUDINAL SECTION THROUGH GREAT ROOM

SECTION THROUGH GUEST SUITE

S5.1

<u>S3.1</u>



BKG STRUCTURAL ENGINEERS

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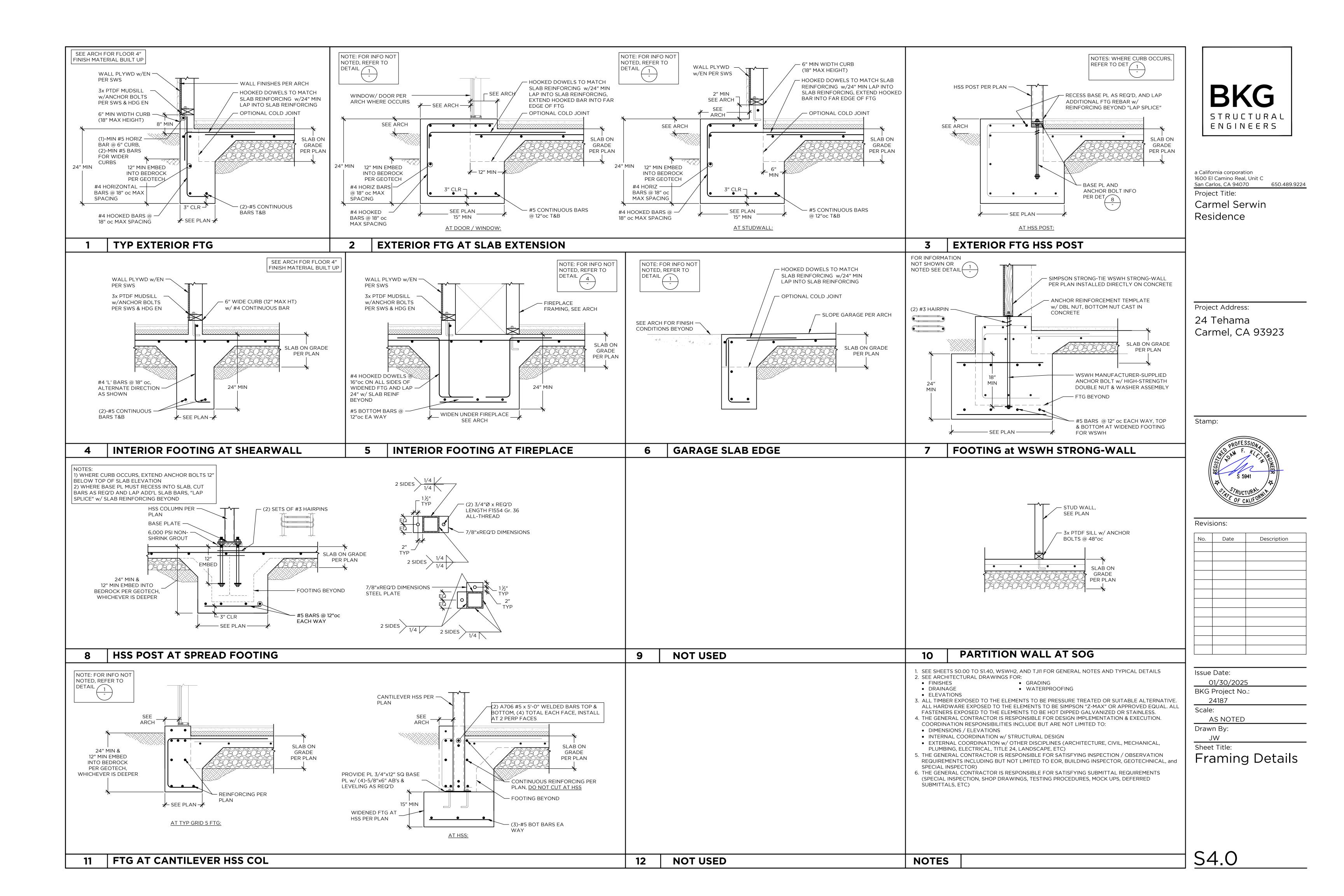
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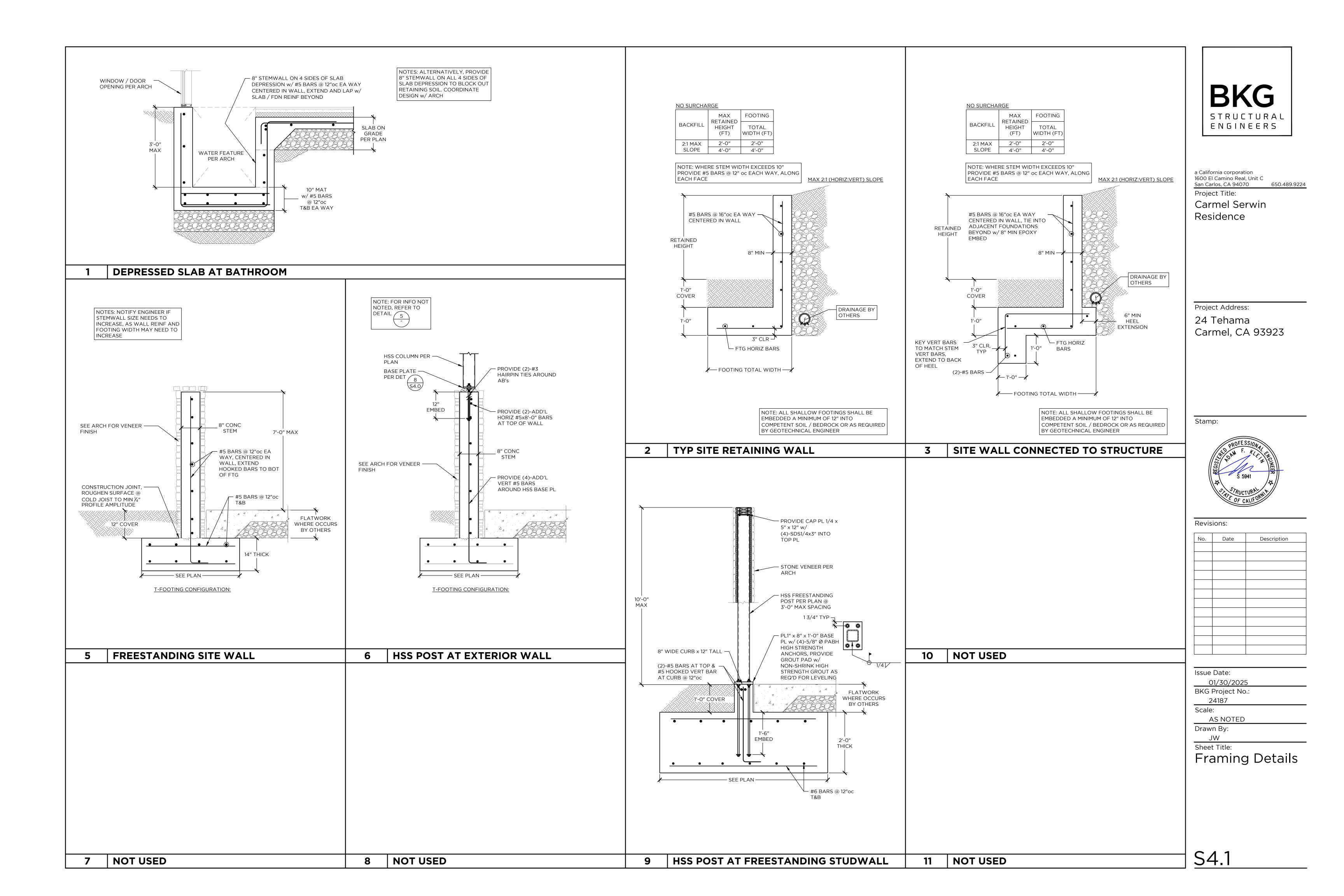
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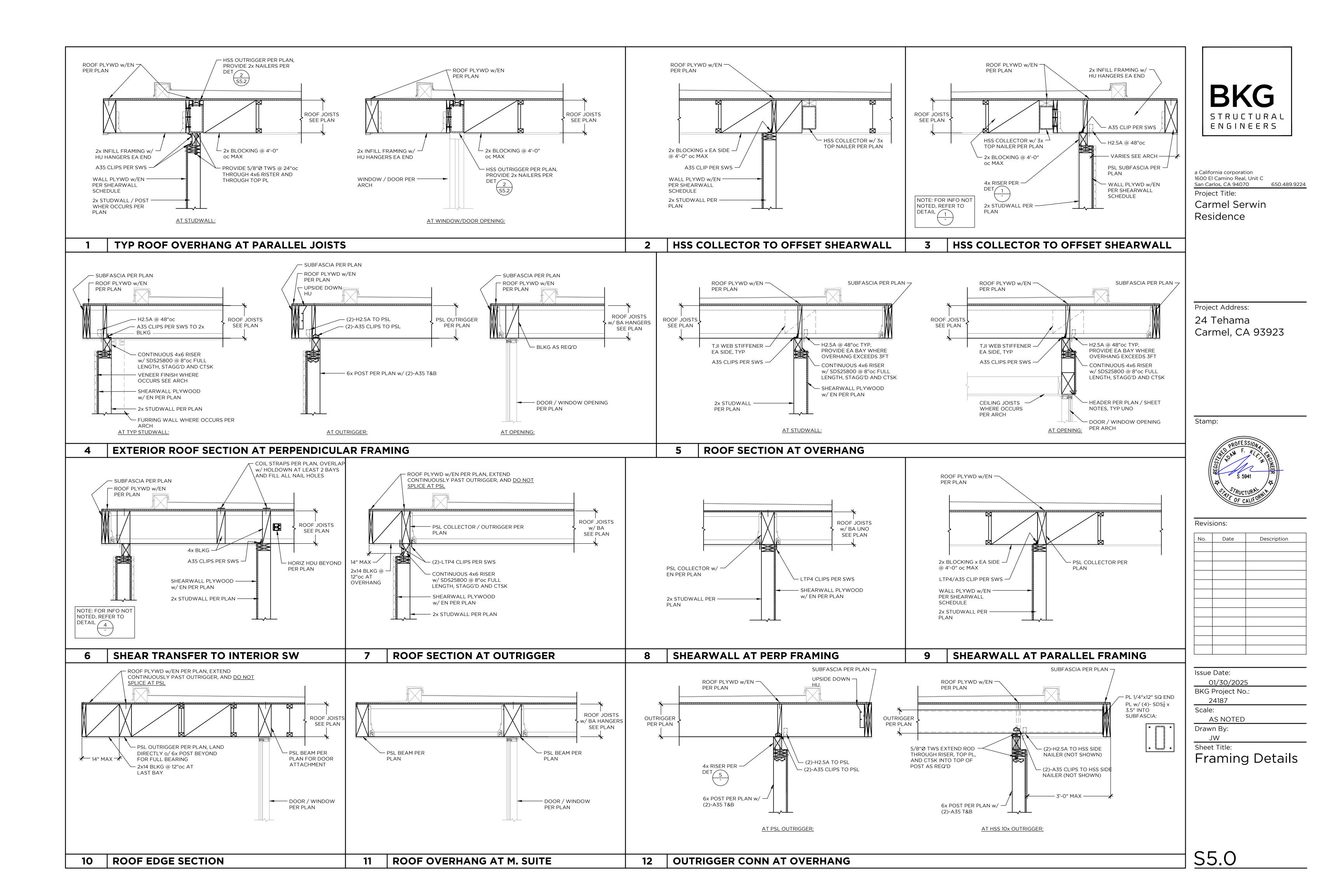
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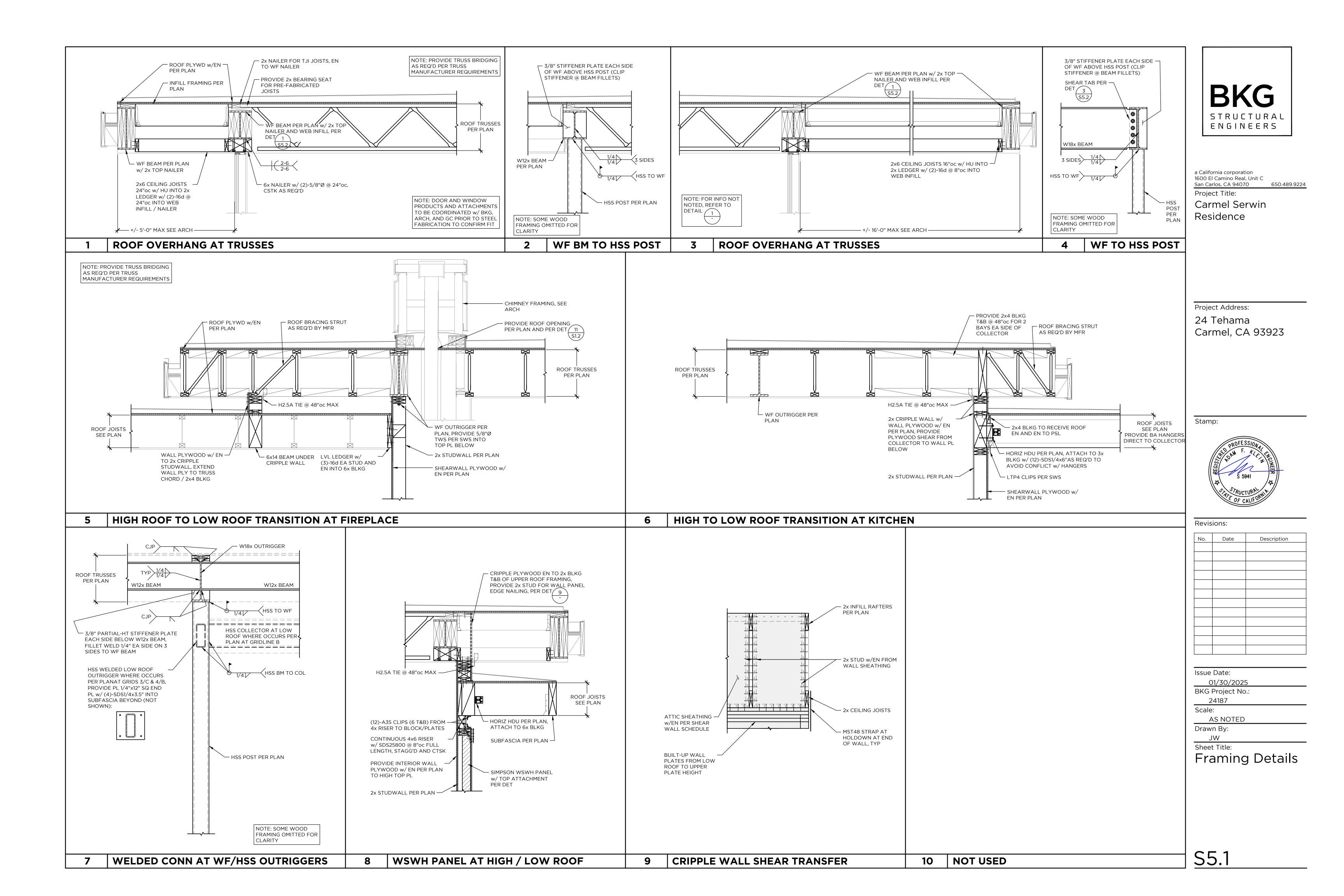
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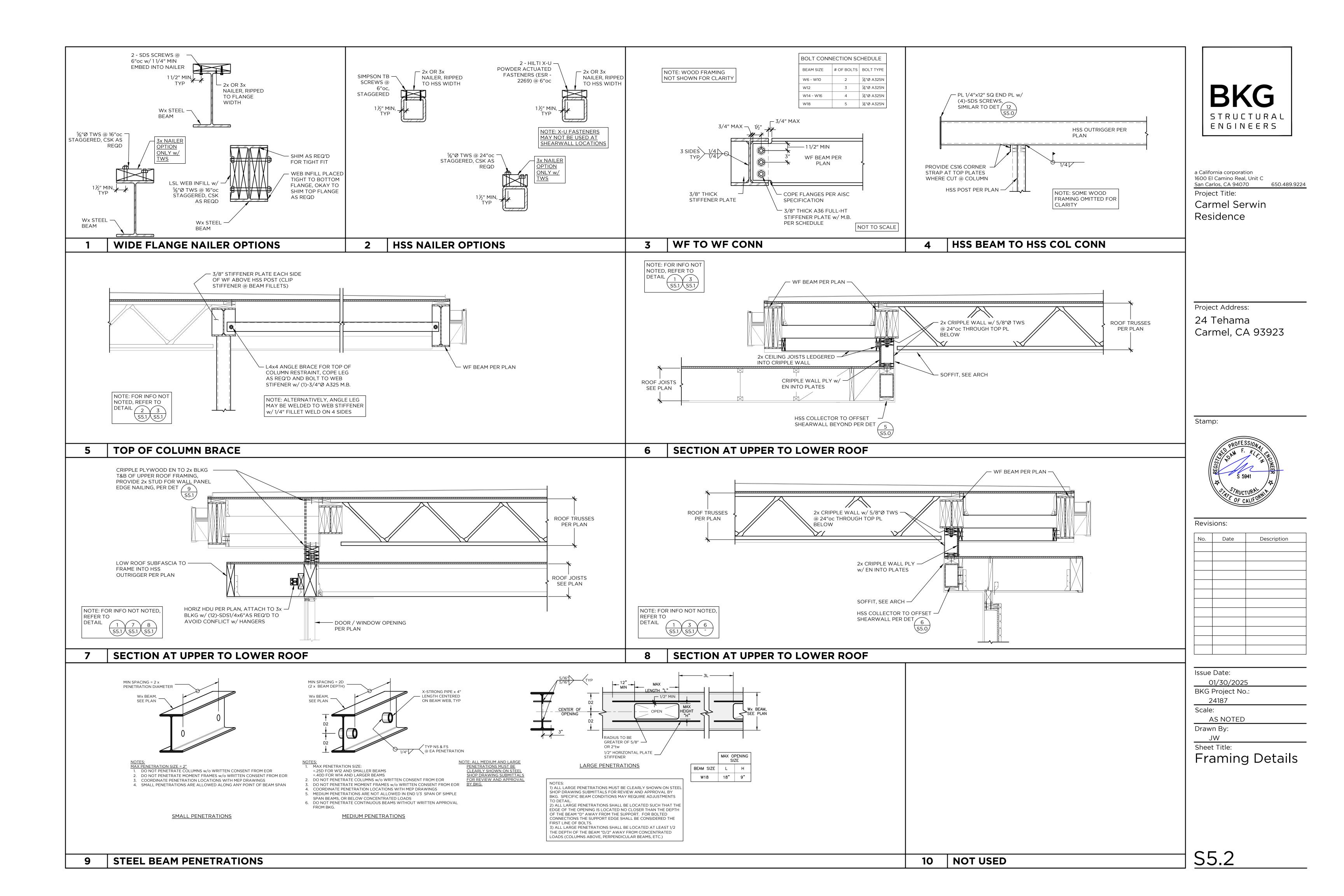
SECTION THROUGH KITCHEN

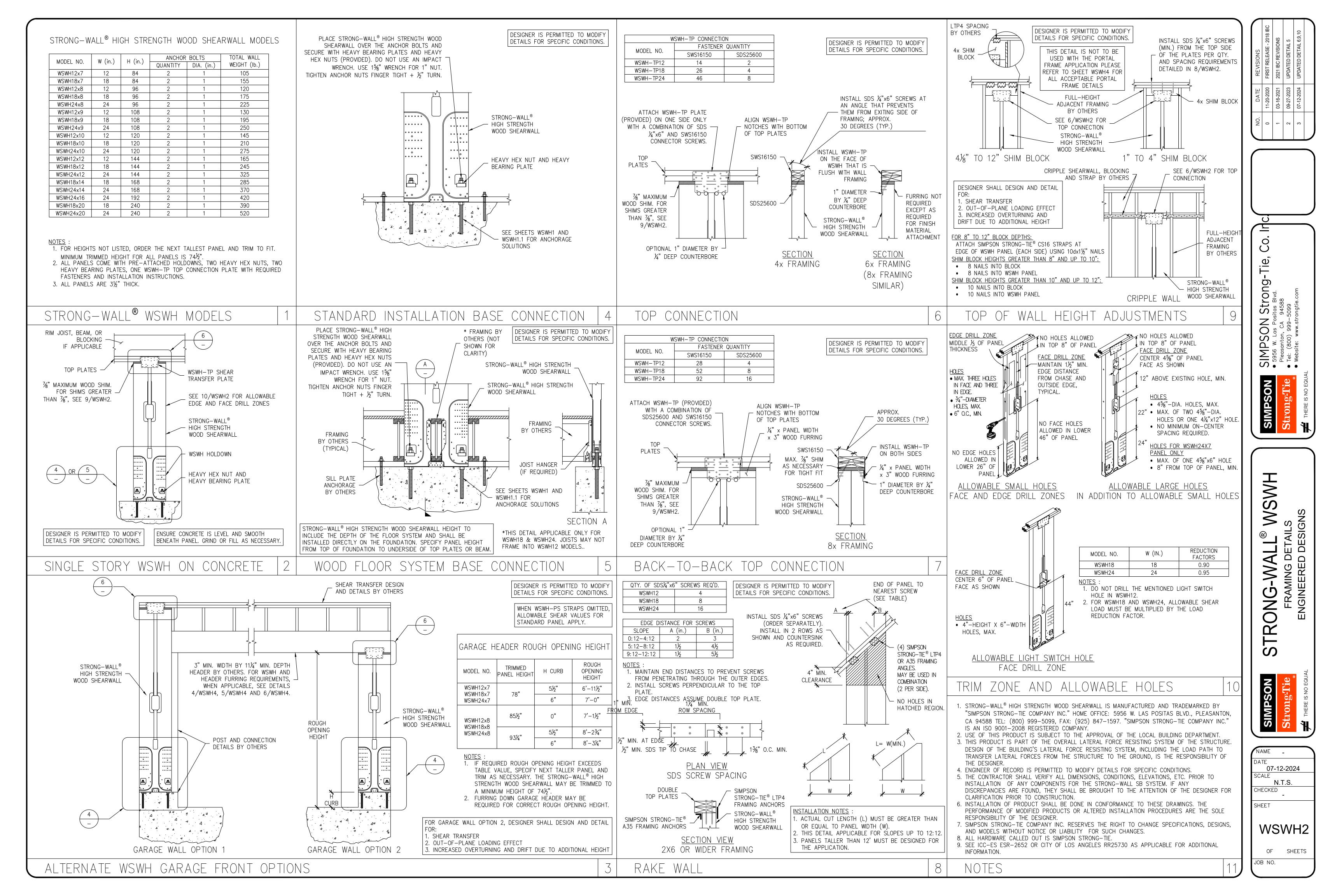




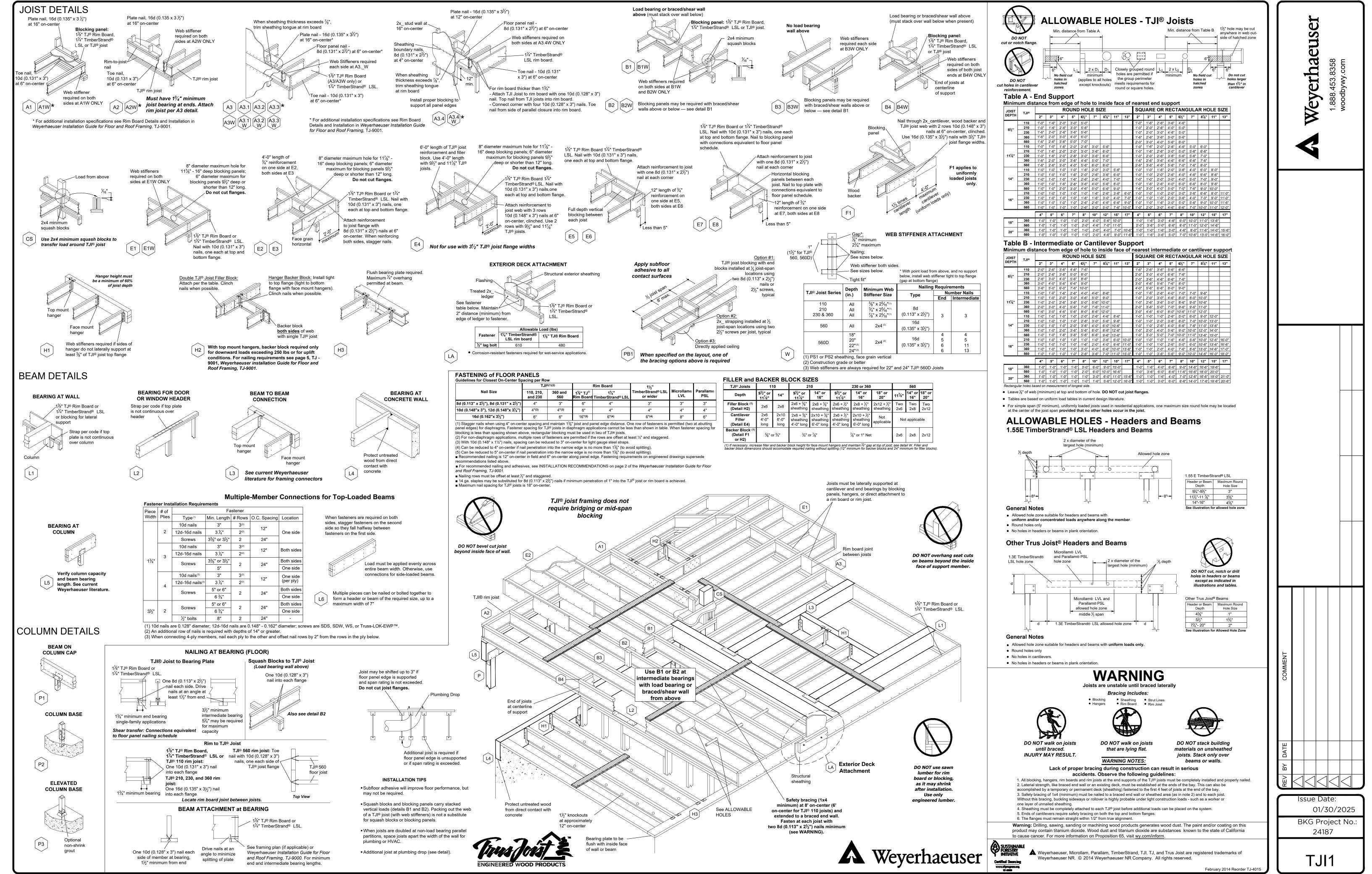


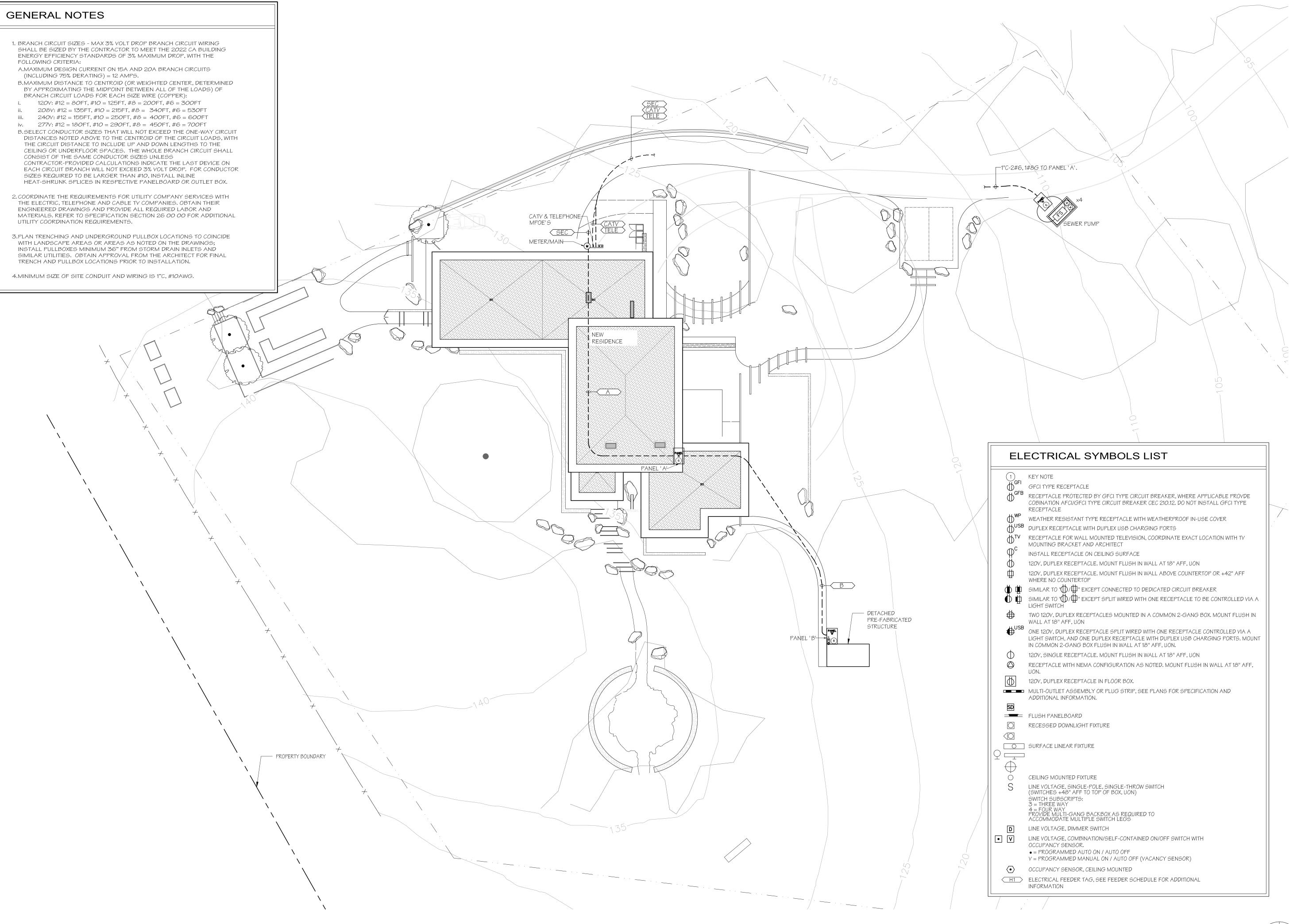






THINK SAFETY, READ INSTALLATION INFORMATION BEFORE PROCEEDING





1 fmjr

JUANCARLOS FERNANDEZ PROJECT DESIGNER

SIGNUM ARCHITECTURE, LLP 707 963 8831 1675 2nd St, Napa, CA 94559

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CARMEL SERWIN RESIDENCE

24 TEHAMACARMEL, CA 93923
APN 165-421-045

PROJECT NUMBER DATE CHECKED BY	23 [.] 08/23/2 JO
DRAWN BY	AV
SCALE	AS NOTE
REVISIONS	
DESIGN REVIEW STEP 2A/B	06/20/202
100% SCHEMATIC DESIGN	08/07/202
DESIGN REVIEW STEP 3	08/23/202
DESIGN REVIEW STEP 4	01/22/202

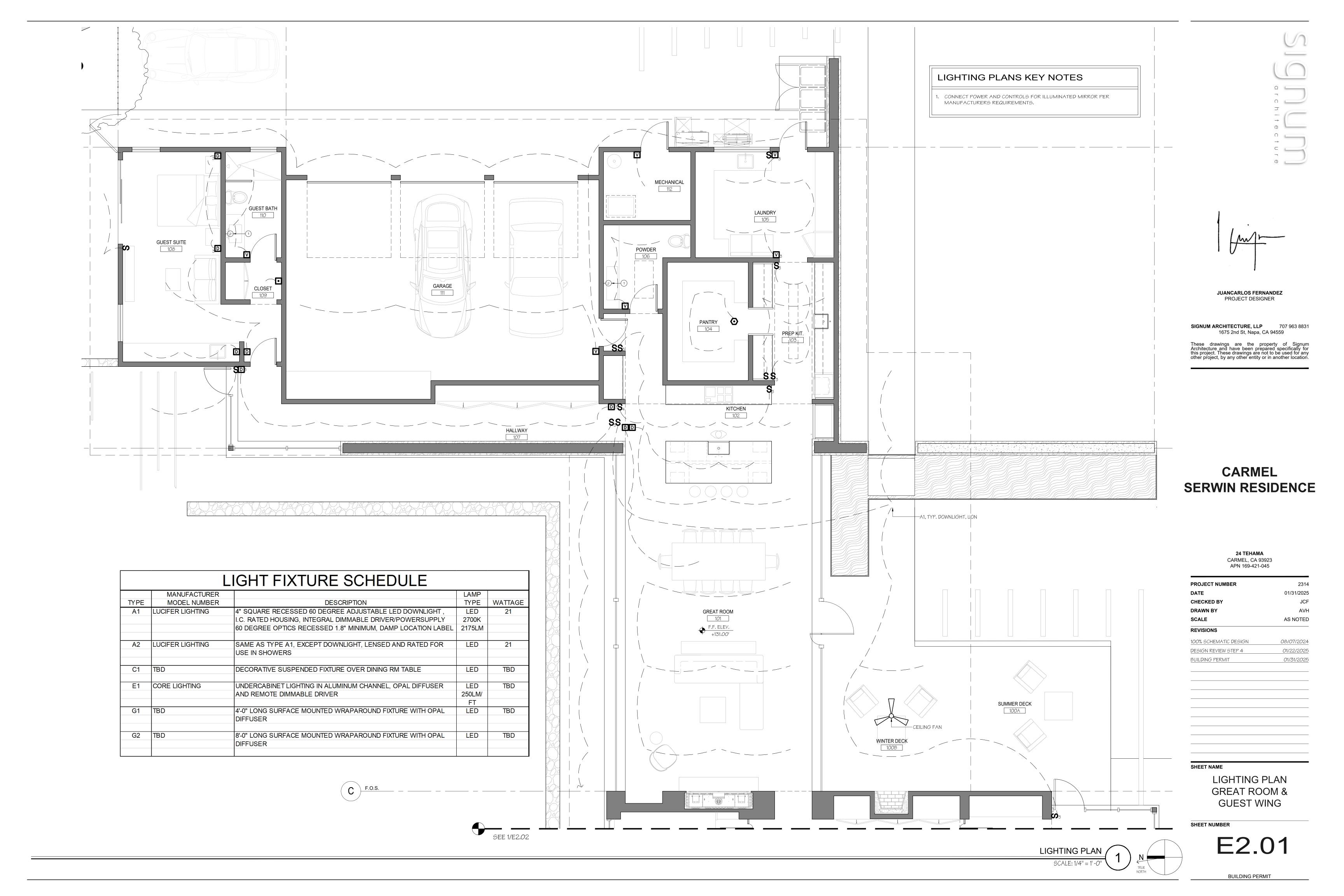
ELECTRIC SITE PLAN

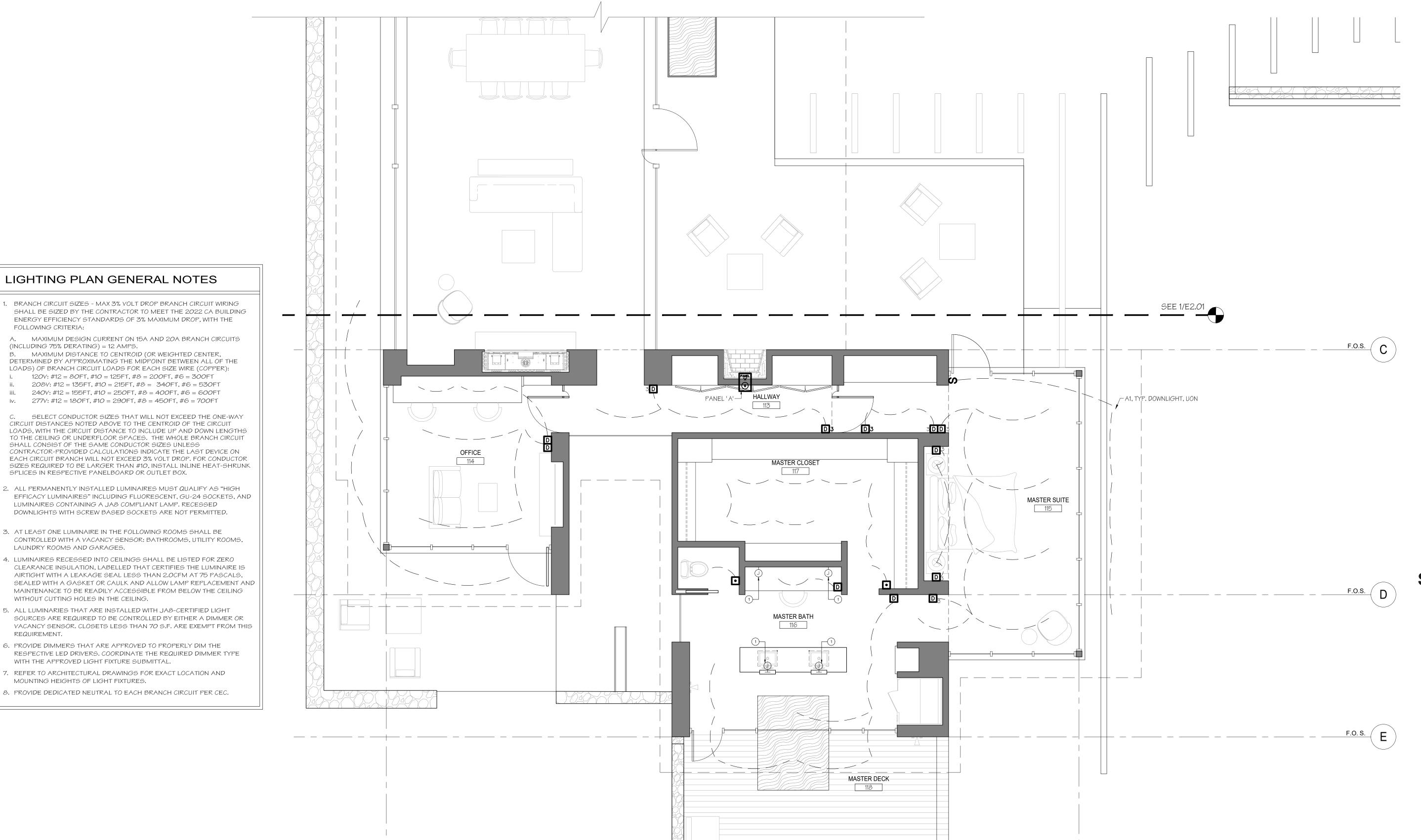
SHEET NUMBER

ELECTRIC SITE PLAN

E1.01

DESIGN REVIEW





1 fmj

JUANCARLOS FERNANDEZ
PROJECT DESIGNER

SIGNUM ARCHITECTURE, LLP 707 963 8831 1675 2nd St, Napa, CA 94559

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CARMEL SERWIN RESIDENCE

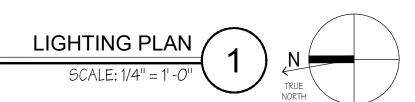
24 TEHAMACARMEL, CA 93923
APN 169-421-045

PROJECT NUMBER	2314
DATE	01/31/2025
CHECKED BY	JCF
DRAWN BY	AVH
SCALE	AS NOTED
REVISIONS	
100% SCHEMATIC DESIGN	08/07/2024
DESIGN REVIEW STEP 4	01/22/2025
BUILDING PERMIT	01/31/2025

LIGHTING PLAN MASTER WING

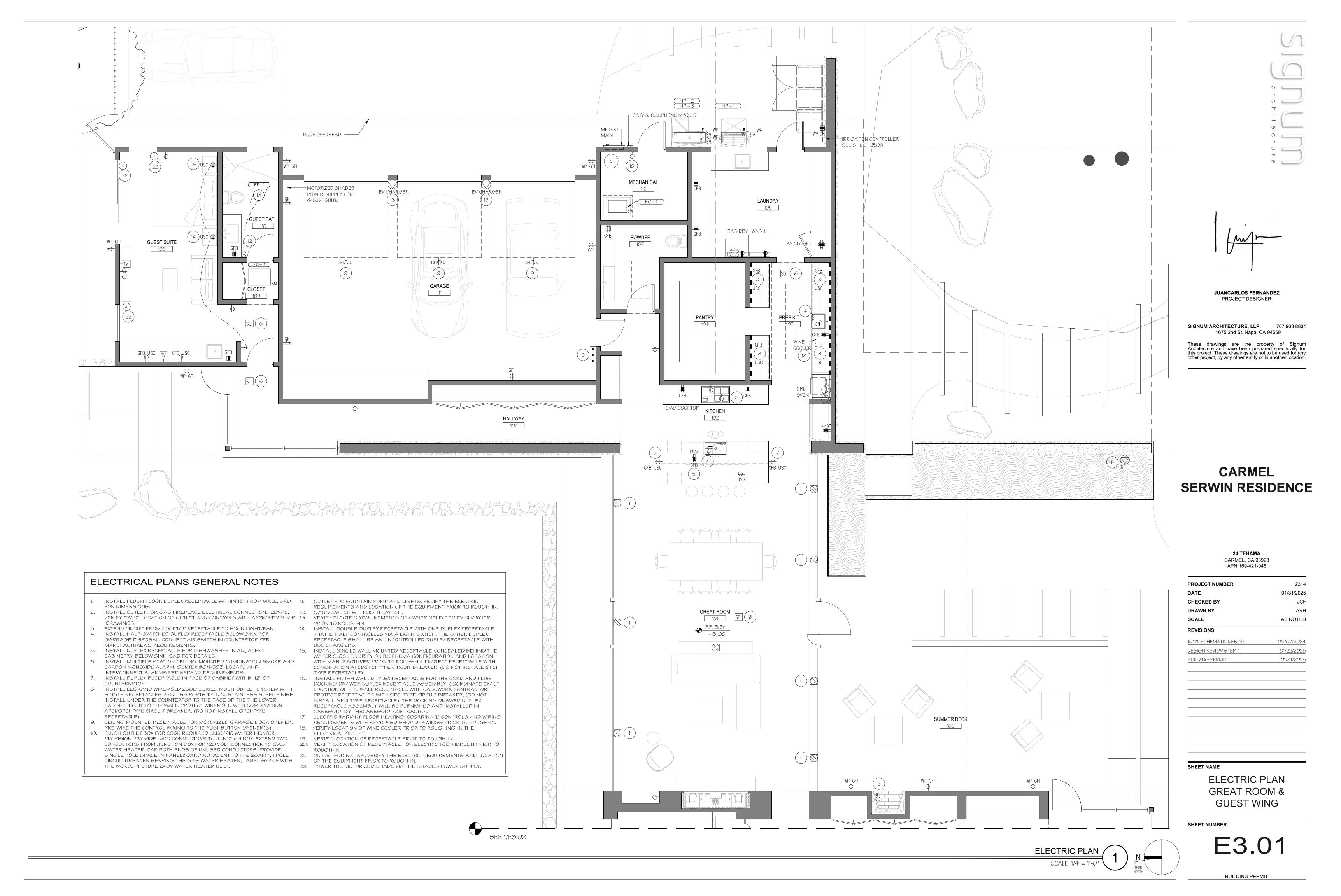
SHEET NUMBER

SHEET NAME



E2.02

BUILDING PERMIT



ELECTRICAL PLAN GENERAL NOTES

Electric Plans General Notes

- 1. BRANCH CIRCUIT SIZES MAX 3% VOLT DROP BRANCH CIRCUIT WIRING SHALL BE SIZED BY THE CONTRACTOR TO MEET THE 2022 CA BUILDING ENERGY EFFICIENCY STANDARDS OF 3% MAXIMUM DROP, WITH THE FOLLOWING CRITERIA:
- A.MAXIMUM DESIGN CURRENT ON 15A AND 20A BRANCH CIRCUITS (INCLUDING 75% DERATING) = 12 AMPS.
- B.MAXIMUM DISTANCE TO CENTROID (OR WEIGHTED CENTER, DETERMINED BY APPROXIMATING THE MIDPOINT BETWEEN ALL OF THE LOADS) OF BRANCH CIRCUIT LOADS FOR EACH SIZE WIRE (COPPER):
- i. 120V: #12 = 80FT, #10 = 125FT, #8 = 200FT, #6 = 300FT ii. 208V: #12 = 135FT, #10 = 215FT, #8 = 340FT, #6 = 530FT
- iii. 240V: #12 = 155FT, #10 = 250FT, #8 = 400FT, #6 = 600FT
- iv. 277V: #12 = 180FT, #10 = 290FT, #8 = 450FT, #6 = 700FT
- C. SELECT CONDUCTOR SIZES THAT WILL NOT EXCEED THE ONE-WAY CIRCUIT DISTANCES NOTED ABOVE TO THE CENTROID OF THE CIRCUIT LOADS, WITH THE CIRCUIT DISTANCE TO INCLUDE UP AND DOWN LENGTHS TO THE CEILING OR UNDERFLOOR SPACES. THE WHOLE BRANCH CIRCUIT SHALL CONSIST OF THE SAME CONDUCTOR SIZES UNLESS CONTRACTOR-PROVIDED CALCULATIONS INDICATE THE LAST DEVICE ON EACH CIRCUIT BRANCH WILL NOT EXCEED 3% VOLT DROP. FOR CONDUCTOR SIZES REQUIRED TO BE LARGER THAN #10, INSTALL INLINE HEAT-SHRUNK SPLICES IN RESPECTIVE PANELBOARD OR
- 2. PER CEC 210.12 INSTALL ARC-FAULT CURRENT INTERRUPTER (AFCI) CIRCUIT BREAKERS FOR BRANCH CIRCUITS INSTALLED IN KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS,
- LAUNDRY AREAS AND SIMILAR ROOMS/AREAS. 3.PER CEC 406.12, INSTALL TAMPER-RESISTANT RECEPTACLES IN KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLOR, STUDIES, LIBRARIES, DEN. SUNROOMS, BEDROOMS, RECREATION ROOMS, PANTRIES. BREAKFAST ROOMS, BATHROOMS, OUTDOOR BALCONIES, DECKS,
- BUILDINGS, HALLWAYS, FOYERS, AND SIMILAR ROOMS AND AREAS. 4.REFER TO THE ARCHITECTURAL ELEVATIONS FOR THE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL RECEPTACLES.

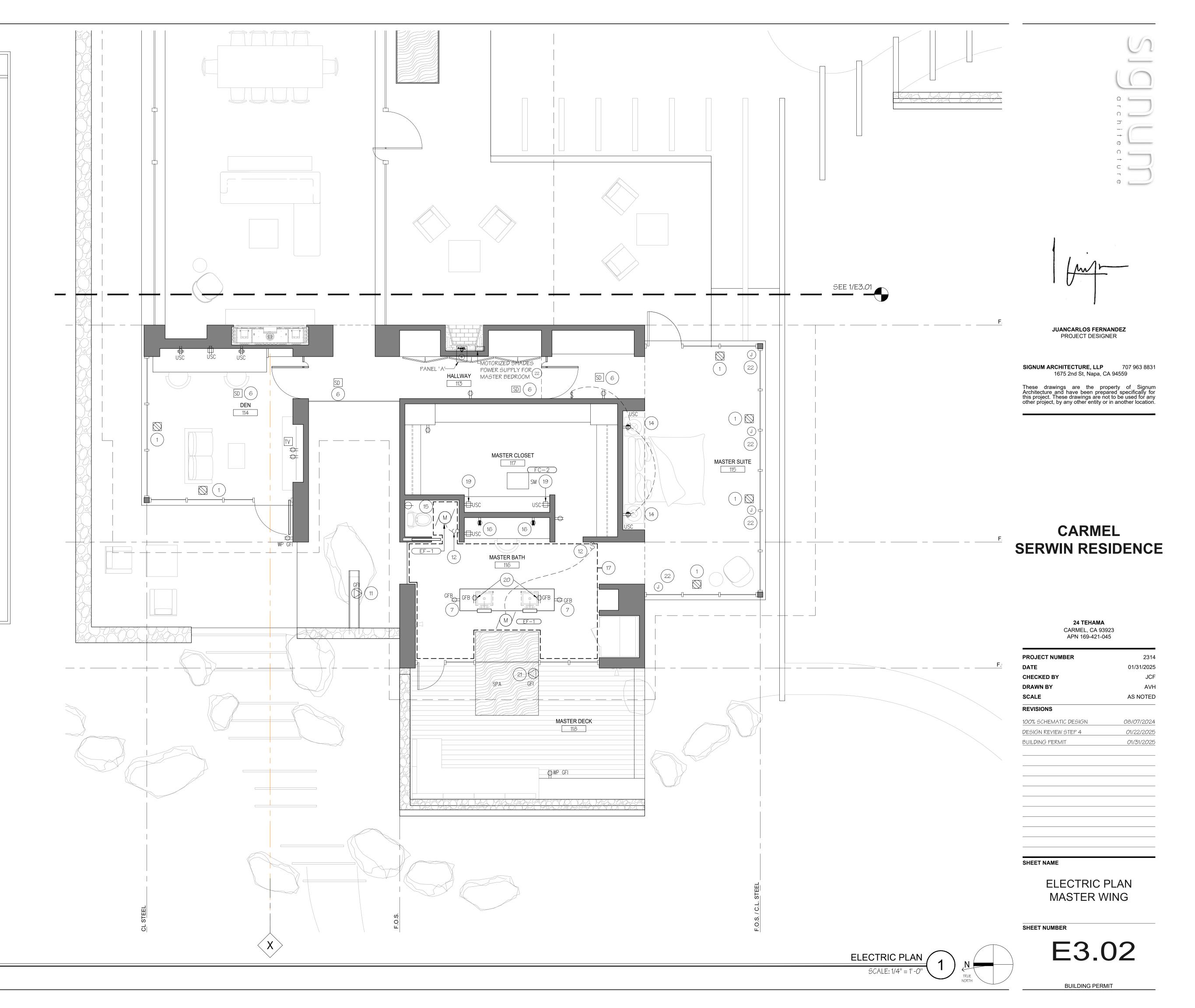
PORCHES, LAUNDRY AREAS, BASEMENTS, GARAGES, ACCESSORY

- 5.REFER TO THE PLUMBING AND MECHANICAL DRAWINGS FOR THE EXACT LOCATIONS OF EQUIPMENT AND ADDITIONAL CONTROLS TO BE CIRCUITED.
- 6.REFER TO THE A/V DRAWINGS FOR THE LOCATIONS OF THE TELEPHONE, DATA, AND CABLE TV RECEPTACLES.
- 7. GANG DUPLEX RECEPTACLES SHOWN DIRECTLY ADJACENT TO EACH OTHER UNDER ONE SINGLE FACEPLATE. 8.PROVIDE DEDICATED NEUTRAL TO EACH BRANCH CIRCUIT PER CEC 210.4.
- 9.FOR HALF CONTROLLED DUPLEX RECEPTACLES (SWITCHED OR DIMMED) CONTROL THE LOWER RECEPTACLE. FOR HORIZONTALLY MOUNTED HALF CONTROLLED DUPLEX RECEPTACLES CONTROL THE RIGHT RECEPTACLE. PROVIDE A 3/16" GREEN DOT STICKER ADJACENT TO THE CONTROLLED RECEPTACLE.
- 10. PER CEC 406.11 RECEPTACLES USED FOR DIMMING SHALL MECHANICALLY REJECT ALL STANDARD NEMA STANDARD PLUGS. PROVIDE SPECIAL RECEPTACLES THAT WILL ACCEPT SPECIAL MATING REPLACEMENT PLUG FOR DIMMING USE. REFER TO ELECTRICAL SPECIFICATIONS FOR THE LUTRON MODEL NUMBERS.
- 11.IF NOT INDICATED ON THE ELECTRICAL DRAWINGS, REFER TO THE LIGHTING DRAWINGS FOR THE TYPE OF CONTROLLED RECEPTACLES; EITHER SWITCHED OR DIMMED.
- 12. PER CEC 150.0(k)2.B, EXHAUSTS FANS ARE TO BE CONTROLLED SEPARATELY FROM LIGHT FIXTURES.
- 13. SMOKE ALARMS INSTALLED WITHIN 20FT. OF A KITCHEN, BATHROOM, OR A ROOM THAT CONTAINS A FIREPLACE OR WOOD BURNING STOVE, SHALL BE OF THE PHOTOELECTRIC TYPE ONLY. SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING AND BE EQUIPPED WITH BATTERY BACK-UP AND BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS. FOR PROPER PLACEMENT OF THE COMBINATION SMOKE AND CARBON

MONOXIDE ALARMS IN ROOMS WITH VARIATIONS IN CEILING HEIGHT (SLOPED, PITCHED, ETC.) REFER TO THE MANUFACTURERS GUIDELINES

CIRCUIT SHALL SHALL HAVE NO OTHER RECEPTACLES. (CEC ART.

- 14. PROVIDE AT LEAST TWO 20 AMP SMALL APPLIANCE BRANCH CIRCUITS TO SERVE ALL THE WALL AND FLOOR RECEPTACLES IN KITCHENS, PANTRIES. BREAKFAST ROOMS, DINING ROOMS, OR SIMILAR AREAS. (CEC ART. 210.11(C)(1)). PROVIDE AT LEAST ONE 20 AMP BRANCH CIRCUIT TO SUPPLY THE LAUNDRY RECEPTACLES AND SUCH CIRCUIT SHALL SHALL HAVE NO OTHER RECEPTACLES. (CEC ART. 210.11(C)(2)). PROVIDE AT LEAST ONE 20 AMP BRANCH CIRCUIT TO SUPPLY THE BATHROOM RECEPTACLES AND SUCH
- 15. FOR ALL DISCONNECT SWITCHES, AMPERE RATING OF DISCONNECT SHALL BE GREATER OR EQUAL TO THAT OF THE RESPECTIVE LOAD'S UPSTREAM FEEDER BREAKER.



GROUNDING AND BONDING KEY NOTES

- G1 GROUNDING ELECTRODE CONDUCTOR TO NEAREST EFFECTIVELY GROUNDED METAL COLD WATER PIPING SYSTEM AND/OR OTHER METAL PIPING SYSTEMS NOTED, FULLY—SIZED PER TABLE 250.66. CONNECT WITHIN 5 FEET OF THE PIPING ENTRANCE INTO THE BUILDING. (THIS SHALL NOT BE THE ONLY ELECTRODE.) CEC 250.52, 250.53(D) AND 250.66.
- G2 GROUNDING ELECTRODE CONDUCTOR TO NEAREST EFFECTIVELY—GROUNDED BUILDING STEEL STRUCTURE, FULLY—SIZED PER TABLE 250.66.
- G3 GROUNDING ELECTRODE CONDUCTOR TO CONCRETE ENCASED ELECTRODE GROUND, SIZED PER TABLE 250.66, MINIMUM #4 CU. CEC 250.66(B)
- G4 GROUNDING ELECTRODE CONDUCTOR TO GROUND ROD (IN EQUIPMENT OR ADJACENT GROUND WELL BOX), SIZED PER TABLE 250.66, MAXIMUM #6 CU. CEC 250.66(A)
 - BONDING JUMPER TO METAL COLD WATER PIPING SYSTEM, FULLY—SIZED PER TABLE 250.66. CONNECT WITHIN 5 FEET OF THE PIPING ENTRANCE INTO THE BUILDING. THIS IS NOT REQUIRED WHERE THE GROUNDING ELECTRODE CONDUCTOR IN SHEET NOTE #G4 IS INSTALLED TO THE SAME PIPE. CEC 250.104(A)(1)
- BONDING JUMPER TO ABOVE—GROUND GAS AND/OR OTHER PIPING SYSTEM NOTED, #6 CU. CONNECT WITHIN 5 FEET OF THE PIPING ENTRANCE INTO THE BUILDING. THIS IS NOT REQUIRED WHERE THE GROUNDING ELECTRODE CONDUCTOR IN SHEET NOTE #G4 IS INSTALLED TO THE SAME PIPE. CEC 250.104(B)
- #6 CU EQUIPMENT BONDING CONDUCTOR TO GROUND BUS AT TELEPHONE TERMINAL BOARD OR OTHER EQUIPMENT AS NOTED.
- GROUNDING ELECTRODE CONDUCTOR SIZES CEC TABLE 250.66

PROVIDE G.E.C. S AS NOTED	SIZE COPPER SERVICE CONDUCTOR SIZES	ALUMINUM SERVICE CONDUCTOR SIZES
G8) #8 CU	#2 OR SMALLER	1/0 OR SMALLER
G9 #6 CU	#1 OR 1/0	2/0 OR 3/0
G10) #4 CU	2/0 OR 3/0	4/0 OR 250KCMIL
G11) #2 CU	4/0 THROUGH 350KCMIL	OVER 250 THROUGH 500KCMIL
G12) 1/0 CU	400KCMIL THROUGH 600KCMIL	OVER 500 THROUGH 900KCMIL
G13) 2/0 CU	700KCMIL THROUGH 1100KCMIL	OVER 900 THROUGH 1750
G14) 3/0 CU	OVER 1100KCMIL	OVER 1750

GROUNDING AND BONDING NOTES

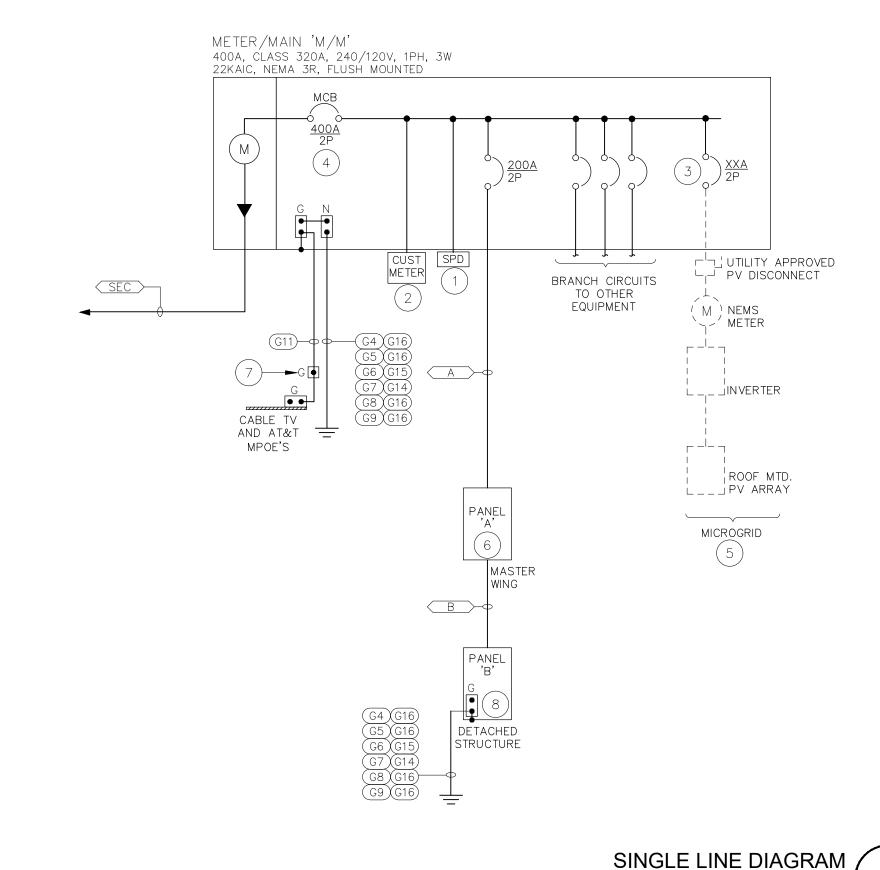
- 1. GROUND RODS SHALL BE VERTICALLY DRIVEN AT A 6'-0" MINIMUM SPACING FROM OTHER RODS AND OTHER GROUNDING ELECTRODES (I.E., WATER PIPING AND STRUCTURAL STEEL). RODS MAY BE DIAGONALLY DRIVEN OR INSTALLED HORIZONTALLY AND BURIED 30" BELOW GRADE WHEN THE SOIL PREVENTS RODS FROM BEING VERTICALLY DRIVEN. CEC 250.53(G)
- 2. CONCRETE ENCASED ELECTRODE GROUND TO BE A CONCRETE—ENCASED (MIN 2") BARE COPPER CONDUCTOR, SIZED PER TABLE 250.66, MINIMUM #4, 20 FOOT LENGTH, LOCATED NEAR THE BOTTOM OF THE CONCRETE FOUNDATION, FOOTING OR PAD, AND BELOW ANY VAPOR BARRIERS. CEC 250.52(3)
- 3. CONNECTIONS TO GROUNDING ELECTRODES SHALL BE MADE WITH LISTED CONNECTORS, FITTINGS OR EXOTHERMIC WELDING. CEC 250.70
- 4. DO NOT INSTALL GROUNDING ELECTRODE CONDUCTORS TO UNDERGROUND GAS PIPING SYSTEMS. CEC 250.52(7)(B)
- 5. INSTALL BONDING JUMPERS ACROSS INSULATED OR REMOVABLE JOINTS OF BONDED METALLIC PIPING SYSTEMS. CEC 250.68(B)
- 6. ALL GROUNDING AND BONDING CONNECTIONS SHALL BE ACCESSIBLE FOR TESTING. CEC 250.68(A)
- 7. ALL GROUNDING ELECTRODE CONDUCTORS AND BONDING JUMPERS SHALL BE INSTALLED IN RIGID METALLIC CONDUIT WHERE EXPOSED IN OUTDOOR AREAS, OR IN EMT CONDUIT WHERE INSTALLED EXPOSED IN INDOOR AREAS OR CONCEALED IN FRAMED BUILDING STRUCTURE, OR IN PVC CONDUIT WHERE INSTALLED IN—SLAB OR IN UNDERGROUND LOCATIONS. ALL CONDUCTORS AND JUMPERS SHALL BE SUITABLY PROTECTED FROM DAMAGE AND SHALL BE BONDED TO THEIR ENCLOSING METALLIC RACEWAY. CEC 250.64
- 8. SEE SECTION 26 0500, BASIC ELECTRICAL MATERIALS AND METHODS, FOR ADDITIONAL GROUNDING AND BONDING REQUIREMENTS.

GENERAL NOTES

- 1. PER NEC 110.24 AND 110.21 PROVIDE LABELS ON ELECTRICAL SERVICE EQUIPMENT INDICATING MAXIMUM AVAILABLE FAULT CURRENT AND DATE OF FAULT CURRENT CALCULATION. REFER TO LABELING DETAILS, THIS SHEET.
- 2. PER NEC 110.16 AND 110.21 PROVIDE LABELS AND MARKINGS ON ELECTRICAL DISTRIBUTION EQUIPMENT (I.E. METER/MAIN, PANELBOARDS) INDICATING POTENTIAL ARC FLASH HAZARDS. REFER TO LABELING DETAILS, THIS SHEET.

#KEY NOTES

- 1. SURGE PROTECTION DEVICE.
- 2. CUSTOMER METER WITH KWH AND KW DEMAND METER RECORDINGS.
- 3. PROVIDE OVERCURRENT PROTECTION DEVICE AT OPPOSITE END OF BUSS BAR FROM INCOMING LUGS FOR FUTURE PV CONNECTION. PROVIDE LABEL READING AS SHOWN ON THIS SHEET
- 4. PROVIDE REVERSE FEED RATED CIRCUIT BREAKER.
- 5. MICROGRID EQUIPMENT (PV AND BATTERY) PROVIDED BY MICROGRID CONTRACTOR.
- 6. PANELBOARD WITH 200 AMP BUS, 240/120V, 1PH, 3W, MAIN LUGS ONLY, 10KAIC, NEMA 1, FLUSH MOUNTED. WITH AFCI, GFCI, AND COMBINATION AFCI/GFCI TYPE BRANCH CIRCUIT BREAKERS AS REQUIRED TO SERVE THE RESPECTIVE LOADS.
- 7. MOUNT INTERSYSTEM BONDING TERMINATION EXTERNAL TO SERVICE ENTRANCE EQUIPMENT PER CEC 250.94, ERICO MODEL #IBTB OR EQUIVALENT.
- 8. LOAD CENTER WITH 60 AMP BUS, 240/120V, 1PH, 3W, 30A/2P MAIN CIRCUIT BREAKER, 10KAIC, NEMA 1 , SURFACE MOUNTED. WITH AFCI, GFCI, AND COMBINATION AFCI/GFCI TYPE BRANCH CIRCUIT BREAKERS AS REQUIRED TO SERVE THE RESPECTIVE LOADS.





TROSEOT BESIGNER

SIGNUM ARCHITECTURE, LLP 707 963 8831 1675 2nd St, Napa, CA 94559

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N.T.S.

LABELING DETAILS

WARNING:
INVERTER OUTPUT CONNECTION
DO NOT RELOCATE THIS
OVERCURRENT DEVICE

INVERTER CONNECTION LABEL

(2	2022 CEC 110.	24)	
ERVICE VOLTAGE AND AM	PERAGE:		
40/120V 1PH 3W	VOLTS	400	AMPS
VAILABLE CURRENT ON UT	ILITY PRIMARY:		
ASSUMED INFINIT	E BUS		
SSUMED MAXIMUM UTIL	TY TRANSFORME	R SIZE:	
100 kVA		1.80	% Z
SSUMED MAXIMUM UTIL	TY SECONDARY C	ONDUCTORS:	
50 AL PER PHASE		200	FEET
SSUMED MAXIMUM MOT	OR CONTRIBUTIO	N:	
320 AMPS			
ALCULATED MAXIMUI	M FAULT CURRE	NT AVAILA	BLE:
9,630 AMPS	MAX 1PI	H L-L OR	L-N)

FAULT CURRENT LABEL

THIS CALCULATION MUST BE

REVIEWED IF THE SERVICE IS ALTERED

		<u>El</u>	<u>LECTRICAL FI</u>	EEDER SCHEDULE							
FEEDER TAG	FEEDER CONDUIT AND WIRING	FED FROM	FED TO	NOTES/COMMENTS	ESTIM. LENGTH (FT)	DESIGN LOAD (AMPS)	FEEDER AMPACITY (AMPS)	OCPD SIZE (AMPS)	FEEDER VOLTAGE	VOLTAGE DROP %	CONDUIT FILL %
SEC	3" CO	SITE	METER/MAIN		TBD	-	-	-	240	-	0%
CATV	2" CO	SITE	CATV MPOE		TBD	1	1	-	240	-	0%
TELE	2" CO	SITE	TELE MPOE		TBD	1	1	-	-	-	0%
Α	2"C - 3#3/0, 1#6 GRD	METER/MAIN	PANEL 'A'		120	150	200	200	240	1.0%	26%
В	1"C - 3#8, 1#8 GRD	PANEL 'A'	PANEL 'B'		125	23	50	30	240	1.6%	18%
A B	,	•									_

ELECTRICAL FEEDER AND BRANCH CIRCUIT SCHEDULE NOTES (DESCRIPTION OF COLUMNS)

1 FEEDER/BRANCH CIRCUIT TAG: REFER TO THE SINGLE-LINE DIAGRAM FOR FEEDER/BRANCH CIRCUIT TAGS

2 FEEDER/BRANCH CIRCUIT CONDUIT AND WIRING: PROVIDE CONDUIT AND WIRING AS SPECIFIED CORRESPONDING TO THE TAG ("AL" = ALUMINUM XHHW 90C)

3 FED FROM: FEEDER/BRANCH CIRCUIT IS FED FROM EQUIPMENT OR LOCATION AS NOTED
4 FED TO: FEEDER/BRANCH CIRCUIT FEEDS THE EQUIPMENT OR LOCATION AS NOTED; CORRESPONDS TO TAG NAME

4 FED TO: FEEDER/BRANCH CIRCUIT FEEDS THE EQUIPMENT OR LOCATION AS NOTED; CORRESPONDS TO TAG 5 NOTES/COMMENTS: NOTES OR COMMENTS SPECIFIC TO THE SPECIFIED FEEDER/BRANCH CIRCUIT

6 ESTIM. LENGTH (FT): ESTIMATED LENGTH OF FEEDER/BRANCH CIRCUIT IN FEET 7 DESIGN LOAD (AMPS): MAXIMUM DESIGN FEEDER/BRANCH CIRCUIT CURRENT

8 MAXIMUM FEEDER AMPACITY: MAXIMUM DESIGN FEEDER/BRANCH CIRCUIT AMPACITY (AMPS) AFTER TEMPERATURE AND CONDUCTOR QUANTITY DERATIONS

9 OCPD (AMPS): OVER-CURRENT PROTECTION DEVICE AMPACITY

10 FEEDER/BRANCH CIRCUIT VOLTAGE: LINE VOLTAGE OF FEEDER/BRANCH CIRCUIT, UON
11 VOLTAGE DROP %: ESTIMATED MAXIMUM PERCENT VOLTAGE DROP BASED ON DESIGN LOAD; BASED ON METALLIC CONDUIT (WORST CASE)

11 VOLTAGE DROP % : ESTIMATED MAXIMUM PERCENT VOLTAGE DRO
12 CONDUIT FILL % : ESTIMATED MAXIMUM PERCENT CONDUIT FILL

NOTE: THE ESTIMATED LENGTHS IN THE SCHEDULE ABOVE ARE FOR CALCULATION PURPOSES. THESE LENGTHS SHOULD NOT BE USED AS A BASIS FOR BIDDING; CONTRACTOR SHALL VERIFY FEEDER/BRANCH CIRCUIT LENGTHS ON DRAWINGS AND IN FIELD.

NOTE: ALL FEEDERS AND GROUNDS SHALL BE COPPER THHN/THWN UNLESS NOTED AS "AL" IN SCHEDULE.

Building: <u>SERWIN RESIDENCE</u>				Date	: <u>11/8/20</u>
ELECTRIC S	ERVIC	ЭE	ES	STIMATE	
Optional Calculation for Dwelling Per CEC Article 220.82	Unit				
ARFA SUMMARY	0.074	٠.			
Living Areas	3,674 sq				
Garage & Storage	751 sq		_		N.I. I
Total:	4,425 sq	π			Normal Loads
GENERAL LOADS					(VA)
3.674 sqft at	3	VΑ	/saft	(Lighting and Recept.)	11,022
Small Appliance ckts - 2/Kitchen	0	2	•	1,500 VA ea.	3,000
Laundry branch circuits		1		1,500 VA ea.	1,500
Total General Light & Small	Applian	се	Loa	ds:	15,522
APPLIANCE & WATER HEATER LO)ADS				
Refrigerator/Freezer	_	1	at	900 VA ea.	900
Under Counter Refrigerator		1	at	250 VA ea.	250
Undercounter Wine Cooler		1	at	300 VA ea.	300
Dishwasher Microwave		1	at	1,300 VA ea. 1,500 VA ea.	1300 3000
Hood		1	at at	1,200 VA ea.	1200
Gas Range		1	at	500 VA ea.	500
Electric Insta-Hot Water Heaters		3	at	1,500 VA ea.	4500
Gas Dryer		1	at	850 VA ea.	850
Washing Machine		1	at	960 VA ea.	960
Electric Toilet Total Appliance Loads:		1_	at	1,250 VA ea.	1250 15,010
1 1					10,010
GENERAL LOADS DEMAND CALCU Total General Loads	<u>LA HO</u> N				30,532
First 10,000VA at 100%					10,000
Remainder at 40%					8,213
Total Demand General Loads:	:				18,213
MISC LOADS					
Infrared Sauna		1	at	8,000 VA ea.	8,000
Electric Hot Tub		1	at	8,800 VA ea.	8,800
Outdoor Gas Radiant Heaters		1	at	240 VA ea.	240
AV Racks Electric Vehicle Chargers (48Amp)		2	at at	1,800 VA ea. 11,500 VA ea.	3,600 11,500
Total Misc Loads at 100% De	-mand:		aı	11,500 VA ea.	32,140
HEATING & AIR CONDITIONING LO					02,110
Heat Pump HP-1	<u> </u>	1	at	4,278.0 VA ea.	4,278
Heat Pump HP-2		1	at		5,200
Heat Pump HP-3		1	at	,	2,288
Electric Radiant Floor Mat	1		at	12 VA/sqft	1,200
Fan Coil FC-1		1	at	1,035 VA ea.	1,035
Fan Coil FC-2 Fan Coil FC-3		1	at	541 VA ea. 370 VA ea.	541 370
Larger Heating & Air Condi	itioning		ads	at 100% Deman	d:14,912
-		_			
TOTAL CONNECTED				CONNECTED LOAD RES AT 240/120	

CARMEL SERWIN RESIDENCE

24 TEHAMACARMEL, CA 93923
APN 169-421-045

PROJECT NUMBER	23
DATE	01/31/20
CHECKED BY	JO
DRAWN BY	A۱
SCALE	AS NOTE
REVISIONS	
100% SCHEMATIC DESIGN	08/07/202
DESIGN REVIEW STEP 4	01/22/202
BUILDING PERMIT	01/31/202

SINGLE LINE DIAGRAM

SHEET NUMBER

E5.01

BUILDING PERMIT

CALCULATIONS 1

GENERAL NOTES

- CONTRACTOR TO EXAMINE THE PROPOSED WORK SITE AND BECOME FAMILIAR WITH ALL JOB CONDITIONS AFFECTING THE WORK SHOWN. CONTRACTOR(S) SHALL FIELD-VERIFY SITE CONDITIONS INCLUDING LOCATIONS AND SIZES OF EXISTING PIPING, VALVES, CLEANOUTS, WASTE MAINS, GAS METERS, ETC., AND BIDS SHALL BE BASED ON ACTUAL FIELD CONDITIONS. NO ADDITIONAL ALLOWANCE WILL BE GRANTED DUE TO LACK OF KNOWLEDGE OF SITE CONDITIONS. ACCEPT SOLE AND COMPLETE RESPONSIBILITY FOR CONDITIONS OF THE JOBSITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK.
- DRAWINGS INDICATE DIAGRAMMATICALLY THE ARRANGEMENT OF PRINCIPAL APPARATUS, PIPING, DUCTWORK, AND OTHER MATERIAL. FOLLOW DRAWING AS CLOSELY AS POSSIBLE IN ORDER TO ACHIEVE A NEAT INSTALLATION WHILE STILL WORKING AROUND ANY OBSTRUCTIONS. INSPECT SITE CONDITIONS AFFECTING THE WORK AND PROVIDE FITTINGS AND ACCESSORIES AS REQUIRED TO MEET CONDITIONS WHETHER SHOWN OR NOT.
- IT IS NOT THE INTENTION OF THE PLANS AND SPECIFICATIONS TO COVER ALL INCIDENTALS REQUIRED TO PROVIDE COMPLETE AND FULLY-OPERATIONAL SYSTEMS. THE CONTRACTOR IS TO FURNISH ALL LABOR, MATERIALS, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC., REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION SHALL BE INCLUDED, WHETHER SPECIFICALLY SHOWN OR MENTIONED OR NOT. ENGINEER WILL PROVIDE INTERPRETATIONS UPON REQUEST.
- ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS AMENDED AND ADOPTED BY THE AUTHORITY(IES) HAVING JURISDICTION: 2022 CALIFORNIA BUILDING CODE, 2022 CALIFORNIA MECHANICAL CODE, 2022 CALIFORNIA PLUMBING CODE, 2022 CALIFORNIA ELECTRICAL CODE, 2022 CALIFORNIA ENERGY CODE (TITLE 24), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), AND ANY OTHER LOCAL CODES, ORDINANCES, REGULATIONS, OR AUTHORITIES HAVING JURISDICTION, NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHER CODES AND REGULATIONS APPLICABLE TO THIS PROJECT. THESE CODES SHALL DETERMINE MINIMUM REQUIREMENTS FOR MATERIALS, METHODS, AND LABOR PRACTICES NOT OTHERWISE DEFINED IN THESE SPECIFICATIONS.

- a. WORK: LABOR AND MATERIALS OF THE CONTRACTOR AND/OR SUBCONTRACTOR.
- b. FURNISH: OBTAIN, COORDINATE, SUBMIT THE NECESSARY DRAWINGS, DELIVER TO THE JOBSITE IN NEW CONDITION AND GUARANTEE. c. PROVIDE: FURNISH AND INSTALL.
- d. CONNECT: BRING SERVICE TO THE EQUIPMENT AND MAKE FINAL ATTACHMENTS INCLUDING NECESSARY PIPE FITTINGS, DUCTWORK, TRANSITIONS, ETC. e. CONCEALED: HIDDEN FROM SIGHT IN CHASES, FURRED SPACES, SHAFTS, ABOVE CEILING, EMBEDDED IN CONSTRUCTION, IN CRAWL SPACES, OR BURIED. f. EXPOSED: NOT INSTALLED UNDERGROUND OR CONCEALED AS DEFINED ABOVE.
- g. PERFORMANCE: CONTRACTOR SHALL PERFORM ALL WORK SPECIFIED, INDICATED, AND REQUIRED UNLESS OTHERWISE NOTED, INCLUDING FINAL CONNECTIONS, IN A WORKMANLIKE MANNER USING WORKERS SKILLED AND EXPERIENCED IN THE TRADE. PIPES, FIXTURES, EQUIPMENT, GRILLES, REGISTERS, ETC. TO BE INSTALLED LEVEL, SQUARE, OR CENTERED, ETC. TO GIVE A NEAT APPEARANCE.
- h. FULL FUNCTION: PROVIDE ALL MINOR ITEMS NECESSARY FOR A COMPLETE AND FULLY FUNCTIONAL INSTALLATION.
- CONTRACTOR SHALL CONFIRM ALL SITE VOLTAGES BEFORE BIDDING AND ORDERING EQUIPMENT. REIMBURSE ELECTRICAL CONTRACTOR, AT NO CHARGE TO CLIENT, FOR ELECTRICAL CONTRACTOR'S COST INCURRED DUE TO SUBSTITUTION OF MECHANICAL EQUIPMENT HAVING ELECTRICAL REQUIREMENTS DIFFERING FROM SITE
- CONTRACTOR SHALL PROVIDE THE OWNER WITH COPIES OF OPERATION, MAINTENANCE, AND PREVENTATIVE MAINTENANCE MANUALS FOR EACH MODEL AND TYPE OF PLUMBING AND MECHANICAL EQUIPMENT.
- CONTRACTOR SHALL PROVIDE EVIDENCE OF LICENSING, BONDING, AND INSURANCE, AND PROVIDE OTHER NECESSARY ADMINISTRATIVE FUNCTIONS FOR CONTRACTOR'S WORK.
- 9) CONTRACTOR SHALL PROCURE AND PAY FOR ALL REQUIRED PERMITS AND SERVICE CHARGES.
- 10) COORDINATION: CONFORM TO GENERAL CONSTRUCTION CONTRACT DOCUMENTS EXCEPT AS MODIFIED HEREIN. REFER ALSO TO STRUCTURAL AND ELECTRICAL CONTRACT DOCUMENTS. COORDINATE ALL WORK WITH OTHER TRADES.
- 11) CUTTING AND PATCHING: CUT AND PATCH AS REQUIRED. CUT OR WELD STRUCTURAL MEMBERS ONLY WITH APPROVAL OF A STRUCTURAL ENGINEER. PATCHING SUBJECT TO ACCEPTANCE BY OWNER.
- 12) SAW CUT TRENCHES IN SLAB SHALL BE FULLY RESTORED AND REINFORCED TO PREVENT SAGGING, ROUGHEN SAW CUT EDGES PRIOR TO RE-POURING
- 13) COORDINATE ALL WORK WITH OTHER TRADES TO PROVIDE A COMPLETE INSTALLATION. CONNECT ALL EQUIPMENT FURNISHED BY OTHERS AS REQUIRED. INSTALL ALL WORK TO CLEAR ARCHITECTURAL AND STRUCTURAL MEMBERS. INSTALL ALL ABOVE GRADE (OVERHEAD) PIPING AS HIGH AS PRACTICAL.
- 14) RESTORE ALL DAMAGE RESULTING FROM YOUR WORK AND LEAVE PREMISES IN CLEAN CONDITION WHEN FINISHED WITH WORK. ADJUST, CLEAN, REPAIR, OR REPLACE PRODUCTS, WHICH HAVE BEEN DAMAGED.
- 15) GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR MINIMUM FROM DATE OF FILING NOTICE OF COMPLETION.
- 16) PROVIDE FLASHING AND COUNTER FLASHING FOR ALL WALL AND ROOF PENETRATIONS.
- 17) ADJUSTMENTS: MAKE MINOR ADJUSTMENTS TO WORK WHERE REQUESTED BY OWNER, WHEN SUCH ADJUSTMENTS ARE NECESSARY TO PROPER OPERATION AND WITHIN THE INTENT OF THE CONTRACT.
- 18) MATERIALS AND EQUIPMENT: PROVIDE NEW, UL-LISTED, COMMERCIAL-GRADE MATERIALS, DEVICES, EQUIPMENT, AND FIXTURES SUITABLE FOR THE ENVIRONMENT WHERE INSTALLED. REUSE EXISTING ONLY WHEN COMPLIANT WITH THE CONTRACT DOCUMENTS. IN GOOD CONDITION, AND APPROVED BY THE ENGINEER.
- 19) INSTALLATION: INSTALL ALL MATERIALS. EQUIPMENT, AND SYSTEMS IN FULL ACCORD WITH MANUFACTURER'S INSTRUCTIONS.
- 20) LAYOUT: INSTALL ALL PIPING AND DUCTWORK TO PRESENT A NEAT AND ORDERLY APPEARANCE, RUN ALL LINES PARALLEL WITH BUILDING CONSTRUCTION AS MUCH AS POSSIBLE. MAINTAIN HEADROOM, EQUIPMENT CLEARANCE, AND GRADIENT WHERE REQUIRED. ALLOW FOR EXPANSION & CONTRACTION.
- ACCESS DOORS: PROVIDE ACCESS DOORS OR PANELS FOR ALL VALVES, CLEANOUTS, DAMPERS, CONTROLS, DEVICES, AND OTHER ITEMS REQUIRING INSPECTION
- 22) START-UP: THOROUGHLY TEST AND DEMONSTRATE PROPER OPERATION OF ALL SYSTEMS AND EQUIPMENT MODIFIED, FURNISHED OR INSTALLED UNDER THIS
- 23) WARRANTY: ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL MECHANICAL, ELECTRICAL, AND WORKMANSHIP DEFECTS FOR A MINIMUM OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE PREMISES CAUSED BY LEAKS AND/OR BREAKS IN PIPES AND FIXTURES INSTALLED UNDER THIS CONTRACT, AS WELL AS ANY DAMAGE FROM LEAKS VIA ROOF PENETRATIONS MADE AND SEALED UNDER CONTRACTOR'S SCOPE.
- 24) PATCHING & PAINTING: RESTORE ANY DAMAGE RESULTING FROM THE WORK AND LEAVE PREMISES CLEAN. ADJUST, CLEAN, REPAIR, AND/OR REPLACE ANY ITEMS DAMAGED BY THE WORK. RESTORE WALL AND ROOF PENETRATIONS TO MATCH SURROUNDING WALL OR ROOF, RESPECTIVELY.
- 25) AIR BALANCE: PROVIDE SERVICES NECESSARY TO VERIFY AIR QUANTITIES AND BALANCE FOR ESTABLISHED QUANTITIES AND UNIFORM TEMPERATURE IN THE SPACES SERVED. ADJUST ALL DAMPERS AND ELEMENTS IN GRILLES AND DIFFUSERS FOR PROPER AIR DISTRIBUTION AND TO MINIMIZE DRAFTS. COMPLY WITH SMACNA MANUAL FOR THE BALANCING AND ADJUSTMENT OF AIR DISTRIBUTION SYSTEMS.
- 26) DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARD.
- 27) ALL BRANCH DUCTS SHALL HAVE BALANCING DAMPERS WITH ACCESSIBLE LOCKING TYPE QUADRANT.
- 28) HVAC EQUIPMENT SHALL BE CERTIFIED BY THE MANUFACTURER FOR COMPLIANCE WITH CALIFORNIA ENERGY COMMISSION STANDARDS.
- 29) DUCT SHALL MEET UL 181, CLASS I AND NFPA 90A AND 90B. DUCT SHALL BE INSTALLED STRAIGHT AND SUPPORT SPACING SHALL BE IN STRICT ACCORDANCE WITH "SMACNA HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE". FLEXIBLE DUCTWORK SHALL BE EXTENDED TO THE FULLEST POSSIBLE LENGTH, IN ORDER TO MINIMIZE PRESSURE DROP IN THE DUCT. EXCESS DUCT LENGTHS SHALL BE SHORTENED TO PREVENT UNNECESSARY CHANGES IN DIRECTIONS. WHERE ABRUPT CHANGES IN DIRECTION ARE UNAVOIDABLE USE ADJUSTABLE SHORT RADIUS SHEET METAL ELBOWS TO MAKE DIRECTION CHANGES. CONNECTIONS AT METAL DUCTS OR COLLARS SHALL BE MADE BY DRAW BANDS AND PRESSURE-SENSITIVE TAPE WITH THE DRAW BANDS TIGHTENED AS RECOMMENDED BY THE MANUFACTURER WITH AND ADJUSTABLE TENSIONING TOOL. USING PRESSURE-SENSITIVE TAPE ALONE WITHOUT DRAW BANDS IS NOT ACCEPTABLE. ALL PRESSURE-SENSITIVE TAPES AND MASTICS USED SHALL COMPLY WITH UL 181.
- 30) HVAC EQUIPMENT SHALL NOT BE OPERATED DURING CONSTRUCTION WITHOUT A FILTER INSTALLED TO PROTECT THE EVAPORATOR COIL. AFTER ALL CONSTRUCTION IS COMPLETED, ALL CONSTRUCTION FILTERS SHALL BE REMOVED AND NEW FILTERS SHALL BE INSTALLED.

RESIDENTIAL CALGREEN MECHANICAL NOTES

- 1) ENHANCED DURABILITY AND REDUCED MAINTENANCE: 4.406.1 ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENINGS IN PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR SIMILAR METHOD ACCEPTABLE TO THE ENFORCING
- 2) BUILDING MAINTENANCE AND OPERATION:
- 4.410.1 AN OPERATION AND MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OCCUPANT OR OWNER
- - A) 4.503.1 ANY INSTALLED GAS FIREPLACE SHALL BE A DIRECT-VENT SEALED-COMBUSTION TYPE. ANY INSTALLED WOODSTOVE OR PELLET SOTVE SHALL COMPLY WITH U.S. EPA NEW SOURCE PERFORMANCE STANDARDS (NSPS) EMISSION LIMITS AS APPLICABLE, AND SHALL HAVE A PERMANENT LABEL INDICATING THEY ARE CERTIFIED TO MEET THE EMISSION LIMITS. WOODSTOVES, PELLET STOVES, AND FIREPLACES SHALL ALSO COMPLY WITH APPLICABLE
 - B) 4.504.1 DUCT OPENINGS AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED DURING CONSTRUCTION C) 4.504.2.1 ADHESIVES, SEALANTS AND CAULKS SHALL BE COMPLIANT WITH VOC AND OTHER TOXIC COMPOUND LIMITS
- 4) INSTALLER AND SPECIAL INSPECTOR QUALIFICATIONS:
- A) 702.1 HVAC SYSTEM INSTALLERS ARE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS
 - B) 702.2 SPECIAL INSPECTORS EMPLOYED BY THE ENFORCING AGENCY MUST BE QUALIFIED AND ABLE TO DEMONSTRATE COMPETENCE IN THE DISCIPLINE
 - C) VERIFICATION OF COMPLIANCE WITH THIS CODE MAY INCLUDE CONSTRUCTION DOCUMENTS, PLANS, SPECIFICATIONS BUILDER OR INSTALLER CERTIFICATION, INSPECTION REPORTS, OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY WHICH SHOW SUBSTANTIAL CONFORMANCE

SPLIT HEAT PUMP CONDENSER SCHEDULE - OUTDOOR UNIT

							CLICTION			COOLING			HEA	TING	COND	ENSER	COMP	PRESSOR	ELECT	TRICAL				WEIGHT	
AG	MANU.	MODEL	LOCATION	SERVES	TONS	REF.	SUCTION — TEMP.	TOTAL MBH	SENSIBLE MBH	EDB	EWB	AMB	MBH	EDB	QTY.	FLA (EA.)	QTY.	RLA (EA.)	VOLTAGE	MCA	MOCP	SEER2 HSPF2	(LBS.)	REMARKS	
P-1	GOODMAN	GSZH503010A	EXTERIOR	FC-1	2.5	R-410A	45 ° F	30.0	24.0	80°F	67 ° F	105 ° F	30.0	60°F	1	0.97	1	14.1	230-1ø-60Hz	18.6	30.0	15.2	7.8	215	OR APPROVED EQUIVALENT, MOUNT ON CONCRETE OR FIBER

	SPLIT HEAT PUMP FAN COIL SCHEDULE - INDOOR UNIT												
TAG	MANU.	MODEL	LOCATION	SERVES	TONS	CFM	BLOWER FAN HP	VOLTAGE	ELECTRICA FLA	AL MCA	MOCP	WEIGHT (LBS.)	REMARKS
FC-1	GOODMAN	AMST30BU1400AA	MECH ROOM	MAIN INTERIOR	2.5	1000	0.75	230-1ø-60Hz	4.5	5.6	15	129	OR APPROVED EQUIVALENT

MINI-SPLIT HEAT PUMP CONDENSER SCHEDULE - OUTDOOR UNIT HSPF2 (LBS.) MODEL LOCATION SERVES TONS REF. REMARKS MANU. TOTAL SENSIBLE (EER2) EDB | EWB | MBH EDB EDB QTY. |FLA (EA.)| QTY. |RLA (EA.)| VOLTAGE MCA MOCP HP-2 MITSUBISHI EXTERIOR | R-410A | 45°F | 36.0 | 36.0 | 80°F | 47°F 31.0 PUZ-A36NKA7 20.4 17°F 0.5 8.0 | 208–1ø–60Hz | 25.0 8.6 214 (12.1) OR EQUIVALENT, MOUNTED ON EQUIPMENT PAD 17**°**F HP-3 MITSUBISHI PUZ-A12NKA7 EXTERIOR FC-3 1.0 | R-410A | 45°F | 12.0 | 12.0 | 80°F | 67°F | 95°F | 14.0 | 47°F 0.5 7.0 208-1ø-60Hz 11.0 28.0 9.4 93 (12.5)

	SPLIT HEAT PUMP FAN COIL SCHEDULE - INDOOR UNIT														
TAG	MANU.	MODEL	LOCATION	SERVES	TONS	CFM	BLOWER		ELECTRICA	AL.		WEIGHT	REMARKS		
IAG	MANU.	MODEL	LOCATION	SERVES	10113	CFIVI	FAN HP	VOLTAGE	FLA	MCA	MOCP	(LBS.)	KLWAKKS		
FC-2	MITSUBISHI	PEAD-A36AA8	IN CEILING	MASTER SUITE	3.0	1200	_	208-1ø-60Hz	2.60	3.25	-	84	OR EQUIVALENT, MOUNTED IN-ATTIC ON EQUIPMENT		
FC-3	MITSUBISHI	PEAD-A12AA8	IN CEILING	GUEST SUITE	1.0	400	_	208-1ø-60Hz	1.78	2.23	-	58	PLATFORM AS REQUIRED		

	EXHAUST FAN SCHEDULE														
TAG	TAG MANU. MODEL MOUNTING SERVES CFM E.S.P. RPM E.S.P. RPM E.S.P. RPM V. 4 Hz WATTS AMPS BUR UP SONES (LBS.) REMARKS														
			IIFL					V-ø-Hz	WATTS	AMPS	BHP	HP		(LD3.)	
EF-1	PANASONIC	FV-0511VF1	CEILING	BATH ROOMS & LAUNDRY	50	0.1"	795	115-1-60	4.0	0.08	-	-	<0.3	9.5	OR EQUIVALENT

FLEXIBLE CONNECTION -

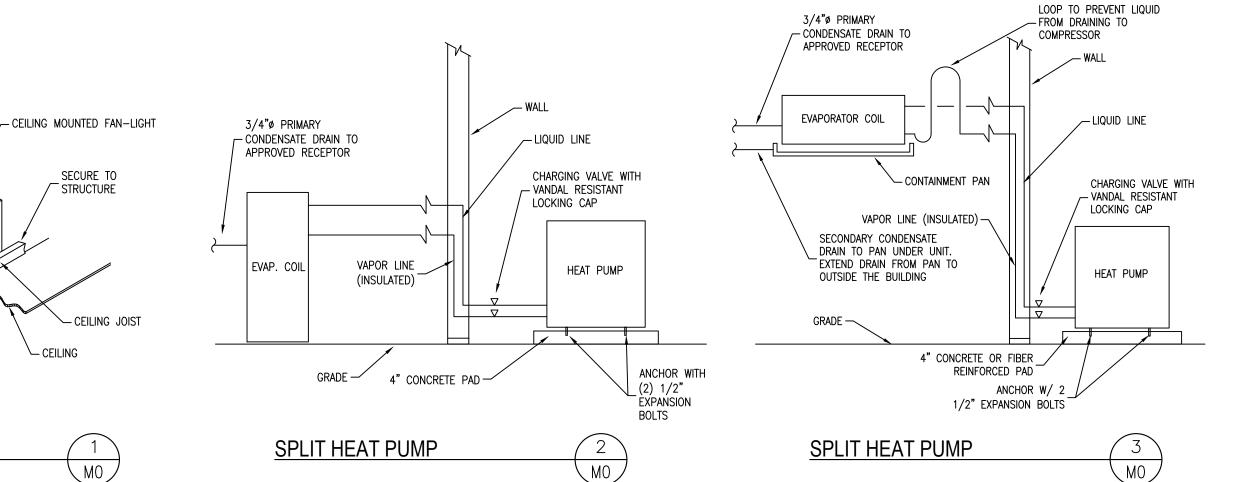
EXHAUST DUCT -

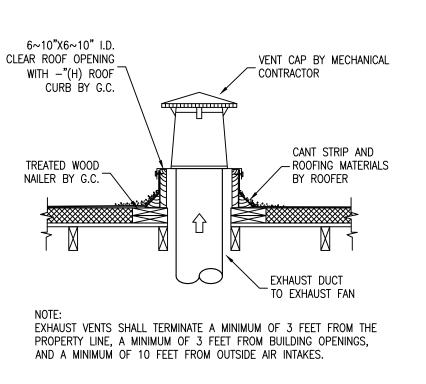
MOUNTING BRACKET

EXHAUST FAN

GRILLE FURNISHED WITH FA

SUPPLY REGISTER SIZING SCHEDULE											
CFM RATING	SIZE										
<65	8x4										
65-130	10x6										
130-200	12x8										
200-250	14x8										

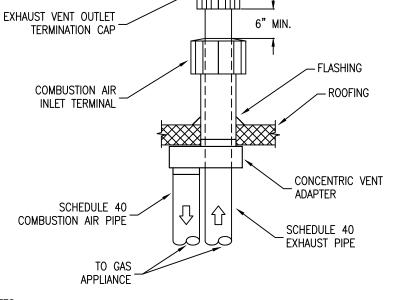






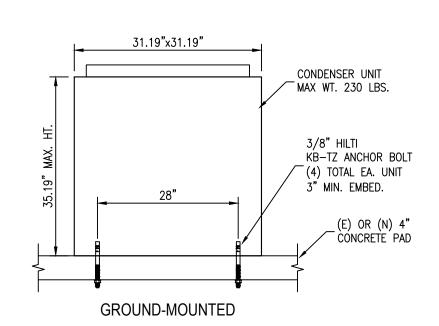
STRUCTURE

√M0

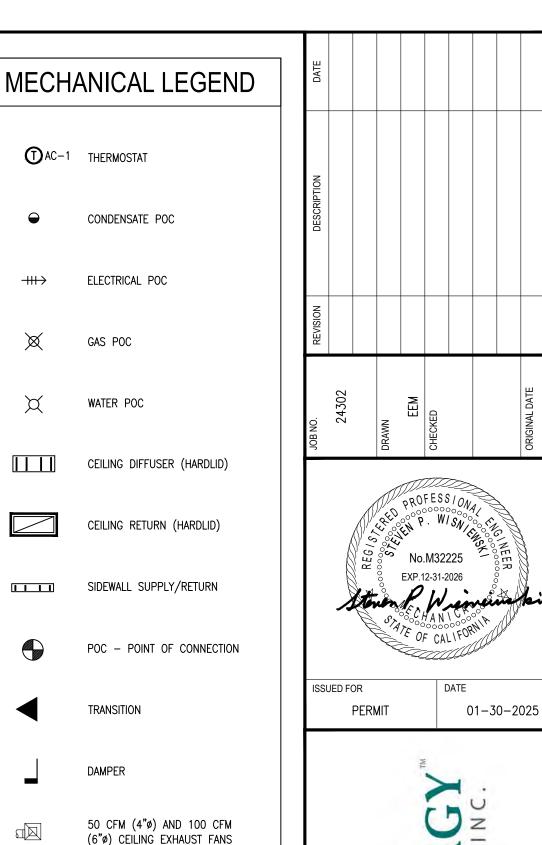


1. CONTRACTOR SHALL MAINTAIN CLEARANCES AROUND FLUE PIPE TO PREVENT HEAT MIGRATION AS TO NOT DAMAGE INSULATION. 2. CONTRACTOR SHALL PROVIDE HIGH TEMPERATURE INSULATION WHERE NECESSARY

CONCENTRIC VENT - ROOFTOP



CONDENSER UNIT TIE-DOWN



TAC-1 THERMOSTAT

CONDENSATE POC

ELECTRICAL POC

GAS POC

WATER POC

TRANSITION

DAMPER

DIAMETER

FA,TB FROM ABOVE, TO BELOW

FB,TA FROM BELOW, TO ABOVE

RETURN AIR

SUPPLY AIR

CUBIC FEET PER MINUTE

CFM

SA

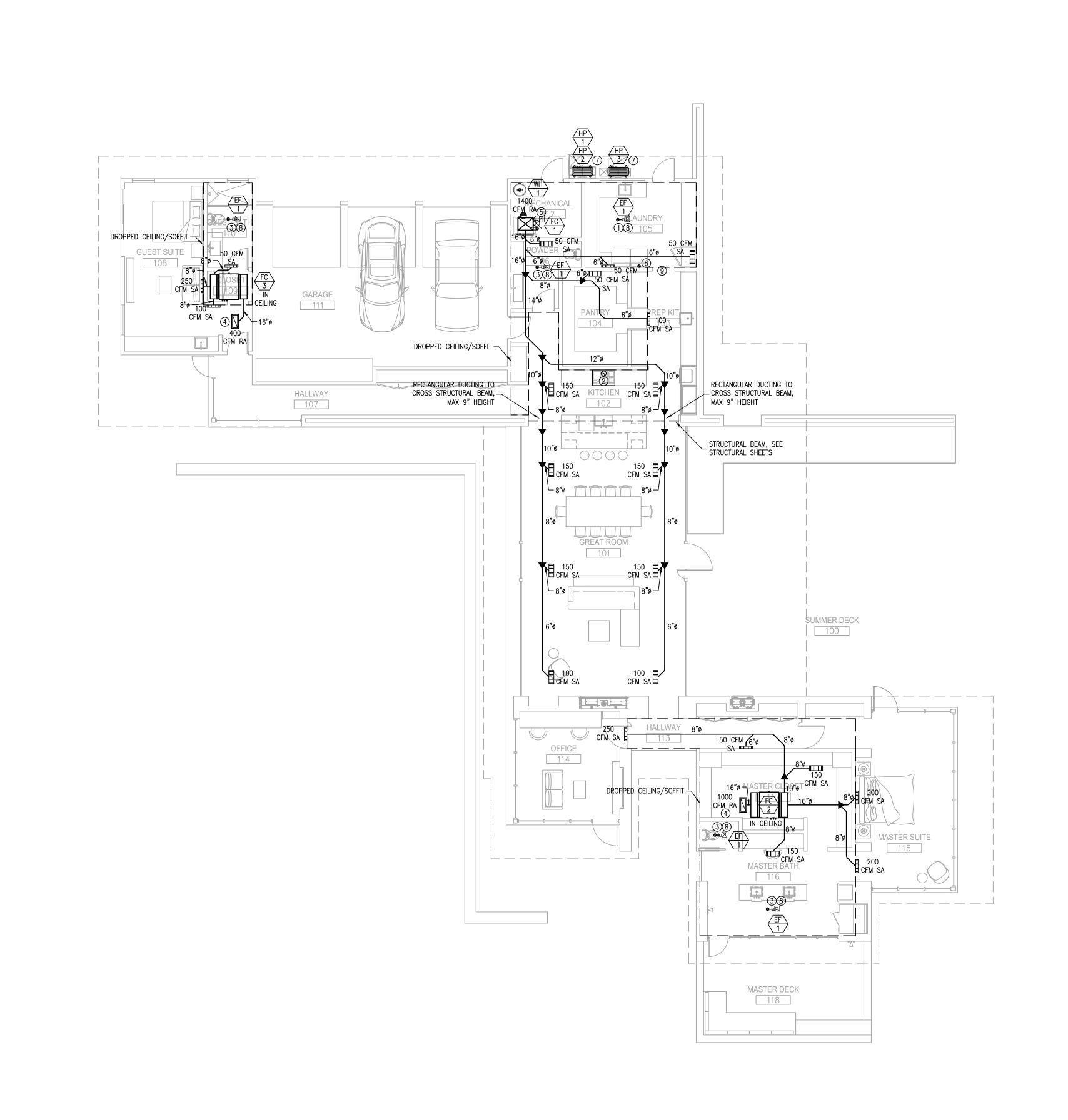


Ш S R RWIN Ш

S

SHEET NO.

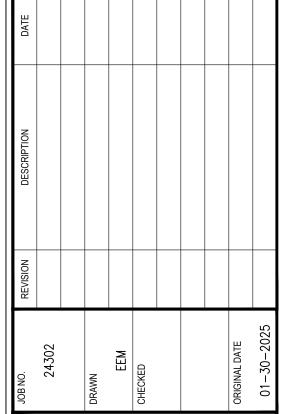
MECHANICAL GENERAL NOTES, SCHEDULES, & DETAILS

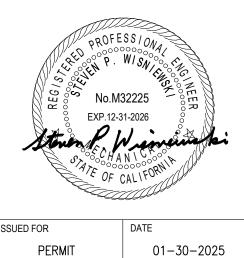


SHEET NOTES:

(E) EXISTING (N) NEW

- 2. ALL EQUIPMENT, DUCTWORK, FITTINGS,
- FIXTURES, AND PIPING ARE (N) U.O.N. 3. ALL CONCEALED DUCTWORK TO BE
- INSULATED WITH MINIMUM R-8, AND PERMITTED TO BE FLEX DUCT 4. ALL HVAC FILTER RACKS OR GRILLES
- ARE TO USE GASKETS, SEALING, OR OTHER MEANS TO CLOSE GAPS AROUND INSERTED FILTERS 5. THERMOSTATS TO BE INSTALLED AT
- 46" A.F.F. (TOP OF THERMOSTAT). DO NOT INSTALL THERMOSTATS OVER CASEWORK OR SHELVING OVER 24" IN DEPTH AND 34" IN HEIGHT
- 6. ALL DUCTWORK PENETRATIONS TO THE EXTERIOR OF BUILDING SHALL BE CORROSION—RESISTANT AND PROTECTED FROM INTRUSION BY WATER, INSECTS, ETC.
- PROVIDE FIRE STOPPING ASSEMBLY PROTECTION FOR DUCT PENETRATIONS OF RATED ASSEMBLIES. FIRE STOP RATING SHALL MATCH RATED ASSEMBLY BEING PENETRATED
- 8. COORDINATE FINAL GRILLE LOCATIONS WITH OWNER
- 9. CONTRACTOR TO ENSURE ALL EQUIPMENT IS INSTALLED WITH MAINTENANCE CLEARANCES PER MANUFACTURERS' RECOMMENDATIONS





PERMIT



KEY NOTES:

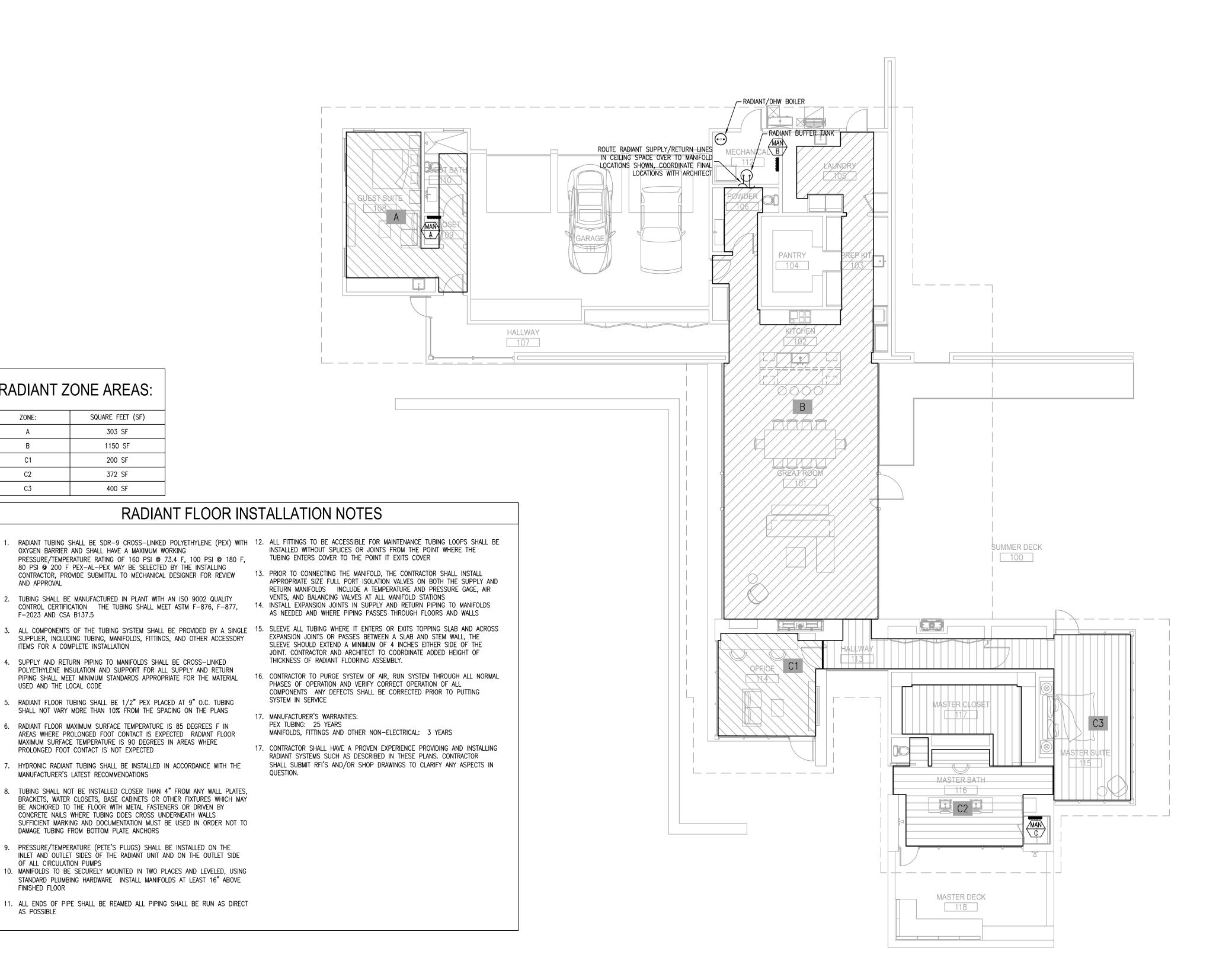
- ① EXHAUST FAN TO RUN CONTINUOUSLY AT 50 CFM PER TITLE 24 AND ASHRAE 62.2 REQUIREMENTS FOR WHOLE HOUSE VENTILATION, PROVIDE WITH SIGN NEXT TO FAN SWITCH INFORMING OWNER FAN IS TO RUN CONTINUOUSLY. MAX 1.0 SONE
- (2) KITCHEN HOOD TO PROVIDE MINIMUM 110 CFM OF EXHAUST AIR PER TABLE 150.0-G, AND MAX 3.0 SONES PER TITLE 24. HOOD TO BE INSTALLED PER REQUIRED CODE AND MANUFACTURER'S RECOMMENDATIONS
- 3 BATHROOM EXHAUST FAN TO PROVIDE MINIMUM OF 50 CFM OF EXHAUST AIR PER TITLE 24. MAX 1.0 SONE
- 4 RETURN AIR GRILLE WITH FILTER FRAME (5) RETURN AIR GRILLE WITH FILTER MOUNTED DIRECTLY ON RA PLENUM
- 6 4"ø DRYER VENT TO ROOF, VENT PER MANUFACTURER INSTRUCTIONS PER CMC 504.4.2.1. VERIFY VENT LENGTH DOES NOT EXCEED 14', PROVIDE ACCESSIBLE BOOSTER FAN AS REQUIRED
- 7 NEW HVAC CONDENSING UNIT, FINALIZE LOCATION OF CONDENSER(S) WITH OWNER. CONDENSING UNITS TO BE PLACED ON FIBER REINFORCED OR CONCRETE PAD. CONTRACTOR TO PROVIDE MAINTENANCE OUTLET WITHIN 25' OF CONDENSING UNIT.
- 8 4"ø EXHAUST VENT TO ROOF
- Sure installation of (1) 16"X14"
 LOUVER IN DOOR TO PROVIDE DRYER
 MAKEUP AIR PER CMC 504.4.1

SERWIN

93923 24 TEMAHA CARMEL, CA.

MECHANICAL PLAN

SHEET NO.





01-30-2025



RADIANT ZONING PLAN

SHEET NO.

RADIANT ZONE AREAS:

ZONE:

В C1

C2

AND APPROVAL

F-2023 AND CSA B137.5

USED AND THE LOCAL CODE

OF ALL CIRCULATION PUMPS

FINISHED FLOOR

AS POSSIBLE

ITEMS FOR A COMPLETE INSTALLATION

PROLONGED FOOT CONTACT IS NOT EXPECTED

MANUFACTURER'S LATEST RECOMMENDATIONS

DAMAGE TUBING FROM BOTTOM PLATE ANCHORS

SQUARE FEET (SF)

303 SF 1150 SF

200 SF

372 SF 400 SF

OXYGEN BARRIER AND SHALL HAVE A MAXIMUM WORKING

PRESSURE/TEMPERATURE RATING OF 160 PSI @ 73.4 F, 100 PSI @ 180 F, 80 PSI @ 200 F PEX-AL-PEX MAY BE SELECTED BY THE INSTALLING

SUPPLIER, INCLUDING TUBING, MANIFOLDS, FITTINGS, AND OTHER ACCESSORY

PIPING SHALL MEET MINIMUM STANDARDS APPROPRIATE FOR THE MATERIAL

CONTRACTOR, PROVIDE SUBMITTAL TO MECHANICAL DESIGNER FOR REVIEW

2. TUBING SHALL BE MANUFACTURED IN PLANT WITH AN ISO 9002 QUALITY

4. SUPPLY AND RETURN PIPING TO MANIFOLDS SHALL BE CROSS-LINKED POLYETHYLENE INSULATION AND SUPPORT FOR ALL SUPPLY AND RETURN

5. RADIANT FLOOR TUBING SHALL BE 1/2" PEX PLACED AT 9" O.C. TUBING SHALL NOT VARY MORE THAN 10% FROM THE SPACING ON THE PLANS

6. RADIANT FLOOR MAXIMUM SURFACE TEMPERATURE IS 85 DEGREES F IN

AREAS WHERE PROLONGED FOOT CONTACT IS EXPECTED RADIANT FLOOR MAXIMUM SURFACE TEMPERATURE IS 90 DEGREES IN AREAS WHERE

7. HYDRONIC RADIANT TUBING SHALL BE INSTALLED IN ACCORDANCE WITH THE

8. TUBING SHALL NOT BE INSTALLED CLOSER THAN 4" FROM ANY WALL PLATES, BRACKETS, WATER CLOSETS, BASE CABINETS OR OTHER FIXTURES WHICH MAY BE ANCHORED TO THE FLOOR WITH METAL FASTENERS OR DRIVEN BY CONCRETE NAILS WHERE TUBING DOES CROSS UNDERNEATH WALLS

9. PRESSURE/TEMPERATURE (PETE'S PLUGS) SHALL BE INSTALLED ON THE INLET AND OUTLET SIDES OF THE RADIANT UNIT AND ON THE OUTLET SIDE

10. MANIFOLDS TO BE SECURELY MOUNTED IN TWO PLACES AND LEVELED, USING STANDARD PLUMBING HARDWARE INSTALL MANIFOLDS AT LEAST 16" ABOVE

11. ALL ENDS OF PIPE SHALL BE REAMED ALL PIPING SHALL BE RUN AS DIRECT

SUFFICIENT MARKING AND DOCUMENTATION MUST BE USED IN ORDER NOT TO

RESIDENTIAL CALGREEN PLUMBING NOTES

- 1) ENHANCED DURABILITY AND REDUCED MAINTENANCE: 4.406.1 ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENINGS IN PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR SIMILAR METHOD ACCEPTABLE TO THE ENFORCING AGENCY
- BUILDING MAINTENANCE AND OPERATION: 4.410.1 AN OPERATION AND MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OCCUPANT OR OWNER
- 3) INDOOR WATER USE

A) PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) INSTALLED IN RESIDENTIAL BUILDINGS SHALL COMPLY WITH THE PRESCRIPTIVE REQUIREMENTS OF SECTIONS 4.303.1.1 THROUGH 4.303.1.4.4

B) PLUMBING FIXTURES AND FITTINGS REQUIRED IN SECTION 4.303.1 SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, AND SHALL MEET THE APPLICABLE REFERENCED STANDARDS.

PIPING SCHEDULE										
TYPE	SIZE	JOINING METHOD	NOTES							
SANITARY WASTE BELOW GRADE	ALL	SOLVENT	ABS							
SANITARY WASTE ABOVE GRADE	ALL	SOLVENT	ABS							
SANITARY VENT	ALL	SOLVENT	ABS							
CONDENSATE PIPING	ALL	SOLVENT	PVC/CPVC							
CONDENSATE PIPING EXPOSED	ALL	SOLVENT	PVC/CPVC (PROTECTED WITH WATER-BASED LATEX PAINT)							
GAS PIPING BELOW GRADE	ALL	COMPRESSION	POLYETHYLENE							
GAS PIPING ABOVE GRADE	ALL	THREADED	GALVANIZED STEEL							
DOMESTIC WATER	ALL	95/5 SOLDER	TYPE "L" OR "K" COPPER W/SEISMIC BRACING							

Р	PLUMBING FIXTURE CONNECTION SCHEDULE											
FIXTURE TAG	FIXTURE TYPE	TRAP SIZE	WASTE SIZE	VENT SIZE	CW SIZE	HW SIZE						
BT-1	BATH TUB/SHOWER	2"	2"	1-1/2"	1/2"	1/2"						
CW-1	CLOTHES WASHER	2"	2"	1-1/2"	1/2"	1/2"						
DW-1	DISHWASHER	1-1/2"	2"	1-1/2"	_	1/2"						
SK-1	KITCHEN SINK	1-1/2"	2"	1-1/2"	1/2"	1/2"						
SK-2	BAR SINK	1-1/2"	2"	1-1/2"	1/2"	1/2"						
LS-1	LAUNDRY SINK	1-1/2"	2"	1-1/2"	1/2"	1/2"						
HB-1	HOSE BIBB	_	-	_	1/2"	_						
LAV-1	LAVATORY	1-1/4"	1-1/2"	1-1/4"	1/2"	1/2"						
SH-1	SHOWER	2"	2"	1-1/2"	1/2"	1/2"						
WC-1	WATER CLOSET - GRAVITY	INTEGRAL	3"	2"	1/2"	_						
FD-1	FLOOR DRAIN	1-1/2"	2"	1-1/2"	_	_						

PIPE INSULATION SCHEDULE												
TYPE	DIAMETER SIZE (INCHES)	FLUID TEMP RANGE (°F)	INSULATION CONDUCTIVITY (BTU*INCH/HR*FT ² **F)	INSULATION THICKNESS (INCHES)								
DOMESTIC HOT WATER	<1	105-140	0.22-0.28	1								
DOMESTIC HOT WATER	1 OR LARGER	105-140	0.22-0.28	1-1/2								

	GAS TANK WATER HEATER SCHEDULE												
SYMBOL	MANU.	MODEL	LOCATION	RECOVERY AT 60°F ΔT	NAT. GAS INPUT (MBH)	EFF	CAPACITY (GAL)	VOLTAGE	REMARKS				
WH-1	AO SMITH	BTR-199	MECHANICAL ROOM	307	199	_	81	115-1ø-60Hz	INSTALL TMV-1 TO ENSURE 120°F SETPOINT, TO SERVE BOTH DHW AND RADIANT				

	CIRCULATION PUMP SCHEDULE												
SYMBOL	MANU.	MODEL	SERVES		ELECTRICAL		WEIGHT	REMARKS					
JIMDUL	IWIANU.	MIODEL	SEINVES	HP	VOLTAGE	AMPS	(LBS)	KEMMKNO					
CP-1	BELL & GOSSETT	LR-15B	WH-1	1/12	115-1ø-60Hz	1.1	13.1	INTERMITTENTLY DURING 'WAKING'					

RADIANT HEATING EQUIPMENT											
TAG	FIXTURE	MANU.	MODEL NO.	REMARKS							
BT-1	RADIANT HOT WATER BUFFER TANK	-	-	-							

SEDIMENT TRAP

TO EQUIPMENT INLET NIPPLE CAP 3" MIN.	UNION (TYP) CIRCULATION PUMP, INSTALL ON VERTICAL PIPE SECTION HOSE BIBB CHECK VALVE (TYP) COLD WATER IN COT EXPANSION TANK SEISMIC WALL STRAP AT UPPER AND LOWER 1/3, PROVIDE 3 STRAPS WHEN OVER 50 GALS MOUNTING SURFACE NOTES: 1. INSULATE ALL HOT WATER PIPING PER CENC 2. (FOR GAS UNITS) INSTALL SEDIMENT TRAP ON GAS SUPPLY PIPE, MINIMUM LENGTH OF 3"
	 2. (FOR GAS UNITS) INSTALL SEDIMENT TRAP ON GAS SUPPLY PIPE, MINIMUM LENGTH OF 3" 3. ENSURE INSTALLATION OF HOT WATER CIRCULATION SYSTEM
	COMPLIES WITH CENC

TANK WATER HEATER WITH HW CIRC

FIXTURE TYPE	NO.	SEWER		COLD WATER		HOT WATER		TOTAL WATER		
		FU	TOTAL	FU	TOTAL	FU	TOTAL	FU		
BAR SINK	2	2	4	2	4	1.5	3	4		
CLOTHES WASHER	1	3	3	4	4	3	3	4		
DISHWASHER	1	2	2	0	0	1.5	1.5	1.5		
HOSE BIBB (FIRST)	1	0	0	2.5	2.5	0	0	2.5		
HOSE BIBB (ADDITIONAL)	3	0	0	1	3	0	0	3		
KITCHEN SINK (DOMESTIC)	1	2	2	1.5	1.5	1.125	1.125	1.5		
LAUNDRYSINK	1	2	2	1.5	1.5	1.125	1.125	1.5		
LAVATORY	4	1	4	1	4	0.75	3	4		
FLOOR DRAIN	1	2	2	0	0	0	0	0		
SHOWER	3	2	6	2	6	1.5	4.5	6		
WATER CLOSET - GRAVITY	3	4	12	2.5	7.5	0	0	7.5		
MISC EQUIP (ICE, SODA, COFFEE)	1	1	1	0.5	0.5	0	0	0.5		
TOTAL FU			38.0		34.5		17.3	36.0		
EQUIVALENT COLD WATER FLOW RA	ATE (GPM):				23					
PRESSURE AVAILABLE AT MAIN (PSI) :				50					
MINIMUM REQUIRED FIXTURE PRES	SURE (PSI):				8					
ELEVATION LOSS (PSI):				1.3		#	# OF FLOORS:			
METER LOSS (PSI):				3.7 SIZE (INCHE			IZE (INCHES):	1		
BACKFLOW PREVENTER LOSS (PSI): 10										
EQUIVALENT PIPE LENGTH FROM M	ETER TO MOS	T REMOTE F	IXTURE (FT):		1000					
FRICTION LOSS PRESSURE AVAILAB	BLE (PSI):				27.00					
MAXIMUM ALLOWABLE FRICTION LOSS (PSI/100 FT):					2.16					
MINIMUM REQUIRED 'WATER' PIPE SIZE (INCHES):					2					
MINIMUM REQUIRED 'SEWER' PIPE S	SIZE (INCHES)	:			4					
SIZE: TYPE L COPPER		CW MAX FLOW		CWFIXTURE UNIT		HW MAX FLOW		HW		
NOMINAL DIAMETER (INCHES)	INTERNAL DIAMETER	GPM	FPS		FLUSH GPM FPS		FPS	FIXTURE UNIT		
1/2	0.545	1.5	2.0		0	1.5	2.0	0		

3/4

1-1/4

2-1/2"

0.785

1.025

1.265

1.505

1.985

2.465

3.8

7.7

21.2

43.9

13.4 3.4

77.6 5.2

2.5

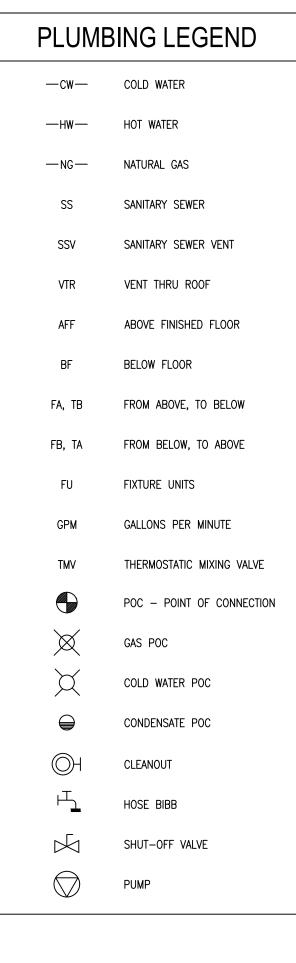
3.0

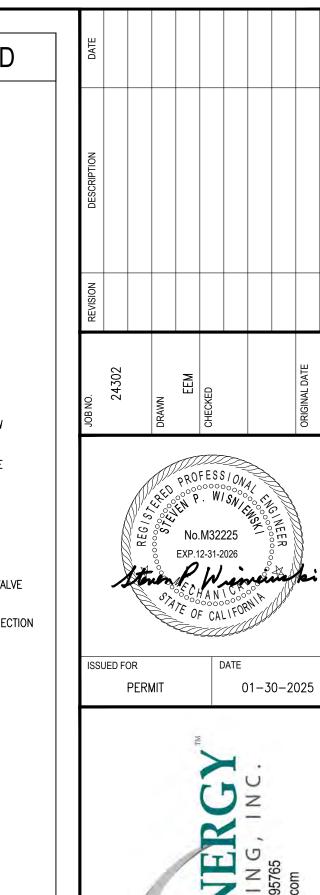
3.8

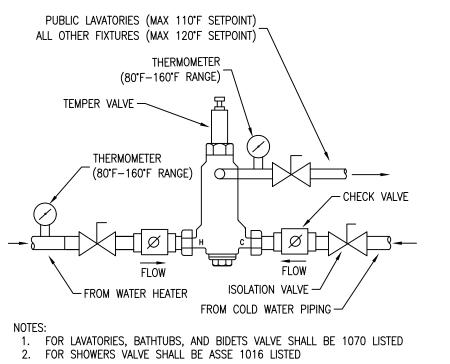
4.6

(CALCULATIONS PER CPC APPENDIX A)

APPLIANCE TYPE	NO.	INPUT PER	INPUT TOTAL		NOMINAL DIAMETER (INCHES)	MAX CAPACITY (CFH)
		BTU	BTU	CFH	(11401120)	(3)
FIREPLACE	2	80000	160000	160	1/2	40
GAS RANGE	1	100000	100000	100	3/4	83
GAS DRYER (FUTURE)	1	35000	35000	35	1	157
OUTDOOR SPA	1	240000	240000	240	1-1/4	322
GAS WH	1	200000	200000	200	1-1/2	482
					2	928
TOTAL				735.0		
GAS SERVICE TYPE:			NAT	TURAL GAS	CALCULATIONS PER CPO	C TABLE 1215.2(1)
PRESSURE AVAILABLE AT METE	R:			< 2 PSI	RUNOUTS TO APPLIANCE	ES LESS THAN 3FT TO
EQUIVALENT PIPE LENGTH FRO	M METER TO MO	OST REMOTE AP	PPLIANCE (FT	150	BE THE SAME SIZE AS AP S.O.V. AHEAD OF UNION, APPLIANCE. S.O.V. AND U	WITHIN 3FT OF EACH
MINIMUM REQUIRED 'GAS MAIN'	PIPE SIZE (INCH	IES):		2	APPROVED.	







4

18

103

264

3.8

7.7

21.2

43.9

13.4

2.5

3.0

3.4

3.8

4.6

74.4 5.0 245

4

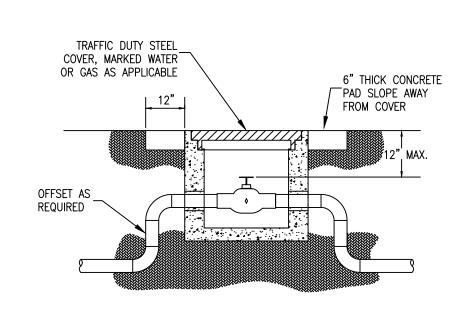
10

18

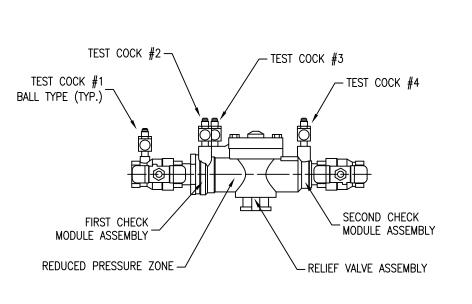
32

103

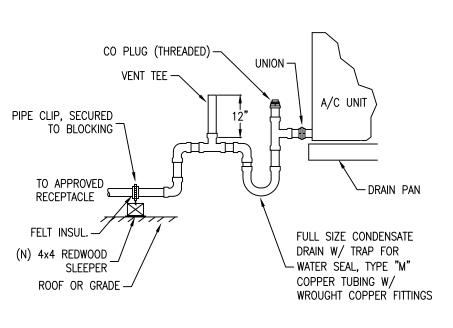
THERMOSTATIC MIXING VALVE



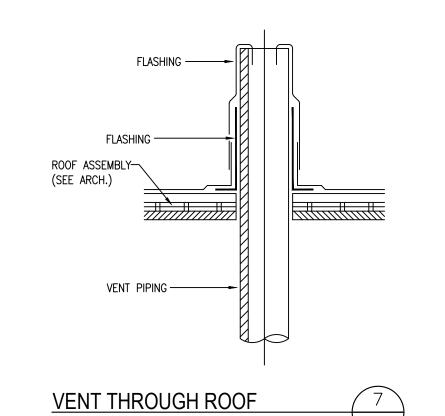
SHUT-OFF VALVE



BACKFLOW PREVENTER (3) P0

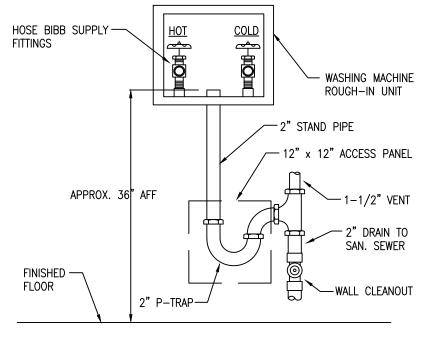


CONDENSATE DRAIN

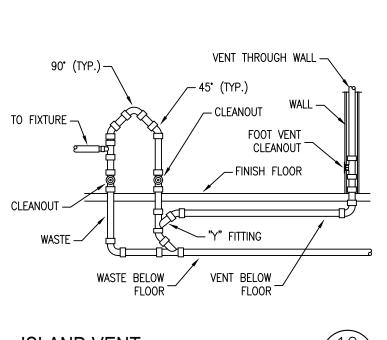


┌5/8"HOSE FROM DISHWASHER 7/8" DISHWASHER DRAIN HOSE

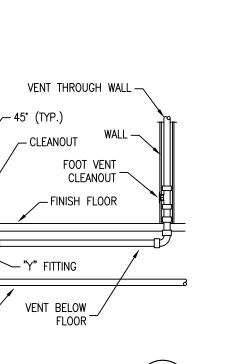
DISHWASHING MACHINE DRAIN



WASHING MACHINE HOOK-UP



ISLAND VENT



PO

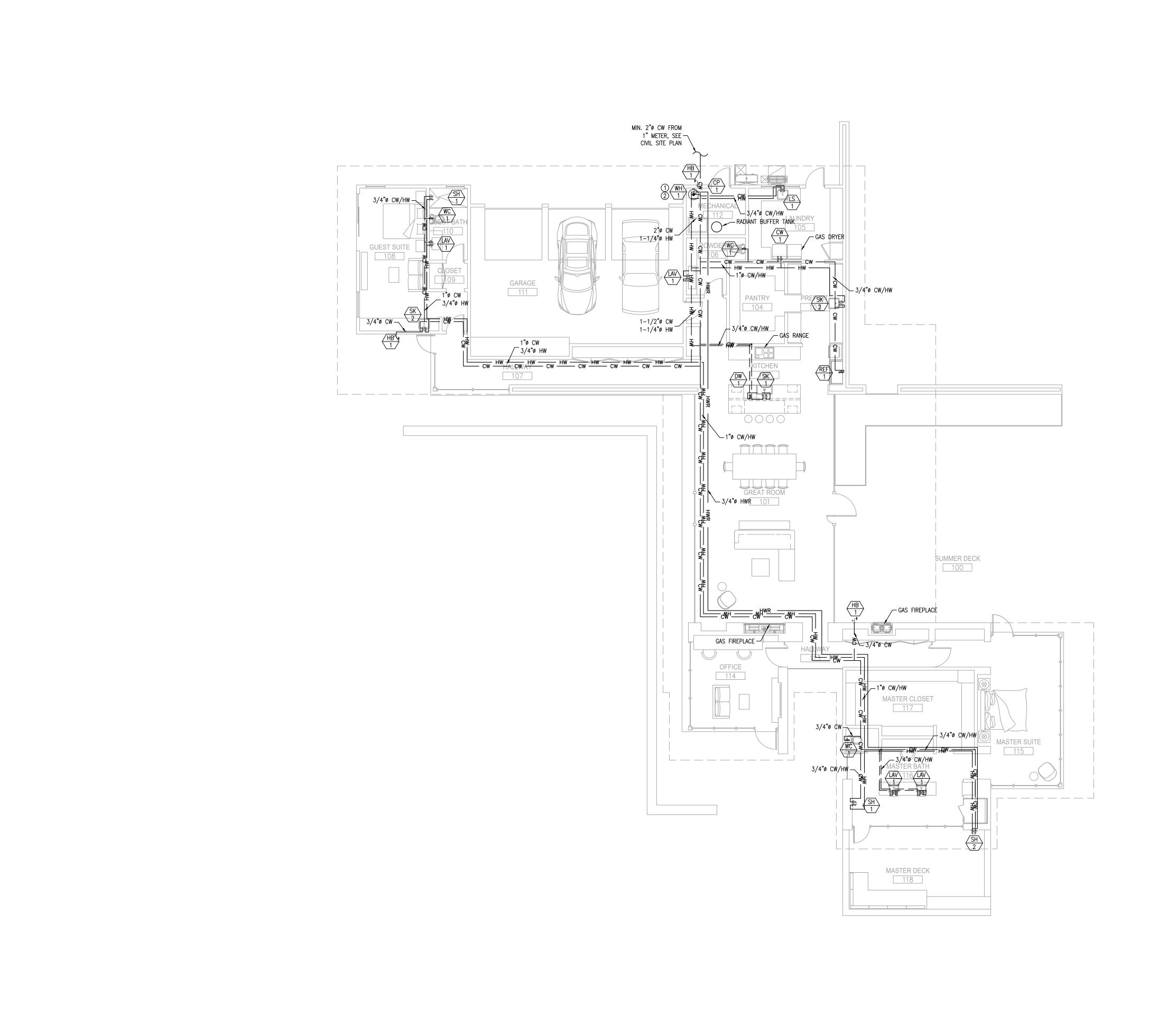
PLUMBING GENERAL NOTES, CALCS, & **DETAILS**

93923

24 TEMAHA CARMEL, CA.

SERWIN RESIDENCE

SHEET NO.



SHEET NOTES:

ALL EQUIPMENT, FITTINGS, FIXTURES, AND PIPING ARE (N) U.O.N.

2. ALL PLUMBING FIXTURE FLOW RATES

SHALL COMPLY WITH CGBC 4.303.1 & 4.303.2

3. ALL DOMESTIC HOT WATER POTABLE PIPING SYSTEMS SHALL BE INSULATED, AND THE INSULATION THICKNESS SHALL BE BASED ON THE CONDUCTIVITY RANGE IN TABLE 120.3-A. REFERENCE THE 2022 CALIFORNIA ENERGY CODE SECTION 150.0 (J).

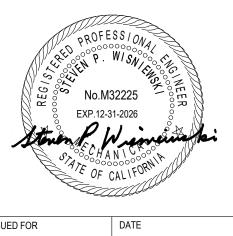
NEW WATER PIPING SHALL NOT BE INSTALLED IN OR UNDER A CONCRETE SLAB RESTING ON GRADE AND NEW SLABS SHALL NOT BE INSTALLED OVER EXISTING WATER PIPING. EXCEPTION: SHORT BRANCHES THAT SERVE ONLY AN ISOLATED ISLAND TYPE FIXTURE.

5. ENSURE INSTALLATION OF BACKFLOW PREVENTION DEVICE

6. CONTROL VALVES AND SHOWER HEADS SHALL BE LOCATED ON THE SIDEWALL OF SHOWER COMPARTMENT OR OTHERWISE ARRANGED SO THAT THE SHOWERHEAD DOES NOT DISCHARGE DIRECTLY AT THE ENTRANCE TO THE COMPARTMENT AND THE BATHER CAN ADJUST THE VALVES PRIOR TO STEPPING INTO THE SHOWER SPRAY PER CPC 408.9.

ENSURE ALL HOSE BIBBS HAVE APPROVED ANTI–SIPHON DEVICE PER CPC 603.3

8. PROTECT ALL PLASTIC AND COPPER PIPING RUNNING THROUGH FRAMING MEMBERS WITHIN 1" OF EXPOSED FRAMING WITH MIN. 18 GAUGE STEEL NAIL PLATES



PERMIT 01-30-2025



KEY NOTES:

INSTALL TMV-1 TO ENSURE
 TEMPERATURE NO GREATER THAN 120°F.
 PROVIDE ISOLATION VALVES WITH HOSE
 BIBBS TO ALLOW FOR FLUSHING

2"ø CW CONNECTIONS AT WATER HEATER

SERWIN RESIDENCE

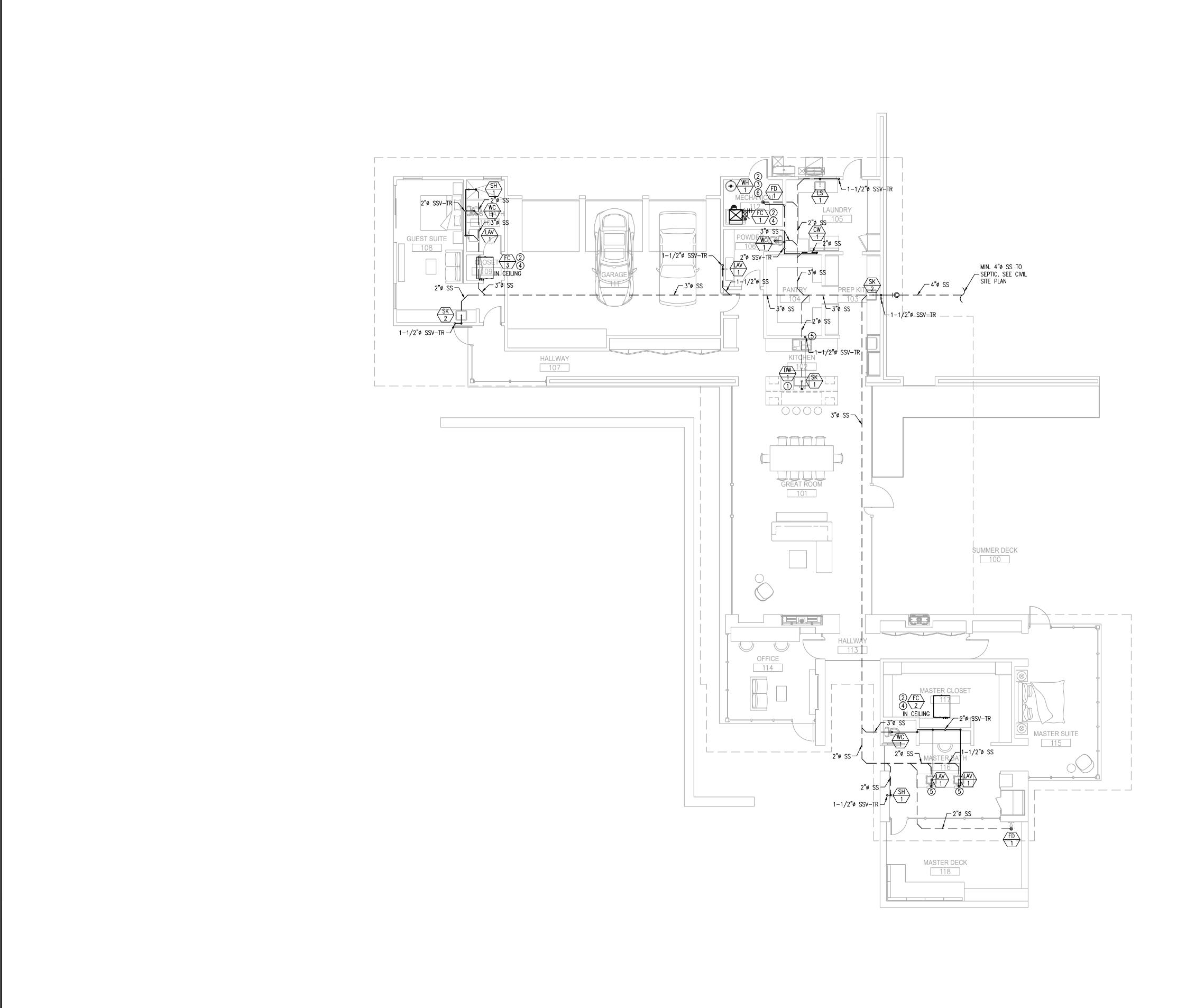
24 TEMAHA CARMEL, CA.

PLUMBING PLAN -WATER & GAS

P1

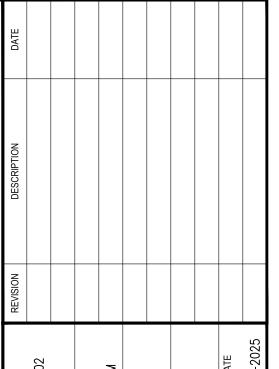
PLUMBING PLAN - WATER & GAS

SCALE: 1/4"=1'-0"



SHEET NOTES:

- ALL EQUIPMENT, FITTINGS, FIXTURES, AND PIPING ARE (N) U.O.N.
- ENSURE 1/4" PER 1 FT. SLOPE FOR SANITARY SEWER PIPING
- 3. ENSURE MINIMUM 1/8" PER FOOT SLOPE FOR ALL CONDENSATE PIPING AND INSTALL PER CPC 814. ALL CONDENSATE PIPING SHALL BE 3/4"ø
 U.O.N. OR LARGER IF RECOMMENDED
 BY THE MANUFACTURER
- 4. ENSURE CLEANOUT TO GRADE EXISTS
- 5. PROVIDE WALL CLEANOUTS AT ALL LAVATORIES AND HAND SINKS
- 6. NO UNDER-FLOOR CLEANOUT SHALL
 BE LOCATED MORE THAN 5 FEET FROM
 AN ACCESS DOOR, TRAP DOOR, OR
 CRAWL HOLE. CPC 707.9





PERMIT



KEY NOTES:

- 3 RELIEF VALVE TO DRAIN TO APPROVED LOCATION
- CMC 310.2(2)

- ① DISHWASHER TO DRAIN TO GARBAGE DISPOSAL IN SINK
- PVC CONDENSATE TO DRAIN TO APPROVED RECEPTOR
- 4 SECONDARY CONDENSATE FROM SECONDARY CONTAINMENT PAN, DRAIN TO VISIBLE LOCATION PER
- 5) PROVIDE FOOT VENT CLEANOUT FOR ISLAND SINK PER CPC 909

CPVC CONDENSATE FOR CONDENSING GAS APPLIANCE TO DRAIN TO APPROVED RECEPTOR

SERWIN RESIDENCE 24 TEMAHA CARMEL, CA.

PLUMBING PLAN -SEWER & VENT

93923

SHEET NO.

P2

PLUMBING PLAN - SEWER & VENT

SCALE: 1/8"=1'-0"

