

APPLICANT AGREEMENT

APPLICANT AGREES TO PROVIDE ALL NECESSARY INFORMATION REQUIRED TO COMPLETE THESE CONSTRUCTION DOCUMENTS. MODIFICATIONS TO THE PERMIT READY DOCUMENTS PROVIDED BY DESIGN PATH STUDIO ARE TO BE DISCLOSED BY THE APPLICANT AND APPROVED BY THE AUTHORITY HAVING JURISDICTION. ANY MODIFICATIONS TO THESE CONSTRUCTION DOCUMENTS REQUIRES EACH SHEET TO BE SIGNED BY THE PERSON WHO MADE THE CHANGES. ANY ADDITIONAL SHEETS INCORPORATED INTO THESE DOCUMENTS ALSO REQUIRE A SIGNATURE BY THE PERSON WHO PREPARED THE INFORMATION, THE FOUNDATION DESIGN FOR THESE PERMIT READY CONSTRUCTION DOCUMENTS ASSUMES STANDARD SOILS CONDITIONS AND LEVEL TOPOGRAPHY. IF SITE SPECIFIC CONDITIONS REQUIRE A FOUNDATION DESIGN BEYOND WHAT IS PROVIDED IN THESE DOCUMENTS THEN THE APPLICANT IS TO PROVIDE A NEW FOUNDATION DESIGN WHICH COMPLIES WITH THE RECOMMENDATIONS OF THE GEOGRAPHICAL ENGINEER'S REPORT.

BY SIGNING BELOW THE APPLICANT AGREES TO THE STATEMENT ABOVE AND WILL COMPLY WITH ALL LOCAL CODE REQUIREMENTS.

SIGNATURE: _____ DATE: _____

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ZONING INFORMATION

Site Address:
Main Residence: CONTACT CITY OF ENCINITAS FOR THE INFORMATION BELOW
planning@encinitas.gov PHONE:(760)633-2710
Address:
FUTURE ADU:
Address:
General Plan Designation :RESIDENTIAL
Zoning :☐ SINGLE FAMILY RESIDENTIAL☐ MULTI-FAMILY
Overlay :
IF SITE IS LOCATED IN THE SPECIAL STUDIES OVERLAY WITH NATURALLY STEEP SLOPES (25% OR GRADIENT OR STEEP) ON SITE, PROVIDE A SLOPE ANALYSIS PER EMC30.34.03.O.A AND B,
AND SHOW ANY REQUIRED FUEL MODIFICATION BUFFERS/OVERLAID ON SITE PLAN.
GROSS LOT AREA:
NET LOT AREA (LIST DEDUCTIONS PER CH 30.04) :
NET ACREAGE (LIST DEDUCTIONS PER 30.04) :
LOT COVERAGE CALCULATION: BUILDING FOOTPRINT/NET LOT AREA = .XX(100) = XX%
ALLOWABLE LOT COVERAGE :
EXISTING LOT COVERAGE :
PROPOSED LOT COVERAGE :
(1ST 800 SQ.FT. OF ADU IS EXEMPT FROM LOT COVERAGE CALCULATION)
EXISTING HABITABLE SQ. FT. :
FLOOR AREA : LIVING AREA (HABITABLE SF)
GARAGE (IN EXCESS OF 400SF.)
ADU (IN EXCESS OF 800SF.)
TOTAL FLOOR AREA:
FLOOR AREA RATIO CALCULATION: FLOOR AREA/GROSS LOT AREA = .XX
ALLOWABLE FAR :
EXISTING FAR :
PROPOSED FAR :
Average Lot Slope %:
ADU Setbacks Allowed : PROPOSED :
Front– Front–
Rear– Rear–
Side– Side–
Street Side– Street Side–
ADU Setbacks From Main Residence
Allowed : Proposed :
Off Street Parking : Required: Provided:
Building Areas:
(E) MAIN RESIDENCE (HABITABLE AREA):
(E) MAIN RESIDENCE GARAGE:
(E) MAIN RESIDENCE DECKS:
(E) DETACHED STRUCTURES:
(N) DETACHED ADU:
(N) ADU PORCH:

DIRECTORY

PROPERTY OWNER:
Name:
Address:
Phone:
Email:
Building Department:
City Of Encinitas
505 S VULCAN AVE.
ENCINITAS, CA 92024
PHONE:.. (760) 633-2730
Permit Ready Plans Prepared By:
Design Path Studio
P.O. BOX 230165
ENCINITAS, CA 32024
PHONE: (619) 292-8807
Site Plan & Title Sheet Information Prepared by:
Company:
Contact Person:
Address:
Phone:
Email:

HRS NOTES

1. PROPERLY COMPLETED AND ELECTRONICALLY SIGNED CERTIFICATE OF INSTALLATION (CF2R FORMS) SHALL BE POSTED WEATHER PROTECTED WITHIN BUILDING FOR REVIEW BY INSPECTORS – EES 10-103(A)3, 10-103(B)1.A ~ BY THE INSTALLING CONTRACTOR AND SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION AT THE SITE. FOR PROJECTS REQUIRING HERS VERIFICATION, THE CF2R FORMS SHALL BE REGISTERED WITH A CALIFORNIA APPROVED HERS PROVIDER DATA REGISTRY WITH ITS OWN UNIQUE 21 DIGIT REGISTRATION NUMBER LOCATED AT THE BOTTOM OF EACH PAGE. THE FIRST 12 DIGITS WILL MATCH THE REGISTRATION NUMBER ASSOCIATED WITH THE CFIR FORM.
CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THE CF2R FORMS ARE REVIEWED AND APPROVED.
2. PROPERLY COMPLETED & ELECTRONICALLY SIGNED & REGISTERED CERTIFICATE(S) OF FIELD VERIFICATION AND DIAGNOSTIC TESTING (CF3R) SHALL BE POSTED WEATHER PROTECTED WITHIN THE BUILDING SITE BY A CERTIFIED HERS RATER. A REGISTERED CF3R WILL HAVE A UNIQUE 26 DIGIT REGISTRATION NUMBER LOCATED AT THE BOTTOM OF EACH PAGE. THE FIRST 20 DIGITS OF THE NUMBER WILL MATCH THE REGISTRATION NUMBER ASSOCIATED WITH THE CF2R. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THE CF3R IS REVIEWED AND APPROVED. EES 10-103(A)3, 10-103(B)1.A.
3. CFIR REGISTRATION FORMS ARE LOCATED ON THE PLANS. A WATER-MARK AND REGISTRATION NUMBER WILL BE VISIBLE.
4. HERS TESTS REQUIRED FOR THIS PROJECT ARE:
REFRIGERANT CHARGE VERIFIED HEAT PUMP HEATING CAPACITY
KITCHEN RANGE HOOD CFM VERIFICATION(100 CFM & ≤ 3 ZONES, CEC LISTED)
IAQ MECHANICAL VENTILATION – STUDIO=25, 1BED–31 CFM, 2BED–44 CFM, 3BED – 57 CFM
5. FOR IAQ FAN – ABOVE CFM REQUIRED FOR A CONTINUOUSLY OPERATING EXHAUST FAN. PROVIDE A TIMER SWITCH WITH A MANUAL OFF AND A SOUND RATING OF 1 SONE (3 SONES MAX FOR AN INTERMITTENT FAN). THIS FAN TO PROVIDE WHOLE BUILDING INDOOR AIR QUALITY VENTILATION WITH OUTDOOR AIR IN COMPLIANCE WITH ASHRAE STANDARO 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMMISSION.
6. SOLAR IS REQUIRED FOR THIS PROJECT –
STUDIO – SOLAR EXEMPTION TAKEN.
1 BED – SOLAR EXEMPTION TAKEN.
2 BED – 1.86 KWDC IS THE MIN P.V. REQUIRED TO MEET THE STANDARD DESIGN.
3 BED – 2.15 KWDC IS THE MIN P.V. REQUIRED TO MEET THE STANDARD DESIGN.
7. SPECIAL FEATURES: Exposed Slab Flooring, Overhangs were modeled (no side fins, and an NEEA rated heat pump water heater is required.)

Average Lot Slope Calculation:-per Ch30.16.0108bb
FOR LOTS THAT EXCEED AN AVERAGE LOT SLOPE OF 10% ADDITIONAL HEIGHT RESTRICTIONS WILL APPLY PER EMC30.16
Lot Run Line #1: (CHANGE IN ELEVATION/DISTANCE) = .XX(100) = XX%
Lot Run Line #2: (CHANGE IN ELEVATION/DISTANCE) = .XX(100) = XX%
Lot Run Line #3: (CHANGE IN ELEVATION/DISTANCE) = .XX(100) = XX%
AVERAGE LOT SLOPE = (COMBINE AVERAGE SLOPE OF THREE LOT RUN LINES)

BUILDING INFORMATION

Governing Codes:
Approval of this project shall comply with the 2022 California Residential Code (CRC), California Mechanical Code (CMC), California Plumbing Code (CPC), California Electrical Code (CEC), California Energy Code (DEC), California Green Building Code (CGBC) and City of Encinitas Municipal Code.
Governing Agency:
Occupancy Group:
Stories:
Type of Construction:

APN:
Legal Description:
(Block Map Lots)
Year of Original Construction of Existing Residence:
Project Description: New Construction of A One Story, 2 Bedroom 2 Bath, Detached ADU: 745 S.F., Porch Area: 156SF

PROJECT INFORMATION

REQUIRED INFORMATION - TO BE COMPLETED BY OWNER

information to be provided by homeowner:

Ref. X Completed / Acknowledged

SHEET T1.1 TITLE SHEET (T1.1) INFORMATION FILED OUT
SITE PLAN TO INCLUDE ALL SITE SPECIFIC INFORMATION LISTED IN THE CHECKLIST ON THE EXAMPLE SITE PLAN ON THIS SHEET
SHEET G0.1 CAL GREEN CHECKLIST
UPDATED TITLE 24 ENERGY CALCULATION REPORT WITH CORRECT NAME, ADDRESS, AND EXACT ORIENTATION FOR SITE-SPECIFIC CONDITIONS. OWNER MAY CONTACT THE ENTITY WHO PREPARED THE ORIGINAL REPORT (SHOWN ON T2.1) TO OBTAIN UPDATES TO THE REPORT.
SEPARATE PERMIT PHOTOVOLTAIC PERMIT OR EXISTING CONDITION INFORMATION. SEE DEFERRED SUBMITTAL CHECKLIST ON THIS SHEET FOR MORE INFORMATION
SEPARATE PERMIT FIRE SPRINKLER PERMIT (IF APPLICABLE) SEE FIRE SPRINKLER INFORMATION CHECKLIST ON THIS SHEET FOR FURTHER INFORMATION
BY OWNER SOILS REPORT AND FOUNDATION APPROVAL LETTER (IF APPLICABLE)
CITY FORM CONSTRUCTION & DEMOLITION WASTE MANAGEMENT PLAN
CITY FORM BOUNDARY CERTIFICATION (REQUIRED FOR ADUs WITHIN 5' OF PROPERTY LINE)
CITY FORM HOUSING DEVELOPMENT TRACKING FORM
CITY FORM STORM WATER INTAKE FORM & STANDARD SWOMP
CITY FORM BUILDING PERMIT CALCULATION - BUILDING SQUARE FOOTAGE
CITY FORM GREEN BUILDING CHECKLIST
CITY FORM HOLD HARMLESS AGREEMENT

sewer waste water information:

X SELECTION
☐ ADU TO HAVE NEW CONNECTION TO CITY SEWER MAIN
☐ ADU TO CONNECT TO EXISTING RESIDENCE SEWER LATERAL
IF EXISTING HOUSE HAS FOUR OR MORE TOILETS WITH AN EXISTING 3 INCH SEWER DRAIN, A SEPARATE CONNECTION TO THE CITY SEWER MAIN IS REQUIRED FOR THE NEW ADU. REFER TO CURRENT CPC SECTION 703.2 FOR PIPE SIZING REQUIREMENTS
☐ SEPTIC - REQUIRES HEALTH DEPARTMENT APPROVAL
DISTANCE TO CONNECTION _____

electrical service information:

X SELECTION
☐ EXISTING SERVICE TO REMAIN
☐ UPGRADE SERVICE
☐ NEW SERVICE
SIZE OF EXISTING SERVICE _____ SIZE OF NEW SERVICE _____
CONTACT SD&E REGARDING ELECTRIC SERVICES TO THIS DETACHED ADU. EXISTING SERVICE UPGRADE OR NEW SERVICE WILL REQUIRE A SEPARATE PERMIT FROM THE CITY OF ENCINITAS. SEE EXAMPLE SITE PLAN, SHEET T1.1, FOR MORE INFORMATION

fire sprinkler information:

X SELECTION
☐ EXISTING RESIDENCE CURRENTLY HAS FIRE SPRINKLERS
☐ EXISTING RESIDENCE DOES NOT CURRENTLY HAVE FIRE SPRINKLERS
PROPERTY IS LOCATED IN THE VERY HIGH FIRE HAZARD SEVERITY ZONE (VHF SZ)
☒ PROPERTY IS NOT LOCATED IN THE VERY HIGH FIRE HAZARD SEVERITY ZONE (VHF SZ)
NEW ADU IS REQUIRED TO HAVE FIRE SPRINKLERS IF THE EXISTING RESIDENCE HAS FIRE SPRINKLERS OR IS LOCATED IN VHF SZ

fire rated details

X SELECTION
☐ ROOF DETAILS 3/A5.1 & 4/S.1
☐ WALL FINISH DETAILS 5/A, 6/A, 7/A/AS.1
☐ WINDOW & DOOR HIGH FIRE SEVERITY NOTES 14, 15, 16, & 17 ON G0.3
☐ FIRE RATED DETAILS ABOVE ARE TO BE USED WHEN WALLS AND ROOF EAVES ARE LESS THAN 6 FT FROM PROPERTY LINE IN AN UNSPRINKLERED BUILDING OR LESS THAN 3 FT FROM PROPERTY LINE IN SPRINKLERED BUILDINGS PER TABLE R302.1(1) & R302.1(2). FIRE RATED DETAILS ABOVE ARE ALSO TO BE USED WHEN THE ADU IS LESS THAN 10 FT FROM THE MAIN DWELLING UNIT IN AN UNSPRINKLERED BUILDING OR LESS THAN 6 FT FROM THE MAIN DWELLING UNIT IN A SPRINKLERED BUILDING.

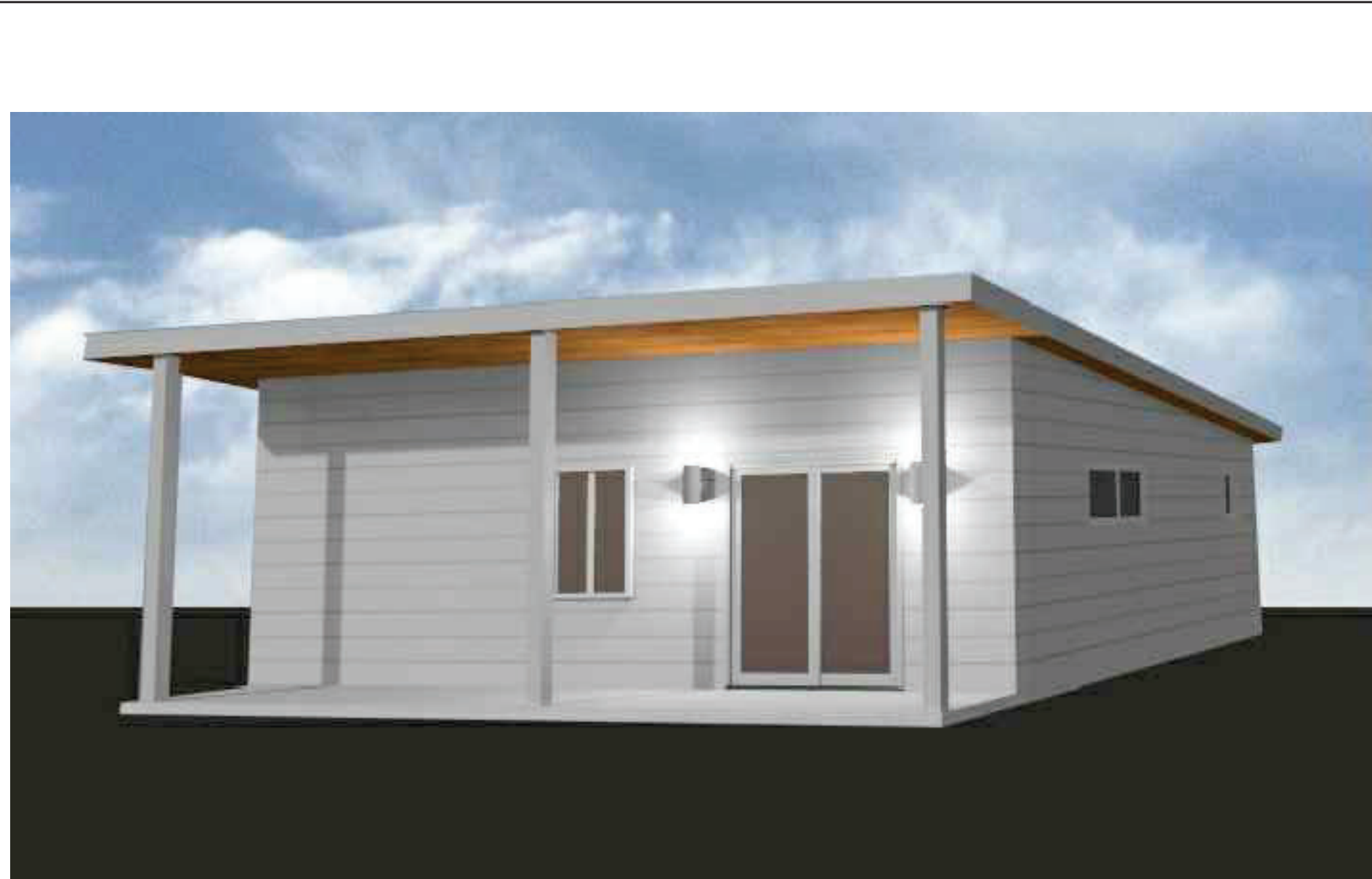
SITE INFORMATION CHECKLIST:

X TO BE INCLUDED ON SITE PLAN

☐ ALL EXTERIOR SITE BOUNDARIES CORRECTLY SCALED AND DIMENSIONED
☐ NORTH ARROW
☐ SCALE OF PLANS, GRAPHIC AND WRITTEN
☐ LEGEND OF SYMBOLS, LINES, ABBREVIATIONS, ETC. USED ON PLANS
☐ SITE CONTOURS, GRADE ELEVATIONS, AND OTHER TOPOGRAPHIC FEATURES
☐ LOCATION AND DIMENSION OF ALL DRIVEWAY, ACCESS ROADS, AND CURB CUTS
☐ ULTIMATE RIGHT OF WAY DIMENSION, CENTERLINE OF ROAD
☐ SHOW FIRE ACCESS ROADS / DRIVEWAY - MAX FIRE HOSE PULL OF 150 FT LENGTH
☐ LOCATION AND DIMENSIONS OF ALL EASEMENTS (ELECTRIC, LIQUID, SEWER, ETC.)
☐ REQUIRED AND PROPOSED BUILDING SETBACKS
☐ LOCATION OF EXISTING AND PROPOSED BUILDINGS AND STRUCTURES
☐ DIMENSION HORIZONTAL PROJECTIONS (EAVES, DECKS, BAY WINDOWS, ETC.)
☐ DISTANCE OF ALL STRUCTURES FROM EACH OTHER AND FROM PROPERTY LINES
☐ LOCATION AND HEIGHT OF ALL FENCES AND RETAINING WALLS
☐ LOCATION AND SIZE OF OFF-STREET PARKING
☐ LOCATION OF EXISTING AND PROPOSED VEGETATION
☐ LOCATION OF EXISTING AND PROPOSED UTILITIES TO NEW ADU
☐ LOCATION OF EXISTING AND NEW UTILITIES (SEWER LATERAL CLEANOUTS, GAS LINES, ELECTRICAL OVERHEAD, OR UNDERGROUND CONDUCTORS.)
☐ NEW SEWER LATERAL SERVING THE NEW ADU. REFER TO CPC 311.1
☐ ADU SEWER LINE CANNOT BE CONNECTED DIRECTLY TO THE EXISTING MAIN DWELLING UNIT EXCEPT AS SPECIFIED IN GOVERNMENT CODE SECTION 65852.2
☐ LOCATION OF EXISTING AND NEW METER LOCATIONS (ELECTRICAL &



2 Bedroom -SIDING view #1



2 Bedroom -SIDING view #2



2 Bedroom -SIDING view #3



2 Bedroom -STUCCO view #1



2 Bedroom -STUCCO view #2



2 Bedroom -STUCCO view #3



2 Bedroom -STONE VENEER view #1



2 Bedroom -STONE VENEER view #2



2 Bedroom -STONE VENEER view #3

BY USING THESE PERMIT READY CONSTRUCTION DOCUMENTS, THE RECIPIENT ACKNOWLEDGES, ACCEPTS AND VOLUNTARILY AFFIRMS THE FOLLOWING CONDITIONS:
1. THE USE OF THIS INFORMATION IS RESTRICTED TO THE ORIGINAL PROJECT FOR WHICH IT WAS PREPARED FOR THE PERMIT READY ACCESSORY DWELLING UNIT (ADU) PROGRAM FOR THE CITY OF ENCINITAS ONLY. THIS IS A LIMITED SET OF STANDARDIZED ADU PLANS AND SPECIFICATIONS APPROVED BY THE CITY OF ENCINITAS BUILDING DEPARTMENT. BUILDING CODES DO CHANGE OVER TIME AND RECIPIENT SHALL ENSURE FULL COMPLIANCE UNDER ALL CODES THEN IN EFFECT AT THE TIME OF THE SUBJECT PERMIT. THIS DOES NOT ELIMINATE OR REDUCE THE RECIPIENT'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION RELEVANT TO THE RECIPIENT'S WORK AND RESPONSIBILITY ON THIS PROJECT. DESIGN PATH STUDIO SHALL NOT BE RESPONSIBLE FOR TRANSLATION ERRORS. DO NOT USE THESE CONSTRUCTION DOCUMENTS IF THE PERMIT HAS EXPIRED OR IS REVOKED AT ALL.
2. THE RECIPIENT RECOGNIZES AND ACKNOWLEDGES THAT THE USE OF THIS INFORMATION WILL BE AT THEIR SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL EXPOSURE TO DESIGN PATH STUDIO. NO WARRANTIES OF ANY NATURE, WHETHER EXPRESS OR IMPLIED, SHALL ATTACH TO THESE DOCUMENTS AND THE INFORMATION CONTAINED THEREON. ANY USE, REUSE, OR ALTERATION OF THESE DOCUMENTS BY THE RECIPIENT OR BY OTHERS WILL BE AT THE RECIPIENT'S RISK AND FULL LEGAL RESPONSIBILITY. FURTHERMORE, THE RECIPIENT WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, DEFEND, INDEMNIFY AND HOLD DESIGN PATH STUDIO AND ITS ARCHITECTS HARMLESS FROM ANY AND ALL CLAIMS, SUITS, LIABILITY, DEMANDS, JUDGMENTS, OR COSTS ARISING OUT OF OR RESULTING THERE FROM ANY USE OF THESE CONSTRUCTION DOCUMENTS FOR OR ON ACCOUNT OF ANY INJURY, DEATH, DAMAGE OR LOSS TO PERSONS OR PROPERTY, DIRECT OR CONSEQUENTIAL DAMAGES IN ANY AMOUNT. THIS INDEMNITY DOES NOT APPLY TO THE SOLE NEGLIGENCE OR WILLFUL MISCONDUCT OF DESIGN PATH STUDIO OR ITS ARCHITECTS.
3. THE DESIGNS REPRESENTED BY THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION.
4. IF THE RECIPIENT DOES NOT AGREE WITH THE ABOVE CONDITIONS, DO NOT PROCEED WITH CONSTRUCTION OF AN ADU OR OTHER IMPROVEMENT UNDER THESE PLANS AT ALL.

project
PRADU
City of Encinitas

revisions
01

description
Exterior
Material
Options

date
Month 20##

project no.
20##-xxxxxx

drawn by
xxx/xxx

sheet no.
T1.2

AS.1

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

Y	N/A	RESPON. PARTY	
			CHAPTER 3 GREEN BUILDING SECTION 301 GENERAL
	☐	☐	301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.1.7.
	☐	☐	301.1.1 Additions and alterations. [HCD] The mandatory provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or alteration.
			The mandatory provision of Section 4.106.4.2 may apply to additions or alterations of existing parking facilities or the addition of new parking facilities serving existing multifamily buildings. See Section 4.106.4.3 for application.
			Note: Repairs including, but not limited to, resurfacing, restriping and repairing or maintaining existing lighting fixtures are not considered alterations for the purpose of this section.
			Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.
			301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] - NOT USED
			SECTION 302 MIXED OCCUPANCY BUILDINGS
			302.1 MIXED OCCUPANCY BUILDINGS. - NOT USED
			DIVISION 4.1 PLANNING AND DESIGN
			ABBREVIATION DEFINITIONS: HCD Department of Housing and Community Development BSC California Building Standards Commission DSA-SS Division of the State Architect, Structural Safety OSHDP Office of Statewide Health Planning and Development LR Low Rise HR High Rise AA Additions and Alterations N New
			CHAPTER 4 RESIDENTIAL MANDATORY MEASURES SECTION 4.102 DEFINITIONS 4.102.1 DEFINITIONS The following terms are defined in Chapter 2 (<i>and are included here for reference</i>)
			FRENCH DRAIN. A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar pervious material used to collect or channel drainage or runoff water.
			WATTLES. Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also used for perimeter and inlet controls.
			4.106 GENERAL DEVELOPMENT 4.106.1 GENERAL. Preservation and use of available natural resources shall be accomplished through evaluation and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes, management of storm water drainage and erosion controls shall comply with this section.
			4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. Projects which disturb less than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre or more, shall manage storm water drainage during construction. In order to manage storm water drainage during construction, one or more of the following measures shall be implemented to prevent flooding of adjacent property, prevent erosion and retain soil runoff on the site. - Retention basins of sufficient size shall be utilized to retain storm water on the site. - Where storm water is conveyed to a public drainage system, collection point, gutter or similar disposal method, water shall be filtered by use of a barrier system, wattle or other method approved by the enforcing agency. - Compliance with a lawfully enacted storm water management ordinance.
	☐	☐	Note: Refer to the State Water Resources Control Board for projects which disturb one acre or more of soil, or are part of a larger common plan of development which in total disturbs one acre or more of soil. (Website: https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html)
			4.106.3 GRADING AND PAVING. Construction plans shall indicate how the site grading or drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following: - Swales - Water collection and disposal systems - French drains - Water retention gardens - Other water measures which keep surface water away from buildings and aid in groundwater recharge.
			Exception: Additions and alterations not altering the drainage path.
	☐	☐	4.106.4 Electric vehicle (EV) charging for new construction. - NOT USED
			4.106.4.2 New multifamily dwellings, hotels and motels and new residential parking facilities. - NOT USED
			4.106.4.3 Electric vehicle charging for additions and alterations of parking facilities serving existing multifamily buildings. - NOT USED
			DIVISION 4.2 ENERGY EFFICIENCY
			4.201 GENERAL 4.201.1 SCOPE. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory standards.
			DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION
			4.303 INDOOR WATER USE 4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and 4.303.4.4.
			Note: All noncompliant plumbing fixtures in any residential real property shall be replaced with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy, or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.
	☐	☐	4.303.1.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-type Toilets.
			Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.
			4.303.1.2 Urinals. - NOT USED
			4.303.1.3 Showerheads.
			4.303.1.3.1 Single Showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.
			4.303.1.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to only allow one shower outlet to be in operation at a time.
			Note: A hand-held shower shall be considered a showerhead.

4.303.1.4 Faucets.

4.303.1.4.1 Residential Lavatory Faucets.

The maximum flow rate of residential lavatory faucets shall not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall not be less than 0.8 gallons per minute at 20 psi.

4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas.

- NOT USED

4.303.1.4.3 Metering Faucets.

- NOT USED

4.303.1.4.4 Kitchen Faucets.

The maximum flow rate of kitchen faucets shall not exceed 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.

Note:

Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

4.303.1.4.5 Pre-rinse spray valves.

- NOT USED

4.303.2 Submeters for multifamily buildings and dwelling units in mixed-used residential/commercial buildings.

- NOT USED

4.303.3 Standards for plumbing fixtures and fittings.

Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of the California Plumbing Code.

NOTE:

THIS TABLE COMPILES THE DATA IN SECTION 4.303.1, AND IS INCLUDED AS A CONVENIENCE FOR THE USER.

TABLE - MAXIMUM FIXTURE WATER USE	
FIXTURE TYPE	FLOW RATE
SHOWER HEADS (RESIDENTIAL)	1.8 GMP @ 80 PSI
LAVATORY FAUCETS (RESIDENTIAL)	MAX. 1.2 GPM @ 60 PSI MIN. 0.8 GPM @ 20 PSI
LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS	0.5 GPM @ 60 PSI
KITCHEN FAUCETS	1.8 GPM @ 60 PSI
METERING FAUCETS	0.2 GAL/CYCLE
WATER CLOSET	1.28 GAL/FLUSH
URINALS	0.125 GAL/FLUSH

4.304 OUTDOOR WATER USE

4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Residential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

NOTES:

1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code Regulations, Title 23, Chapter 2.7, Division 2. MWELO and supporting documents, including water budget calculator, are available at: https://www.water.ca.gov/

DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE

4.406.1 RODENT PROOFING. Annular spaces around pipes, electric cables, conduits or other openings in solid/bottom plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing agency.

4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

4.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65 percent of the non-hazardous construction and demolition waste in accordance with either Section 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste management ordinance.

Exceptions:

1. Excavated soil and land-clearing debris.

2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably close to the jobsite.

3. The enforcing agency may make exceptions to the requirements of this section when isolated jobsites are located in areas beyond the haul boundaries of the diversion facility.

4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN. Submit a construction waste management plan in conformance with Items 1 through 5. The construction waste management plan shall be updated as necessary and shall be available during construction for examination by the enforcing agency.

1. Identify the construction and demolition waste materials to be diverted from disposal by recycling, reuse on the project or salvage for future use or sale.

2. Specify if construction and demolition waste materials will be sorted on-site (source separated) or bulk mixed (single stream).

3. Identify diversion facilities where the construction and demolition waste material collected will be taken.

4. Identify construction methods employed to reduce the amount of construction and demolition waste generated.

5. Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

4.408.3 WASTE MANAGEMENT COMPANY. Utilize a waste management company, approved by the enforcing agency, which can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with Section 4.408.1.

Note:

The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste management company.

4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR].

Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 lbs./sq.ft. of the building area shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1

4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE.

Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 2 pounds per square foot of the building area, shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1

4.408.5 DOCUMENTATION.

Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 4.408.2, Items 1 through 5, Section 4.408.3 or Section 4.408.4..

NOTES:

1. Sample forms found in "A Guide to the California Green Building Standards Code (Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in documenting compliance with this section.

2. Mixed construction and demolition debris (C & D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

4.410 BUILDING MAINTENANCE AND OPERATION

4.410.1 OPERATION AND MAINTENANCE MANUAL. At the time of final inspection, a manual, compact disc, web-based reference or other media acceptable to the enforcing agency which includes all of the following shall be placed in the building:

1. Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure.

2. Operation and maintenance instructions for the following:

a. Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major appliances and equipment.

b. Roof and yard drainage, including gutters and downspouts.

c. Space conditioning systems, including condensers and air filters.

d. Landscape irrigation systems.

e. Water reuse systems.

3. Information from local utility, water and waste recovery providers on methods to further reduce resource consumption, including recycle programs and locations.

Y	N/A	RESPON. PARTY	
			- Public transportation and/or carpool options available in the area. - Educational material on the positive impacts of an interior relative humidity between 30-60 percent and what methods an occupant may use to maintain the relative humidity level in that range. - Information about water-conserving landscape and irrigation design and controllers which conserve water. - Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation. - Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc. - Information about state solar energy and incentive programs available. - A copy of all special inspection verifications required by the enforcing agency or this code. - Information from the Department of Forestry and Fire Protection on maintenance of defensible space around residential structures. - Information and/or drawings identifying the location of grab bar reinforcements.
			4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible area(s) that serves all buildings on the site and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.
			Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 42649.82 (a)(2)(A) et seq. are not required to comply with the organic waste portion of this section.
			DIVISION 4.5 ENVIRONMENTAL QUALITY SECTION 4.501 GENERAL 4.501.1 Scope The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorous, irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors.
			SECTION 4.502 DEFINITIONS 5.102.1 DEFINITIONS The following terms are defined in Chapter 2 (<i>and are included here for reference</i>)
			AGRIFIBER PRODUCTS. Agrifiber products include wheatboard, strawboard, panel substrates and door cores, not including furniture, fixtures and equipment (FF&E) not considered building elements.
			COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardwood, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated wood joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), Title 17, Section 93120.1.
			DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.
			MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram (g O ₃ /g ROG).
			Note: MIR values for individual compounds and hydrocarbon solvents are specified in CCR, Title 17, Sections 94700 and 94701.
			MOISTURE CONTENT. The weight of the water in wood expressed in percentage of the weight of the oven-dry wood.
			PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).
			Note: PWMIR is calculated according to equations found in CCR, Title 17, Section 94521 (a).
			REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.
			VOC. A volatile organic compound (VOC) broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).
			4.503 FIREPLACES 4.503.1 GENERAL. Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove 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 local ordinances.
			4.504 POLLUTANT CONTROL 4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. At the time of rough installation, during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of water, dust or debris which may enter the system.
			4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with this section.
			4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealant and caulks used on the project shall meet the requirements of the following standards unless more stringent local or regional air pollution or air quality management district rules apply: - Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable or SCAQMD Rule 1168 VOC limits, as shown in Table 4.504.1, or 4.504.2, as applicable. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products, as specified in Subsection 2 below. - Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than 1 pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of <i>California Code of Regulations</i>, Title 17, commencing with section 94507.
			4.504.2.2 Paints and Coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Suggested Control Measure, as shown in Table 4.504.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 4.504.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 4.504.3 shall apply.
			4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and coatings shall meet the Product-weighted MIR Limits for ROC in Section 94522(a)(2) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(e)(1) and (f)(1) of <i>California Code of Regulations</i> , Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8, Rule 49.
			4.504.2.4 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following: - Manufacturer's product specification. - Field verification of on-site product containers.
			4.504.3 CARPET SYSTEMS. All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350)
			See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CDC/DPH/DEOD/CEHLB/IAQ/Pages/VOC.aspx
			4.504.3.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350)
			See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CDC/DPH/DEOD/CEHLB/IAQ/Pages/VOC.aspx
			4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 4.504.1.
			4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring is installed, at least 80% of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350)
			See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CDC/DPH/DEOD/CEHLB/IAQ/Pages/VOC.aspx

Y	N/A	RESPON. PARTY	
			DIVISION 4.5 ENVIRONMENTAL QUALITY (continued)
			4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.), by or before the dates specified in those sections, as shown in Table 4.504.5
			4.504.5.1 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following: - Product certifications and specifications. - Chain of custody certifications. - Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.). - Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269, European 636 3S standards, and Canadian CSA 0121, CSA 0151, CSA 0153 and CSA 0325 standards. - Other methods acceptable to the enforcing agency.
			4.505 INTERIOR MOISTURE CONTROL 4.505.1 General. Buildings shall meet or exceed the provisions of the <i>California Building Standards Code</i> .
			4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundations required to have a vapor retarder by California Building Code, Chapter 19, or concrete slab-on-ground floors required to have a vapor retarder by the California Residential Code, Chapter 5, shall also comply with this section.
			4.505.2.1 Capillary break. A capillary break shall be installed in compliance with at least one of the following: - A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided with a vapor barrier in direct contact with concrete and a concrete mix design, which will address bleeding, shrinkage, and curling, shall be used. For additional information, see American Concrete Institute, ACI 302.2R-06. - Other equivalent methods approved by the enforcing agency. - A slab design specified by a licensed design professional.
			4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19 percent moisture content. Moisture content shall be verified in compliance with the following: - Moisture content shall be determined with either a probe-type or contact-type moisture meter. Equivalent moisture verification methods may be approved by the enforcing agency and shall satisfy requirements found in Section 101.8 of this code. - Moisture readings shall be taken at a point 2 feet (610 mm) to 4 feet (1219 mm) from the grade stamped end of each piece verified. - At least three random moisture readings shall be performed on wall and floor framing with documentation acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor framing.
			Insulation products which are visibly wet or have a high moisture content shall be replaced or allowed to dry prior to enclosure in wall or floor cavities. Wet-applied insulation products shall follow the manufacturers' drying recommendations prior to enclosure.
			4.506 INDOOR AIR QUALITY AND EXHAUST 4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanically ventilated and shall comply with the following: - Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building. - Unless functioning as a component of a whole house ventilation system, fans must be controlled by a humidity control. - Humidity controls shall be capable of adjustment between a relative humidity range less than or equal to 50% to a maximum of 80%. A humidity control may utilize manual or automatic means of adjustment. - A humidity control may be a separate component to the exhaust fan and is not required to be integral (i.e., built-in)
			Notes: - For the purposes of this section, a bathroom is a room which contains a bathtub, shower or tub/shower combination. - Lighting integral to bathroom exhaust fans shall comply with the <i>California Energy Code</i>.
			4.507 ENVIRONMENTAL COMFORT 4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN. Heating and air conditioning systems shall be sized, designed and have their equipment selected using the following methods: - The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J - 2011 (Residential Load Calculation), ASHRAE handbooks or other equivalent design software or methods. - Duct systems are sized according to ANSI/ACCA 1 Manual D - 2014 (Residential Duct Systems), ASHRAE handbooks or other equivalent design software or methods. - Select heating and cooling equipment according to ANSI/ACCA 3 Manual S - 2014 (Residential Equipment Selection), or other equivalent design software or methods.
			Exception: Use of alternate design temperatures necessary to ensure the system functions are acceptable.
			CHAPTER 7 INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS 702 QUALIFICATIONS 702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following: - State certified apprenticeship programs. - Public utility training programs. - Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. - Programs sponsored by manufacturing organizations. - Other programs acceptable to the enforcing agency.
			702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector: - Certification by a national or regional green building program or standard publisher. - Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance code auditors, and home energy auditors. - Successful completion of a third party apprentice training program in the appropriate trade. - Other programs acceptable to the enforcing agency.
			Notes: - Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. - HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).
			[BSC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.
			Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
			703 VERIFICATIONS 703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

BY USING THESE PERMIT READY CONSTRUCTION DOCUMENTS, THE RECIPIENT ACKNOWLEDGES, ACCEPTS AND VOLUNTARILY AFFIRMS THE FOLLOWING CONDITIONS:
1. THE USE OF THIS INFORMATION IS RESTRICTED TO THE ORIGINAL PROJECT FOR WHICH IT WAS PREPARED FOR THE PERMIT READY ACCESSORY DWELLING UNIT (ADU) PROGRAM FOR THE CITY OF ENCINITAS ONLY. THIS IS A LIMITED SET OF STANDARDIZED ADU PLANS AND SPECIFICATIONS APPROVED BY THE CITY OF ENCINITAS' BUILDING DEPARTMENT. BUILDING CODES DO CHANGE OVER TIME AND RECIPIENT SHALL ENSURE FULL COMPLIANCE UNDER ALL CODES THEN IN EFFECT AT THE TIME OF THE SUBJECT PERMIT. THIS DOES NOT ELIMINATE OR REDUCE THE RECIPIENT'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION RELEVANT TO THE RECIPIENT'S WORK AND RESPONSIBILITY ON THIS PROJECT. DESIGN PATH STUDIO SHALL NOT BE RESPONSIBLE FOR TRANSLATION ERRORS. DO NOT USE THESE CONSTRUCTION DOCUMENTS IF THE PERMIT HAS EXPIRED OR IS REVOKED AT ALL.
2. THE RECIPIENT RECOGNIZES AND ACKNOWLEDGES THAT THE USE OF THIS INFORMATION WILL BE AT THEIR SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL EXPOSURE TO DESIGN PATH STUDIO. NO WARRANTIES OF ANY NATURE, WHETHER EXPRESS OR IMPLIED, SHALL ATTACH TO THESE DOCUMENTS AND THE INFORMATION CONTAINED THEREON. ANY USE, REUSE, OR ALTERATION OF THESE DOCUMENTS BY THE RECIPIENT OR BY OTHERS WILL BE AT THE RECIPIENT'S RISK AND FULL LEGAL RESPONSIBILITY. FURTHERMORE, THE RECIPIENT WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, DEFEND, INDEMNIFY AND HOLD DESIGN PATH STUDIO AND ITS ARCHITECTS HARMLESS FROM ANY AND ALL CLAIMS, SUITS, LIABILITY, DEMANDS, JUDGMENTS, OR COSTS OF LOSS TO PERSONS OR PROPERTY, DIRECT OR CONSEQUENTIAL DAMAGES IN ANY AMOUNT. THIS INDEMNITY DOES NOT APPLY TO THE SOLE NEGLIGENCE OR WILLFUL MISCONDUCT OF DESIGN PATH STUDIO OR ITS ARCHITECTS.
3. THE DESIGNS REPRESENTED BY THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION.
4. IF THE RECIPIENT DOES NOT AGREE WITH THE ABOVE CONDITIONS, DO NOT PROCEED WITH CONSTRUCTION OF AN ADU OR OTHER IMPROVEMENT UNDER THESE PLANS AT ALL.

project
PRADU
City of Encinitas

revisions



description

Cal Green
Checklist

date ## Month 20# #

project no. 20# #_#_#xxxxxx

drawn by xxx/xxx

sheet no.

G0.1

ARCHITECTURAL GENERAL NOTES		ROOF NOTES (CONT'D)		FLOOR PLAN NOTES (CONT'D)		MECHANICAL NOTES (CONT'D)		ELECTRICAL NOTES (CONT'D)					
1. DO NOT SCALE THE DRAWING, USE THE DIMENSIONS ONLY. IF A DISCREPANCY IS FOUND TO EXIST, NOTIFY THE OWNER. 2. THESE PLANS/SPECIFICATIONS AND ALL WORK SHALL COMPLY WITH CURRENT EDITION OF STATE OF CALIFORNIA TITLE 24 CCR AND CURRENT CPC, CMC AND CEC CODES. 3. DETAILS ARE INTENDED TO SHOW METHOD AND MANNER OF ACCOMPLISHING WORK. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT THE JOB DIMENSIONS OR CONDITIONS AND IS TO BE REVIEWED AND APPROVED BY THE CITY OF ENCINITAS. 4. VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE AND STAKE OUT STRUCTURE FOR OWNER'S APPROVAL PRIOR TO STARTING ANY WORK. 5. ALL WEATHER-EXPOSED SURFACES ARE TO HAVE A WEATHER-RESISTIVE BARRIER TO PROTECT THE INTERIOR WALL COVERING AND THAT EXTERIOR OPENINGS ARE TO BE FLASHED IN SUCH A MANNER AS TO MAKE THEM WEATHERPROOF. 6. SPECIFICATIONS FOR EQUIPMENT SHALL BE KEPT ON SITE TO PROVIDE TO THE CITY OF ENCINITAS BUILDING INSPECTOR 7. AN ENCROACHMENT PERMIT IS REQUIRED FOR ANY CONSTRUCTION, RECONSTRUCTION, OR CLOSURE OR THE ROADWAY, SIDEWALK OR RIGHT OF WAY. APPLICANT SHALL CONTACT ENGINEERING DEPARTMENT TO PROCESS. 8. APPLICANT IS RESPONSIBLE TO PROVIDE SITE PLAN (PLOT PLAN) TO THE CITY FOR REVIEW AND APPROVAL. 9. APPLICANT IS RESPONSIBLE TO VERIFY WHETHER THE JOB SITE IS LOCATED WITHIN A FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD ZONE. PROJECTS LOCATED IN A SPECIAL FLOOD HAZARD AREA DESIGNATED ON THE FLOOD INSURANCE RATE MAP (FIRM) AS ZONE A OR AE, SHALL PROVIDE AN ELEVATION CERTIFICATE WITH SUPPORTED DOCUMENTS TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO BUILDING PERMIT ISSUANCE. 10. SUBMIT GRADING PLANS AND/OR PROVIDE ADU GRADING PERMIT EXEMPTION CHECKLIST FOR REVIEW AND APPROVAL AT TIME OF PERMIT APPLICATION. 11. THE PV SYSTEM WILL BE SUBMITTED UNDER A SEPARATE PERMIT. A PHOTOVOLTAIC (SOLAR) SYSTEM BUILDING AND ELECTRICAL PERMIT SHALL BE ISSUED PRIOR TO ADU BUILDING FRAME INSPECTION REQUEST. 12. SOIL REPORT REQUIREMENT: IF A SOILS REPORT IS REQUIRED BY THE LOCAL JURISDICTION, THE GEOTECHNICAL INVESTIGATIONS SHALL BE CONDUCTED IN ACCORDANCE WITH CBC SECTION 1803.2 AND REPORTED IN ACCORDANCE WITH CBC SECTION 1803.6. THE GEOTECHNICAL ENGINEER OF RECORD SHALL REVIEW THE CITY APPROVED PLANS FOR GENERAL CONFORMANCE WITH THE SOIL REPORT; OTHERWISE, AN ALTERNATE FOUNDATION PLAN DESIGNED BY A CALIFORNIA REGISTERED CIVIL ENGINEER IS REQUIRED		14. FOR PHOTOVOLTAIC ARRAYS OCCUPYING NOT MORE THAN 33 PERCENT OF THE PLAN VIEW TOTAL ROOF AREA, NOT LESS THAN AN 18-INCH (457 MM) CLEAR SETBACK IS REQUIRED ON BOTH SIDES OF A HORIZONTAL RIDGE. FOR PHOTOVOLTAIC ARRAYS OCCUPYING MORE THAN 33 PERCENT OF THE PLAN VIEW TOTAL ROOF AREA, NOT LESS THAN A 36-INCH (914 MM) CLEAR SETBACK IS REQUIRED ON BOTH SIDES OF A HORIZONTAL RIDGE. 15. PER SECTION R806.5/EM3.9.6: a. IF INSULATION IS AIR PERMEABLE AND IT IS INSTALLED DIRECTLY BELOW THE ROOF SHEATHING WITH RIGID BOARD OR SHEET INSULATION WITH A MINIMUM R-4 VALUE INSTALLED ABOVE THE ROOM SHEATHING. (OR) b. IF THE INSULATION IS AIR-IMPERMEABLE AND IS IN DIRECT CONTACT WITH THE UNDERSIDE OF THE OF THE ROOF SHEATHING. (OR) c. IF TWO LAYERS OF INSULATION ARE INSTALLED BELOW THE ROOF SHEATHING: AN AIR-IMPERMEABLE LAYER IN DIRECT CONTACT WITH THE UNDERSIDE OF THE ROOF SHEATHING AND AN ADDITIONAL LAYER OF AIR PERMEABLE INSULATION IS TO BE INSTALLED DIRECTLY UNDER THE AIR-IMPERMEABLE INSULATION.		19. VOC'S MUST COMPLY WITH THE LIMITATION LISTED IN SECTION 4.504.3 AND TABLES 4.504.1, 4.504.2, 4.504.3, AND 4.504.4 FOR: ADHESIVES, PAINTS, STAINS, CAULKS AND COATINGS, CARPET AND COMPOSITION WOOD PRODUCTS.DOCUMENTATION SHALL BE PROVIDED TO VERIFY THAT COMPLIANT VOC LIMIT FINISHED MATERIALS HAVE BEEN USED. 20. INTERIOR MOISTURE CONTROL AT SLAB ON GRADE FLOORS SHALL BE PROVIDED BY THE SOIL ENGINEER. IF A SOIL ENGINEER HAS NOT PREPARED A SOIL REPORT FOR THIS PROJECT, THE FOLLOWING IS REQUIRED: A 4" THICK BASE OF 1/2" OR LARGER CLEAN AGGREGATE SHALL BE PROVIDED WITH A VAPOR BARRIER IN DIRECT CONTACT WITH CONCRETE, WITH A CONCRETE MIX DESIGN WHICH WILL ADDRESS BLEEDING, SHRINKAGE AND CURLING SHALL BE USED. 21. MOISTURE CONTENT OF WOOD SHALL NOT EXCEED 19% BEFORE IT IS ENCLOSED IN CONSTRUCTION. THE MOISTURE CONTENT NEEDS TO BE CERTIFIED BY ONE OF 3 METHODS SPECIFIED. BUILDING MATERIAL WITH VISIBLE SIGNS OF WATER DAMAGE SHOULD NOT BE USED IN CONSTRUCTION. THE MOISTURE CONTENT MUST BE DETERMINED BY THE CONTRACTOR BY ONE OF THE LISTED METHODS LISTED IN CGC SECTION 4.503.3 22. PRIOR TO FINAL APPROVAL OF THE BUILDING THE LICENSED CONTRACTOR, ARCHITECT OR ENGINEER IN RESPONSIBLE CHARGE OF THE OVERALL CONSTRUCTION MUST COMPLETE AND SIGN THE GREEN BUILDING STANDARDS CERTIFICATION FORM AND GIVEN TO THE BUILDING DEPT OFFICIAL TO BE FILED WITH THE APPROVED PLANS 23. LANDSCAPE IRRIGATION WATER USE SHALL HAVE WEATHER BASED CONTROLLERS. 24. PROJECTS WHICH DISTURB LESS THAN ONE ACRE OF SOIL SHALL MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION BY ONE OF THE FOLLOWING: A. RETENTION BASIN. B. WHERE STORM WATER IS CONVEYED TO A PUBLIC DRAINAGE SYSTEM, WATER SHALL BE FILTERED BY USE OF A BARRIER SYSTEM, WATTLE OR OTHER APPROVED METHOD. CGC 4.106.2. 25. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN TO THE JURISDICTION AGENCY THAT REGULATES WASTE MANAGEMENT, PER CGC 4.408.2. 26. THE BUILDER IS TO PROVIDE AN OPERATION MANUAL (CONTAINING INFORMATION FORM MAINTAINING APPLIANCES, ETC.) FOR THE OWNER AT THE TIME OF FINAL INSPECTION. CGC 4.410.0 27. DURING CONSTRUCTION, ENDS OF DUCT OPENINGS ARE TO BE SEALED, AND MECHANICAL EQUIPMENT IS TO BE COVERED. CGC 4.504.1 28. BATHROOM FANS SHALL BE ENERGY STAR RATED, VENTED DIRECTLY TO THE OUTSIDE AND CONTROLLED BY A HUMIDISTAT. 29. SPECIAL INSPECTORS EMPLOYED BY THE ENFORCING AGENCY MUST BE QUALIFIED AND ABEL TO DEMONSTRATE COMPETENCE IN THE DISCIPLINE THEY ARE INSPECTING. 30. VERIFICATION OF COMPLIANCE WITH THIS CODE MAY INCLUDE CONSTRUCTION DOC. PLANS, SPECIFICATION BUILDER OR INSTALLER CERTIFICATIONS, INSPECTIONS REPORTS, OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY WHICH TO SHOW SUBSTANTIAL CONFORMANCE. 31. NEW SINGLE FAMILY RESIDENTIAL CONSTRUCTION SHALL BE DESIGNED FOR AGING-IN-PLACE DESIGN AND FALL PREVENTION PER R327 A) AT LEAST ONE BATHROOM ON THE ENTRY LEVEL SHALL BE PROVIDED WITH REINFORCEMENT INSTALLED. WHERE THERE IS NO BATHROOM ON THE ENTRY LEVEL, AT LEAST ONE BATHROOM ON THE SECOND OR THIRD FLOOR OF THE DWELLING SHALL COMPLY WITH THIS SECTION. B) REINFORCEMENT SHALL BE SOLID LUMBER OR OTHER CONSTRUCTION MATERIALS APPROVED BY THE ENFORCING AGENCY. C) REINFORCEMENT SHALL NOT BE LESS THAN 2 BY 8 INCH NOMINAL LUMBER. REINFORCEMENT SHALL BE LOCATED BETWEEN 32 INCHES AND 39-1/4 INCHES ABOVE THE FINISHED FLOOR FLUSH WITH THE WALL FRAMING. D) WATER CLOSET REINFORCEMENT SHALL BE INSTALLED ON BOTH SIDE WALLS OF THE FIXTURE, OR ONE SIDE WALL AND THE BACK WALL. E) SHOWER REINFORCEMENT SHALL BE CONTINUOUS WHERE WALL FRAMING IS PROVIDED. F) BATHTUB AND COMBINATION BATHTUB/SHOWER REINFORCEMENT SHALL BE CONTINUOUS ON EACH END OF THE BATHTUB AND THE BACK WALL. ADDITIONALLY, BACK WALL REINFORCEMENT FOR A LOWER GRAB BAR SHALL BE PROVIDED WITH THE BOTTOM EDGE LOCATED NO MORE THAN 6 INCHES ABOVE THE BATHTUB RIM.		5. WHERE WHOLE HOUSE FANS ARE USED IN BATHROOM AREAS, THE FAN MUST RUN CONTINUOUSLY AND SHALL NOT BE TIED TO HUMIDITY CONTROL SENSOR. (CAL GREEN 4.506.1) 6. ENVIRONMENTAL AIR DUCTS SHALL TERMINATE MIN. 3 FEET FROM PROPERTY LINE OR OPENINGS INTO BLDG., AND 10' FROM A FORCED AIR INLET. (CMC 502.2.1) 7. ALL HOSE BIBS ARE TO HAVE VACUUM BREAKERS. (CPC603.5.7) 8. THE MAX. AMOUNT OF WATER CLOSETS ON A 3" HORIZONTAL DRAINAGE SYSTEM LINE IS 3 (CPC TABLE 703.2) 9. THE MAX. AMOUNT OF WATER CLOSETS ON A 3" VERTICAL DRAINAGE LINE IS 4. (CPC TABLE 703.2) 10. PROVIDE GAS LINES WITH A MN. CAPACITY OF 200,000BTU FOR WATER HEATER. (CAL ENERGY CODE 150.0(N)). 11. PROVIDE A CONDENSATE DRAIN NO MORE THAN 2" ABOVE THE BASE OF THE WATER HEATER SPACE. (CAL ENERGY CODE 150.0 (N)). 12. INSULATE ALL HOT WATER PIPES. CAL ENERGY CODE 150.0(j) (2), and CPC 609.11) 13. ISOLATION VALVES ARE REQ. FOR TANKLESS WATER HEATERS ON THE HOT AND COLD SUPPLY LINES WITH HOSE BIBS ON EACH VALVE, TO FLUSH THE HEAT EXCHANGER. (CAL ENERGY CODE 110.3(7)). 14. EXHAUST DUCTS AND DRYER VENTS SHALL BE EQUIPPED WITH BACK DRAFT DAMPERS 15. ALL EXHAUST FANS SHALL BE SWITCHED SEPARATELY FROM LIGHTING SYSTEMS. (CENC 150(K) 2B) 16. PLUMBING FIXTURES AND FITTINGS INSTALLED IN RESIDENTIAL BUILDINGS SHALL COMPLY WITH THE PRESCRIPTIVE REQ. OF SECTIONS 4.303.1.1 THROUGH 4.303.1.4.4. 17. PLUMBING FIXTURES AND FITTINGS REQ. IN SECTION 4.303.1 SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE AND SHALL MEET THE THE APPLICABLE REFERENCE STANDARDS.		16. PER CEC 2022 150.0(N),1.A.: IF THE DESIGNATED SPACE IS WITHIN 3 FEET FROM THE WATER HEATER, THEN THIS SPACE SHALL INCLUDE THE FOLLOWING:A DEDICATED 125 VOLT, 20 AMP ELECTRICAL RECEPTACLE THAT IS CONNECTED TO THE ELECTRIC PANEL WITH A 120/240 VOLT 3 CONDUCTOR, 10 AWG COPPER BRANCH CIRCUIT, WITHIN 3 FEET FROM THE WATER HEATER AND ACCESSIBLE TO THE WATER HEATER WITH NO OBSTRUCTIONS; AND • BOTH ENDS OF THE UNUSED CONDUCTOR SHALL BE LABELED WITH THE WORD "SPARE" AND BE ELECTRICALLY ISOLATED; AND • A RESERVED SINGLE POLE CIRCUIT BREAKER SPACE IN THE ELECTRICAL PANEL ADJACENT TO THE CIRCUIT BREAKER FOR THE BRANCH CIRCUIT IN A ABOVE AND LABELED WITH THE WORDS "FUTURE 240V USE"; AND • A CONDENSATE DRAIN THAT IS NO MORE THAN 2 INCHES HIGHER THAN THE BASE OF THE INSTALLED WATER HEATER, AND ALLOWS NATURAL DRAINING WITHOUT PUMP ASSISTANCE. 17. ELECTRICAL RECEPTACLE OUTLETS IN BATHROOM MUST BE NO MORE THAN 48 INCHES OR LESS THAN 15-INCHES MEASURE FROM THE FINISHED FLOOR. 18. DOORBELL BUTTON MUST BE INSTALLED NO MORE THAN 48 INCHES FROM EXTERIOR FLOOR. 19. LUMINAIRE EFFICACY - ALL INSTALLED LUMINAIRES SHALL MEET THE REQUIREMENTS OF 2022 BUILDING ENERGY EFFICIENCY STANDARDS TABLE 150.0-A PER SECTION 150.0(K).					
		FLOOR PLAN NOTES				ELECTRICAL NOTES		ELECTRIC READY NOTES: 2022 ENERGY EFFICIENCY STANDARDS 150.0					
		1. ALL DIMENSIONS TO FACE OF STUD, U.N.O. 2. ALL DOORS SHOULD BE 3 1/2" FROM NEAREST INTERSECTING WALL AT HINGED SIDE, U.N.O. 3. WRITTEN DIMENSIONS TO PREVAIL OVER SCALING OF DRAWINGS. CONTRACTOR TO VERIFY ALL DIM. PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY OWNER OF ANY DISCREPANCIES. 4. REFER TO FRAMING PLANS AND SECTIONS FOR CLARIFICATION AND DIM. NOT SHOWN. 5. ALL ROOF DRAIN PIPES TO BE MIN. 2" STORM DRAINAGE SYSTEM UNLESS LOCAL CODE REQUIRES LARGER DRAIN SIZES. ROOF GUTTERS: STYLE A - INSTALLED AND DESIGNED IN ACCORDANCE WITH SMACNA MANUAL, PLATE #1,#2 & #3,GUTTER, PAGE 6 - 11, WIDTH AS REQUIRED TO HANDLE THE AMOUNT OF ROOF WATER FOR MAXIMUM STORMS, SMACNA CHART #2, PAGE #2. GUTTER: SIZE; PAGES 1,2, 3, 4, 5 &6, CHARTS#1,#2,#3,#4,#5#6 & #7 STYLE: PLATE #2, STYLE A, PAGE 9 EXPANSION:PLATE #6, PAGE 16 &17 HANGING: PLATE #19, FIG. C, PAGE 43. DOWN SPOUTS: PLAIN RECTANGULAR,AS REQUIRED BY SMACNA MANUAL CHART #3, PAGE #3. SEE ARCHITECT FOR LOCATIONS OF DOWN SPOUTS. ALL DOWN SPOUTS ARE TO BE DESIGNED TO HANDLE THE AMOUNT OF ROOF WATER FOR MAXIMUM STORMS, SMACNA CHART #2, PAGE #2. DOWN SPOUTS ARE TO DEPOSIT DIRECTLY OVER A NDS 6 INCH SQUARE, MODEL 641 OR APPROVED EQUAL.(SEE SECTION 02710 MORE INFORMATION) 6. TRANSITION OF FLOOR MATERIALS OCCURRING IN OPENINGS WITH DOORS TO BE LOCATED UNDER THE CENTER OF THE DOOR IN THE CLOSED POSITION. TRANSITION OF FLOOR MATERIAL OCCURRING WITH NO DOOR TO BE LOCATED TO ALIGN WITH THE FACE OF THE PARTITION, U.O.N 7. DIFFUSERS AND GRILLS TO MATCH COLOR OF SURFACE AT WHICH THEY ARE MOUNTED, U.O.N. 8. FLOOR FINISH TO CONTINUE UNDER MILLWORK WHERE FLOOR IS VISIBLE (I.E. TRASH, RECYCLING, ECT.) 8. SILICON SEALANT AT GLAZING TO BE CLEAR, U.O.N. 9. PLUMBING, ELECTRICAL, AND SPRINKLER EQUIPMENT, IF REQUIRED TO BE PAINTED TO MATCH COLOR OF ADJACENT SURFACE. 10. ALL FINISH MATERIAL MUST MEET ALL APPLICATION FIRE, LIFE SAFETY, AND BUILDING CODES. 80% OF FLOOR AREA RECEIVING RESILIENT FLOORING SHALL COMPLY WITH SPECIFIED VOC CRITERIA. PARTICLE BOARD, MDF AND PLYWOOD USED IN INTERIOR FINISH SYSTEMS SHALL COMPLY WITH LOW FORMALDEHYDE EMISSION STANDARDS. 11. OPERATION AND MAINTENANCE MANUAL: THE BUILDER IS TO PROVIDE AN OPERATION MANUAL (CONTAINING INFORMATION FOR MAINTAINING APPLIANCES, ETC.) FOR THE OWNER AT THE TIME OF FINAL INSPECTION. 12. WEEP SCREED FOR STUCCO AT THE FOUNDATION PLATE LINE SHALL BE A MIN. OF 4" ABOVE THE EARTH OR 2" ABOVE PAVED AREAS. CRC R703.7.2.1, CBC 2512.1.2 13. FASTENERS AND CONNECTIONS (NAILS, ANCHORS BOLTS ECT) IN CONTACT WITH PRESERVATIVE -TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. (CRC R317.3, CBC 2304.10.5.1) 14. ANCHOR BOLTS SHALL INCLUDE STEEL PLATE WASHERS A MIN. OF 0.229" X 3" X 3" IN SIZE, BETWEEN SILL PLATE AND NUT. (CRC R602.11.1, CBC 2308.3.2 ACCEPTANCE ALTERNATIVE SDPWS 4.3.6.4.3) 15. FUTURE WATER HEATERS AND PLUMBING FIXTURES SHALL MEET THE REQUIREMENTS OF SECTION 2-5314 AND TABLE 2-53G, TITLE 24, C.A.C. 16. 15, 20 AND 30 AMP. RECEPTACLE OUTLETS SHALL BE INSTALLED NO MORE THAN 48" MEASURED FROM THE TOP OF OUTLET BOX AND NOT LESS THAN 15" FROM THE BOTTOM OF OUTLET BOX ABOVE THE FLOOR. 17. SITE SHALL BE PLANNED AND DEVELOPED TO KEEP SURFACE WATER AWAY FROM BUILDINGS. PLANS SHALL BE PROVIDED AND APPROVED BY THE CITY ENGINEER THAT SHOW SITE GRADING AND PROVIDE FOR STORM WATER RETENTION AND DRAINAGE DURING CONSTRUCTION. BMP'S THAT ARE CURRENTLY ENFORCED BY THE CITY ENGINEER MUST BE IMPLEMENTED PRIOR TO INITIAL INSPECTION BY THE BUILDING DEPT. 18. 65 % OF CONSTRUCTION WASTE IS TO BE RECYCLED AND 100% OF INERT MATERIALS ARE RECYCLED SALVAGED,COMPOSTED .								(S) ENERGY STORAGE SYSTEMS (ESS) READY. ALL SINGLE-FAMILY RESIDENCES THAT INCLUDE ONE OR TWO DWELLING UNITS SHALL MEET THE FOLLOWING. ALL ELECTRICAL COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE: 1. AT LEAST ONE OF THE FOLLOWING SHALL BE PROVIDED: A. ESS READY INTERCONNECTION EQUIPMENT WITH A MINIMUM BACKED-UP CAPACITY OF 60 AMPS AND A MINIMUM OF FOUR ESS-SUPPLIED BRANCH CIRCUITS, OR B. A DEDICATED RACEWAY FROM THE MAIN SERVICE TO A PANELBOARD (SUBPANEL) THAT SUPPLIES THE BRANCH CIRCUITS IN SECTION 150.0(S)(2). ALL BRANCH CIRCUITS ARE PERMITTED TO BE SUPPLIED BY THE MAIN SERVICE PANEL PRIOR TO THE INSTALLATION OF AN ESS. THE TRADE SIZE OF THE RACEWAY SHALL BE NOT LESS THAN ONE INCH. THE PANELBOARD THAT SUPPLIES THE BRANCH CIRCUITS (SUBPANEL) MUST BE LABELED "SUBPANEL SHALL INCLUDE ALL BACKED-UP LOAD CIRCUITS." 2. A MINIMUM OF FOUR BRANCH CIRCUITS SHALL BE IDENTIFIED AND HAVE THEIR SOURCE OF SUPPLY COLLOCATED AT A SINGLE PANELBOARD SUITABLE TO BE SUPPLIED BY THE ESS. AT LEAST ONE CIRCUIT SHALL SUPPLY THE REFRIGERATOR, ONE LIGHTING CIRCUIT SHALL BE LOCATED NEAR THE PRIMARY EGRESS, AND AT LEAST ONE CIRCUIT SHALL SUPPLY A SLEEPING ROOM RECEPTACLE OUTLET. 3. THE MAIN PANELBOARD SHALL HAVE A MINIMUM BUSBAR RATING OF 225 AMPS. 4. SUFFICIENT SPACE SHALL BE RESERVED TO ALLOW FUTURE INSTALLATION OF A SYSTEM ISOLATION EQUIPMENT/TRANSFER SWITCH WITHIN 3 FEET OF THE MAIN PANELBOARD. RACEWAYS SHALL BE INSTALLED BETWEEN THE PANELBOARD AND THE SYSTEM ISOLATION EQUIPMENT/TRANSFER SWITCH LOCATION TO ALLOW THE CONNECTION OF BACKUP POWER SOURCE. (T) HEAT PUMP SPACE HEATER READY. SYSTEMS USING GAS OR PROPANE FURNACE TO SERVE INDIVIDUAL DWELLING UNITS SHALL INCLUDE THE FOLLOWING: 1. A DEDICATED 240 VOLT BRANCH CIRCUIT WIRING SHALL BE INSTALLED WITHIN 3 FEET FROM THE FURNACE AND ACCESSIBLE TO THE FURNACE WITH NO OBSTRUCTIONS. THE BRANCH CIRCUIT CONDUCTORS SHALL BE RATED AT 30 AMPS MINIMUM. THE BLANK COVER SHALL BE IDENTIFIED AS "240V READY." ALL ELECTRICAL COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE. 2. THE MAIN ELECTRICAL SERVICE PANEL SHALL HAVE A RESERVED SPACE TO ALLOW FOR THE INSTALLATION OF A DOUBLE POLE CIRCUIT BREAKER FOR A FUTURE HEAT PUMP SPACE HEATER INSTALLATION. THE RESERVED SPACE SHALL BE PERMANENTLY MARKED AS "FOR FUTURE 240V USE." (U) ELECTRIC COOKTOP READY. SYSTEMS USING GAS OR PROPANE COOKTOP TO SERVE INDIVIDUAL DWELLING UNITS SHALL INCLUDE THE FOLLOWING: 1. A DEDICATED 240 VOLT BRANCH CIRCUIT WIRING SHALL BE INSTALLED WITHIN 3 FEET FROM THE COOKTOP AND ACCESSIBLE TO THE COOKTOP WITH NO OBSTRUCTIONS. THE BRANCH CIRCUIT CONDUCTORS SHALL BE RATED AT 50 AMPS MINIMUM. THE BLANK COVER SHALL BE IDENTIFIED AS "240V READY." ALL ELECTRICAL COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE. 2. THE MAIN ELECTRICAL SERVICE PANEL SHALL HAVE A RESERVED SPACE TO ALLOW FOR THE INSTALLATION OF A DOUBLE POLE CIRCUIT BREAKER FOR A FUTURE ELECTRIC COOKTOP INSTALLATION. THE RESERVED SPACE SHALL BE PERMANENTLY MARKED AS "FOR FUTURE 240V USE." (V) ELECTRIC CLOTHES DRYER READY. CLOTHES DRYER LOCATIONS WITH GAS OR PROPANE PLUMBING TO SERVE INDIVIDUAL DWELLING UNITS SHALL INCLUDE THE FOLLOWING: 1. A DEDICATED 240 VOLT BRANCH CIRCUIT WIRING SHALL BE INSTALLED WITHIN 3 FEET FROM THE CLOTHES DRYER LOCATION AND ACCESSIBLE TO THE CLOTHES DRYER LOCATION WITH NO OBSTRUCTIONS. THE BRANCH CIRCUIT CONDUCTORS SHALL BE RATED AT 30 AMPS MINIMUM. THE BLANK COVER SHALL BE IDENTIFIED AS "240V READY." ALL ELECTRICAL COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE. 2. THE MAIN ELECTRICAL SERVICE PANEL SHALL HAVE A RESERVED SPACE TO ALLOW FOR THE INSTALLATION OF A DOUBLE POLE CIRCUIT BREAKER FOR A FUTURE ELECTRIC CLOTHES DRYER INSTALLATION. THE RESERVED SPACE SHALL BE PERMANENTLY MARKED AS "FOR FUTURE 240V USE."			
ROOF NOTES													
1. FLASHINGS SHALL BE INSTALLED IN A MANNER THAT PREVENTS MOISTURE FROM ENTERING THE WALL AND ROOF THROUGH JOINTS IN COPINGS, THROUGH MOISTURE PERMEABLE MATERIALS AND AT INTERSECTIONS WITH PARAPET WALLS AND OTHER PENETRATIONS THROUGH THE ROOF PLANE. 2. UNLESS ROOFS ARE SLOPED TO DRAIN OVER ROOF EDGES, ROOF DRAINS SHALL BE INSTALLED AT EACH LOW POINT OF ROOF. 3. ROOF ASSEMBLIES SHALL BE OF MATERIALS THAT ARE COMPATIBLE WITH EACH OTHER AND WITH THE BUILDING OR STRUCTURE TO WHICH THE MATERIALS ARE APPLIED. 4. BUILDING-INTEGRATED PHOTOVOLTAIC PRODUCTS INSTALLED AS THE ROOF COVERING SHALL BE TESTED, LISTED AND LABELED FOR FIRE CLASSIFICATION IN ACCORDANCE WITH SECTION R902.1 THROUGH R902.1.4. 5. ASPHALT SHINGLES SHALL BE USED ONLY ON ROOF SLOPES OF TWO UNITS VERTICAL IN 12 UNITS HORIZONTAL (17-PERCENT SLOPE) OR GREATER. FOR ROOF SLOPES FROM TWO UNITS VERTICAL IN 12 UNITS HORIZONTAL (17-PERCENT SLOPE) UP TO FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (33-PERCENT SLOPE), DOUBLE UNDERLAYMENT APPLICATION IS REQUIRED IN ACCORDANCE WITH SECTION R905.1.1. 6. CLAY AND CONCRETE ROOF TILE SHALL BE INSTALLED ON ROOF SLOPES OF TWO AND ONE-HALF UNITS VERTICAL IN 12 UNITS HORIZONTAL (25-PERCENT SLOPE) OR GREATER. FOR ROOF SLOPES FROM TWO AND ONE-HALF UNITS VERTICAL IN 12 UNITS HORIZONTAL (25-PERCENT SLOPE) TO FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (33-PERCENT SLOPE), DOUBLE UNDERLAYMENT APPLICATION IS REQUIRED IN ACCORDANCE WITH SECTION R905.3.3. 7. SLATE SHINGLES SHALL BE USED ONLY ON SLOPES OF FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (33-PERCENT SLOPE) OR GREATER. 8. THE MINIMUM SLOPE FOR STANDING-SEAM ROOF SYSTEMS SHALL BE ONE-QUARTER UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE). 9. BUILT-UP ROOFS SHALL HAVE A DESIGN SLOPE OF NOT LESS THAN ONE-FOURTH UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE) FOR DRAINAGE, EXCEPT FOR COAL-TAR BUILT-UP ROOFS, WHICH SHALL HAVE A DESIGN SLOPE OF A MINIMUM ONE-EIGHTH UNIT VERTICAL IN 12 UNITS HORIZONTAL (1-PERCENT SLOPE). 10. MINERAL-SURFACED ROLL ROOFING SHALL NOT BE APPLIED ON ROOF SLOPES BELOW ONE UNIT VERTICAL IN 12 UNITS HORIZONTAL (8-PERCENT SLOPE). 11. MODIFIED BITUMEN ROOFING SHALL HAVE A DESIGN SLOPE OF NOT LESS THAN ONE-FOURTH UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE) FOR DRAINAGE. 12. SINGLE-PLY MEMBRANE ROOFS SHALL HAVE A DESIGN SLOPE OF NOT LESS THAN ONE-FOURTH UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE) FOR DRAINAGE. 13. A CLASS A ROOF ASSEMBLY SHALL BE INSTALLED. IF THE APPLICANT DEVIATES FROM THE ROOF SPECIFICATIONS ON SHEET T1.1, THE APPLICANT SHALL PROVIDE A COPY OF THE ICC/UL LISTING													
				MECHANICAL NOTES									
				1. SMOKE DETECTORS MUST BE PERMANENTLY WIRED. IN NEW CONSTRUCTION, REQUIRED SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHERE SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND SHALL BE EQUIPPED WITH A BATTERY BACK-UP. SMOKE ALARMS SHALL EMIT A SIGNAL WHEN THE BATTERIES ARE LOW. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN AS REQUIRED FOR OVER CURRENT PROTECTION. 2. WHERE WATER CLOSET COMPARTMENT IS INDEPENDENT OF THE BATHROOM OR SHOWER AREA, A FAN WILL BE REQ. IN EACH AREA. BATHROOMS SHALL HAVE AN EXHAUST FAN WITH HUMIDITY CONTROL SENSOR, MIN. 50 CFM CAPACITY. (CRC R303.3.) 3. ROOMS CONTAINING BATHTUBS, SHOWERS, SPAS AND SIMILAR FIXTURES SHALL BE PROVIDED WITH AN EXHAUST FAN WITH HUMIDITY CONTROL SENSOR HAVING A MIN. CAPACITY OF 50 CFM DUCTED TO TERMINATE OUTSIDE THE BLDG. (CRC R303.3, CAL GREEN 4.505.1, CBC 1203 .5.2.1, CMC 402.5 4. SUPPLY AND RETURN AIR DUCTS TO BE INSULATED AT A MIN. OF R-6. (CAL ENERGY CODE TABLE 150.1-A)									

VERY HIGH FIRE SEVERITY ZONE (VHFSZ) NOTES			FIRE SPRINKLER NOTES																																																																																																																									
GENERAL NOTE: THE ADU SHALL COMPLY WITH CHAPTER 7A OF THE CURRENT CALIFORNIA BUILDING CODE IF IT IS IN THE VHFSZ. STRUCTURES IN THE VERY HIGH FIRE HAZARD SEVERITY ZONE SHALL PROVIDE & MAINTAIN A FUEL MODIFICATION ZONE. FUEL MODIFICATION ZONES: THE APPLICANT SHALL PROVIDE AND MAINTAIN FIRE/FUEL BREAKS TO THE SATISFACTION OF THE CITY'S FIRE DEPARTMENT. FIRE/FUEL BREAK SIZE (MINIMUM 100 FEET FROM STRUCTURE) & COMPOSITION SHALL BE DETERMINED BY THE FIRE DEPARTMENT & SHOWN ON THE IMPROVEMENT/GRADING PLANS, FINAL MAP, & BUILDING PLANS CBC CHAPTER 7A - MATERIALS & CONSTRUCTION METHODS FOR EXTERIOR WILDLIFE EXPOSURE IF THE PROPERTY THAT WILL CONTAIN THE ADU IS IN THE VERY HIGH FIRE HAZARD SEVERITY ZONE THESE NOTES SHALL APPLY. THE JURISDICTION HAS DETERMINED THAT THIS PROJECT IS IN A WILDLIFE -URBAN INTERFACE AREA. PLEASE SHOW COMPLIANCE WITH THE FOLLOWING ITEMS FOR NEW BUILDINGS, PER THE 2022 CBC. EXCEPTIONS: 1. BUILDINGS OF AN ACCESSORY CHARACTER CLASSIFIED AS A GROUP U OCCUPANCY AND NOT EXCEEDING 120 SQUARE FEET IN FLOOR AREA. WHEN LOCATED AT LEAST 30 FEET FROM AN APPLICABLE BUILDING. 2. BUILDINGS OF AN ACCESSORY CHARACTER CLASSIFIES AS A GROUP U OCCUPANCY OF ANY SIZE LOCATED LEAST 50' FROM AN APPLICABLE BUILDING. 3. BUILDINGS CLASSIFIED AS A GROUP U AGRICULTURE BUILDING. AS DEFINED IN SECTION 202 OF THE CODE (SEE ALSO APPENDIX C - GROUP U AGRICULTURE BUILDINGS), WHEN LOCATED AT LEAST 50' FROM AN APPLICABLE BUILDING. REQUIREMENTS: 1. 705A.2 ROOF COVERINGS. WHERE THE ROOF PROFILE HAS AN AIRSPACE UNDER THE ROOF COVERING, INSTALLED OVER A COMBUSTIBLE DECK, A 72 LB. (32.7 KG) CAP SHEET COMPLYING WITH ASTM D3909 STANDARD SPECIFICATION FOR "ASPHALT ROLLED ROOFING (GLASS FELT) SURFACED WITH MINERAL GRANULES," SHALL BE INSTALLED OVER THE ROOF DECK. BIRD STOPS SHALL BE USED AT THE EAVES WHEN THE PROFILE FITS. TO PREVENT DEBRIS AT THE EAVE. HIP AND RIDGE CAPS SHALL BE MUDDIED IN TO PREVENT INTRUSION OF FIRE OR EMBERS. EXCEPTION: CAP SHEET IS NOT REQUIRED WHEN NO LESS THAN 1" OF MINERAL WOOL BOARD OR OTHER NONCOMBUSTIBLE MATERIAL IS LOCATED BETWEEN THE ROOFING MATERIAL AND WOOD FRAMING OR DECK. ALTERNATELY, A CLASS A FIRE RATED ROOF UNDERLAYMENT, TESTED IN ACCORDANCE WITH ASTM E108, SHALL BE PERMITTED TO BE USED. IF THE SHEATHING CONSISTS OF EXTERIOR FIRE-RETARDANT TREATED WOOD, THE UNDERLAYMENT SHALL NOT BE REQUIRED TO COMPLY WITH A CLASS A CLASSIFICATION. BIRD STOPS SHALL BE USED AT THE EAVES WHEN THE PROFILE FITS, TO PREVENT DEBRIS AT THE EAVE. HIP AND RIDGE CAPS SHALL BE MUDDIED IN TO PREVENT INTRUSION OF FIRE OR EMBERS. 2. 705A.3 ROOF VALLEYS. WHERE VALLEY FLASHING IS INSTALLED, THE FLASHING SHALL BE NOT LESS THAN 0.019-INCH NO. 26 GAGE GALVANIZED SHEET CORROSION-RESISTANT METAL INSTALLED OVER NOT LESS THAN ONE LAYER OF MIN. 72 POUND MINERAL - SURFACED NON PERFORATED CAP SHEET COMPLYING WITH ASTM D 3909. AT LEAST 36-INCH -WIDE RUNNING THE FULL LENGTH OF THE VALLEY. 3. 705A.4 ROOF GUTTER. ROOF GUTTERS SHALL BE PROVIDED WITH THE MEANS TO PREVENT THE ACCUMULATION OF LEAVES AND DEBRIS IN THE GUTTER. 4. 706A.2 VENTILATION OPENINGS SHALL BE FULLY COVERED WITH WILDFIRE FLAME And EMBER RESISTANT VENTS APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL, OR WUI VENTS TESTED TO ASTM E2886 AND LISTED, BY COMPLYING WITH ALL OF THE FOLLOWING REQUIREMENTS: A) THERE SHALL BE NO FLAMING IGNITION OF THE COTTON MATERIAL DURING THE EMBER INTRUSION TEST B) THERE SHALL BE NO FLAMING IGNITION DURING THE INTEGRITY TEST PORTION OF THE FLAME INTRUSION TEST C) THE MAXIMUM TEMPERATURE OF THE UNEXPOSED SIDE OF THE VENT SHALL NOT EXCEED 662 F 5. 706A.2.1 VENTS THAT ARE INSTALLED ON A SLOPED ROOF, SUCH AS DORMER VENTS, SHALL COMPLY WITH ALL THE FOLLOWING A) VENTS SHALL BE COVERED WITH A MESH WHERE THE DIMENSIONS OF THE MESH THEREIN SHALL BE A MINIMUM OF $\frac{1}{16}$ - INCH AND SHALL NOT EXCEED $\frac{1}{8}$ - INCH IN DIAMETER B) THE MESH MATERIAL SHALL BE NONCOMBUSTIBLE C) THE MESH MATERIAL SHALL BE CORROSION RESISTANT. 6. 707A.3 EXTERIOR WALLS COVERINGS. THE EXTERIOR WALL COVERING SHALL COMPLY WITH ONE OR MORE OF THE FOLLOWING REQUIREMENTS, EXCEPT AS PERMITTED FOR EXTERIOR WALL ASSEMBLIES COMPLYING WITH SECTION 707A.4: 1. NONCOMBUSTIBLE MATERIAL 2. IGNITION- RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 704A.2. 3. FIRE-RETARDANT-TREATED WOOD. THE FIRE-RETARDANT-TREATED WOOD SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 2303.2. 7. 707A.3.1 EXTENT OF EXTERIOR WALL COVERING. EXTERIOR WALL COVERINGS SHALL EXTEND FROM THE TOP OF THE FOUNDATION TO THE ROOF AND TERMINATE AT 2" NOMINAL SOLID WOOD BLOCKING BETWEEN RAFTERS AT ALL ROOF OVERHANGS, OR IN THE CASE OF ENCLOSED EAVES, TERMINATE AT THE ENCLOSURE.	8. 707A.4 EXTERIOR WALL ASSEMBLIES. EXTERIOR WALL ASSEMBLIES OF BUILDINGS OR STRUCTURES SHALL BE CONSTRUCTED USING ONE OR MORE OF THE FOLLOWING METHODS, UNLESS THEY ARE COVERED BY AN EXTERIOR WALL COVERING COMPLYING WITH SECTION 707A.3: 1. ASSEMBLY OF SAWN LUMBER OR GLUE LAMINATED WOOD WITH THE SMALLEST MINIMUM NOMINAL DIMENSION OF 4 INCHES. SAWN OR GLUE-LAMINATED PLANKS SPLINED, TONGUE-AND-GROVE , OR SET CLOSE TOGETHER AND WELL SPIKED. 2. LOG WALL CONSTRUCTION ASSEMBLY 3. ASSEMBLY THAT HAS BEEN TESTED IN ACCORDANCE WITH THE TEST PROCEDURES FOR A 10 MINUTE DIRECT FLAME CONTACT EXPOSURE SET FORTH IN ASTM E2707 WITH THE CONDITIONS OF ACCEPTANCE SHOWN IN SECTION 707A.4.1. 4. ASSEMBLY THAT MEET THE PERFORMANCE CRITERIA IN ACCORDANCE WITH THE TEST PROCEDURES FOR A TEN MINUTE DIRECT FLAME CONTACT EXPOSURE TEST SET FORTH IN SFM STANDARD 12-7A-1 5. ASSEMBLY SUITABLE FOR EXTERIOR FIRE EXPOSURE WITH A 1-HOUR FIRE RESISTANCE RATING, RATED FROM THE EXTERIOR SIDE, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL263 6. ASSEMBLY SUITABLE FOR EXTERIOR FIRE EXPOSURE CONTAINING ONE LAYER OF $\frac{5}{8}$ -INCH TYPE X GYPSUM SHEATHING APPLIED BEHIND THE EXTERIOR WALL COVERING OR CLADDING ON THE EXTERIOR SIDE OF THE FRAMING. 7. ASSEMBLY SUITABLE FOR EXTERIOR EXPOSURE CONTAINING ANY OF THE GYPSUM PANEL AND SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUEL AS COMPLYING WITH A 1-HOUR FIRE-RESISTANCE RATING, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263	11. 707A.7 EXTERIOR PORCH CEILINGS. THE EXPOSED UNDERSIDE OF THE EXTERIOR PORCH CEILINGS SHALL BE PROTECTED BY ONE OF THE FOLLOWING: 1. NON COMBUSTIBLE MATERIAL 2. IGNITION- RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 704A.2 3. FIRE-RETARDANT-TREATED-WOOD. THE FIRE-RETARDANT TREATED WOOD SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 2303.2 4. MATERIALS APPROVED FOR NOT LESS THAN 1-HOUR FIRE-RESISTANCE-RATED CONSTRUCTION ON THE EXTERIOR SIDE, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263 5. ONE LAYER OF $\frac{5}{8}$" TYPE X GYPSUM SHEATHING APPLIED BEHIND THE EXTERIOR COVERING OR CLADDING ON THE UNDERSIDE OF THE RAFTER TAILS OR SOFFIT. 6. THE EXTERIOR PORTION A 1- HOUR FIRE RESISTIVE EXTERIOR ASSEMBLY, AS TESTED IN ACCORDANCE WITH ASTM E119, APPLIED TO THE UNDERSIDE OF THE CEILING ASSEMBLY, INCLUDING ASSEMBLES USING THE GYPSUM PANEL AND SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL 7. PORCH CEILING ASSEMBLIES WITH A HORIZONTAL UNDERSIDE THAT MEET THE PERFORMANCE CRITERIA IN SECTION 707A.11 WHEN TESTED IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN ASTM E2957 8. PORCH CEILING ASSEMBLIES WITH A HORIZONTAL UNDERSIDE THAT MEET THE PERFORMANCE CRITERIA IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN SFM STANDARD 12-7A-3 EXCEPTION TO SECTION 707A.7: ARCHITECTURAL TRIM BOARDS DO NOT REQUIRE PROTECTION	14. 707A.10 UNDERSIDE OF APPENDAGES. WHEN REQUIRED BY THE ENFORCING AGENCY THE UNDERSIDE OF OVERHANGING APPENDAGES SHALL BE ENCLOSED TO GRADE IN ACCORDANCE WITH THE REQUIREMENTS OF THIS CHAPTER OR THE UNDERSIDE OF THE EXPOSED UNDER FLOOR SHALL CONSIST OF ONE OF THE FOLLOWING: 1. NONCOMBUSTIBLE MATERIAL 2. IGNITION- RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 704A.2 3. FIRE-RETARDANT-TREATED-WOOD. THE FIRE-RETARDANT TREATED WOOD SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 2303.2 4. MATERIALS APPROVED FOR NOT LESS THAN 1-HOUR FIRE-RESISTANCE-RATED CONSTRUCTION ON THE EXTERIOR SIDE, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263 5. ONE LAYER OF $\frac{5}{8}$" TYPE X GYPSUM SHEATHING APPLIED BEHIND THE EXTERIOR COVERING ON THE UNDERSIDE OF THE APPENDAGE PROJECTION 6. THE EXTERIOR PORTION A 1- HOUR FIRE RESISTIVE EXTERIOR ASSEMBLY, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263, APPLIED TO THE UNDERSIDE OF THE APPENDAGE, INCLUDING ASSEMBLES USING THE GYPSUM PANEL AND SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL 7. THE UNDERSIDE OF AN APPENDAGE ASSEMBLY THAT MEETS THE PERFORMANCE CRITERIA IN SECTION 707A.11 WHEN TESTED IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN ASTM E2957. 8. THE UNDERSIDE OF AN APPENDAGE ASSEMBLY THAT MEETS THE PERFORMANCE CRITERIA IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN SFM STANDARD 12-7A-3. EXCEPTION TO SECTION 707A.10: STRUCTURAL COLUMNS AND BEAMS DO NOT REQUIRE PROTECTION WHEN CONSTRUCTED WITH SAWN LUMBER OR GLUE-LAMINATED WOOD WITH THE SMALLEST MINIMUM NOMINAL DIMENSION OF 4 INCHES. SAWN OR GLUE-LAMINATED PLANKS SHALL BE SPLINED, TONGUE-AND-GROOVE, OR SET CLOSE TOGETHER AND WELL SPIKED	1. IF FIRE SPRINKLERS ARE REQUIRED AT PROPOSED ADU THEN THE FOLLOWING NOTES APPLY. 2. AUTOMATIC FIRE SPRINKLER SYSTEM - AN AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE INSTALLED AS PER NFPA 13D THE MOST CURRENT EDITION. DETAILED SPRINKLER PLANS SHALL BE SUBMITTED TO THE FIRE PREVENTION BUREAU AND APPROVED PRIOR TO INSTALLATION. PLANS AND INSTALLATION MUST BE BY A C16 LICENSED SPRINKLER CONTRACTOR. 3. SECTION 903.2 GROUP R AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3 SHALL BE PROVIDED THROUGHOUT ALL BUILDINGS WITH A GROUP R FIRE AREA. THIS INCLUDES SINGLE FAMILY DWELLINGS, MULTI-FAMILY DWELLINGS AND ALL RESIDENTIAL CARE FACILITIES REGARDLESS OF OCCUPANT LOAD. 4. SECTION 903.2.01 ADDITIONS AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH 903.3 MAY BE REQUIRED TO BE INSTALLED THROUGHOUT STRUCTURES WHEN THE ADDITION IS MORE THAN 50% OF THE EXISTING BUILDING OR WHEN THE ALTERED BUILDING WILL EXCEED A FIRE FLOW OF 1,500 GALLONS PER MINUTE AS CALCULATED PER SECTION 507.3. THE FIRE CODE OFFICIAL MAY REQUIRE AN AUTOMATIC SPRINKLER SYSTEM BE INSTALLED IN BUILDINGS WHERE NO WATER MAIN EXISTS TO PROVIDE THE REQUIRED FIRE FLOW OR WHERE A SPECIAL HAZARD EXISTS SUCH AS: POOR ACCESS ROADS, GRADE, BLUFFS AND CANYON RIMS, HAZARDOUS BRUSH AND RESPONSE TIMES GREATER THAN 5 MINUTES BY A FIRE DEPARTMENT. 5. SECTION 903.2.01 REMODELS OR RECONSTRUCTION AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3 MAY BE REQUIRED IF THE SCOPE OF WORK INCLUDES SIGNIFICANT MODIFICATION TO THE INTERIOR AND/OR ROOF OF THE BUILDING, AND THE COST OF THE INSTALLATION DOES NOT EXCEED 15 PERCENT OF THE VALUATION OF THE REMODEL. 6. LOCATION AND SIZE OF WATER SERVICE UNDERGROUND SHALL BE INSTALLED AS SHOWN ON APPROVED FIRE SPRINKLER PLANS. A MINIMUM 1 INCH WATER SHALL BE INSTALLED. 7. A FIRE UNDERGROUND FLUSH CERTIFICATION SHALL BE REQUIRED AT FINAL INSPECTION. 8. A HYDRO INSPECTION OF THE FIRE SPRINKLER SYSTEM IS REQUIRED PRIOR TO FRAME INSPECTION. ONLY THE NEW PIPING SHALL BE TESTED.																																																																																																																								
	ABBREVIATIONS <table><tr><td>ADU</td><td>ACCESSORY DWELLING UNIT</td></tr><tr><td>AFF</td><td>ABOVE FINISH FLOOR</td></tr><tr><td>AMP</td><td>AMPERE</td></tr><tr><td>AWG</td><td>AMERICAN WIRE GAUGE</td></tr><tr><td>BMP</td><td>BEST MANAGEMENT PRACTICE</td></tr><tr><td>BM</td><td>BEAM</td></tr><tr><td>BN</td><td>BOUNDARY NAILING</td></tr><tr><td>BTM</td><td>BOTTOM</td></tr><tr><td>C</td><td>COUNTER</td></tr><tr><td>CALC</td><td>CALCULATION</td></tr><tr><td>CFH</td><td>CUBIC FEET PER HOUR</td></tr><tr><td>CFM</td><td>CUBIC FEET PER MINUTE</td></tr><tr><td>CONC</td><td>CONCRETE</td></tr><tr><td>CONT</td><td>CONTINUOUS</td></tr><tr><td>DBL</td><td>DOUBLE</td></tr><tr><td>DIA</td><td>DIAMETER</td></tr><tr><td>DTP</td><td>DOUBLE TOP PLATE</td></tr><tr><td>DW</td><td>DISH WASHER</td></tr><tr><td>EQ</td><td>EQUAL</td></tr><tr><td>FFE</td><td>FINISH FLOOR ELEVATION</td></tr><tr><td>FIN</td><td>FINISH</td></tr><tr><td>FR</td><td>FIRE RATED</td></tr><tr><td>GAL</td><td>GALLON</td></tr><tr><td>GD</td><td>GARBAGE DISPOSAL</td></tr><tr><td>GFI</td><td>GROUND-FAULT CIRCUIT INTERRUPTER</td></tr><tr><td>GI</td><td>GALVANIZED IRON</td></tr><tr><td>GL</td><td>GLASS</td></tr><tr><td>GPM</td><td>GALLON PER MINUTE</td></tr><tr><td>GYP</td><td>GYPSUM</td></tr><tr><td>HLW</td><td>HALLOW</td></tr><tr><td>HGT</td><td>HEIGHT</td></tr><tr><td>HDR</td><td>HEADER</td></tr><tr><td>HDU</td><td>HOLDOWN INSTALLATION</td></tr><tr><td>LVL</td><td>LEVEL</td></tr><tr><td>MIN</td><td>MINIMUM</td></tr><tr><td>OAE</td><td>OR APPROVED EQUIVALENT</td></tr><tr><td>OC</td><td>ON CENTER</td></tr><tr><td>OPER</td><td>OPERATION</td></tr><tr><td>O</td><td>OVEN</td></tr><tr><td>OSB</td><td>ORIENTED STRAND BOARD</td></tr><tr><td>PSI</td><td>POUNDS PER SQUARE INCH</td></tr><tr><td>PSL</td><td>PARALLEL-STRAND LUMBER</td></tr><tr><td>PT</td><td>POST TENTION</td></tr><tr><td>QNTY</td><td>QUANTITY</td></tr><tr><td>REQ</td><td>REQUIRED</td></tr><tr><td>REF</td><td>REFRIGERATOR</td></tr><tr><td>REINF</td><td>REINFORCED</td></tr><tr><td>SDS</td><td>SAFETY DATA SHEET</td></tr><tr><td>SIM</td><td>SIMILAR</td></tr><tr><td>SF</td><td>SQUARE FOOTAGE</td></tr><tr><td>SHT</td><td>SHEET</td></tr><tr><td>T</td><td>TEMPERED</td></tr><tr><td>THICK</td><td>THICKNESS</td></tr><tr><td>TYP</td><td>TYPICAL</td></tr><tr><td>UNO</td><td>UNLESS NOTED OTHERWISE</td></tr><tr><td>VB</td><td>TYPE 5 B CONSTRUCTION</td></tr><tr><td>WD</td><td>WASHER AND DRYER</td></tr><tr><td>WD</td><td>WOOD</td></tr><tr><td>WH</td><td>WATER HEATER</td></tr><tr><td>WR</td><td>WEATHER RESISTANT</td></tr><tr><td>V</td><td>VOLT</td></tr></table>			ADU	ACCESSORY DWELLING UNIT	AFF	ABOVE FINISH FLOOR	AMP	AMPERE	AWG	AMERICAN WIRE GAUGE	BMP	BEST MANAGEMENT PRACTICE	BM	BEAM	BN	BOUNDARY NAILING	BTM	BOTTOM	C	COUNTER	CALC	CALCULATION	CFH	CUBIC FEET PER HOUR	CFM	CUBIC FEET PER MINUTE	CONC	CONCRETE	CONT	CONTINUOUS	DBL	DOUBLE	DIA	DIAMETER	DTP	DOUBLE TOP PLATE	DW	DISH WASHER	EQ	EQUAL	FFE	FINISH FLOOR ELEVATION	FIN	FINISH	FR	FIRE RATED	GAL	GALLON	GD	GARBAGE DISPOSAL	GFI	GROUND-FAULT CIRCUIT INTERRUPTER	GI	GALVANIZED IRON	GL	GLASS	GPM	GALLON PER MINUTE	GYP	GYPSUM	HLW	HALLOW	HGT	HEIGHT	HDR	HEADER	HDU	HOLDOWN INSTALLATION	LVL	LEVEL	MIN	MINIMUM	OAE	OR APPROVED EQUIVALENT	OC	ON CENTER	OPER	OPERATION	O	OVEN	OSB	ORIENTED STRAND BOARD	PSI	POUNDS PER SQUARE INCH	PSL	PARALLEL-STRAND LUMBER	PT	POST TENTION	QNTY	QUANTITY	REQ	REQUIRED	REF	REFRIGERATOR	REINF	REINFORCED	SDS	SAFETY DATA SHEET	SIM	SIMILAR	SF	SQUARE FOOTAGE	SHT	SHEET	T	TEMPERED	THICK	THICKNESS	TYP	TYPICAL	UNO	UNLESS NOTED OTHERWISE	VB	TYPE 5 B CONSTRUCTION	WD	WASHER AND DRYER	WD	WOOD	WH	WATER HEATER	WR	WEATHER RESISTANT	V
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project

PRADU
City of Encinitas

revisions



description

General
Notes

date ## Month 20##

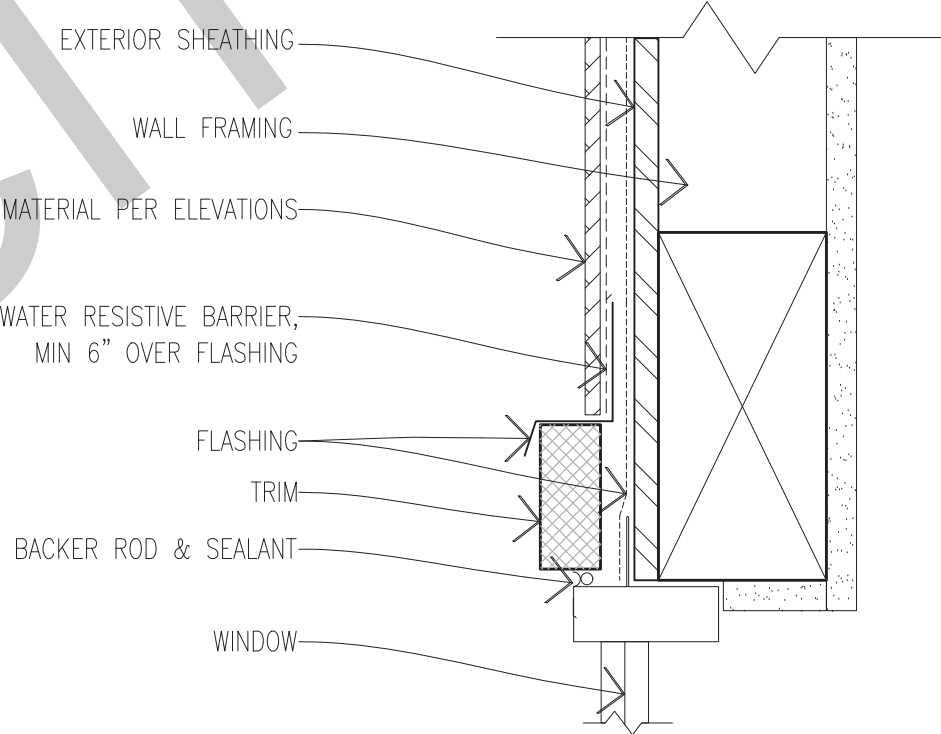
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WINDOWS AND DOORS IN ELEVATION
SCALE: 1/4"=1'-0"



C SILL
SECTION VIEW

project
PRADU
City of Encinitas

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description

Schedules & Notes

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date          ## Month 20##
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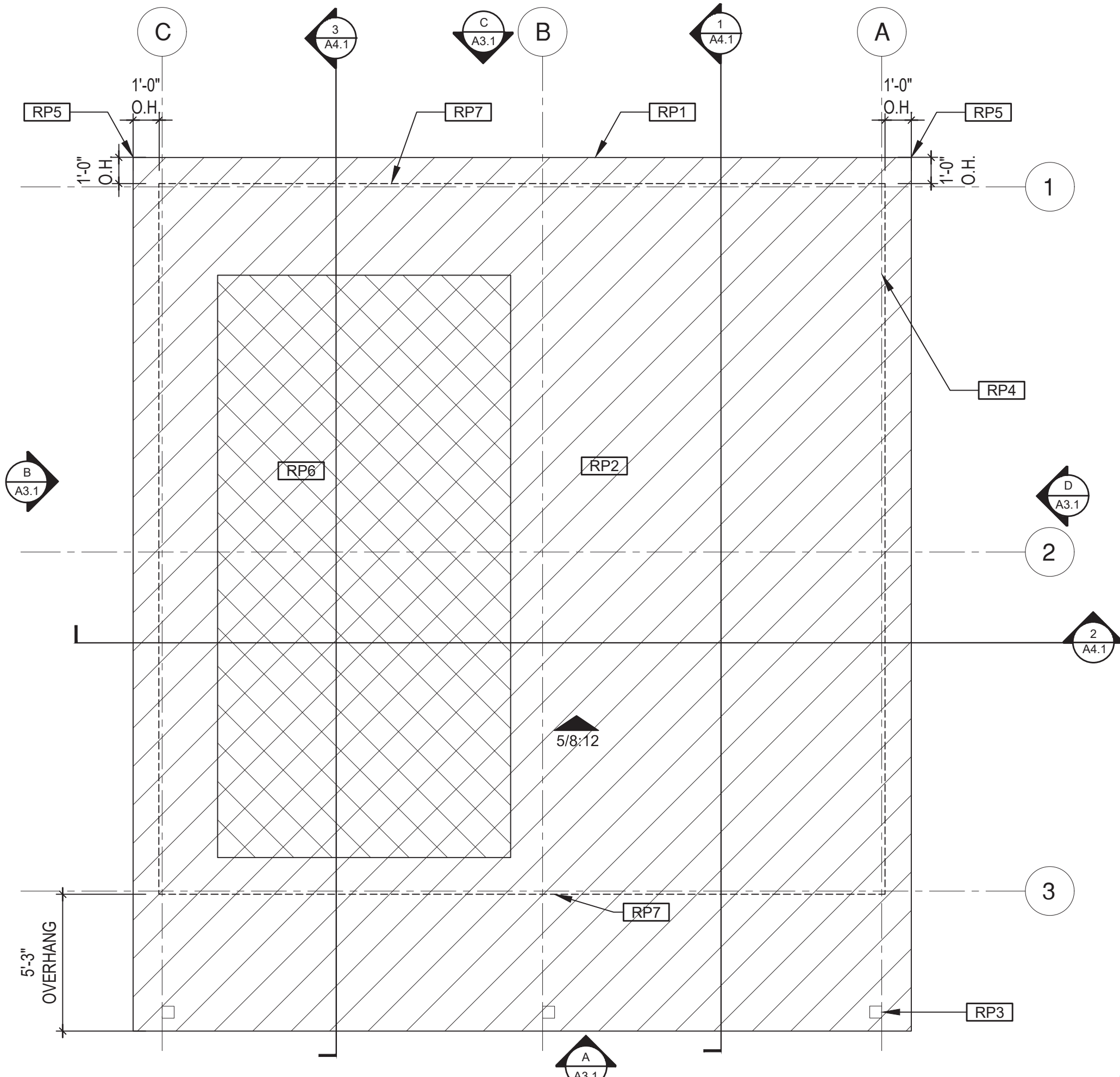
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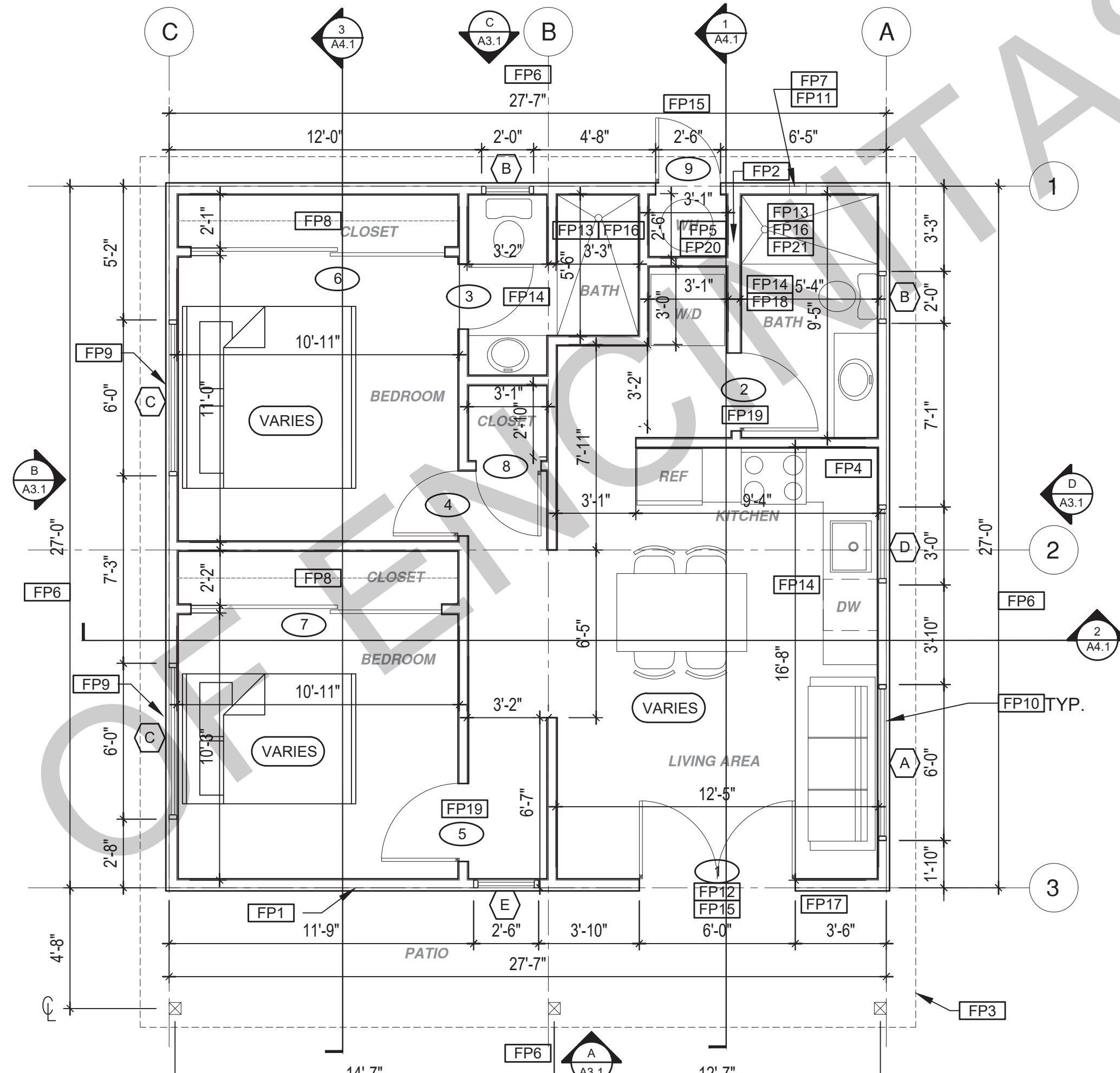
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ROOF PLAN

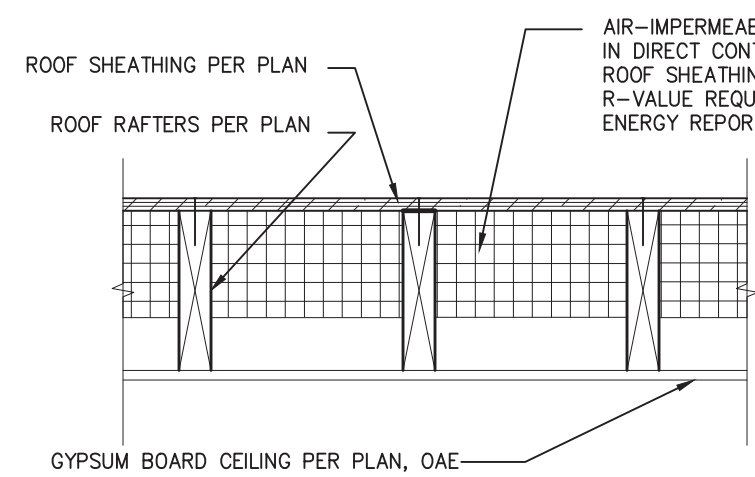
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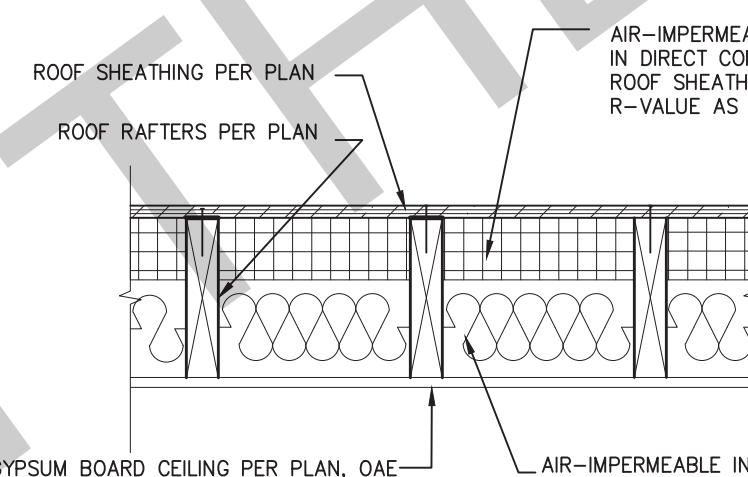
FLOOR PLAN

1/4"=1'-0" 745 SQ. FT.

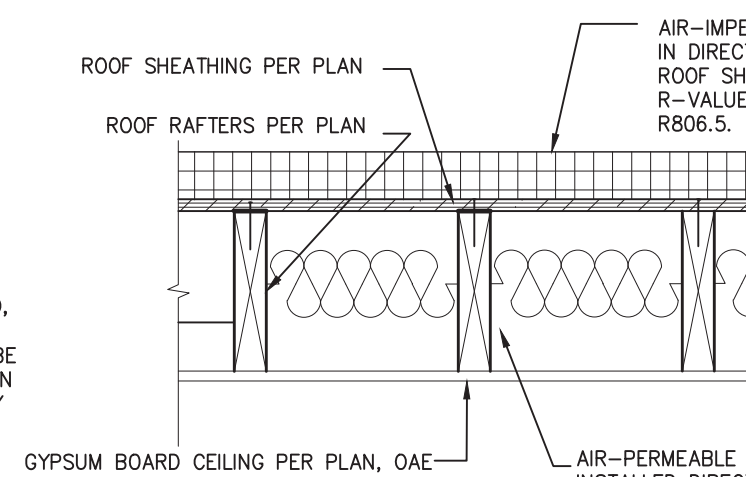
INSULATION DETAILS (FOR NON VENTED ROOFS ONLY)



- NOTES:
- 1) DESIGN BASE ON 2022CRC SECTION R806.5.5.1.1
 - 2) THE INSULATION R-VALUES SHOULD MEET THE R-VALUE REQUIRED BY THE ENERGY REPORT
 - 3) WHERE ONLY AIR-IMPERMEABLE INSULATION IS PROVIDED, IT SHALL BE APPLIED IN DIRECT CONTACT WITH THE UNDERSIDE OF THE STRUCTURAL ROOF SHEATHING



- NOTES:
- 1) DESIGN BASE ON 2022CRC SECTION R806.5.5.1.3
 - 2) THE COMBINED R-VALUES SHOULD MEET THE R-VALUE REQUIRED BY THE ENERGY REPORT
 - 3) WHERE AIR-IMPERMEABLE AND AIR-PERMEABLE INSULATION ARE PROVIDED, THE AIR IMPERMEABLE INSULATION SHALL BE APPLIED IN DIRECT CONTACT WITH THE UNDERSIDE OF THE STRUCTURAL ROOF SHEATHING AND SHALL BE IN ACCORDANCE WITH THE R-VALUES IN TABLE R806.5 FOR CONDENSATION CONTROL. THE AIR-PERMEABLE INSULATION SHALL BE INSTALLED DIRECTLY UNDER THE AIR-IMPERMEABLE INSULATION.



- NOTES:
- 1) DESIGN BASE ON 2022CRC SECTION R806.5.5.1.2
 - 2) THE COMBINED R-VALUES SHOULD MEET THE R-VALUE REQUIRED BY THE ENERGY REPORT
 - 3) WHERE AIR-IMPERMEABLE INSULATION IS PROVIDED INSIDE THE BUILDING THERMAL ENVELOPE, IT SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 5.1.1 IN ADDITION TO THE AIR-PERMEABLE INSULATION INSTALLED DIRECTLY BELOW THE STRUCTURAL SHEATHING, RIGID BOARD OR SHEET INSULATION SHALL BE INSTALLED DIRECTLY ABOVE THE STRUCTURAL ROOF SHEATHING IN ACCORDANCE WITH THE R-VALUES IN TABLE R806.5 FOR CONDENSATION CONTROL.

A INSULATION @ UNVENTED ROOF ASSEMBLY IMPERMEABLE ONLY SCALE: 1"=1'-0"

B INSULATION @ UNVENTED ROOF ASSEMBLY BOTH TYPES SCALE: 1"=1'-0"

C INSULATION AT UNVENTED ROOF ASSEMBLY-OVER/UNDER SCALE: 1"=1'-0"

ROOF KEYNOTES	FLOOR PLAN KEYNOTES	SOLAR READY NOTES	LEGEND
RP1 LINE OF ROOF OVERHANG RP2 CLASS A ROOFING MATERIAL. SEE GENERAL ROOF NOTE 13 ON SHEET G0.2 RP3 SUPPORT POST BELOW RP4 LINE OF WALLS BELOW RP5 ROOF DOWNSPOUT LOCATION TO BE DETERMINED BY SITE SPECIFIC CONDITIONS RP6 DESIGNATED SOLAR PANEL AREA. PLEASE SEE SOLAR READY NOTES ON THIS SHEET RP7 RAFTER VENTS TO MEET REQUIRED VENTILATION AREA FOR ENCLOSED RAFTER SPACES. MAX 1/4" MIN 1/4" OPENING SIZE ON VENT SCREEN WITH CORROSION-RESISTANT WIRE SCREEN MATERIAL. 1 SF OF VENTING PER 150 SF OF ENCLOSED RAFTER AREA IN NON-FIRE RATED CONSTRUCTION PLEASE SEE VENTING CALCULATIONS ON THIS SHEET FOR NON-VENTED EAVES SEE DETAILS A, B, & C ON THIS SHEET	FP1 STUD WALL SIZED PER STRUCTURAL FP2 2X6 STUD WALL OR FURRING AS NEEDED FOR MECHANICAL / PLUMBING / VENTING FP3 LINE OF OVERHANG ABOVE FP4 36" HIGH COUNTER FP5 WATER HEATER FP6 SLOPE SURFACE AWAY FROM BUILDING FP7 DRYER VENT TERMINATION ON EXTERIOR WALL TO BE A MINIMUM OF 3 FT FROM ANY OPENING FP8 CLOSET SHELF AND POLE FP9 EMERGENCY EGRESS WINDOW FP10 WINDOW MUST HAVE A FRAME AND SASH COMPRISED OF WELDED CORNERS, METAL REINFORCEMENT IN THE INTERLOCK AREA, AND CONSTRUCTED OF MULTIPANE TEMPERED GLAZING WHERE INDICATED TYPICAL ALL WINDOWS FP11 VENT DRYER THROUGH WALL. SEE MECHANICAL / PLUMBING PLANS FOR FURTHER INFORMATION FP12 MIN. 1 HINGED ENTRY DOOR FOR EGRESS COMPLIANCE REQUIRED - THE EGRESS DOOR SHALL BE SIDE-HINGED AND SHALL PROVIDE A CLEAR WIDTH OF NOT LESS THAN 32 INCHES WHERE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90°. THE CLEAR HEIGHT OF THE DOOR OPENING SHALL BE NOT LESS THAN 78 INCHES IN HEIGHT MEASURED FROM THE TOP OF THE THRESHOLD TO THE BOTTOM OF THE STOP FP13 SURROUND AROUND THE SHOWER MUST BE TEMPERED. GLAZING IN THE WALLS/DOORS FACING OR CONTAINING BATHTUBS, SHOWERS, HOT TUBS, SPAS, WHIRLPOOLS, SAUNAS, STEAM ROOMS AND INDOOR/OUTDOOR SWIMMING POOLS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60" ABOVE THE STANDING SURFACE. EXCEPTION: GLAZING THAT IS MORE THAN 60" MEASURED HORIZONTALLY FROM THE WATER'S EDGE OF A BATHTUB, HOT TUB, SPA, WHIRLPOOL OR SWIMMING POOL. FP14 PER SECTION 301.1.1 CALGREEN AND CIVIL CODE 1101.3(c), ALL PLUMBING FIXTURES SHALL BE COMPLIANT WATER-CONSERVING PLUMBING FIXTURES. SEE MECHANICAL / PLUMBING PLANS FOR FURTHER INFORMATION	SOLAR READY ROOF AREA: MIN DIMENSION > 5FT. MIN. SF. > 80SF. PER CALIFORNIA ENERGY CODE SECTION 110.10(b) THE SOLAR ZONE SHALL COMPLY WITH ACCESS, PATHWAY, SMOKE VENTILATION, AND SPACING REQUIREMENTS AS SPECIFIED IN TILE 24, PART 9 OR OTHER PARTS OF TITLE 24 OR IN ANY REQUIREMENTS ADOPTED BY LOCAL JURISDICTION SINGLE FAMILY RESIDENCE. THE SOLAR ZONE SHALL BE LOCATED ON THE ROOF OR OVERHANG OF THE BUILDING AND HAVE A TOTAL AREA OF NO LESS THAN 250SQFT. FOR PHOTOVOLTAIC ARRAYS OCCUPYING NOT MORE THAN 33 PERCENT OF THE PLAN VIEW TOTAL ROOF AREA, NOT LESS THAN AN 18-INCH (457 MM) CLEAR SETBACK IS REQUIRED ON BOTH SIDES OF A HORIZONTAL RIDGE. FOR PHOTOVOLTAIC ARRAYS OCCUPYING MORE THAN 33 PERCENT OF THE PLAN VIEW TOTAL ROOF AREA, NOT LESS THAN A 36-INCH (914 MM) CLEAR SETBACK IS REQUIRED ON BOTH SIDES OF A HORIZONTAL RIDGE. VENTING CALCULATIONS ROOF VENTING: 15F. OF ROOF VENTING PER 150 SF. OF ENCLOSED RAFTER AREA OR ENCLOSED RAFTER AREA. 745_SF. ENCLOSED RAFTER AREA: 745_SF / 150SF = 4.97_SF. VENTILATION AREA REQUIRED: 745_SF / 150SF = 4.97_SF. CONVERT TO SQ. IN.: 4.97_SF x 144 = 715_SQ. IN. MINIMUM VENTILATION AREA REQUIRED: 715_SQ. IN.	SECTION CUT ELEVATION CALLOUT DETAIL DRAWING REF. WALL BELOW OR ROOF ABOVE SOLAR ZONE. REFER TO SOLAR NOTES ON SHEET G0.2 ROOFING KEYNOTE DOOR SYMBOL WINDOW SYMBOL CEILING HEIGHTS VAULTED CEILING ROOF SLOPE

project

PRADU
City of Encinitas

revisions



description

Roof / Floor
Plan

date ## Month 20##

project no. 20##_xxxxxx

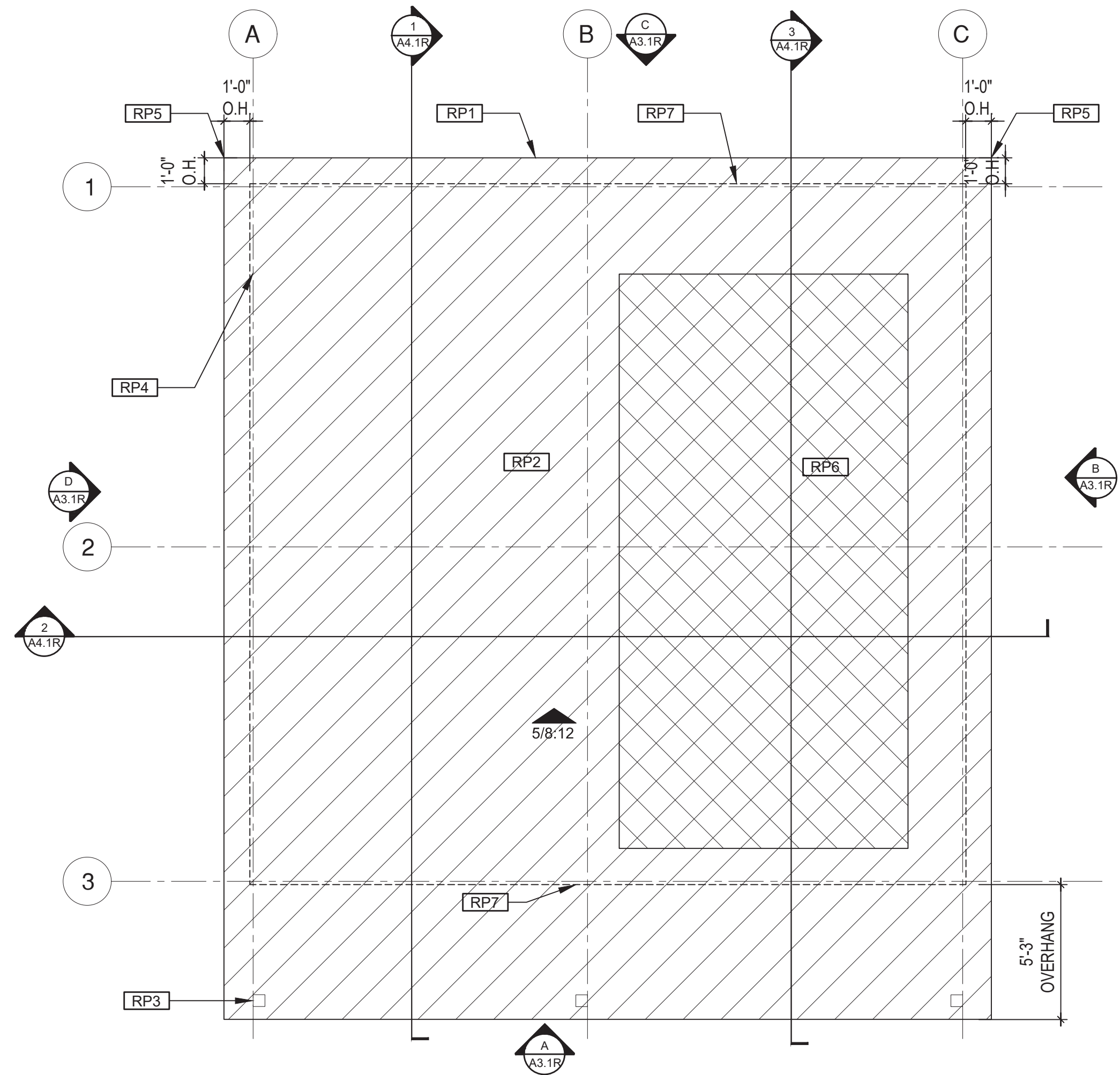
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A1.1

BY USING THESE PERMIT READY CONSTRUCTION DOCUMENTS, THE RECIPIENT ACKNOWLEDGES, ACCEPTS AND VOLUNTARILY AFFIRMS THE FOLLOWING CONDITIONS:

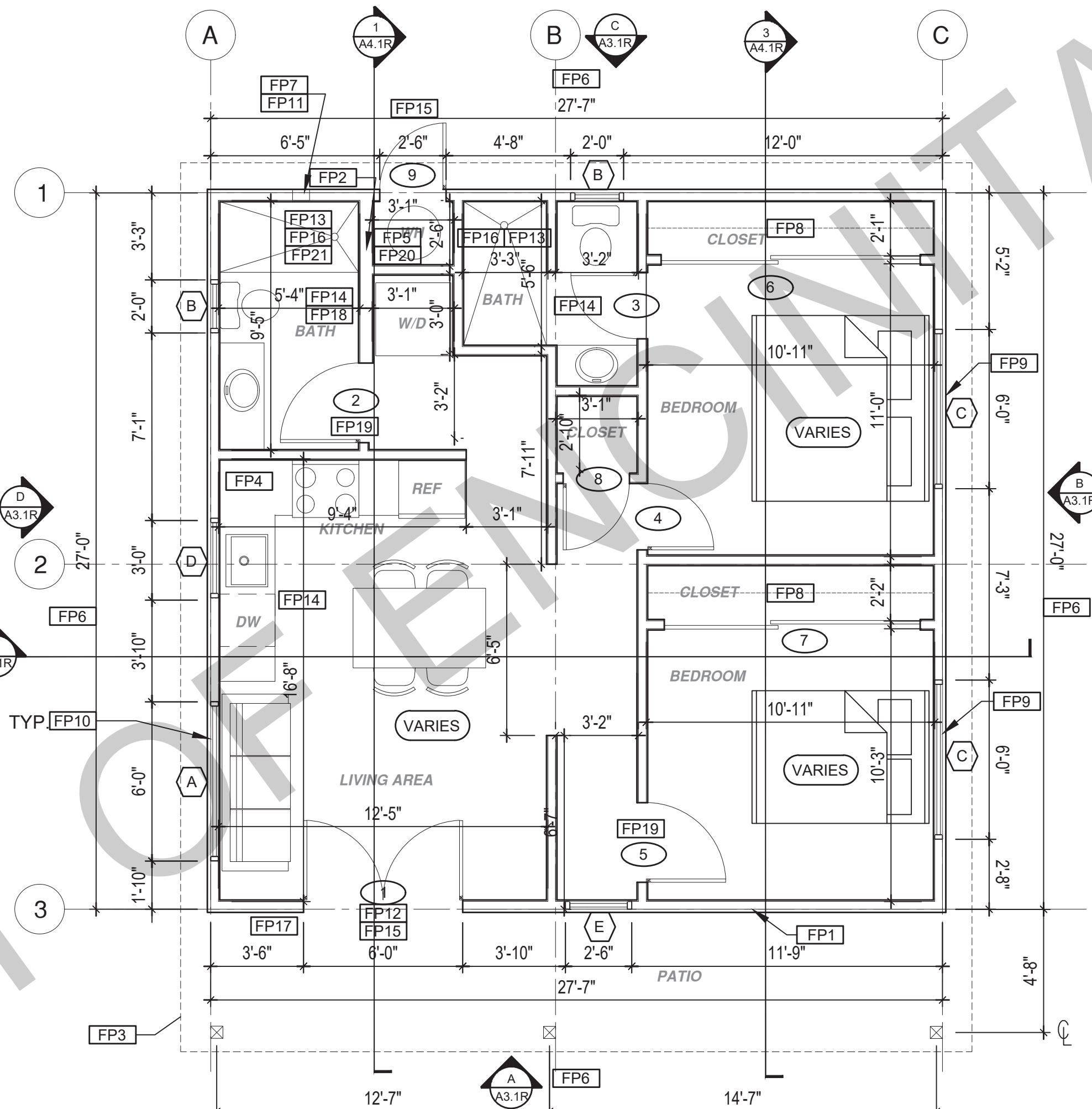
1. THE USE OF THIS INFORMATION IS RESTRICTED TO THE ORIGINAL PROJECT FOR WHICH IT WAS PREPARED FOR THE PERMIT READY ACCESSORY DWELLING UNIT (ADU) PROGRAM FOR THE CITY OF ENCINITAS ONLY. THIS IS A LIMITED SET OF STANDARDIZED ADU PLANS AND SPECIFICATIONS APPROVED BY THE CITY OF ENCINITAS BUILDING DEPARTMENT. BUILDING CODES DO CHANGE OVER TIME AND RECIPIENT SHALL ENSURE FULL COMPLIANCE UNDER ALL CODES THEN IN EFFECT AT THE TIME OF THE SUBJECT PERMIT. THIS DOES NOT ELIMINATE OR REDUCE THE RECIPIENT'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION RELEVANT TO THE RECIPIENT'S WORK AND RESPONSIBILITY ON THIS PROJECT. DESIGN PATH STUDIO SHALL NOT BE RESPONSIBLE FOR TRANSLATION ERRORS. DO NOT USE THESE CONSTRUCTION DOCUMENTS IF THE PERMIT HAS EXPIRED OR IS REVOKED AT ALL.
2. THE RECIPIENT RECOGNIZES AND ACKNOWLEDGES THAT THE USE OF THIS INFORMATION WILL BE AT THEIR SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL EXPOSURE TO DESIGN PATH STUDIO. NO WARRANTIES OF ANY NATURE, WHETHER EXPRESS OR IMPLIED, SHALL ATTACH TO THESE DOCUMENTS AND THE INFORMATION CONTAINED THEREON. ANY USE, REUSE, OR ALTERATION OF THESE DOCUMENTS BY THE RECIPIENT OR BY OTHERS WILL BE AT THE RECIPIENT'S RISK AND FULL LEGAL RESPONSIBILITY. FURTHERMORE, THE RECIPIENT WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, DEFEND, INDEMNIFY AND HOLD DESIGN PATH STUDIO AND ITS ARCHITECTS HARMLESS FROM ANY AND ALL CLAIMS, SUITS, LIABILITY, DEMANDS, JUDGMENTS, OR COSTS ARISING OUT OF OR RESULTING THEREFROM ANY USE OF THESE CONSTRUCTION DOCUMENTS FOR OR ON ACCOUNT OF ANY INJURY, DEATH, DAMAGE OR LOSS TO PERSONS OR PROPERTY, DIRECT OR CONSEQUENTIAL DAMAGES IN ANY AMOUNT. THIS INDEMNITY DOES NOT APPLY TO THE SOLE NEGLIGENCE OR WILLFUL MISCONDUCT OF DESIGN PATH STUDIO OR ITS ARCHITECTS.
3. THE DESIGNS REPRESENTED BY THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION.
4. IF THE RECIPIENT DOES NOT AGREE WITH THE ABOVE CONDITIONS, DO NOT PROCEED WITH CONSTRUCTION OF AN ADU OR OTHER IMPROVEMENT UNDER THESE PLANS AT ALL.



ROOF PLAN

1/4"=1'-0"

REVERSE



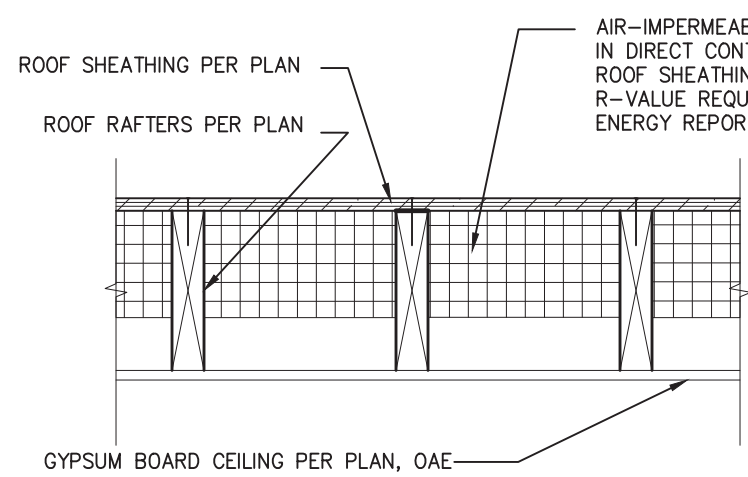
FLOOR PLAN

1/4"=1'-0"

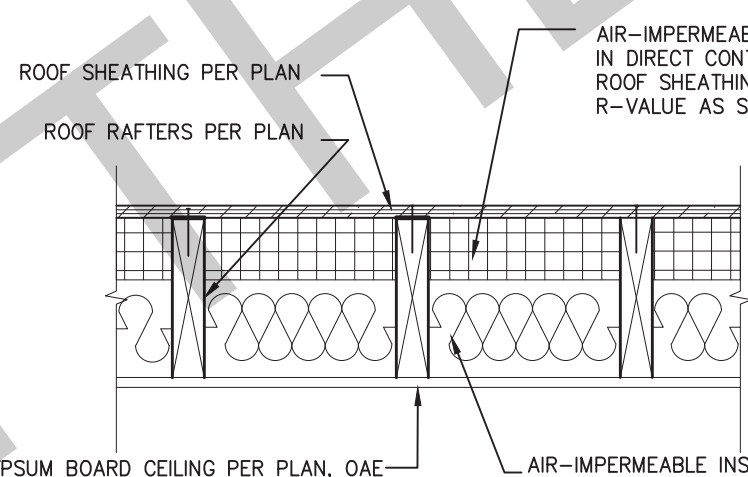
745 SQ. FT.

REVERSE

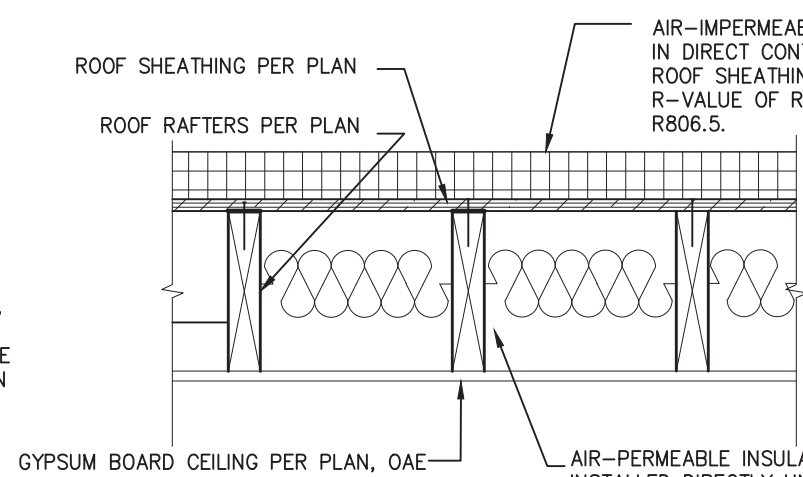
INSULATION DETAILS (FOR NON VENTED ROOFS ONLY)



- NOTES:
- 1) DESIGN BASE ON 2022CRC SECTION R806.5.5.1.1
 - 2) THE INSULATION R-VALUES SHOULD MEET THE R-VALUE REQUIRED BY THE ENERGY REPORT
 - 3) WHERE ONLY AIR-IMPERMEABLE INSULATION IS PROVIDED, IT SHALL BE APPLIED IN DIRECT CONTACT WITH THE UNDERSIDE OF THE STRUCTURAL ROOF SHEATHING



- NOTES:
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- NOTES:
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A INSULATION @ UNVENTED ROOF ASSEMBLY IMPERMEABLE ONLY

SCALE: 1"=1'-0"

B INSULATION @ UNVENTED ROOF ASSEMBLY BOTH TYPES

SCALE: 1"=1'-0"

C INSULATION AT UNVENTED ROOF ASSEMBLY-OVER/UNDER

SCALE: 1"=1'-0"

ROOF KEYNOTES

- RP1** LINE OF ROOF OVERHANG
- RP2** CLASS A ROOFING MATERIAL. SEE GENERAL ROOF NOTE 13 ON SHEET G0.2
- RP3** SUPPORT POST BELOW
- RP4** LINE OF WALLS BELOW
- RP5** ROOF DOWNSPOUT LOCATION TO BE DETERMINED BY SITE SPECIFIC CONDITIONS
- RP6** DESIGNATED SOLAR PANEL AREA. PLEASE SEE SOLAR READY NOTES ON THIS SHEET
- RP7** RAFTER VENTS TO MEET REQUIRED VENTILATION AREA FOR ENCLOSED RAFTER SPACES. MAX 1/4" MIN 1/4" OPENING SIZE ON VENT SCREEN WITH CORROSION-RESISTANT WIRE SCREEN MATERIAL. 1 SF OF VENTING PER 150 SF OF ENCLOSED RAFTER AREA IN NON-FIRE RATED CONSTRUCTION PLEASE SEE VENTING CALCULATIONS ON THIS SHEET FOR NON-VENTED EAVES SEE DETAILS A,B, & C ON THIS SHEET

FLOOR PLAN KEYNOTES

- FP1** STUD WALL SIZED PER STRUCTURAL
- FP2** 2X6 STUD WALL OR FURRING AS NEEDED FOR MECHANICAL / PLUMBING / VENTING
- FP3** LINE OF OVERHANG ABOVE
- FP4** 36" HIGH COUNTER
- FP5** WATER HEATER
- FP6** SLOPE SURFACE AWAY FROM BUILDING
- FP7** DRYER VENT TERMINATION ON EXTERIOR WALL TO BE A MINIMUM OF 3 FT FROM ANY OPENING
- FP8** CLOSET SHELF AND POLE
- FP9** EMERGENCY EGRESS WINDOW
- FP10** WINDOW MUST HAVE A FRAME AND SASH COMPRISED OF WELDED CORNERS, METAL REINFORCEMENT IN THE INTERLOCK AREA, AND CONSTRUCTED OF MULTIPANE TEMPERED GLAZING WHERE INDICATED TYPICAL ALL WINDOWS
- FP11** VENT DRYER THROUGH WALL. SEE MECHANICAL / PLUMBING PLANS FOR FURTHER INFORMATION
- FP12** MIN. 1 HINGED ENTRY DOOR FOR EGRESS COMPLIANCE REQUIRED - THE EGRESS DOOR SHALL BE SIDE-HINGED AND SHALL PROVIDE A CLEAR WIDTH OF NOT LESS THAN 32 INCHES WHERE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90°. THE CLEAR HEIGHT OF THE DOOR OPENING SHALL BE NOT LESS THAN 78 INCHES IN HEIGHT MEASURED FROM THE TOP OF THE THRESHOLD TO THE BOTTOM OF THE STOP
- FP13** SURROUND AROUND THE SHOWER MUST BE TEMPERED. GLAZING IN THE WALLS/DOORS FACING OR CONTAINING BATHTUBS, SHOWERS, HOT TUBS, SPAS, WHIRLPOOLS, SAUNAS, STEAM ROOMS AND INDOOR/OUTDOOR SWIMMING POOLS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60" ABOVE THE STANDING SURFACE. EXCEPTION: GLAZING THAT IS MORE THAN 60" MEASURED HORIZONTALLY FROM THE WATER'S EDGE OF A BATHTUB, HOT TUB, SPA, WHIRLPOOL OR SWIMMING POOL.
- FP14** PER SECTION 301.1.1 CALGREEN AND CIVIL CODE 1101.3(c), ALL PLUMBING FIXTURES SHALL BE COMPLIANT WATER-CONSERVING PLUMBING FIXTURES. SEE MECHANICAL / PLUMBING PLANS FOR FURTHER INFORMATION
- FP15** LANDING OR FLOOR REQUIRED AT EACH SIDE OF EXTERIOR DOOR. WIDTH TO BE NOT LESS THAN THE DOOR SERVED AND HAVE A MIN 36 INCH DEPTH MEASURED IN THE DIRECTION OF TRAVEL. EXTERIOR LANDINGS SHALL BE PERMITTED TO HAVE A SLOPE NOT TO EXCEED 1/4" PER FOOT. LANDINGS OR FINISHED FLOORS AT EGRESS DOOR SHALL NOT BE MORE THAN 1.5' LOWER THAN THE TOP OF THE THRESHOLD FOR OUTWARD SWINGING DOORS OR 7.75' FOR DOORS THAT DO NOT SWING OUTWARD.
- FP16** WALL COVERING SHALL BE CEMENT PLASTER, TILE OR APPROVED EQUAL TO 72" ABOVE DRAIN AT SHOWERS OR TUB WITH SHOWERS. MATERIALS OTHER THAN STRUCTURAL ELEMENTS ARE TO BE MOISTURE RESISTANT. CRC R307.2
- FP17** DOOR BELL BUTTON TO BE NO MORE THEN 48" ABOVE EXTERIOR FLOOR OR LANDING
- FP18** WATER CLOSET AND SHOWER TO HAVE REINFORCEMENT IN WALLS 2X8 NOMINAL AT 32" TO 36" ABOVE FINISH FLOOR. SEE FLOOR PLAN GENERAL NOTE #31 ON SHEET G0.2 FOR FURTHER INFORMATION
- FP19** DOOR TO HAVE A NET CLEAR OPENING OF 32"
- FP20** DESIGNATED 2'-6" x 2'-6" x 7' TALL MINIMUM AREA FOR FUTURE INSTALLATION OF A HEAT PUMP WATER HEATER PER CEC 2022 SECTION 150.0(N)
- FP21** FURRING AS NEEDED FOR STANDARD TUB AND SHOWER LENGTH

SOLAR READY NOTES

- SOLAR READY ROOF AREA: MIN DIMENSION > 5FT. MIN. SF. > 80SF. PER CALIFORNIA ENERGY CODE SECTION 110.10(b)
- THE SOLAR ZONE SHALL COMPLY WITH ACCESS, PATHWAY, SMOKE VENTILATION, AND SPACING REQUIREMENTS AS SPECIFIED IN TILE 24, PART 9 OR OTHER PARTS OF TITLE 24 OR IN ANY REQUIREMENTS ADOPTED BY LOCAL JURISDICTION
- SINGLE FAMILY RESIDENCE, THE SOLAR ZONE SHALL BE LOCATED ON THE ROOF OR OVERHANG OF THE BUILDING AND HAVE A TOTAL AREA OF NO LESS THAN 250SQFT.
- FOR PHOTOVOLTAIC ARRAYS OCCUPYING NOT MORE THAN 33 PERCENT OF THE PLAN VIEW TOTAL ROOF AREA, NOT LESS THAN AN 18-INCH (457 MM) CLEAR SETBACK IS REQUIRED ON BOTH SIDES OF A HORIZONTAL RIDGE. FOR PHOTOVOLTAIC ARRAYS OCCUPYING MORE THAN 33 PERCENT OF THE PLAN VIEW TOTAL ROOF AREA, NOT LESS THAN A 36-INCH (914 MM) CLEAR SETBACK IS REQUIRED ON BOTH SIDES OF A HORIZONTAL RIDGE.

VENTING CALCULATIONS

- ROOF VENTING: 1SF. OF ROOF VENTING PER 150 SF. OF ENCLOSED AREA OR ENCLOSED RAFTER AREA.
- ENCLOSED RAFTER AREA: 745 SF.
- VENTILATION AREA REQUIRED: 745 SF / 150SF = 4.97 SF.
- CONVERT TO SQ. IN.: 4.97 SF x 144 = 715 SQ. IN.
- MINIMUM VENTILATION AREA REQUIRED: 715 SQ. IN.

LEGEND

- SECTION CUT
- ELEVATION CALLOUT
- DETAIL DRAWING REF.
- WALL BELOW OR ROOF ABOVE
- SOLAR ZONE. REFER TO SOLAR NOTES ON SHEET G0.2
- ROOFING
- KEYNOTE
- DOOR SYMBOL
- WINDOW SYMBOL
- CEILING HEIGHTS
- VAULTED CEILING
- ROOF SLOPE

project

PRADU
City of Encinitas

revisions



description

Roof / Floor
Plan - Reverse

date ## Month 20##

project no. 20##_xxxxxx

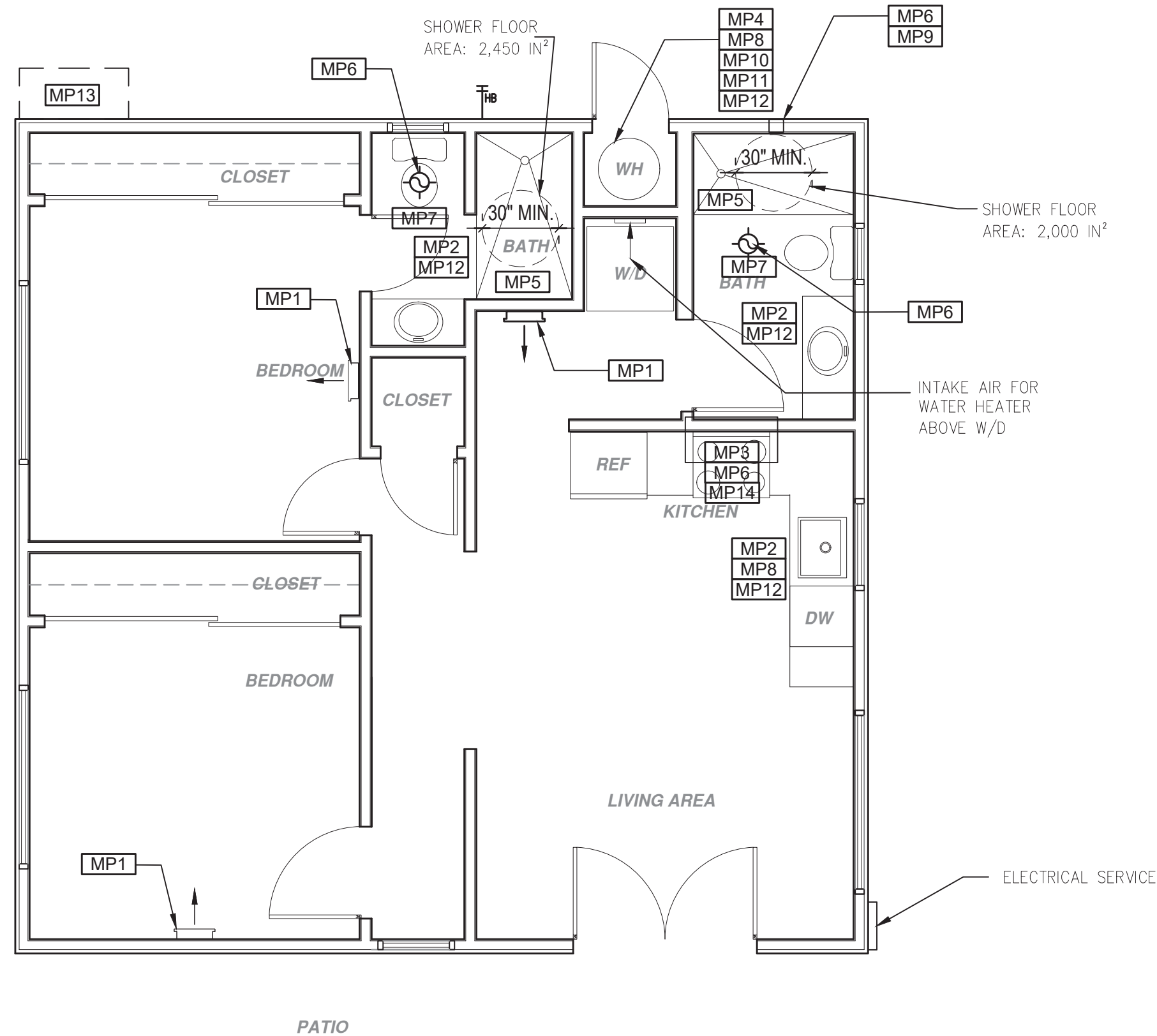
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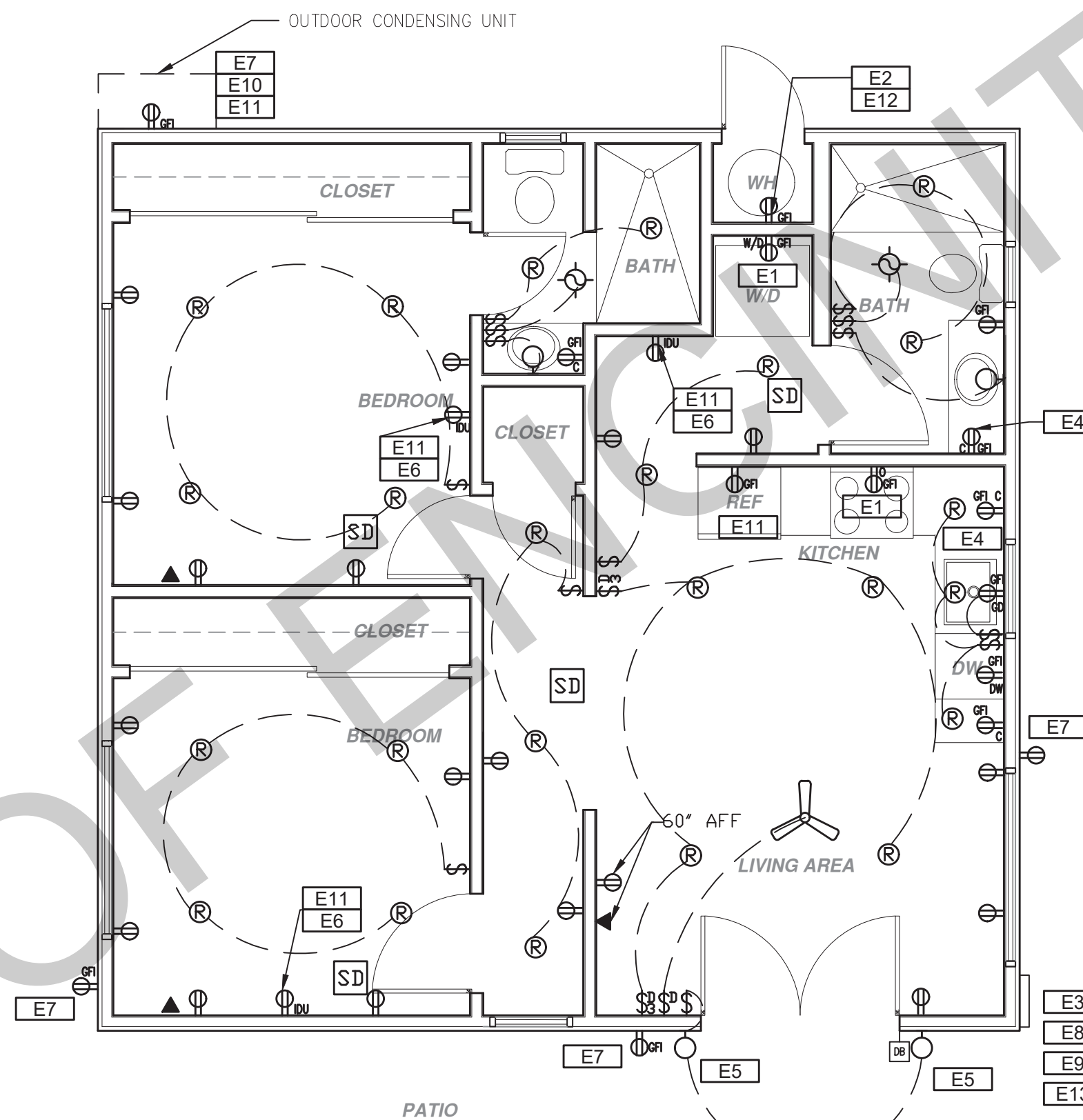
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MECHANICAL / PLUMBING PLAN

1/4"=1'-0"



ELECTRICAL PLAN

1/4"=1'-0"

* SEE SHEET AS.1 FOR ELECTRIC VEHICLE CHARGING REQUIREMENTS

project

PRADU
City of Encinitas

revisions



description

Mechanical/ Plumbing/ Electrical Plans

date ## Month 20##

project no. 20##_xxxxxx

drawn by xxx/xxx

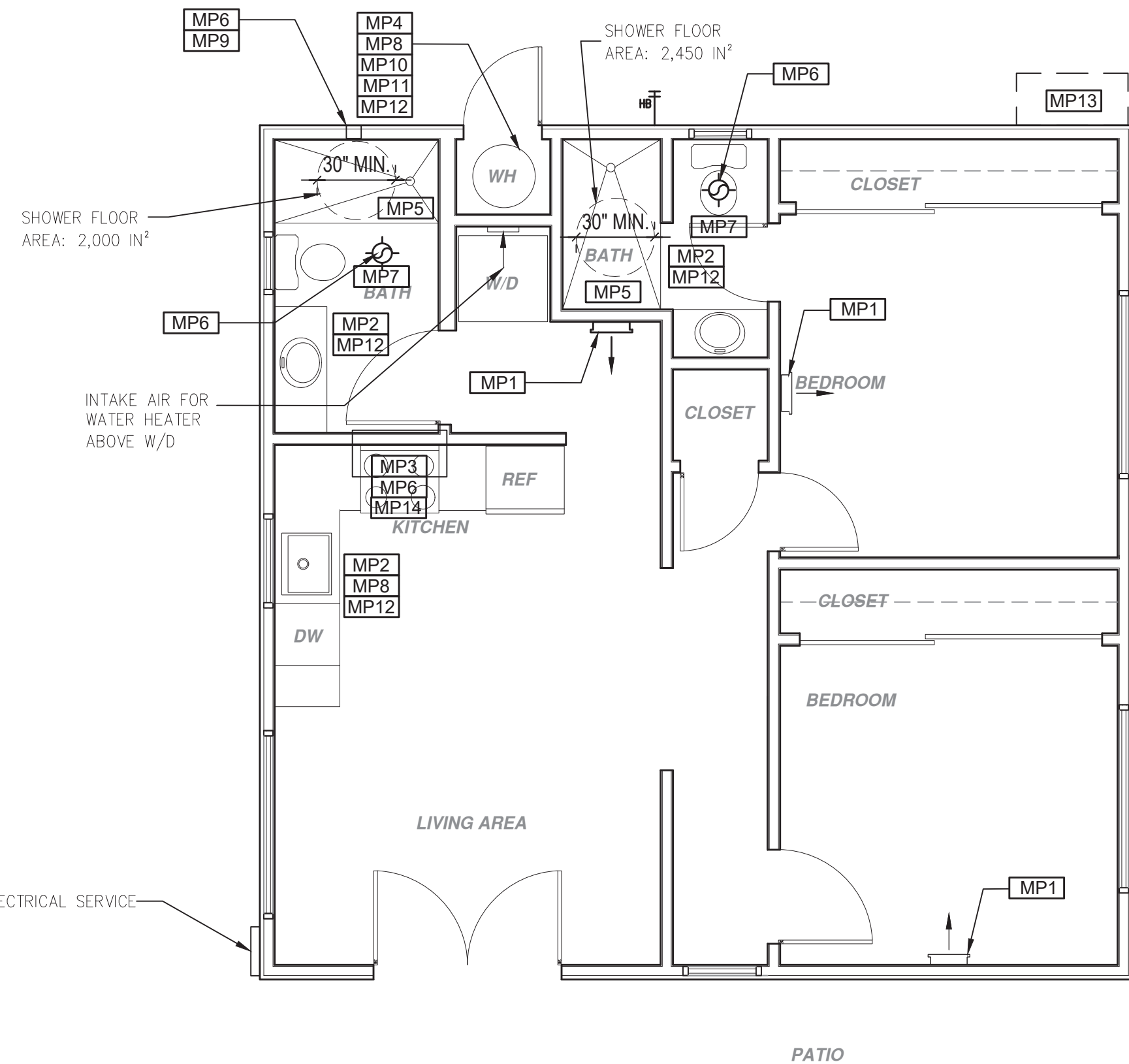
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MECHANICAL / PLUMBING KEYNOTES	ELECTRICAL KEYNOTES	MECHANICAL / PLUMBING LEGEND	ELECTRICAL LEGEND
MP1 INDOOR UNIT MINI SPLIT SYSTEM. MP2 WATER CONSERVING FIXTURES: NEW WATER CLOSETS SHALL USE NO MORE THAN 1.28 GAL. OF WATER PER FLUSH; LAVATORIES LIMITED TO 1.2 GPM. KITCHEN FAUCETS NOT TO EXCEED 1.8 GPM AT 60 PSI THEY CAN INCREASE THE FLOW MOMENTARILY BUT CAN EXCEED 2.2 GALLONS PER MIN. AT 60 PSI AND MUST DEFAULT TO A MAX. FLOW RATE OF 1.8 GALLONS PER MIN AT 60 PSI, AND SHOWERS NOT EXCEED 1.8 GPM AT 80 PSI, AND ALL SHALL BE CERTIFIED TO MEET THE PERFORMANCE CRITERIA OF THE EPA WATERSENSE SPECIFICATIONS FOR SHOWERHEADS. CPC SECTIONS 407, 408, 411, 412 AND SECTION 301.1.1 CALGREEN CODE AND CIVIL CODE 1101.36) MP3 EXHAUST HOOD ABOVE/TO BE SMOOTH METALLIC INTERIOR SURFACE. (CMC 594.3) MP4 NEW 40 GAL. HEAT PUMP WATER HEATER - TO HAVE CONDENSATE DRAIN INSTALLED NO HIGHER THAN 2' ABOVE THE BASE OF THE HEATER THAT ALSO ALLOWS GRAVITY DRAINAGE MP5 CONTROL VALVES IN SHOWERS, BATHTUBS, & BIDETS MUST BE PRESSURE BALANCED OR THERMOSTATIC MIX VALVES MP6 MINIMUM OF 3 FT CLEARANCE TO ANY OPENING INTO BUILDING FOR EXHAUST FAN TERMINATIONS MP7 CLEARANCE FOR WATER CLOSET TO BE A MIN. OF 24" IN FRONT, AND 15" FROM ITS CENTER TO ANY SIDE WALL OR OBSTRUCTION. (CPC 402.5) MP8 THE 1/2" SIZE HOT WATER PIPE TO THE KITCHEN SINK AND THE COLD WATER PIPE WITHIN 5' OF WATER HEATER BOTH REQUIRE 1" INSULATION MP9 DRYER EXHAUST OUTLET FROM DRYER TO EXTERIOR MAX LENGTH 14' WITH MAXIMUM OF TWO 90° ELBOWS EXHAUST VENT MUST TERMINATE A MIN. OF 3' FROM ANY OPENING. MIN. TYPE 1 CLOTHES DRYER EXHAUST DUCTS SHALL BE OF RIGID METAL & SHALL HAVE SMOOTH INTERIOR SURFACES. THE DIAMETER SHALL BE NOT LESS THAN 4 INCHES NOMINAL (100 MM), & THE THICKNESS SHALL BE NOT LESS THAN 0.016 OF AN INCH (0.406 MM). EXHAUST DUCTS & DRYER VENTS SHALL BE EQUIPPED WITH BACK DRAFT DAMPERS MP10 NEW WATER HEATER WITH T&P RELIEF VALVE AND DISCHARGE PIPE AT EXTERIOR. PROVIDE COMBUSTION AIR AND CLEARANCES PER MANUFACTURER REQUIREMENTS. MP11 WATER HEATER SHALL HAVE ISOLATION VALVES ON BOTH THE COLD AND THE HOT WATER PIPING LEAVING THE WATER HEATER COMPLETE WITH HOSE BIBS OR OTHER FITTINGS ON EACH VALVES FOR FLUSHING THE WATER HEATER WHEN THE VALVES ARE CLOSED MP12 ALL DOMESTIC HOT WATER PIPING TO HAVE THE FOLLOWING MINIMUM INSULATION INSTALLED: 1/2" PIPE (R-1 INSULATION); 1" PIPE (R-1 INSULATION); 1-1/2" PIPE (1-1/2" INSULATION) MP13 OUTDOOR CONDENSING UNIT TO BE PIPED TO INDOOR HVAC UNIT MP14 RANGE HOOD DUCTED TO EXTERIOR. FAN IS TO BE EITHER INTERMITTENT 100CFM OR CONTINUOUS 5 AIR CHANGES PER HOUR AND MUST HAVE A SONE RATING OF 1 FOR CONTINUOUS FAN AND 3 FOR INTERMITTENT FAN.	E1 DEDICATED 30 AMP/240V POWER FOR ELECTRIC DRYER OR OVEN. VERIFY REQUIREMENTS WITH APPLIANCE SPECIFICATIONS E2 OUTLET FOR NEW WATER HEATER WITHIN 3' OF WATER HEATER. E3 ELECTRICAL - SUB PANEL LOCATION E4 OUTLET AT COUNTER HEIGHT - SHALL COMPLY WITH CEC ARTICLE 210.52(C); IN KITCHENS A RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH COUNTER SPACE 12" OR WIDER, SHALL BE INSTALLED SO THAT NO POINT ALONG THE WALL IS MORE THAN 24" ISLAND IN PENINSULAR COUNTERTOPS 12" X 24" LONG (OR GREATER) SHALL HAVE AT LEAST ONE RECEPTACLE E5 OUTDOOR LIGHTING FIXTURES ARE REQUIRED TO BE HIGH EFFICACY OR CONTROLLED BY A COMBINATION PHOTOCONTROL / MOTION SENSOR. E6 OUTLET DEDICATED FOR INDOOR HVAC UNIT E7 WEATHER RESISTANT TYPE RECEPTACLES GFCI PROTECTED E8 OVER-CURRENT FEEDER TO EXTEND TO EXISTING PANEL- ALUMINUM CONDUCTOR BURIED UNDER GROUND WITH AWG ALLOWABLE VOLTAGE DROP PER CEC 250.4 E9 SEPARATE GROUND ELECTRODE SYSTEM PER CEC 250.4 E10 OUTDOOR CONDENSING UNIT RECEPTACLE OUTLET SHALL BE INSTALLED AT AN ACCESSIBLE LOCATION FOR THE SERVICING OF THE HEATING AND COOLING EQUIPMENT AND SHALL BE LOCATED ON THE SAME LEVEL AND WITHIN 25 FEET OF THE EQUIPMENT. THIS RECEPTACLE SHALL BE GFCI-WP PROTECTED. E11 A DISCONNECTING MEANS CAPABLE OF DISCONNECTING AIR-CONDITIONING AND REFRIGERATING EQUIPMENT, INCLUDING MOTOR-COMPRESSORS AND CONTROLLERS FROM THE CIRCUIT CONDUCTOR IS REQUIRED WITHIN SIGHT FROM THE EQUIPMENT LOCATION PER CEC SECTION 440.11 E12 PER CEC 2022 150.0(N), 1.A.: THE DESIGNATED SPACE AND WATER HEATER AND IS TO COMPLY WITH ELECTRICAL NOTES 158.16 ON SHEET G0.2 E13 CONTRACTOR TO VERIFY MAIN PANEL	MECHANICAL EXHAUST FAN: MINIMUM 50 CFM TO BE DUCTED TO THE EXTERIOR AND SHALL PROVIDE FIVE AIR CHANGES PER HOUR; SECTION 1203.3. CFM AND NOISE RATING MAXIMUM 3 SONE FOR INTERMITTENT USE. SHALL BE ENERGY STAR RATED AND CONTROLLED BY A HUMIDISTAT CAPABLE OF AN ADJUSTMENT BETWEEN 50-80% HUMIDITY. DUCT SYSTEMS ARE SIZED, DESIGNED AND EQUIPMENT IS SELECTED USING THE FOLLOWING METHODS: 1. ESTABLISH HEAT LOSS AND HEAT GAIN VALUES ACCORDING TO ANSI/ ACCA 2 MANUAL J-2011 OR EQUIVALENT. 2. SIZE DUCT SYSTEMS ACCORDING TO ANSI/ ACCA 1 MANUAL D-2014 OR EQUIVALENT. 3. SELECT HEATING AND COOLING EQUIPMENT ACCORDING TO ANSI/ ACCA 3 MANUAL S-2014 OR EQUIVALENT . RETURN AIR GRILLE, WALL MOUNTED SUPPLY AIR DIFFUSER, WALL MOUNTED THERMOSTAT HOSE BIB	FIRE DETECTION S9 SMOKE DETECTORS PER SECTION R314 DETECTORS SHALL BE PERMANENTLY WIRED WITH BATTERY BACKUP. SOUND AN ALARM AUDIBLE IN ALL SLEEPING AREAS. ALARM DEVICES SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE UNIT. SHALL COMPLY WITH THE FOLLOWING: • AT LEAST 3' FROM THE TIP OF THE BLADE OF A CEILING-MOUNTED FAN • NOT LESS THAN 3' FROM THE DOOR OPENING OF A BATHROOM • AT LEAS 20" FROM A COOKING APPLIANCE OR 10" FROM COOKING APPLIANCE WHEN THE ALARM IS AN IONIZING SMOKE ALARM PER NFPA 72 SECTION 29.8.3.4 ITEM 4 • AT LEAST 3' FROM SUPPLY REGISTERS OF A HEATING/COOLING SYSTEM POWER/DATA TAMPER RESISTANT RECEPTACLE WALL MOUNTED, 110 V DUPLEX U.O.N. GFI = WATER PROOF GFCI CT = COOKTOP/ GRILL 240 V O = OVEN 240 V MW = MICROWAVE 110 V GD = GARBAGE DISPOSAL 110 V R = RANGE 220V C = COUNTER HEIGHT 6" ABV COUNTER IDU = INDOOR UNIT POWER 84" AFF 30AMP/240AMP PHONE / DATA / MEDIA CEILING, WATERPROOF OUTLET FLOOR MOUNTED DUPLEX RECEPTACLE, VERIFY LOCATION IN FIELD. SPECIAL PURPOSE CONNECTION (VOLTAGE SHALL MATCH APPLIANCE REQ.) SUB PANEL SWITCHING SWITCH, MOUNT AT 43" AFF THREE-WAY SWITCH FOUR-WAY SWITCH DIMMER SWITCH MOUNT 6" ABV COUNTER MISC. CEILING FANLIGHT COMBO CIRCUIT WIRING DOOR BELL BUTTON LIGHTING CEILING, RECESSED, DIRECTIONAL, ZERO CLEARANCE IC RATED LED BULB CEILING, RECESSED, ZERO CLEARANCE IC RATED LED BULB CEILING, RECESSED, ZERO CLEARANCE IC RATED, WATER RESISTANT, LED BULB WALL MOUNTED LIGHT JUNCTION BOX FLUSH CEILING MOUNTED UNDER COUNTER LIGHTING LOW VOLTAGE, LANDSCAPE LIGHT FLUORESCENT FIXTURE (USE SHALLOW TYPE WHEN UNDER COUNTER) BATHROOM EXHAUST FAN REQUIREMENTS: PER CGBC 4.506.1- EACH BATHROOM SHALL BE MECHANICALLY VENTILATED AND SHALL COMPLY WITH THE FOLLOWING: 1. FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING. 2. UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A HUMIDITY CONTROL. A. HUMIDITY CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF <= 50 % TO A MAXIMUM OF 80 % A HUMIDITY CONTROL MAY UTILIZE MANUAL OR AUTOMATIC MEANS OF ADJUSTMENT. B. A HUMIDITY CONTROL MAY BE A SEPARATE COMPONENT TO EXHAUST FAN AND IS NOT REQUIRED TO BE INTEGRAL.(E. BUILT IN) RESIDENTIAL ENERGY LIGHTING REQUIREMENTS: ES 150.0(K) *IN THE KITCHEN, AT LEAST ONE-HALF OF THE WATTAGE RATING OF THE FIXTURES MUST BE HIGH EFFICACY *IN THE BATHROOMS, AT LEAST ONE FIXTURE SHALL BE HIGH EFFICACY AND ALL REMAINING FIXTURES SHALL BE HIGH EFFICACY OR BE CONTROLLED BY A VACANCY SENSOR. *LIGHTING INSTALLED IN GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS SHALL BE HIGH EFFICACY AND BE CONTROLLED BY VACANCY SENSORS.

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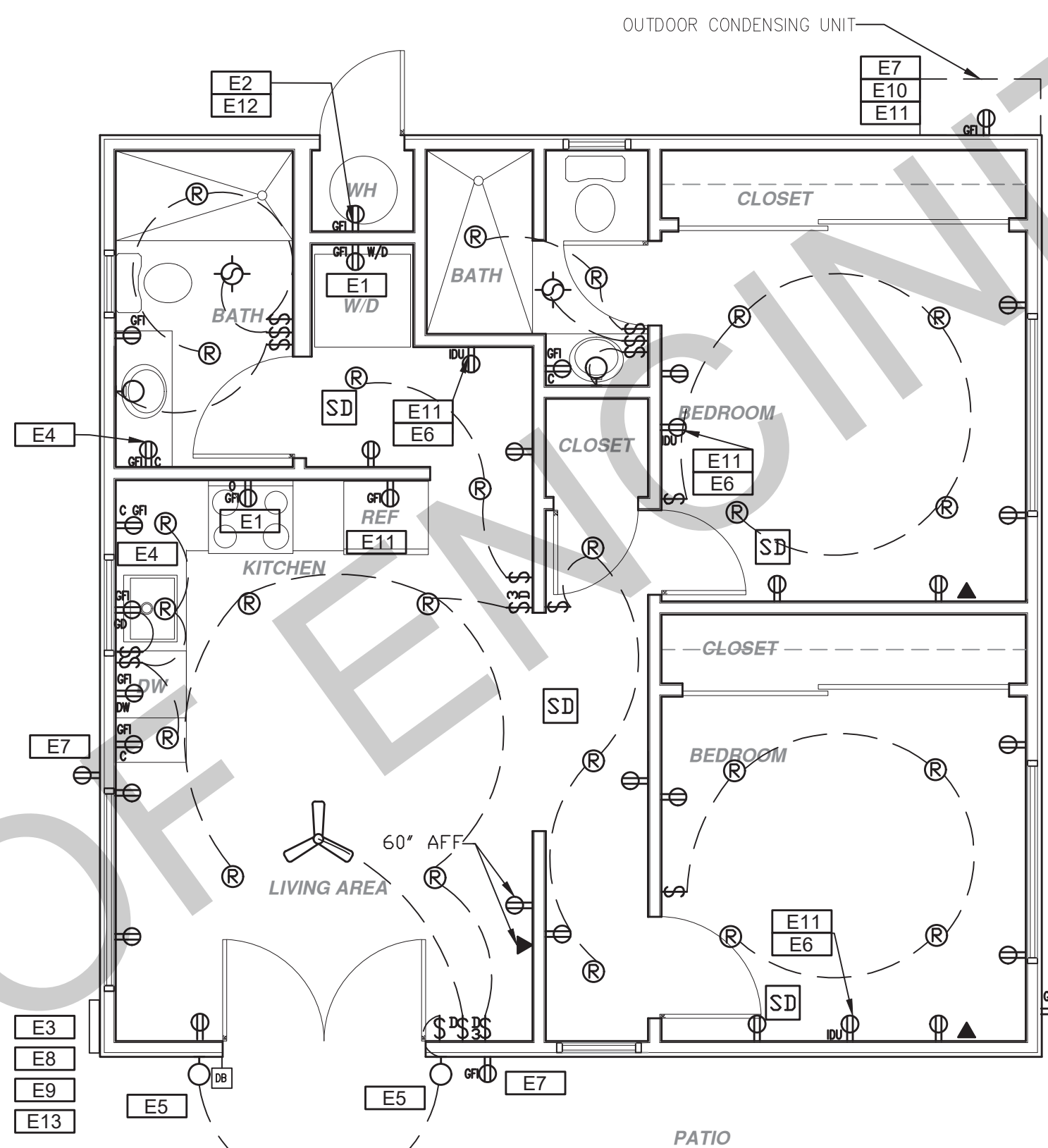
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MECHANICAL / PLUMBING PLAN

1/4"=1'-0"

REVERSE



ELECTRICAL PLAN

1/4"=1'-0"

REVERSE

* SEE SHEET AS.1 FOR ELECTRIC VEHICLE CHARGING REQUIREMENTS

MECHANICAL / PLUMBING KEYNOTES	ELECTRICAL KEYNOTES	MECHANICAL / PLUMBING LEGEND	ELECTRICAL LEGEND
MP1 INDOOR UNIT MINI SPLIT SYSTEM. MP2 WATER CONSERVING FIXTURES: NEW WATER CLOSETS SHALL USE NO MORE THAN 1.28 GAL. OF WATER PER FLUSH; LAVATOIRES LIMITED TO 1.2 GPM. KITCHEN FAUCETS NOT TO EXCEED 1.8 GPM AT 60 PSI THEY CAN INCREASE THE FLOW MOMENTARILY BUT CAN'T EXCEED 2.2GALLONS PER MIN. AT 60 PSI AND MUST DEFAULT TO A MAX. FLOW RATE OF 1.8GALLONS PER MIN AT 60 PSI, AND SHOWERS NOT EXCEED 1.8 GPM. AT 80 PSI, AND ALL SHALL BE CERTIFIED TO MEET THE PERFORMANCE CRITERIA OF THE EPA WATERSENSE SPECIFICATIONS FOR SHOWERHEADS. CPC SECTIONS 407, 408, 411, 412 AND SECTION 301.1.1 CALGREEN CODE AND CIVIL CODE 1101.36) MP3 EXHAUST HOOD ABOVE/TO BE SMOOTH METALLIC INTERIOR SURFACE. (CMC 594.3) MP4 NEW 40 GAL. HEAT PUMP WATER HEATER - TO HAVE CONDENSATE DRAIN INSTALLED NO HIGHER THAN 2' ABOVE THE BASE OF THE HEATER THAT ALSO ALLOWS GRAVITY DRAINAGE MP5 CONTROL VALVES IN SHOWERS, BATHTUBS, & BIDETS MUST BE PRESSURE BALANCED OR THERMOSTATIC MIX VALVES MP6 MINIMUM OF 3 FT CLEARANCE TO ANY OPENING INTO BUILDING FOR EXHAUST FAN TERMINATIONS MP7 CLEARANCE FOR WATER CLOSET TO BE A MIN. OF 24" IN FRONT, AND 15" FROM ITS CENTER TO ANY SIDE WALL OR OBSTRUCTION. (CPC 402.5) MP8 THE 1/2" SIZE HOT WATER PIPE TO THE KITCHEN SINK AND THE COLD WATER PIPE WITHIN 5' OF WATER HEATER BOTH REQUIRE 1" INSULATION MP9 DRYER EXHAUST OUTLET FROM DRYER TO EXTERIOR MAX LENGTH 14' WITH MAXIMUM OF TWO 90° ELBOWS EXHAUST VENT MUST TERMINATE A MIN. OF 3' FROM ANY OPENING. MIN. TYPE 1 CLOTHES DRYER EXHAUST DUCTS SHALL BE OF RIGID METAL & SHALL HAVE SMOOTH INTERIOR SURFACES. THE DIAMETER SHALL BE NOT LESS THAN 4 INCHES NOMINAL (100 MM), & THE THICKNESS SHALL BE NOT LESS THAN 0.016 OF AN INCH (0.406 MM). EXHAUST DUCTS & DRYER VENTS SHALL BE EQUIPPED WITH BACK DRAFT DAMPERS MP10 NEW WATER HEATER WITH T&P RELIEF VALVE AND DISCHARGE PIPE AT EXTERIOR. PROVIDE COMBUSTION AIR AND CLEARANCES PER MANUFACTURER REQUIREMENTS. MP11 WATER HEATER SHALL HAVE ISOLATION VALVES ON BOTH THE COLD AND THE HOT WATER PIPING LEAVING THE WATER HEATER COMPLETE WITH HOSE BIBS OR OTHER FITTINGS ON EACH VALVES FOR FLUSHING THE WATER HEATER WHEN THE VALVES ARE CLOSED MP12 ALL DOMESTIC HOT WATER PIPING TO HAVE THE FOLLOWING MINIMUM INSULATION INSTALLED: 2" PIPE (2" INSULATION); 1" PIPE (1" INSULATION); 1" TO 1-1/2" PIPE (1-1/2" INSULATION) MP13 OUTDOOR CONDENSING UNIT TO BE PIPED TO INDOOR HVAC UNIT MP14 RANGE HOOD DUCTED TO EXTERIOR. FAN IS TO BE EITHER INTERMITTENT 100CFM OR CONTINUOUS 5 AIR CHANGES PER HOUR AND MUST HAVE A SONE RATING OF 1 FOR CONTINUOUS FAN AND 3 FOR INTERMITTENT FAN.	E1 DEDICATED 30 AMP/240V POWER FOR ELECTRIC DRYER OR OVEN. VERIFY REQUIREMENTS WITH CEC 250.4 E2 OUTLET FOR NEW WATER HEATER WITHIN 3' OF WATER HEATER. E3 ELECTRICAL - SUB PANEL LOCATION E4 OUTLET AT COUNTER HEIGHT - SHALL COMPLY WITH CEC ARTICLE 210.52(C); IN KITCHENS A RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH COUNTER SPACE 12" OR WIDER; SHALL BE INSTALLED SO THAT NO POINT ALONG THE WALL IS MORE THAN 24" ISLAND IN PENINSULAR COUNTERTOPS 24" X 24" LONG (OR GREATER) SHALL HAVE AT LEAST ONE RECEPTACLE E5 OUTDOOR LIGHTING FIXTURES ARE REQUIRED TO BE HIGH EFFICACY OR CONTROLLED BY A COMBINATION PHOTOCONTROL / MOTION SENSOR. 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ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE UNIT. POWER/DATA TAMPER RESISTANT RECEPTACLE WALL MOUNTED, 110 V DUPLEX U.O.N. GFI = WATER PROOF GFCI CT = COOKTOP/ GRILL 240 V O = OVEN 240 V MW = MICROWAVE 110 V GD = GARBAGE DISPOSAL 110 V R = RANGE 220V C = COUNTER HEIGHT 6" ABV COUNTER IDU = INDOOR UNIT POWER 84" AFF WID = WASHER/DRYER 30AMP/240NHP PHONE / DATA / MEDIA CEILING, WATERPROOF OUTLET FLOOR MOUNTED DUPLEX RECEPTACLE, VERIFY LOCATION IN FIELD. SPECIAL PURPOSE CONNECTION (VOLTAGE SHALL MATCH APPLIANCE REQ.) SUB PANEL SWITCHING SWITCH, MOUNT AT 43" AFF THREE-WAY SWITCH FOUR-WAY SWITCH DIMMER SWITCH MOUNT 6" ABV COUNTER MISC. 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project

PRADU
City of Encinitas

revisions



description

Mechanical/ Plumbing/ Electrical Plans - Reverse

date ## Month 20##

project no. 20##-xxxxxx

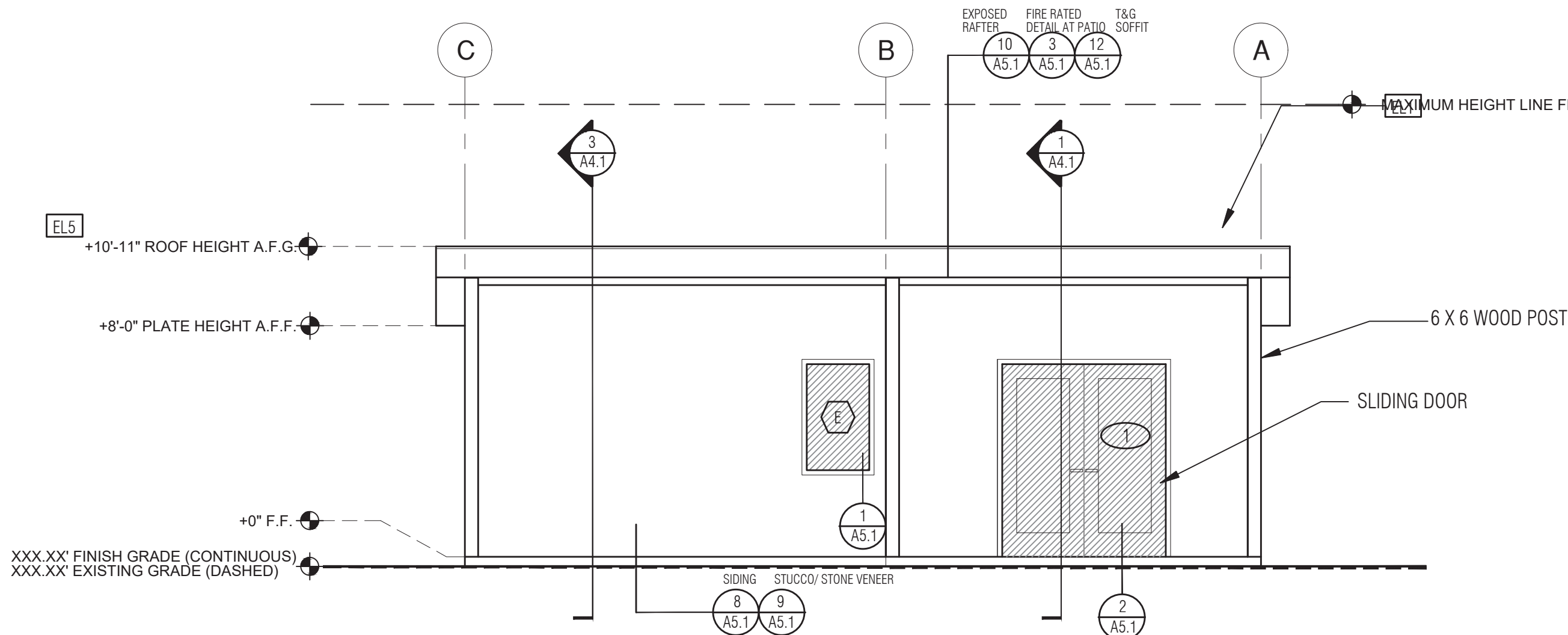
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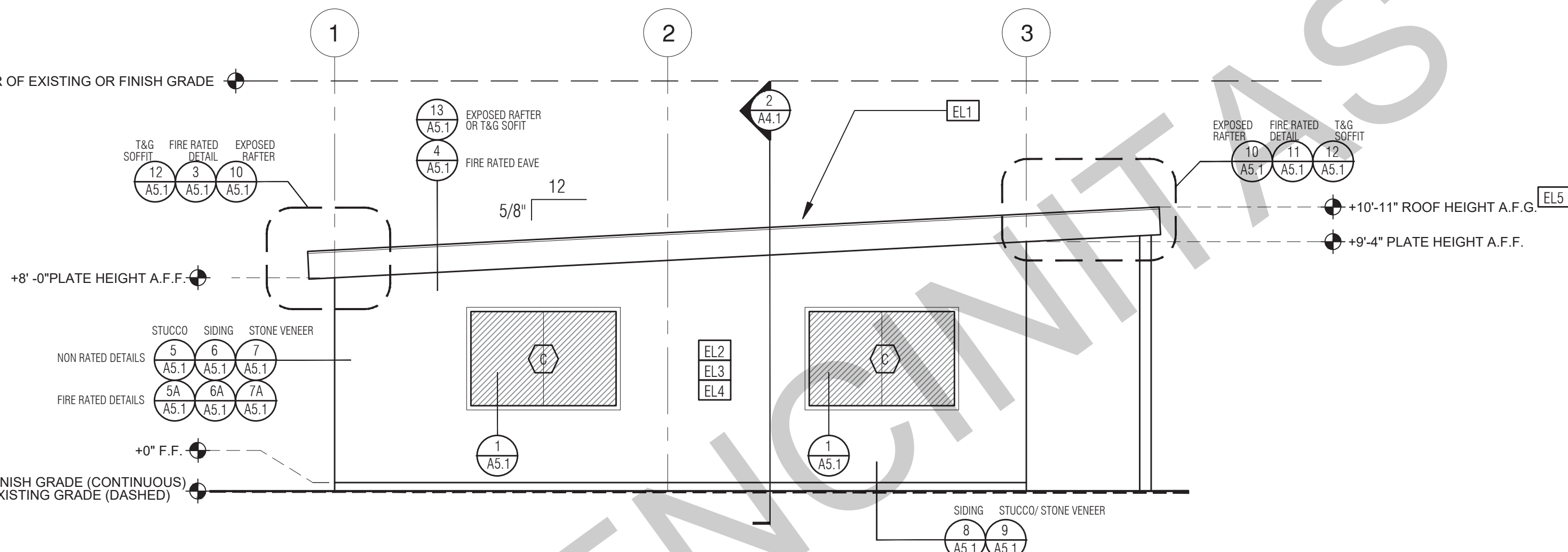
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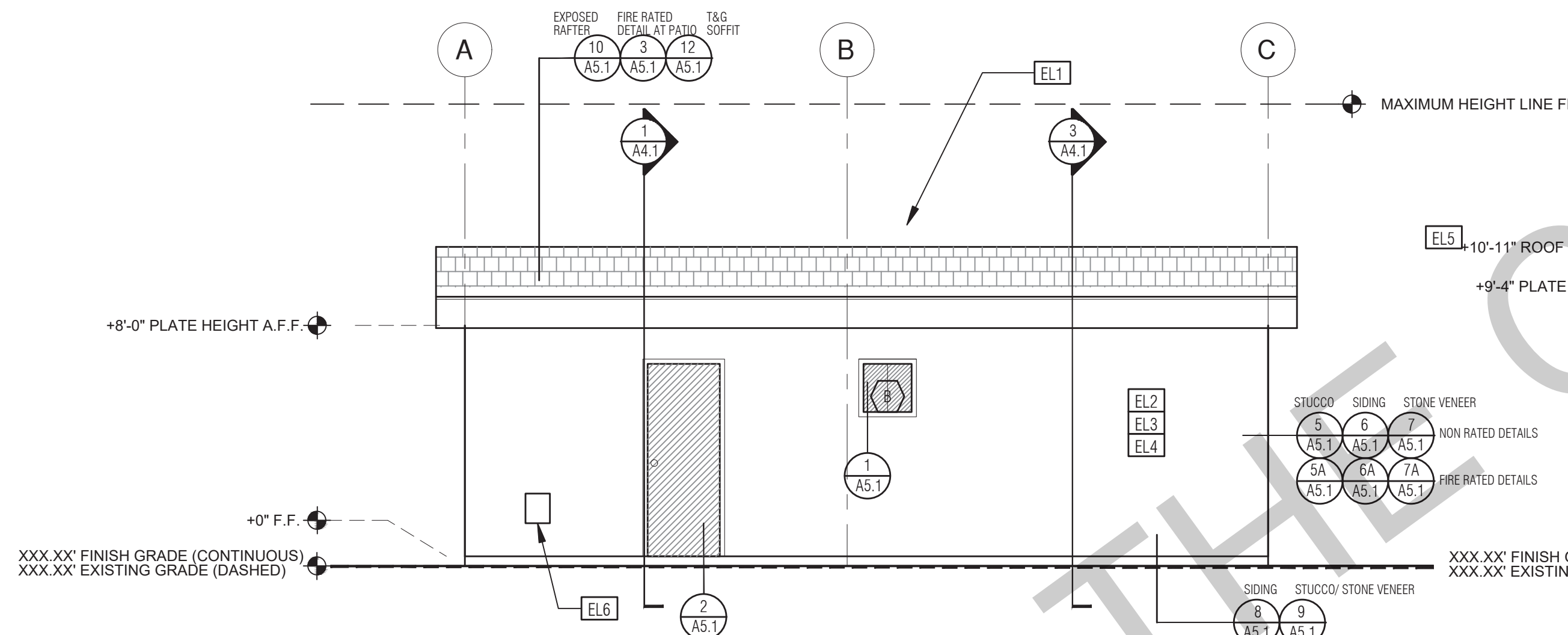
ELEVATION - A

1/4"=1'-0"



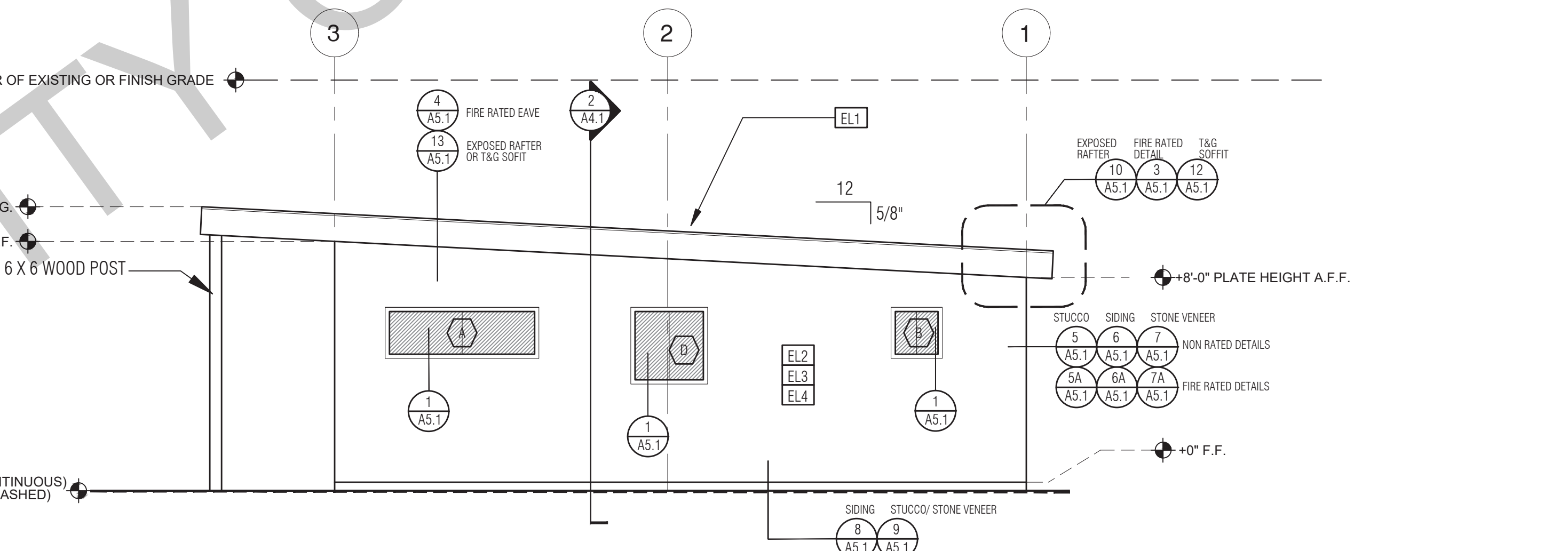
ELEVATION - B

1/4"=1'-0"



ELEVATION - C

1/4"=1'-0"



ELEVATION - D

1/4"=1'-0"

ELEVATION KEYNOTES

- EL1 MINIMUM CLASS A ROOF ASSEMBLY - SEE SHEET T1.1 FOR MANUFACTURER SPECIFICATIONS
- EL2 SIDING
- EL3 STUCCO
- EL4 STONE VENEER
- EL5 HEIGHT IS MEASURED AT THE BUILDING LINE, FROM THE LOWER OF EXISTING AND PROPOSED GRADES IF LOT EXCEEDS 10% (EXCLUSIVE OF RR ZONE), THEN THE ADDITIONAL HEIGHT LIMITATION NEEDS TO BE SHOWN
- EL6 DRYER VENT TERMINATION (MINIMUM OF 3 FT FROM ANY OPENING)

ELEVATION GENERAL NOTES

1. ALL DIMENSIONS TO FINISH FACE, U.N.O.
2. ALL DOORS SHOULD BE 3 1/2" FROM NEAREST INTERSECTING WALL AT HINGED SIDE, U.N.O.
3. WRITTEN DIMENSIONS TO PREVAIL OVER SCALING OF DRAWINGS. SUBCONTRACTOR TO VERIFY ALL DIM. PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT OF ANY DISCREPANCIES.
4. REFER TO FRAMING PLANS, FLOOR PLANS, AND SECTIONS FOR CLARIFICATION AND DIMENSIONS
5. SEE SCHEDULE FOR DOOR AND WINDOW INFORMATION AND HEIGHTS
6. LATH & PLASTER
A. MATERIALS FOR PLASTER IS TO BE THE STANDARD PRODUCTS OF RECOGNIZED MANUFACTURES, AND SHALL BE AS MANUFACTURED BY US GYPSUM CO. AND APPROVED BY THE LATH AND PLASTER INSTIGAT OR APPROVED EQUAL.
B. ALL PLASTER CORNER BEADS, CASING BEADS, CONTROL JOINTS, EXPANSION SCREDS AND ACCESSORIES ARE TO BE GALVANIZED. PROVIDE CASING BEADS AT ALL JOINTS OF STUCCO TO DISSIMILAR SURFACES UNLESS OTHERWISE NOTED.
C. WHERE INDICATED ON THE DRAWINGS, PORTLAND CEMENT PLASTER IS TO BE HAND APPLIED (3) THREE COAT WORK, 7/8" THICK ON EXTERIOR SURFACES. THE COATS ARE TO CONSIST OF A SCRATCH (3/8" AND A TWO COAT FINISH (1/8" MIN.) COAT PROPORTIONED AND MIXED ADS RECOMMENDED BY THE CALIFORNIA LATHING AND PLASTERING CONTRACTORS ASSOCIATION.
7. FRAMING ELEVATIONS, INCLUDING FLOOR PLATES AND FLOOR LEVEL ELEVATIONS ARE MEASURED FROM BUILDING FINISH FLOOR, U.N.O.
8. SEE ROOF PLAN FOR APPROXIMATE DOWNSPOUT LOCATIONS, U.N.O.
10. CONTRACTOR TO VERIFY COLOR SCHEME WITH OWNER BEFORE PERFORMING THE WORK
11. APPLICANT NEEDS TO SHOW EXISTING AND FINISH GRADE AND HEIGHT LIMITATION LINE FROM LOWER OF THE EXISTING OR FINISH GRADE.
12. IF LOT EXCEEDS 10% (EXCLUSIVE OF RR ZONE), THEN THE ADDITIONAL HEIGHT LIMITATION NEEDS TO BE SHOWN

LEGEND

- SECTION CUT
- ELEVATION CALLOUT
- DETAIL DRAWING REF.
- ELEVATION MARKER
- KEYNOTE
- DOOR SYMBOL
- WINDOW SYMBOL
- TEMPERED GLASS
- GLAZING
- ROOFING

project

PRADU
City of Encinitas

revisions



description

Exterior
Elevations

date ## Month 20##

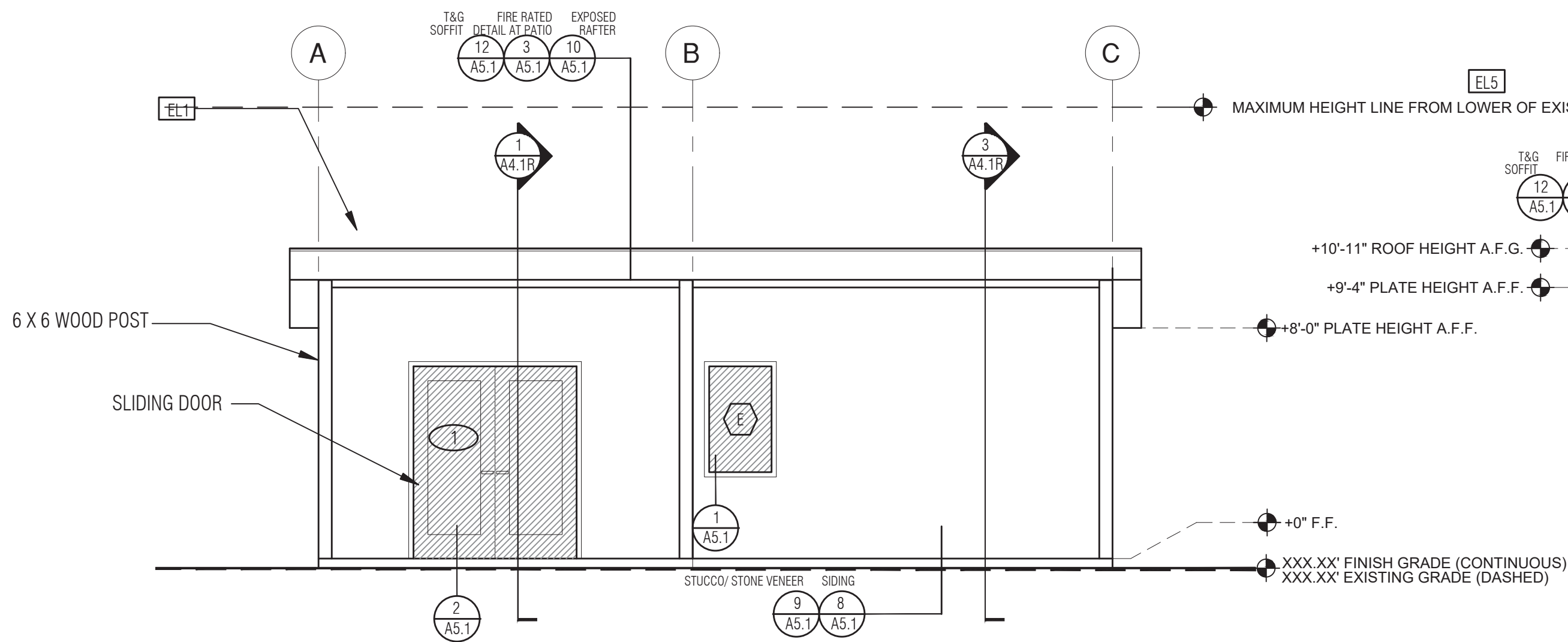
project no. 20##_xxxxxx

drawn by xxx/xxx

sheet no. A3.1

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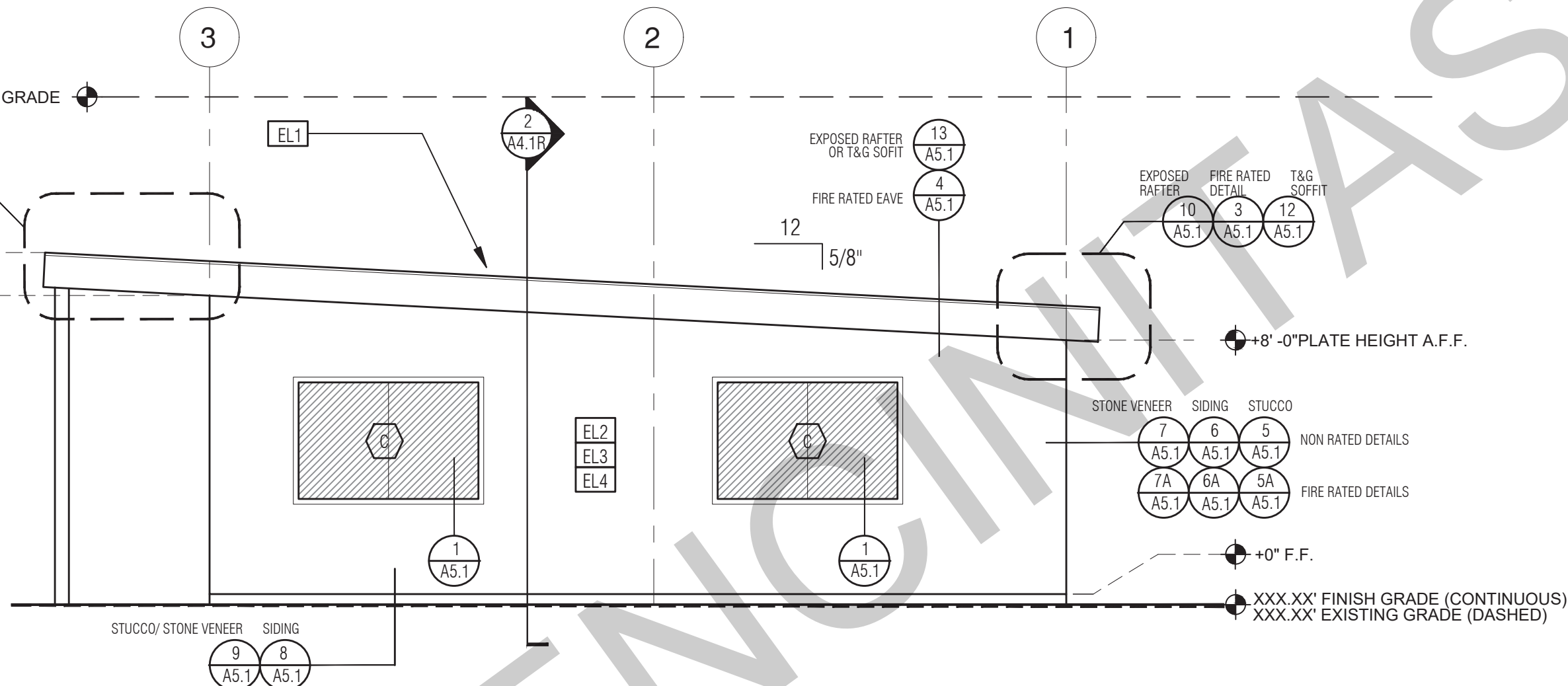
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ELEVATION - A

1/4"=1'-0"

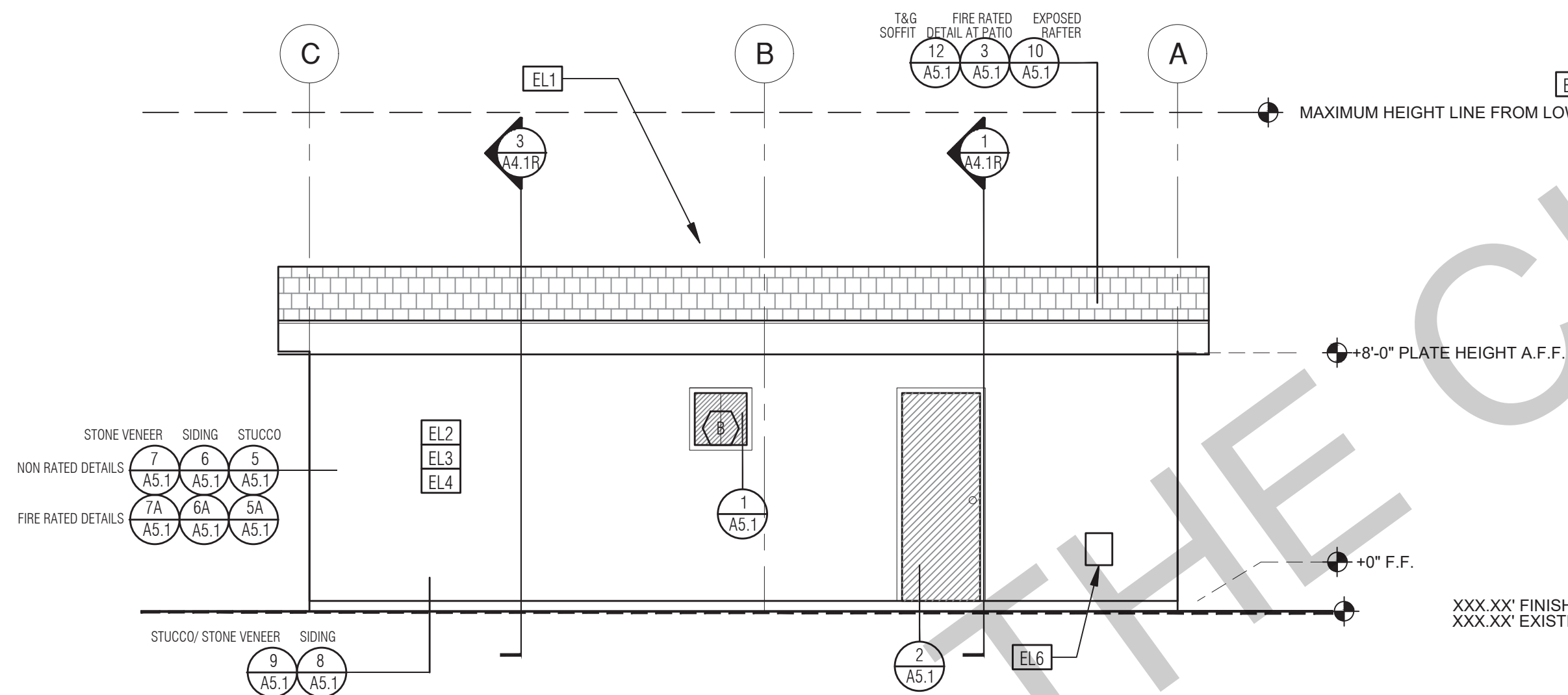
REVERSE



ELEVATION - B

1/4"=1'-0"

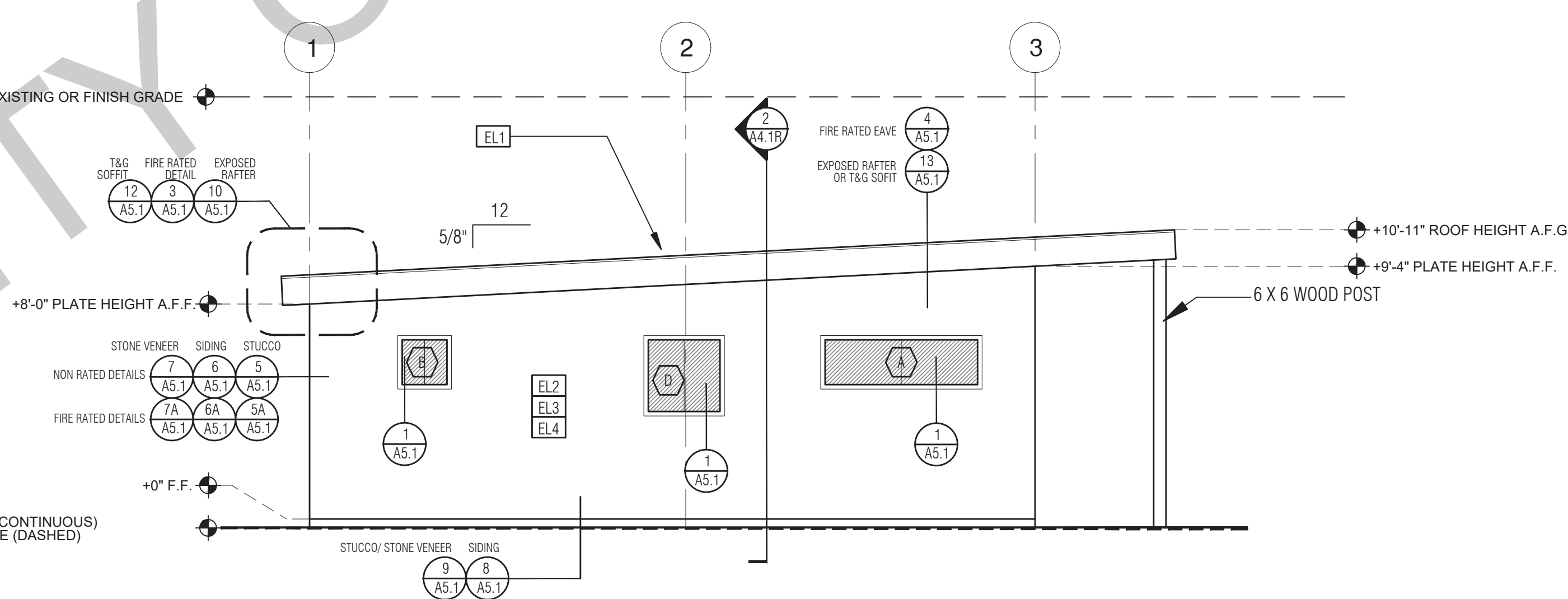
REVERSE



ELEVATION - C

1/4"=1'-0"

REVERSE



ELEVATION - D

1/4"=1'-0"

REVERSE

ELEVATION KEYNOTES

- EL1 MINIMUM CLASS A ROOF ASSEMBLY - SEE SHEET T1.1 FOR MANUFACTURER SPECIFICATIONS
- EL2 SIDING
- EL3 STUCCO
- EL4 STONE VENEER
- EL5 HEIGHT IS MEASURED AT THE BUILDING LINE FROM THE LOWER OF EXISTING AND PROPOSED GRADES IF LOT EXCEEDS 10% (EXCLUSIVE OF RR ZONE), THEN THE ADDITIONAL HEIGHT LIMITATION NEEDS TO BE SHOWN
- EL6 DRYER VENT TERMINATION (MINIMUM OF 3 FT FROM ANY OPENING)

ELEVATION GENERAL NOTES

1. ALL DIMENSIONS TO FINISH FACE, U.N.O.
2. ALL DOORS SHOULD BE 3 1/2" FROM NEAREST INTERSECTING WALL AT HINGED SIDE, U.N.O.
3. WRITTEN DIMENSIONS TO PREVAIL OVER SCALING OF DRAWINGS. SUBCONTRACTOR TO VERIFY ALL DIM. PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT OF ANY DISCREPANCIES.
4. REFER TO FRAMING PLANS, FLOOR PLANS, AND SECTIONS FOR CLARIFICATION AND DIMENSIONS
5. SEE SCHEDULE FOR DOOR AND WINDOW INFORMATION AND HEIGHTS
6. LATH & PLASTER
 - A. MATERIALS FOR PLASTER IS TO BE THE STANDARD PRODUCTS OF RECOGNIZED MANUFACTURES, AND SHALL BE AS MANUFACTURED BY US GYPSUM CO. AND APPROVED BY THE LATH AND PLASTER INSTIGAT OR APPROVED EQUAL.
 - B. ALL PLASTER CORNER BEADS, CASING BEADS, CONTROL JOINTS, EXPANSION SCREDS AND ACCESSORIES ARE TO BE GALVANIZED. PROVIDE CASING BEADS AT ALL JOINTS OF STUCCO TO DISSIMILAR SURFACES UNLESS OTHERWISE NOTED
 - C. WHERE INDICATED ON THE DRAWINGS, PORTLAND CEMENT PLASTER IS TO BE HAND APPLIED (3) THREE COAT WORK, 7/8" THICK ON EXTERIOR SURFACES. THE COATS ARE TO CONSIST OF A SCRATCH (3/8" AND A TWO COAT FINISH (1/8" MIN.) COAT PROPORTIONED AND MIXED ADS RECOMMENDED BY THE CALIFORNIA LATHING AND PLASTERING CONTRACTORS ASSOCIATION.
7. FRAMING ELEVATIONS, INCLUDING FLOOR PLATES AND FLOOR LEVEL ELEVATIONS ARE MEASURED FROM BUILDING FINISH FLOOR, U.N.O.
8. SEE ROOF PLAN FOR APPROXIMATE DOWNSPOUT LOCATIONS, U.N.O.
10. CONTRACTOR TO VERIFY COLOR SCHEME WITH OWNER BEFORE PERFORMING THE WORK
11. APPLICANT NEEDS TO SHOW EXISTING AND FINISH GRADE AND HEIGHT LIMITATION LINE FROM LOWER OF THE EXISTING OR FINISH GRADE.
12. IF LOT EXCEEDS 10% (EXCLUSIVE OF RR ZONE), THEN THE ADDITIONAL HEIGHT LIMITATION NEEDS TO BE SHOWN

LEGEND

- SECTION CUT
- ELEVATION CALLOUT
- DETAIL DRAWING REF.
- ELEVATION MARKER
- KEYNOTE
- DOOR SYMBOL
- WINDOW SYMBOL
- TEMPERED GLASS
- GLAZING
- ROOFING

project

PRADU
City of Encinitas

revisions

01

description

Exterior
Elevations
- Reverse

date

Month 20##

project no.

20##_xxxxxx

drawn by

xxx/xxx

sheet no.

A3.1R

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project

PRADU
City of Encinitas

revisions



description

Building
Sections

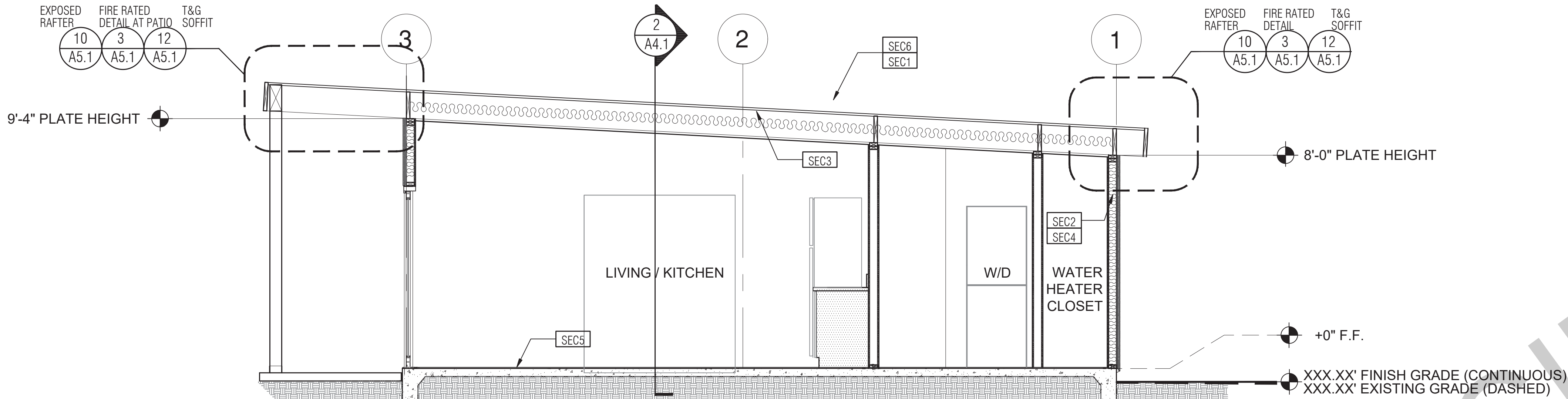
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drawn by xxx/xxx

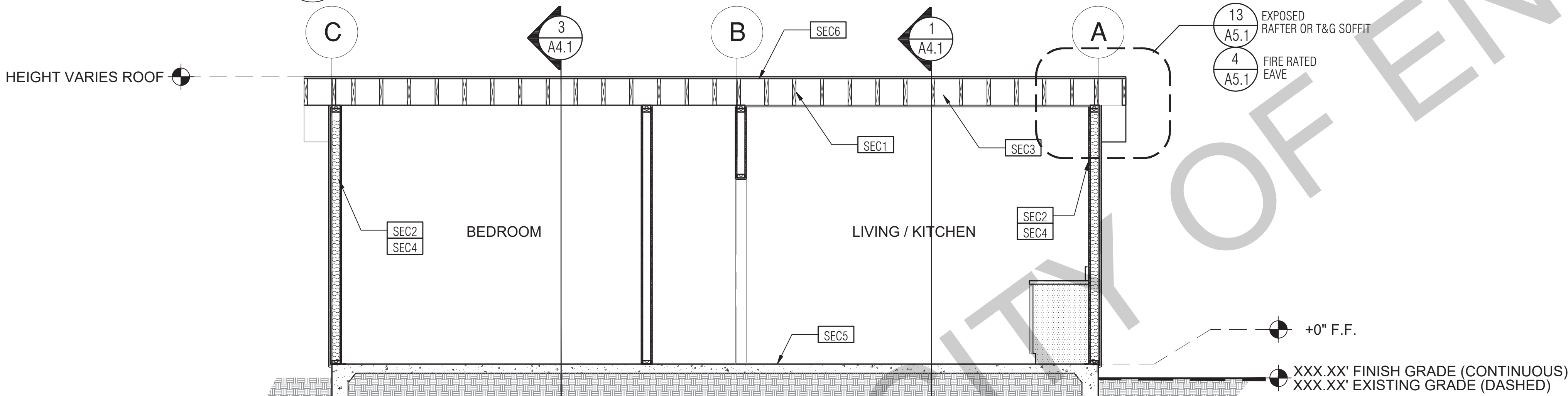
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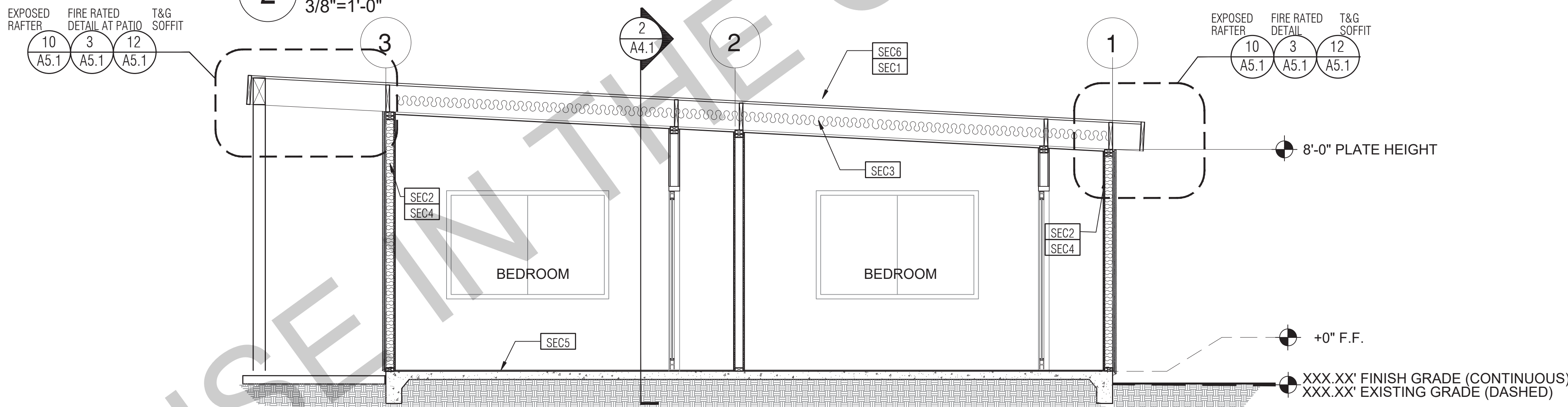
Section - 2 Bedroom

3/8"=1'-0"



Section - 2 Bedroom

3/8"=1'-0"



Section - 2 Bedroom

3/8"=1'-0"

SECTION KEYNOTES

- SEC1** RAFTERS PER PLAN SEE STRUCTURAL
- SEC2** 2X STUDS @ 16" O.C. - SEE STRUCTURAL
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B. HORIZONTALLY AT INTERVALS NOT EXCEEDING 10FT

9. AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS SOFFITS, DROP CEILINGS AND COVE CEILINGS
10. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES AND WIRES AT CEILINGS AND FLOOR LEVEL, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME PRODUCTS OF COMBUSTION. THE MATERIAL FILLING THIS ANNULAR SPACE SHALL NOT BE REQUIRED TO MEET THE ASTM E136 REQUIREMENTS FOR THE FIREBLOCKING OF CHIMNEYS AND FIREPLACES. SEE SECTION R1003.19 FIREBLOCKING OF CORNICES OF A TWO-FAMILY DWELLING IS REQUIRED AT THE LINE OF DWELLING-UNIT SEPARATION

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LEGEND

- SECTION CUT
- ELEVATION CALLOUT
- DETAIL DRAWING REF.
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project

PRADU
City of Encinitas

revisions



description

Building
Sections
- Reverse

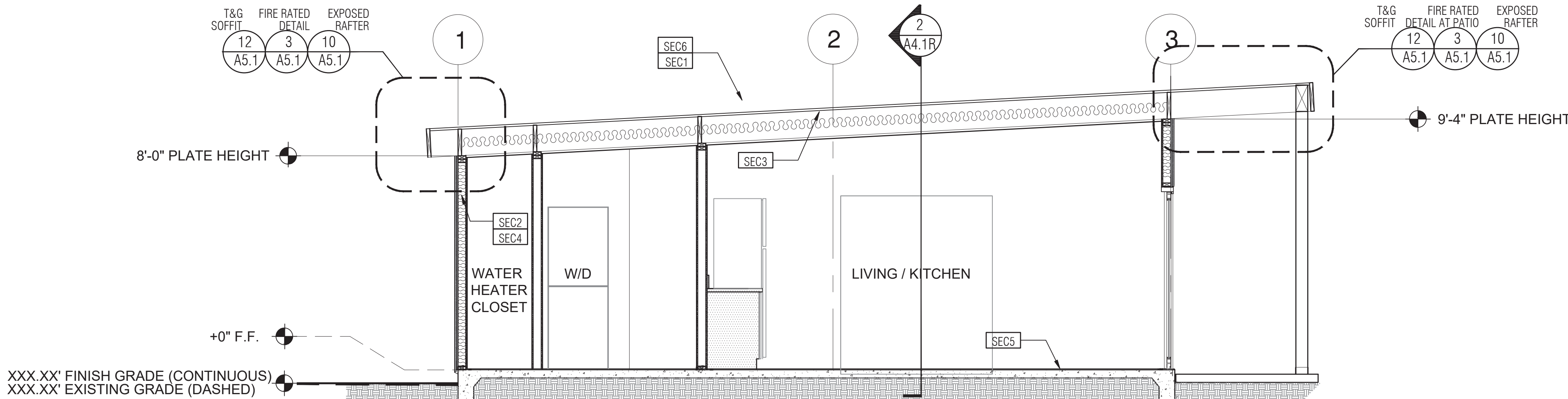
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drawn by xxx/xxx

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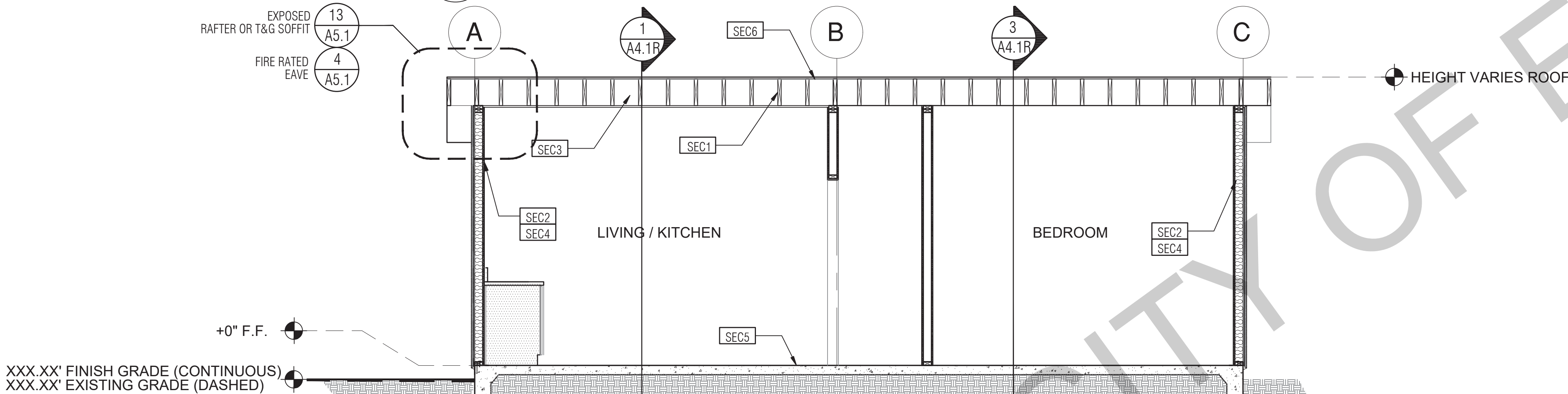
A4.1R



Section - 2 Bedroom

3/8"=1'-0"

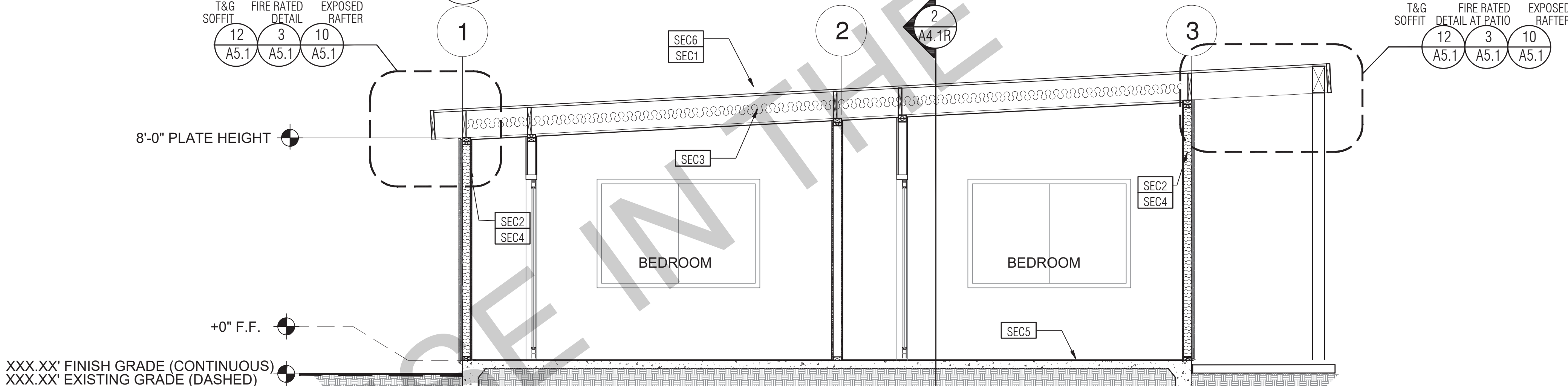
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Section - 2 Bedroom

3/8"=1'-0"

REVERSE



Section - 2 Bedroom

3/8"=1'-0"

REVERSE

SECTION KEYNOTES

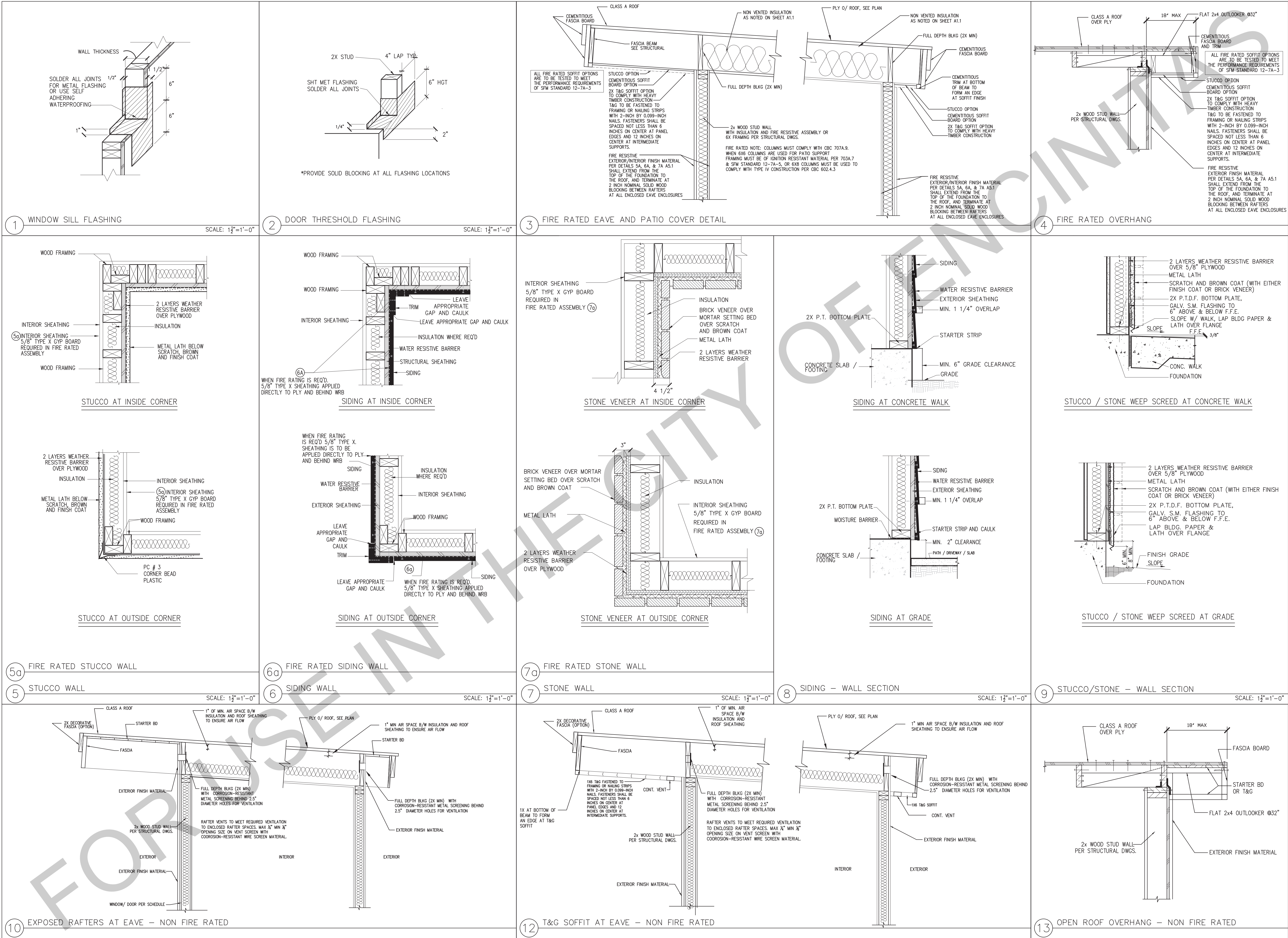
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project
PRADU
City of Encinitas

revisions



description

Architectural
Details

date ## Month 20##

project no. 20##_xxxxxx

drawn by xxx/xxx

sheet no.

A5.1

2. CONCRETE FOUNDATION CONSTRUCTION																				
200.	THE FIELD INSPECTOR SHALL VERIFY FOUNDATION REQUIREMENTS DURING FOUNDATION INSPECTION.																			
201.	CONCRETE STRENGTH SHALL BE NO LESS THAN 2,500 PSI @ 28 DAYS, OR HIGHER STRENGTH IF NOTED ON THE PLANS.																			
202.	SLAB REINFORCEMENT & FOOTINGS SHALL BE PER STRUCTURAL DETAILS ON SHEET S4, CENTERED IN SLAB.																			
203.	REINFORCING BARS TO BE GRADE 40 FOR #3 BARS, GRADE 60 FOR #4 BARS & LARGER																			
204.	PROVIDE WEAKENED PLANE JOINTS FOR CRACK CONTROL (SAWCUT OR TOOLED JOINT) AT 14'-0" O/C MAX.																			
205.	SILL ANCHORAGE AT ALL SHEARWALL LOCATIONS SHALL BE PER THE SHEARWALL SCHEDULE. ALL SHEARWALL ANCHOR BOLTS SHALL RECEIVE A 3" SQUARE X 0.229" THICK WASHER. THE WASHER MAY BE DIAGONALLY SLOTTED (WIDTH >= BOLT DIAMETER + $\frac{3}{16}$ ", LENGTH <= $1\frac{1}{2}$ ") PROVIDED THAT A STANDARD CUT WASHER IS USED ON TOP OF THE SQUARE WASHER. SHEARWALL ANCHORS SHALL BE PLACED A MIN. OF $1\frac{1}{4}$ " FROM THE EDGE OF CONCRETE.																			
206.	EMBEDDED SILL ANCHOR BOLTS AT TYPICAL NON-SHEARWALL CONDITIONS SHALL BE $\frac{5}{8}$ " DIA. MIN. ANCHOR BOLTS WITH A STANDARD CUT WASHER. SPACING SHALL NOT EXCEED 48 INCHES O/C. LOCATE AN ANCHOR BOLT NOT MORE THAN 9 INCHES, OR LESS THAN 4" FROM ENDS AND SPLICES. EACH SILL SHALL HAVE (2) SILL BOLTS MIN.																			
207.	ANCHOR BOLTS SHALL BE EMBEDDED A MIN. OF 7 INCHES INTO CONCRETE. IN A TWO-POUR SYSTEM, ANCHOR BOLTS TO BE EMBEDDED 5 INCHES MIN. INTO FIRST POUR.																			
208.	SEE WOOD FRAMING CONSTRUCTION NOTES FOR ALTERNATE SILL ANCHORAGE.																			
209.	ALL HOLDOWNS SHALL BE PLACED A MINIMUM DIM AS SHOWN IN DETAIL 3&4/S4 FROM EXTERIOR CORNER OF SLAB.																			
210.	VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. SUBCONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. IMMEDIATELY NOTIFY HOMEOWNER AND CITY OF ENCINITAS OF ANY DISCREPANCY, TYPICAL.																			
211.	PROVIDE A UFER GROUND FOR ELECTRICAL SYSTEM PER ARTICLE 250.52 N.E.C.																			
212.	ALL SURROUNDING FLAT WORK SHALL BE VERIFIED WITH HOMEOWNER FOR LOCATION AND AMOUNT TO BE POURED.																			
213.	RETROFIT MISPLACED HOLDOWNS AS NOTED BELOW. AT EPOXY ANCHORS USE SIMPSON SET-XP EPOXY PER MANUFACTURERS INSTALLATION REQUIREMENTS AS FOLLOWS:																			
	<table><tr><th>MISPLACED HOLDOWN</th><th>RETROFIT BOLT</th><th>REPLACEMENT HARDWARE</th></tr><tr><td>LSTD8, HTT4</td><td>$\frac{5}{8}$" ALL-THREAD, EMBED 9"</td><td>HTT4</td></tr><tr><td>STHD10, STHD14, HTT5</td><td>$\frac{5}{8}$" ALL-THREAD, EMBED 9"</td><td>HTT5</td></tr><tr><td>LT20B</td><td>$\frac{5}{8}$" ALL-THREAD, EMBED 7"</td><td>LT20B</td></tr><tr><td>LT20B</td><td>ATTACH TO EXISTING A.B.</td><td>LT20B</td></tr><tr><td>HDU8</td><td>$\frac{5}{8}$" ALL-THREAD, EMBED 15"</td><td>HDU8</td></tr></table>	MISPLACED HOLDOWN	RETROFIT BOLT	REPLACEMENT HARDWARE	LSTD8, HTT4	$\frac{5}{8}$ " ALL-THREAD, EMBED 9"	HTT4	STHD10, STHD14, HTT5	$\frac{5}{8}$ " ALL-THREAD, EMBED 9"	HTT5	LT20B	$\frac{5}{8}$ " ALL-THREAD, EMBED 7"	LT20B	LT20B	ATTACH TO EXISTING A.B.	LT20B	HDU8	$\frac{5}{8}$ " ALL-THREAD, EMBED 15"	HDU8	
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HDU8	$\frac{5}{8}$ " ALL-THREAD, EMBED 15"	HDU8																		
214.	RETROFIT $\frac{1}{2}$ " & $\frac{3}{8}$ " EMBEDDED ANCHOR BOLTS AS NOTED BELOW. AT EPOXY ANCHORS USE SIMPSON SET-XP EPOXY PER SIMPSON'S INSTALLATION REQUIREMENTS.																			
	<table><tr><th>LOCATION</th><th>TYPE</th><th>REPLACEMENT</th></tr><tr><td>SLAB EDGE, 1/3-4" DIST.</td><td>SHEARWALL</td><td>$\frac{5}{8}$" ALL-THREAD, EPOXY, EMBED 3" OR $\frac{3}{8}$" TITEN HD, EMBED 3" MIN.</td></tr><tr><td>INTERIOR > 6" EDGE DIST.</td><td>SHEARWALL OR NON-SHEAR</td><td>$\frac{5}{8}$" TITEN HD, EMBED 3" MIN.</td></tr><tr><td>ANY OTHER</td><td>NON-SHEAR</td><td>0.145 DIA. SHOT PINS SPACED 4 INCHES APART ON SILL. (2) FOR EACH MISSING ANCHOR BOLT. MAX. OF (6) SHOT PINS EVERY 6 FT.</td></tr></table>	LOCATION	TYPE	REPLACEMENT	SLAB EDGE, 1/3-4" DIST.	SHEARWALL	$\frac{5}{8}$ " ALL-THREAD, EPOXY, EMBED 3" OR $\frac{3}{8}$ " TITEN HD, EMBED 3" MIN.	INTERIOR > 6" EDGE DIST.	SHEARWALL OR NON-SHEAR	$\frac{5}{8}$ " TITEN HD, EMBED 3" MIN.	ANY OTHER	NON-SHEAR	0.145 DIA. SHOT PINS SPACED 4 INCHES APART ON SILL. (2) FOR EACH MISSING ANCHOR BOLT. MAX. OF (6) SHOT PINS EVERY 6 FT.							
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ANY OTHER	NON-SHEAR	0.145 DIA. SHOT PINS SPACED 4 INCHES APART ON SILL. (2) FOR EACH MISSING ANCHOR BOLT. MAX. OF (6) SHOT PINS EVERY 6 FT.																		
215.	WHEN REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, HAVE CONTRACTOR DOCUMENTATION IN WRITING FOR THE FOLLOWING: A) THE PAD WAS PREPARED IN ACCORDANCE WITH THE SITE REQUIREMENTS AND CITY OF ENCINITAS APPROVAL. B) THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED & COMPACTED. C) THE FOUNDATION EXCAVATIONS, EXPANSIVE CHARACTERISTICS AND BEARING CAPACITY COMPLIES WITH THE CITY OF ENCINITAS RECOMMENDATIONS .																			
216.	ALL HOLDOWN ANCHORS & HARDWARE MUST BE TIED IN PLACE PRIOR TO CALLING FOR A FOUNDATION INSPECTION.																			
3. WOOD FRAMING CONSTRUCTION																				
300.	ROOFING MATERIALS SHALL BE PER ARCHITECTURAL DRAWINGS.																			
301.	ROOF SHEATHING SHALL BE $\frac{15}{32}$ " OR $\frac{3}{8}$ " C-D GRADE, INTERIOR TYPE PLYWOOD WITH EXTERIOR GLUE, OR OSB PANELS. IDENTIFICATION INDEX (240) W/ 8D COMMON NAILS @ 6" O/C @ ALL PERIMETER EDGES AND ALL INTERIOR SUPPORTED EDGES AND @ 12" O/C @ ALL INTERMEDIATE SUPPORTS. SEE DETAILS FOR SHEAR AND DRAG NAILING.																			
302.	TYPICAL WALL SHEATHING: INTERIOR SURFACES: WHERE DRYWALL IS SPECIFIED, PROVIDE MIN. $\frac{5}{8}$ " GYPSUM WALLBOARD W/ 5D COOLER NAILS OR EQUAL @ 7" O/C TO ALL STUDS AND TO TOP & BOTTOM PLATES (UNLOCKED) AT INTERIOR SIDE OF EXTERIOR WALLS AND AT BOTH SIDES OF ALL INTERIOR WALLS. EXTERIOR SURFACES: SEE PLANS. WHERE "STUCCO" IS SPECIFIED PROVIDE $\frac{1}{2}$ " EXTERIOR CEMENT PLASTER OVER WIRE LATH OVER TYPE 15 BUILDING PAPER. LATH ATTACHED TO ALL STUDS AND TOP AND BOTTOM PLATES (OR BLOCKING AS OCCURS) W/ 16 GAGE X $\frac{1}{16}$ " STAPLES @ 6" O/C OR NO. 11 GAGE X 1-1/2" FURRING NAILS WHERE INDICATED ON ELEVATIONS.																			
303.	STRUCTURAL SHEATHING MAY BE EITHER OSB OR PLYWOOD. ANY NOTES REFERRING TO PLYWOOD ALSO APPLIES TO OSB.																			
304.	TOP PLATES SHALL BE DOUBLE 2X W/ WIDTH EQUAL TO STUDS BELOW, W/ (21)16D NAILS MIN. @ MINIMUM 4'-0" LAP SPLICES. USE SIMPSON RPS OR CS16 STRAP EACH SIDE OR ONE SIDE AND TOP WHERE LAP SPLICE IS NOT POSSIBLE. SEE DETAILS FOR NOTCHES, CUT-OUTS AND COMPLETE PLATE BREAKS AT HEATING, VENTING, AND PLUMBING.																			

3. WOOD FRAMING CONSTRUCTION (CONT.)

305. TYPICAL SHEAR TRANSFER:
ROOF TO WALL: CONNECT ROOF FRAMING TO TOP PLATE W/ SIMPSON H1 @ 24" O/C OR A35 OR RBC @ 24" O/C OR PER SHEAR TRANSFER DETAILS.

SILL PLATE ANCHORS:

306. GROUND FLOOR / SLAB ON GRADE WALLS: PROVIDE 2X (MIN.) PTDF SILL PLATES. SEE CONCRETE FOUNDATION CONSTRUCTION NOTES 206, 207 & 208 FOR ANCHOR BOLTS. AT INTERIOR NON-SHEAR CONDITIONS, 0.145 SHOT PIN ANCHORS @ 32" O/C MAY BE USED TO CONNECT PARTITIONS AND BEARING WALLS TO SLAB.

307. ALL WOOD SILL PLATES AND ALL WOOD MEMBERS DIRECTLY AGAINST CONCRETE OR MASONRY SHALL BE FOUNDATION GRADE REDWOOD SILLS OR PTDF SILLS, TREATED WITH SODIUM BORATE (SBX/DOT) WHEN INSTALLED IN A DRY OR ENCLOSED ENVIRONMENT. (SODIUM BORATE TREATMENT DOES NOT REQUIRE CORROSION RESISTANT CONNECTORS.) IF OTHER TREATMENTS ARE USED, SEE NOTE 309.

308. FASTENERS IN CONTACT WITH PRESSURE TREATED WOOD:
ALL NAILS AND FASTENERS IN CONTACT WITH PRESSURE TREATED LUMBER TREATED WITH ACQ-C, ACQ-D, CA-B, AND CBA-A WITHOUT AMMONIA SHALL BE GALVANIZED PER ASTM A153.

ALL NAILS AND FASTENERS IN CONTACT WITH PRESSURE TREATED LUMBER TREATED WITH ACQ-C, ACQ-D, CA-B, AND CBA-A WITH AMMONIA SHALL BE TYPE 303, 304, 305, OR 316 STAINLESS STEEL.

WHERE PRESSURE TREATED LUMBER IS INSTALLED IN AN EXTERIOR WET ENVIRONMENT, ALL NAILS AND FASTENERS IN CONTACT WITH THE PRESSURE TREATED LUMBER SHALL BE TYPE 303, 304, 305, OR 316 STAINLESS STEEL.

309. RE-TIGHTEN ALL HOLDOWN ANCHORS JUST PRIOR TO COVERING THE WALL FRAMING.

310. ENGINEERED BEAMS ARE AS FOLLOWS:
"PSL" REFERS TO PARALLEL STRAND LUMBER (E=2.0, FB=2900).
"LSL" REFERS TO LAMINATED STRAND LUMBER (E=1.55, FB=2325).
(E=1.3 & FB=1700 AT LSL CONDITIONS WITH D (DEPTH) < 9")
"LVL" REFERS TO LAMINATED VENEER LUMBER (E=2.0, FB=2800).
"GLB" REFERS TO 24F-1.8E GLU-LAM WITH STANDARD CAMBER, U.N.O.
"UC" ENGINEERED GLU-LAM BEAM MAY BE USED UPON ENGINEER APPROVALS. AN A.I.T.C CERTIFICATE OF COMPLIANCE ISSUED BY A CURRENT ICC APPROVED QUALITY CONTROL AGENCY FOR GLUED LAMINATED WOOD MEMBERS SHALL BE GIVEN TO THE BUILDING INSPECTOR PRIOR TO INSTALLATION.

311. LUMBER SPECIFICATIONS:
ALL FRAMING LUMBER SHALL BE DOUGLAS FIR-LARCH. STUDS, PLATES & BLOCKING:
2X4 FRAMING LUMBER NOT LISTED BELOW
92-1/4", 104-1/4", & 116-1/4" 2X4 STUDS
2X4 STUDS OVER 10"
2X4 SILLS & PLATES
2X6 STUDS, SILLS, & PLATES
4X4 STUDS & POSTS
4X6, 6X6, & LARGER STUDS & POSTS
4X4, 4X6, 4X8, 4X10 BEAMS & HEADERS
4X12, 4X14 BEAMS & HEADERS
6X4 BEAMS & HEADERS
6X6 & LARGER BEAM & HEADERS
2X6 AND LARGER RAFTERS AND JOISTS
STANDARD GRADE OR BETTER
STUD GRADE OR BETTER
#2 OR BETTER
STANDARD OR BETTER
#2 OR BETTER
STANDARD OR BETTER OR #1
#1 OR BETTER
#2 OR BETTER
#1 OR BETTER
#2 OR BETTER
#1 OR BETTER
#2 OR BETTER

312. HOLES, CUTOUTS, AND NOTCHES IN FRAMING MEMBERS:
BY VIRTUE OF CODE COMPLIANCE WITH ELECTRICAL AND PLUMBING CODES, HOLES AND NOTCHES WILL INEVITABLY BE MADE IN FRAMING MEMBERS. THE CODE RECOGNIZES AND APPROVES VARIOUS HOLES AND NOTCHES WITHOUT ENGINEERING JUSTIFICATION IN CBC SECTION 2308.8.2. ENGINEERED (PSL, LSL) RECTANGULAR LUMBER BEAMS BEHAVE LIKE ANY OTHER RECTANGULAR SHAPE WHEN NOTCHED OR BORED, SO THE ENGINEER OR ARCHITECT MAY SPECIFY LIMITS WITHOUT MANUFACTURER APPROVAL. OTHER HOLES AND NOTCHES ARE ALLOWED AS NOTED BELOW:

PSL AND LVL BEAMS: A HOLE 1 INCH IN DIAMETER CAN BE DRILLED ANYWHERE, AND A 2 INCH DIA. HOLE CAN BE DRILLED IN THE MIDDLE THIRD OF THE SPAN IN THE MIDDLE THIRD OF THE DEPTH OF THE BEAM FOR ANY PSL OR LVL BEAM, EXCEPT CANTILEVERED BEAMS AND BEAMS SUPPORTING CONCENTRATED LOADS. HOLES IN THOSE CONDITIONS REQUIRE APPROVAL IN WRITING FROM THE ENGINEER.

PSL AND LVL BEAMS: A RAKE CUT (TAPER) AT THE TOP OF THE BEAM AT THE END OF THE SUPPORT IS ALLOWED IF NOTED ON PLANS, TO A MINIMUM OF 4-3/8" AT INSIDE FACE OF SUPPORT. RAKE CUT (TAPER) THAT RESULTS IN A DEPTH AT THE INSIDE FACE OF THE SUPPORT OF 2/3RDS THE BEAM DEPTH IS ALLOWED AT CONDITIONS NOT SPECIFIED. OTHER TAPERED ENDS AND SQUARE NOTCHES IN TOP OR BOTTOM FACE REQUIRE APPROVAL IN WRITING FROM THE ENGINEER OR ARCHITECT.

STUDS AND PLATES: SEE STRUCTURAL DETAILS 13 & 14 ON SHEET S4 FOR NOTCHING AND BORING.

313. PROVIDE 2X4 TRIMMER & 2X4 KING STUD EACH END OF EACH 4X DROPPED BEAM OR HEADER. PROVIDE DOUBLE TRIMMERS AT EACH 4X10 OR LARGER. PROVIDE DOUBLE TRIMMERS AT EACH 3-1/2 X 7-1/2 PSL OR LSL OR LARGER.

314. PROVIDE 2X6 TRIMMER & 2X6 KING STUD EACH END OF EACH 6X DROPPED BEAM OR HEADER. PROVIDE DOUBLE TRIMMERS AT EACH 6X8 OR LARGER. PROVIDE DOUBLE TRIMMERS AT EACH 5-1/4 X 7-1/2 PSL OR LSL OR LARGER.

315. PROVIDE DOUBLE KING STUDS AT ALL OPENINGS 8'-1" WIDE AND WIDER OR PER PLAN.

316. PROVIDE MINIMUM 2-1/4" BEARING @ EACH END OF EACH FLUSH BEAM OR HEADER WHERE BEARING IS ON TOP PLATE. PROVIDE 2X4 STUD WITHIN 3' OF BEARING POINT. PROVIDE (2) 2X STUDS @ 6X OR LSL OR PSL BEAMS.

317. ROOF RAFTERS SHALL BE 2X RAFTERS AS NOTED ON STRUCTURAL DRAWINGS

318. EAVES SHALL BE PER ARCHITECTURAL PLANS W/ APPLIED TAILS PER ARCHITECTURAL PLANS. OVERHANG DETAILS ARE NOT SHOWN ON STRUCTURAL PLANS.

319. SEE THE ARCHITECTURAL ROOF PLANS FOR ROOF PITCH AND ADDITIONAL INFORMATION.

320. COMBINE AND GROUP PLUMBING VENTS WHENEVER POSSIBLE TO MINIMIZE ROOF PENETRATIONS.

3. WOOD FRAMING CONSTRUCTION (CONT.)

321. WOOD TO WOOD CONNECTORS SHALL BE SIMPSON STRONG TIE OR USP STRUCTURAL CONNECTORS. ALL SPECIFIED CONNECTOR CALL-OUTS ARE SIMPSON CATALOG CALL-OUTS. USP SUBSTITUTIONS SHALL HAVE A CAPACITY EQUAL TO OR GREATER THAN THE SIMPSON CATALOG VALUES. ANY OTHER ICC APPROVED METAL CONNECTOR MAY BE USED UPON APPROVAL BY THE ENGINEER OR ARCHITECT.

322. ICC APPROVED CONNECTORS SHALL BE USED WHERE CONNECTORS ARE SPECIFIED. UNLESS OTHERWISE NOTED, THE FOLLOWING BEAM AND JOIST HANGERS SHALL BE USED:

BEAM OR JOIST	SIMPSON/USP HANGER
RAFTERS	LU, LUS, LUC, OR HU
1.75 X LSL AND LVL	HU, HUS, OR WPU
2.69 X PSL AND LVL	HU OR HWU
3.5 X PSL AND LVL	HHUS OR HWU
5.25 X PSL AND LVL	HHUS OR HWU
7 X PSL AND LVL	HHUS OR HWU

AT BEAM HANGER CALLOUTS, IE HGUS OR HU BEAMS, THE CALLOUT IS ABBREVIATED. THE HANGER WIDTH MAY BE OMITTED TO ALLOW FLEXIBILITY IN ORDERING. EXAMPLE: 2.69 PSL THE CALLOUT MAY READ HGUS12. AN HGUS2.75/12 OR HGUS412 (WITH FILLERS) ARE APPLICABLE. WHERE HANGERS OFFER (MIN) OR (MAX), NAIL TO APPLY (MAX) LOADS.

323. WHERE SHEARWALL LENGTHS ARE SPECIFIED ON THE PLANS, THE LENGTH SHOWN IS A MINIMUM DIMENSION. THE SHEARWALL MAY BE LENGTHENED FOR CONSTRUCTION PURPOSES, BUT SHALL NOT BE REDUCED UNLESS OTHERWISE NOTED. ALL ENGINEERED WOOD PANEL SHEAR (PLYWOOD OR OSB) SHALL BE BLOCKED.

324. THE FOLLOWING HOLES IN SHEARWALLS ARE ALLOWED:

A) APPROXIMATELY SQUARE HOLES NOTCHED, PUNCHED, OR CUT THAT ARE LESS THAN 25 SQ. INCHES

B) APPROXIMATELY SQUARE HOLES CLEAN CUT OR BORED IN SHEARWALLS THAT ARE LESS THAN 64 SQ. INCHES (ONE HOLE PER 4' OF SHEARWALL.)

C) APPROXIMATELY SQUARE HOLES, LESS THAN 64 SQ. INCHES (ONE HOLE PER 8' OF SHEARWALL) WITH ALL EDGES BLOCKED & EDGE NAILED.

D) HOLES INDIVIDUALLY APPROVED BY THE ENGINEER OR ARCHITECT OF RECORD.

325. STUDS SHALL BE SPACED @ 16" O/C MAX. UNLESS OTHERWISE SPECIFIED. USE STUD GRADE EXCEPT AT PLATE HEIGHTS HIGHER THAN 10'-0", THEN USE DF#2 OR BETTER

326. ALL FINISHES, WATERPROOFING, DRAINAGE, AND FIRE-RELATED ELEMENTS ARE BY THE ARCHITECT OF RECORD AND ARE REQUIRED EVEN THOUGH THEY MAY NOT BE SHOWN ON THE STRUCTURAL PLANS AND DETAILS.

4. ICC-ES AND NER APPROVALS

400. PLYWOOD AND OSB PANELS: APA PLYWOOD & OSB-ESR-2586	FULL REPORTS FOUND AT: HTTP://WWW.ICC-ES.ORG
401. JOISTS AND RAFTERS AND BEAMS: TRUS-JOIST T-JI JOISTS AND PSL, LSL, & LVL-ICC-ES ESR-1387, 1153, BOISE CASCADE BCI JOISTS, VERSA-LAM, & VERSA-STRAND-ICC-ESR-1040, 1336 LOUISIANA PACIFIC JOISTS & BEAMS-ESR-1305, 2403 ROSEBURG JOISTS & BEAMS-ESR-1210, 1251 GLU-LAM BEAMS-ESR-1940 PACIFIC WOOD TECH- ESR 2909	
402. WOOD CONNECTORS: SIMPSON CONNECTORS-ICC-ES ESR #S 1161, 1622, 1866, 2105, 2203, 2236, 2320, 2549, 2551, 2552, 2553, 2330, 2554, 2555, 2604, 2605, 2606, 2607, 2608, 2611, 2613, 2614, 2615, 2616, 2617, 2920, 3046 IAPMO ER-112, 130, 143, 192, 262 USP LUMBER CONNECTORS-ICC-ES ESR #S 1178, 1280, 1575, 1702, 1781, 1881, 1970, 2104, 2685, 1831, 1465, 2761, 2787, IAPMO ER-200 QUICK DRIVE WOOD SCREWS-ICC-ES ESR-1472	
403. ADHESIVES & ANCHORS: SIMPSON EPOXY-TIE HIGH STRENGTH EPOXY (SET-XP)-ICC-ES ESR-1772, 2508. SIMPSON WEDGE-ALL (WA) WEDGE ANCHORS-ICC-ES ES-1771 SIMPSON TITEN HD-ICC-ESR-1056, 2713 SIMPSON SHOT PINS ICC-ES ESR-2138 HILTI X-DN, X-ZF, X-CF SHOT PINS-ICC-ES ER-1663, 1752, 2269	

5. NAILING & FASTENING

500. 16D NAILS AS SHOWN ON THE DETAILS MAY BE COMMON, BOX, OR SINKER NAILS (0.135" MIN. DIA)

501. AS AN ALTERNATE TO THE COMMON AND BOX NAILS SPECIFIED IN THE STRUCTURAL PLANS, THE FOLLOWING "CUTLER" GUN NAILS (OR EQUAL) ARE ACCEPTABLE ALTERNATIVES.

502. ALTERNATE NAILING FOR ROOF SHEATHING:
8D 2½" X 0.135 WIRE BARBED NAILS BY CUTLER OR EQUAL.

503. ALTERNATE NAILING FOR FLOOR SHEATHING: #8 X 2" SELF SETTING WOOD SCREWS, OR 8D 2½" X 0.135 OR 0.148 SCREW SHANK FLOOR NAILS BY CUTLER OR EQUAL

504. SHEAR PANELS WHERE 8D COMMON NAILS ARE SPECIFIED:
10D 2½" X 0.148" WIRE BARBED NAILS BY CUTLER OR EQUAL

NAIL SIZES

SIZE OF NAIL	STANDARD LENGTH	WIRE GAUGE	SIZE (INCHES)	PENETRATION REQUIRED
6D	2"	12 □	0.099	1"
8D	2½"	11 □	0.113	1"
10D	3"	10 □	0.128	1 □"
12D	3"	10 □	0.128	1 □"
16D	3½"	10	0.135	1 □"
16D SINKER	3"	9	0.148	1 □"

BOX NAILS

6D	2"	12 □	0.099	1"
8D	2½"	11 □	0.113	1"
10D	3"	10 □	0.128	1 □"
12D	3"	10 □	0.128	1 □"
16D	3½"	10	0.135	1 □"
16D SINKER	3"	9	0.148	1 □"

COMMON NAILS

6D	2"	11 □	0.113	1"
8D	2½"	10	0.131	1 □"
10D	3"	9	0.148	1 ¼"
12D	3"	9	0.148	1 ¼"
16D	3½"	8	0.162	1 ½"

6. NAILING SCHEDULE, MINIMUMS (CBC 2304.10.2)		
BLKNG AT CEILING JOISTS, RAFTERS, OR TRUSSES TO TOP PLATE OR OTHER FRAMING, T.N.		
BLKNG AT CEILING RAFTERS OR TRUSSES NOT AT WALL TOP PLATE TO RAFTER OR TRUSS, T.N.		
BLKNG AT CEILING RAFTERS OR TRUSSES NOT AT WALL TOP PLATE TO RAFTER OR TRUSS, E.N.		
FLAT BLKNG TO TRUSS AND WEB, F.N.		
CEILING JOISTS TO TOP PLATE, T.N.		
CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS, F.N. PER 2308.7.3.1		
CEILING JOISTS ATTACHED TO PARALLEL RAFTER (HEEL JOINT), F.N. PER 2308.7.3.1		
COLLAR TIE TO RAFTER, F.N.		
RAFTER/TRUSS TO TOP PLATE, T.N. PER TABLE 2308.7.3.5		
RAFTERS TO RIDGE VALLEY OR HIP; OR FATER TO 2" RIDGE BEAM		
TOENAIL		
ENDNAIL		
STUD TO STUD (NOT AT BRACED WALL PANELS)		
STUD TO STUD AT INTERSECTING WALL CORNERS (BRACED WALL)		
BUILT-UP HEADER (2" TO 2"), FN EA. EDGE		
CONT. HEADER TO STUD, T.N.		
TOP PLATE TO TOP PLATE		
TOP PLATE TO TOP PLATE, AT END JOINTS (EACH SIDE OF END JOINT), FACENAIL		
24" MIN LAP SPLICE EA. SIDE		
BOTTOM PLATE TO JOIST, RIM, OR BLKG, FACENAIL		
UNBRACED WALL: 16" o.c. FN		
UNBRACED WALL: 12" o.c. FN		
BRACED WALL: 16" o.c. FN		
STUD TO TOP OR BOTTOM PLATE		
TOENAIL		
ENDNAIL		
TOP PLATES, LAPS AT CORNERS AND INTERSECTION, F.N.		
1" BRACE TO EACH STUD AND PLATE, F.N.		
1"x6" SHEATHING TO EACH BEARING, F.N.		
1"x8" SHEATHING AND WIDER TO EACH BEARING, F.N.		
JOIST TO SILL, TOP PLATE, OR GIRDER, T.N.		
RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER		
1"x6" SUBFLOOR OR LESS TO EACH JOIST, F.N.		
2" SUBFLOOR TO JOIST OR GIRDER, F.N. OR BLIND		
2" PLANKS (PLANK & BEAM - FLOOR & ROOF), FACENAIL & EACH BEARING		
BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS		
32" o.c. FN Top & BTM STAGGERED ON OPPOSITE SIDES		
24" o.c. FN Top & BTM		
ENDS & SPLICES, FN		
LEDGER SUPPORTING JOISTS/RAFTERS		
JOIST TO BAND OR RIM JOIST, END NAIL		
BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS EACH END, T.N.		
WOOD STRUCT. PANELS, SUBFLOOR, ROOF AND INTERIOR WALL SHTNG TO FRMG AND PARTICLEBOARD WALL SHEATHING TO FRAMING		
$\frac{3}{8}$ "- $\frac{1}{2}$ "	16d Com or deformed; or 2 $\frac{3}{8}$ "x.113" nail (subfloor a&d wall)	6
	8d Com or deformed (roof) or 2 $\frac{3}{8}$ " x.113" nail (roof)	6
	1 $\frac{1}{2}$ " 16 Ga Staple, $\frac{7}{16}$ " crown (subfloor and wall)	4
	2 $\frac{3}{8}$ " x.113"x.266" head nail (roof)	3
	1 $\frac{1}{2}$ " 16 Ga Staple, $\frac{7}{16}$ " crown (roof)	3
$\frac{1}{2}$ "- $\frac{3}{4}$ "	8d Com or deformed (subfloor and wall)	6
	8d Com or deformed (roof) or 2 $\frac{3}{8}$ " x.113" nail (roof) ^d	6
	2 $\frac{3}{8}$ " x.113"x.266" head nail, 2"16 Gage staple, $\frac{7}{16}$ " crown	4
$\frac{5}{8}$ "-1 $\frac{1}{4}$ "	10d Com or (3"x0.148"); or deformed (2 $\frac{3}{8}$ " x.131"x.281 head)	6
OTHER EXTERIOR WALL SHEATHING (FIBERBOARD)		
$\frac{1}{2}$ "- $\frac{3}{4}$ "	1 $\frac{1}{2}$ " x0.120", galvanized roofing nail ($\frac{1}{16}$ " head dia) or 1 $\frac{1}{2}$ " 16 Ga Staple w/ $\frac{1}{16}$ " o.c.	6
	1 $\frac{1}{2}$ " x0.120", galvanized roofing nail ($\frac{1}{16}$ " head dia) or 1 $\frac{1}{2}$ " 16 Ga Staple w/ $\frac{1}{16}$ " o.c.	6
WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING		
$\frac{3}{8}$ " & LESS	8d COMMON (2 $\frac{3}{8}$ "x0.131"); or deformed (2"x0.113"); or deformed (2"x0.120")	6
	8d COMMON (2 $\frac{3}{8}$ "x0.131"); or deformed (2"x0.113"); or deformed (2"x0.120")	6
	10d COMMON (3"x0.148"); or deformed (2 $\frac{3}{8}$ "x0.131"); or deformed (2 $\frac{3}{8}$ "x0.120")	6
	10d COMMON (3"x0.148"); or deformed (2 $\frac{3}{8}$ "x0.131"); or deformed (2 $\frac{3}{8}$ "x0.120")	6
PANEL SIDING TO FRAMING		
$\frac{1}{2}$ " & LESS	6d corrosion-resistant siding (1 $\frac{1}{2}$ "x.106"); or 6d corrosion-resistant (2"x.099")	6
	8d corrosion-resistant siding (2 $\frac{3}{8}$ "x0.128"); or 8d corrosion-resistant casing (2"x.092")	6
INTERIOR PANELING		
$\frac{1}{2}$ "- $\frac{3}{4}$ "	4d casing (1 $\frac{1}{2}$ "x0.080"); or 4d finish (1 $\frac{1}{2}$ "x0.072")	6
	6d casing (2"x0.099"); or 6d finish (2"x.092") - (Panel supports at 24 inches)	6
7. DESIGN CRITERIA		
700. BUILDING CODE: 2022 CALIFORNIA BUILDING CODE AND 2022 CALIFORNIA RESIDENTIAL CODE.		
701. SEISMIC DESIGN CRITERIA:		
SOIL BEARING VALUE		1,500 psf
SITE CLASS		D (Default)
SEISMIC DESIGN CATEGORY		D
RISK CATEGORY		II
SEISMIC IMPORTANCE FACTOR		1
Ss		1.245
S1		0.442
BASIC SEISMIC FORCE RESISTING SYSTEM-BEARING WALL ANALYSIS METHOD: EQUIVALENT LATERAL FORCE PROCEDURE SEE STRUCTURAL CALCULATIONS FOR SD1, SDS, DESIGN BASE SHEAR, Cs, & R FACTORS.		
702. WIND DESIGN CRITERIA :		
WIND SPEED (V-ult)		124 mph
RISK CATEGORY		II
EXPOSURE		C
INTERNAL PRESSURE COEF		0.18
EXTERIOR CLADDING (0.6W)		13 psf
703. DESIGN LOADING:		
ROOF DL	28 psf	
ROOF LL	20 psf	



1. ALL ANCHOR BOLTS, HOLDOWN ANCHORS, & REINF. MUST BE SECURELY TIED IN PLACE PRIOR TO FOTN INSP.
2. ALL EXTERIOR STUDS TO BE 2x4 @ 16" O.C.
3. THE MINIMUM NOMINAL ANCHORBOLT DIAMETER SHALL BE 1/2 INCH NOTE: THIS WILL REQUIRE A MINIMUM DISTANCE FROM THE ENDS OF SILL PLATES TO BE 4" (AND A MAXIMUM OF 12")
4. PLATE WASHERS (MINIMUM SIZE OF 3" x 3" x 1/4") SHALL BE USED ON EACH ANCHOR BOLT.
5. PROVIDE CONC SLAB JOINTS AT NO MORE THAN 15 FT EA. WAY
6. SEE SHT S3 FOR TYP. CONCRETE & SLAB DETAILS 1-8
7. POSTS W/ SPECIFIED BASE SHALL BE NAILED TO BOLTED SILL PLATES W/ (2) 16d T.N. EA SIDE, TYP.
8. FOOTINGS ADJACENT TO SLOPES GREATER THAN OR EQUAL TO 33.3% SHALL COMPLY WITH SETBACK REQUIREMENTS DEFINED IN CBC 1808.7.

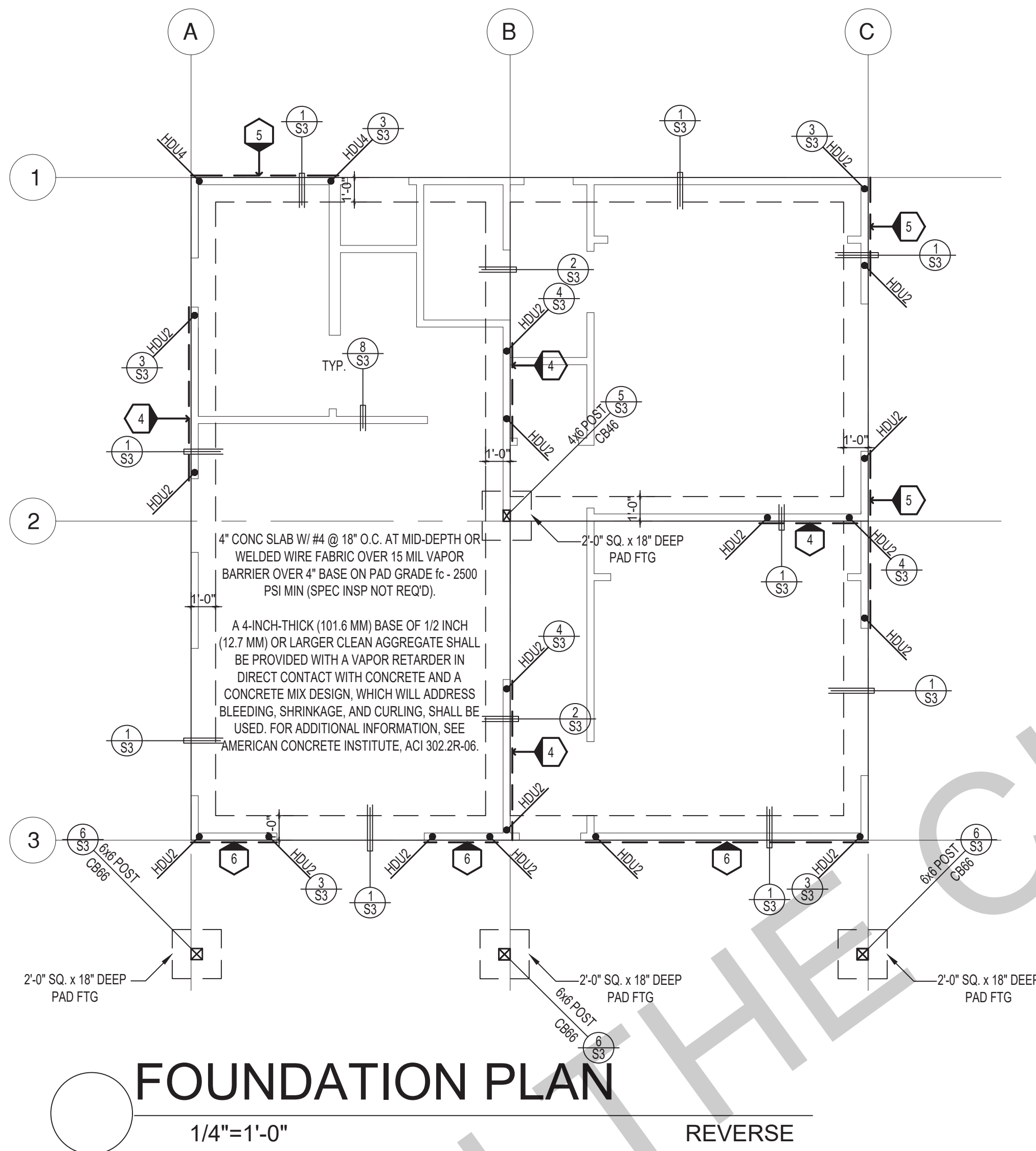
	SHEARWALL & A.B. SPACING PER SCHEDULE
	BOLT TYPE HOLDDOWN
	BEARING OR EXTENT OF RAFTERS
	HANGER TO BEAM/EDDGER
	BEARING OR EXTENT OF JOISTS

- (1) AT PLYWOOD OR OSB PS-1 OR PS-2 RATED PANELS USE COMMON NAILS OR GALVANIZED BOX NAILS (2) LAYERS OF PAPER EXTERIOR PLYWOOD REQUIRED. SHEAR SHALL BE APPLIED OVER STUDS @ 16" O.C. GALVANIZED NAILS SHALL NOT BE HOT-DIPPED OR TUMBLED.
- (2) SILL PLATES & WASHERS SHALL COMPLY WITH THE CONCRETE FOUNDATION CONSTRUCTION AND WOOD FRAMING CONSTRUCTION NOTES. (SEE NOTES #206, 208, 209, 307, 308, 309, ETC.)
- (3) IN PLYWOOD SHEARWALLS, THE EDGE OF THE 3" SQUARE WASHERS (SEE NOTE #206) SHALL BE $\frac{1}{2}$ " OR LESS FROM THE EDGE OF THE SILL PLATE ON THE SIDE OF THE SHEATHING. ALL NAILING SHALL BE $\frac{3}{8}$ " MIN. FROM THE EDGE OF SHEATHING.
- (4) WHERE ALLOWABLE SHEAR VALUES EXCEED 350 PLF (SHEARWALL TYPES 6, 7, 8, & 9) ALL FRAMING RECEIVING NAILING FROM ABUTTING PANEL EDGES SHALL NOT BE LESS THAN A SINGLE 3" NOMINAL MEMBER OR (2) 2X MEMBERS NAILED WITH 10D, SPACING EQUAL TO THE E.N. SPACING PLYWOOD JOINT AND SILL NAILING SHALL BE STAGGERED.
- (5) IN SHEARWALL TYPES 8 & 9, SILL PLATE NAILING SHALL BE STAGGERED. AT SECOND FLOOR CONDITIONS, PROVIDE ADEQUATE RIM OR BLOCKING TO PREVENT SPLITTING.

(*) ALLOWABLE SHEAR VALUES FOR PLYWOOD SHEARWALLS MAY BE INCREASED BY 40% UNDER WIND LOADING.

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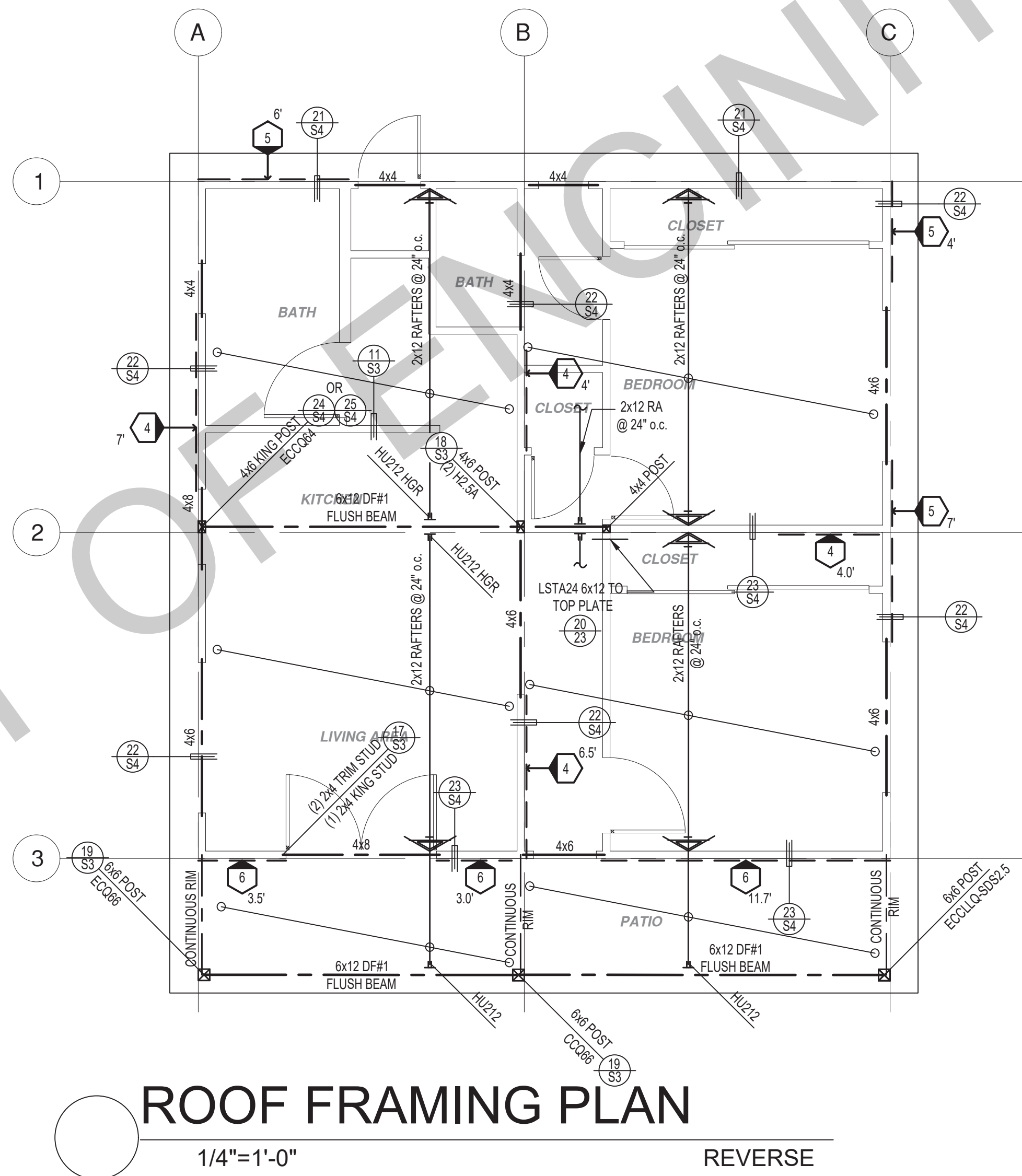
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FOUNDATION PLAN

1/4"=1'-0"

REVERSE



ROOF FRAMING PLAN

1/4"=1'-0"

REVERSE

SHEAR WALL SCHEDULE (ASD VALUES)

FOUNDATION NOTES	
1.	ALL ANCHOR BOLTS, HOLDOWN ANCHORS, & REINF. MUST BE SECURELY TIED IN PLACE PRIOR TO FDTN. INSP.
2.	ALL EXTERIOR STUDS TO BE 2x4 @ 16" O.C.
3.	THE MINIMUM NOMINAL ANCHORBOLT DIAMETER SHALL BE 1/2 INCH NOTE: THIS WILL REQUIRE A MINIMUM DISTANCE FROM THE ENDS OF SILL PLATES TO BE 4" (AND A MAXIMUM OF 12")
4.	PLATE WASHERS (MINIMUM SIZE OF 3" x 3" x 1/4") SHALL BE USED ON EACH ANCHOR BOLT.
5.	PROVIDE CONC SLAB JOINTS AT NO MORE THAN 15 FT EA. WAY
6.	SEE SHT S3 FOR TYP. CONCRETE & SLAB DETAILS 1-8
7.	POSTS W/O SPECIFIED BASE SHALL BE NAILED TO BOLTED SILL PLATES W/ (2) 16d T.N. EA SIDE, TYP.
8.	FOOTINGS ADJACENT TO SLOPES GREATER THAN OR EQUAL TO 33.3% SHALL COMPLY WITH SETBACK REQUIREMENTS DEFINED IN CBC 1808.7.

	4	5	6	7	8	9
SHEARWALL DESCRIPTION (See footnotes 1 & 4)	3/4" ply. C-D or C-C sheathing, (1) side w/ 8d @ 6" o/c edge, 12" o/c field, blocked (See footnote 3)	3/4" ply. C-D or C-C sheathing, (1) side w/ 8d @ 4 1/2" o/c edge, 12" o/c field, blocked (See footnote 3)	3/4" ply. C-D or C-C sheathing, (1) side w/ 8d @ 3" o/c edge, 12" o/c field 3x abutting panel studs blocked (See footnote 3 & 4)	3/4" rated STRUCT 1 panel, (1) side w/ 8d @ 3" o/c edge, 12" o/c field 3x abutting panel studs blocked (See footnote 3 & 4)	1 1/2" rated STRUCT 1 panel, (1) side w/ 10d @ 3" o/c edge, 12" o/c field 3x abutting panel studs blocked (See footnote 3, 4, & 5)	1 1/2" rated STRUCT 1 panel, (1) side w/ 10d @ 2" o/c edge, 12" o/c field 3x abutting panel studs blocked (See footnote 3, 4, & 5)
SHEAR VALUE (PLF)	260*	350*	490*	550*	665*	870*
ANCHOR BOLT SPACING	5/8" @ 48" or 1/2" @ 32"	5/8" @ 32" or 1/2" @ 24"	5/8" @ 24" or 1/2" @ 16"	5/8" @ 24" or 1/2" @ 16"	5/8" @ 16" or 1/2" @ 24"	5/8" @ 12" or 1/2" @ 8"
16d (0.148") SILL NAILING	6"	4 1/2"	3 1/2"	3"	1/2" x 4 1/2" SDS screws @ 8"	1/2" x 4 1/2" SDS screws @ 8"
SPACING OF A308LTP4 FRAMING TO TOP PLATE	32" O.C.	18" O.C.	12" O.C.	12" O.C.	8" O.C.	8" O.C.

LEGEND	
	X" SHEARWALL & A.B. SPACING PER SCHEDULE
	BOLT TYPE HOLDOWN
	BEARING OR EXTENT OF RAFTERS
	HANGER TO BEAM/LEDGER
	BEARING OR EXTENT OF JOISTS

SHEAR WALL FOOTNOTES

- (1) AT PLYWOOD OR OSB PS-1 OR PS-2 RATED PANELS USE COMMON NAILS OR GALVANIZED BOX NAILS (2) LAYERS OF PAPER EXTERIOR PLYWOOD REQUIRED. SHEARWALL SHALL BE APPLIED OVER STUDS @ 16" O.C. GALVANIZED NAILS SHALL NOT BE HOT-DIPPED OR TUMBLER.
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- (*) ALLOWABLE SHEAR VALUES FOR PLYWOOD SHEARWALLS MAY BE INCREASED BY 40% UNDER WIND LOADING.

project

PRADU
City of Encinitas

revisions



description

Foundation/
Framing Plans
- Reverse

date

Month 20##

project no.

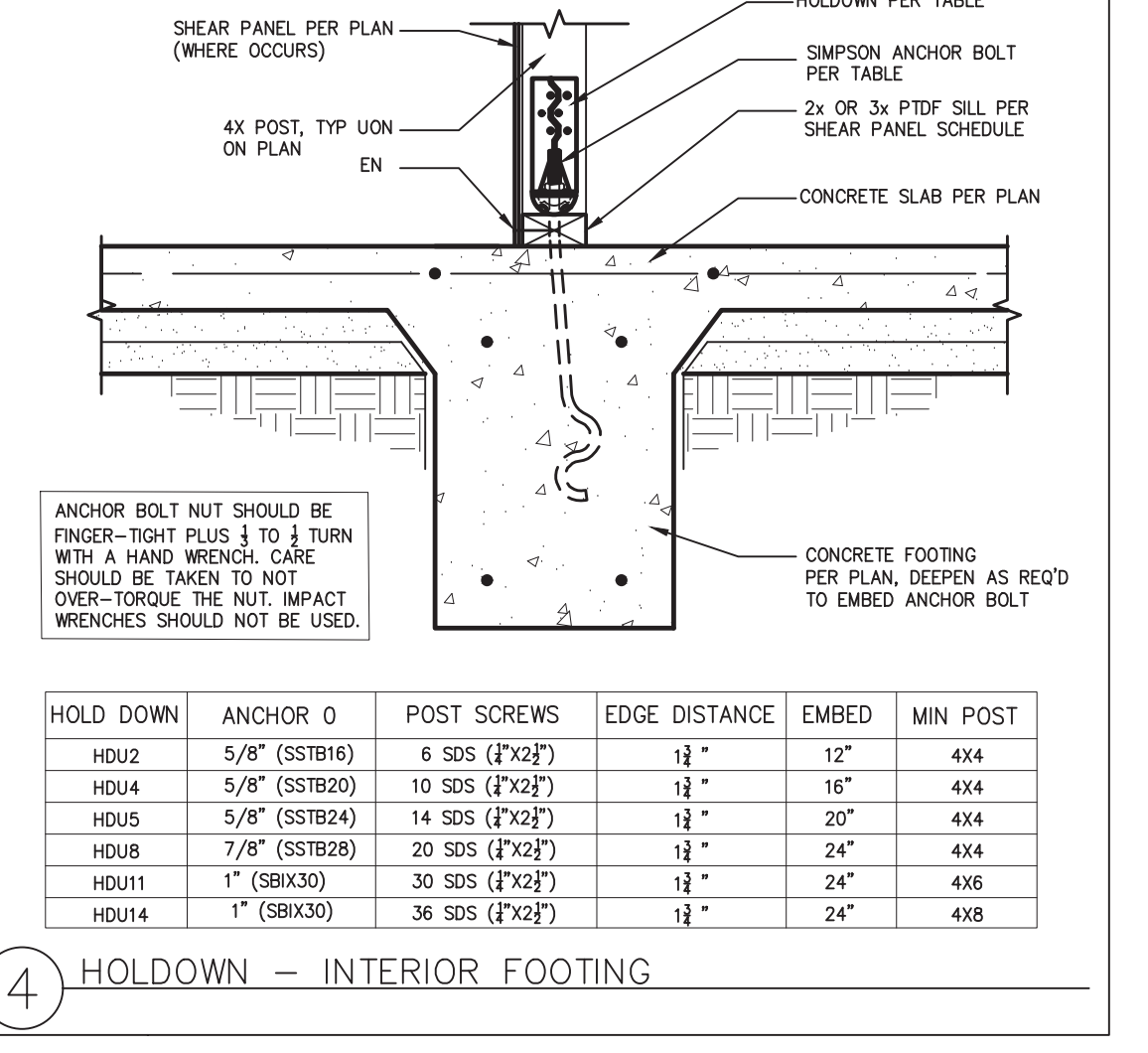
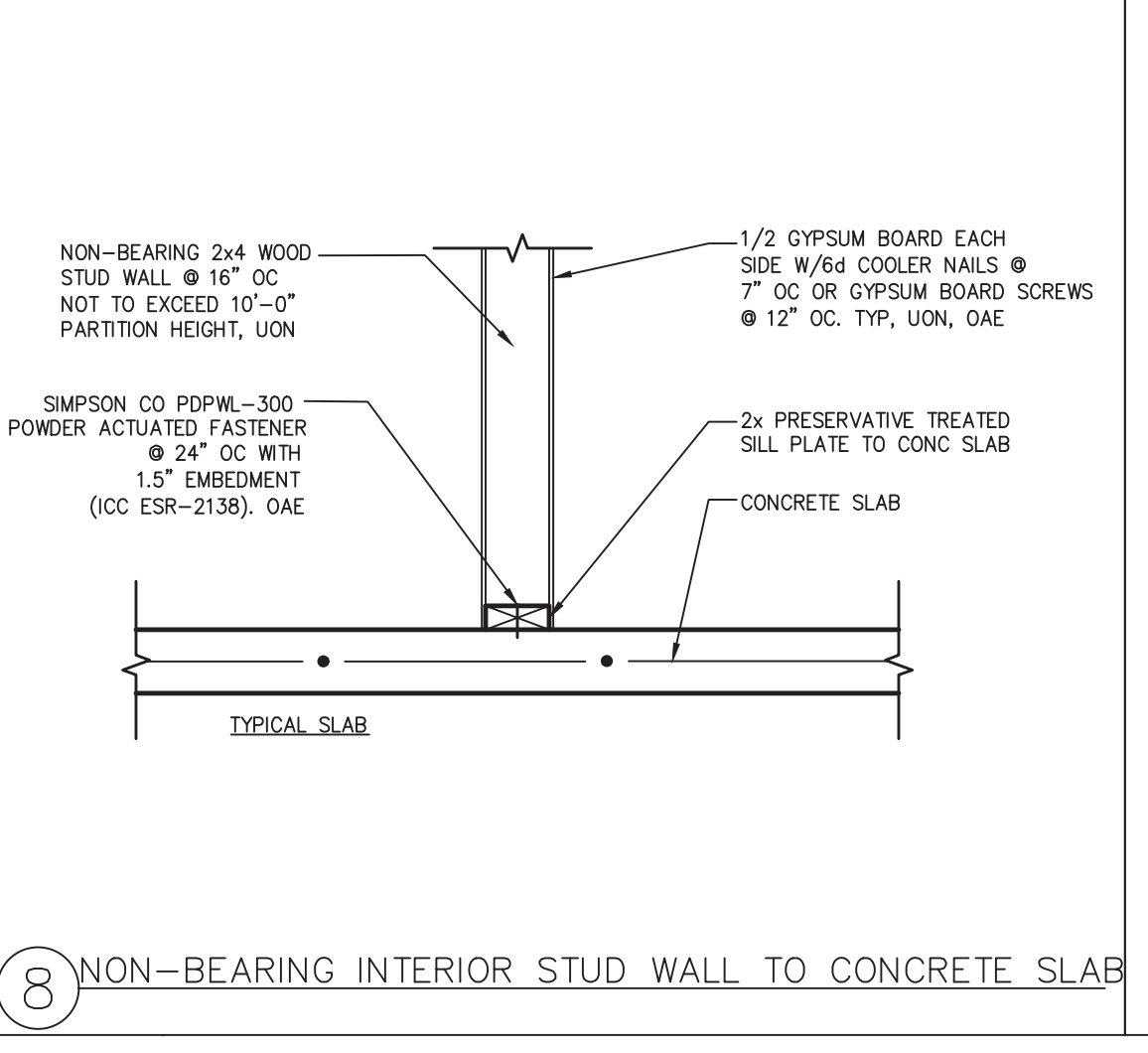
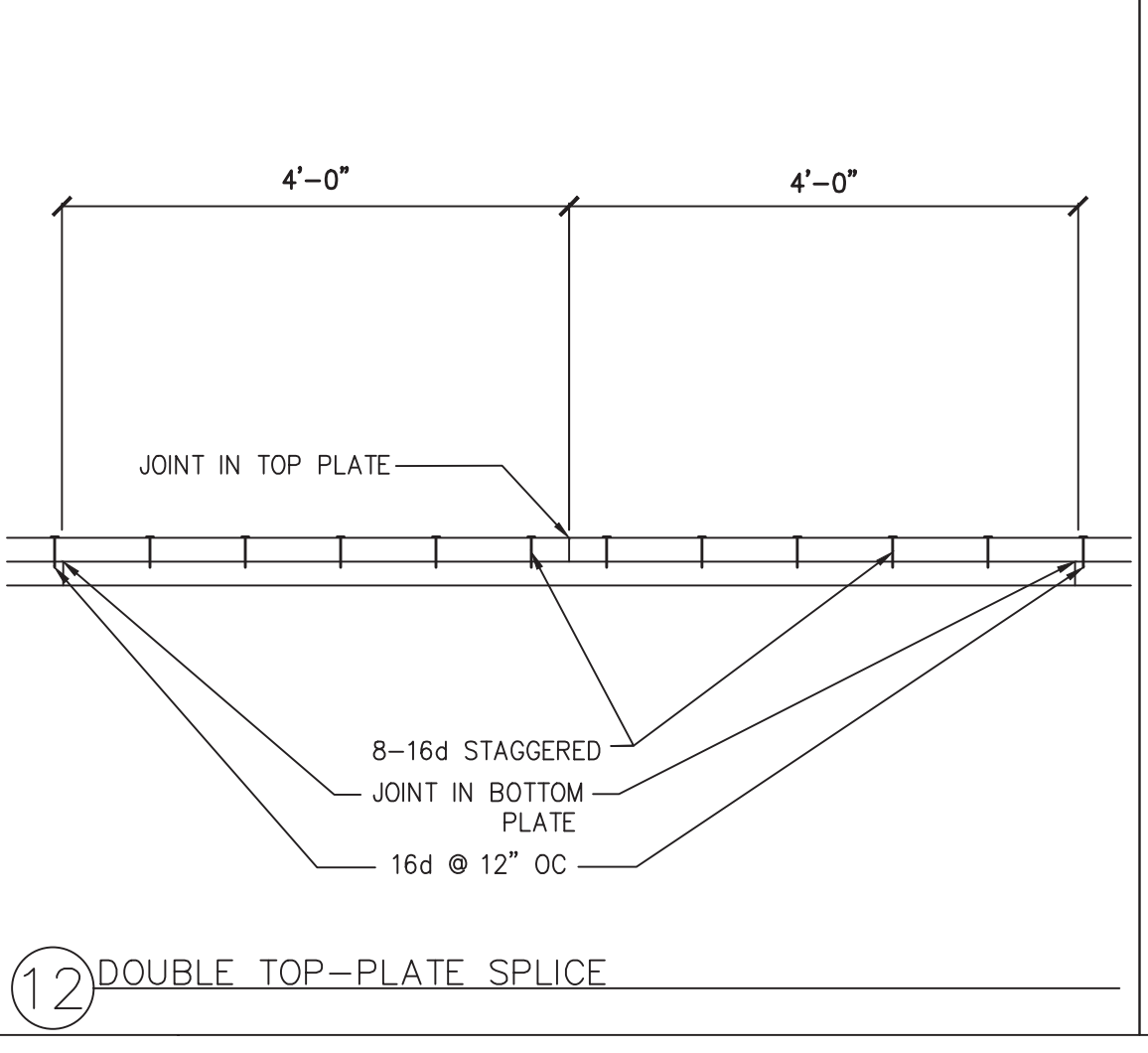
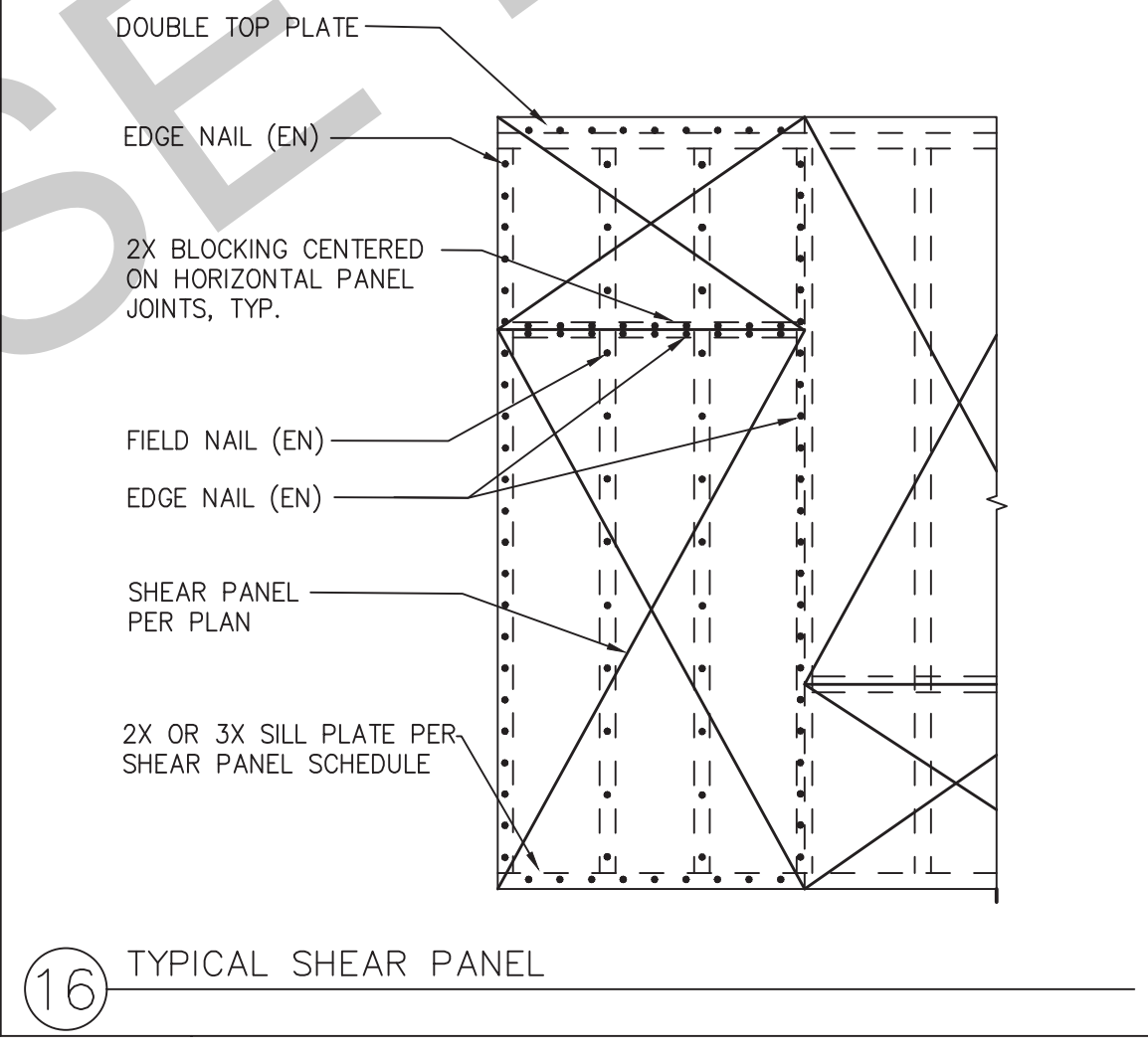
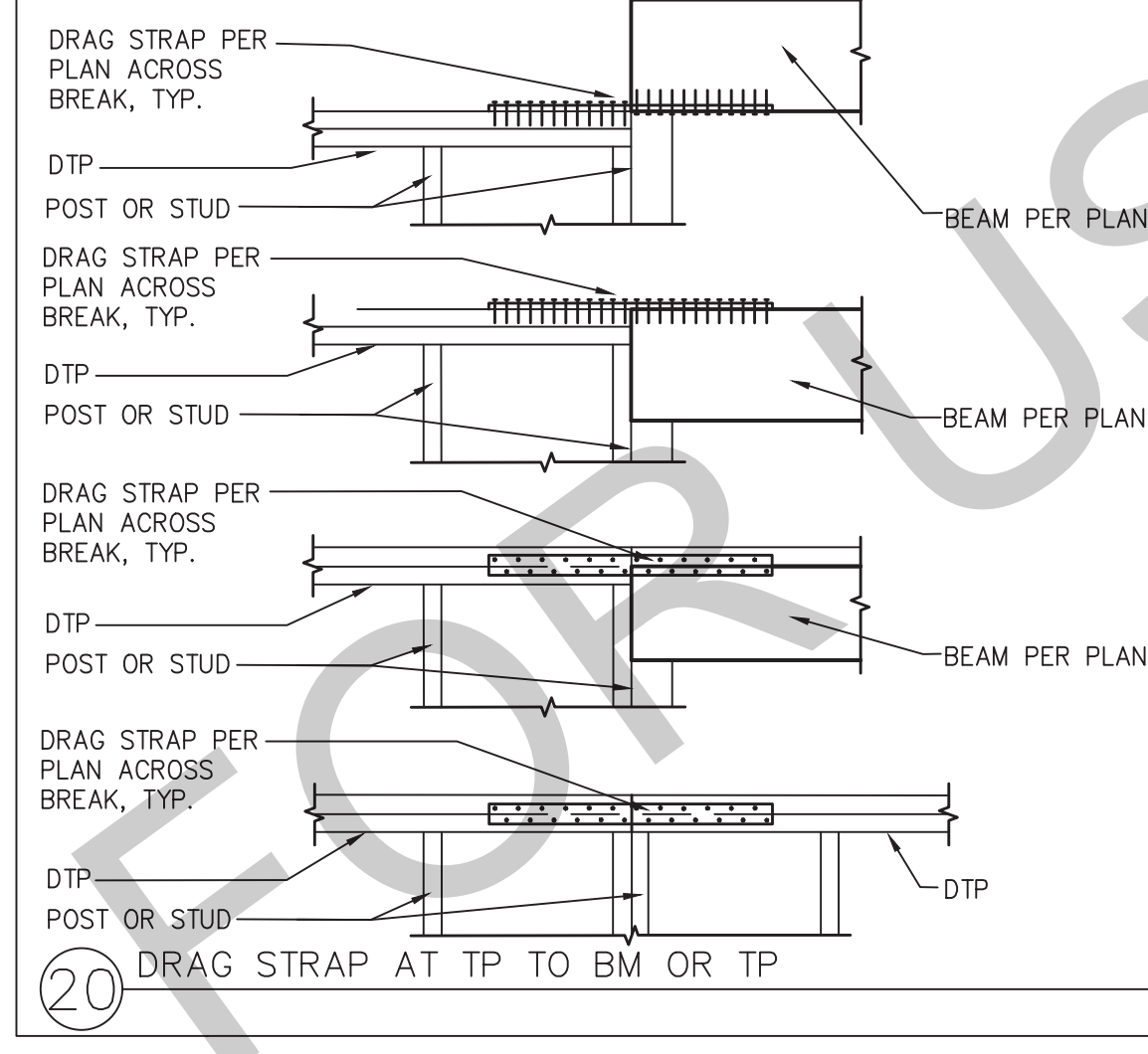
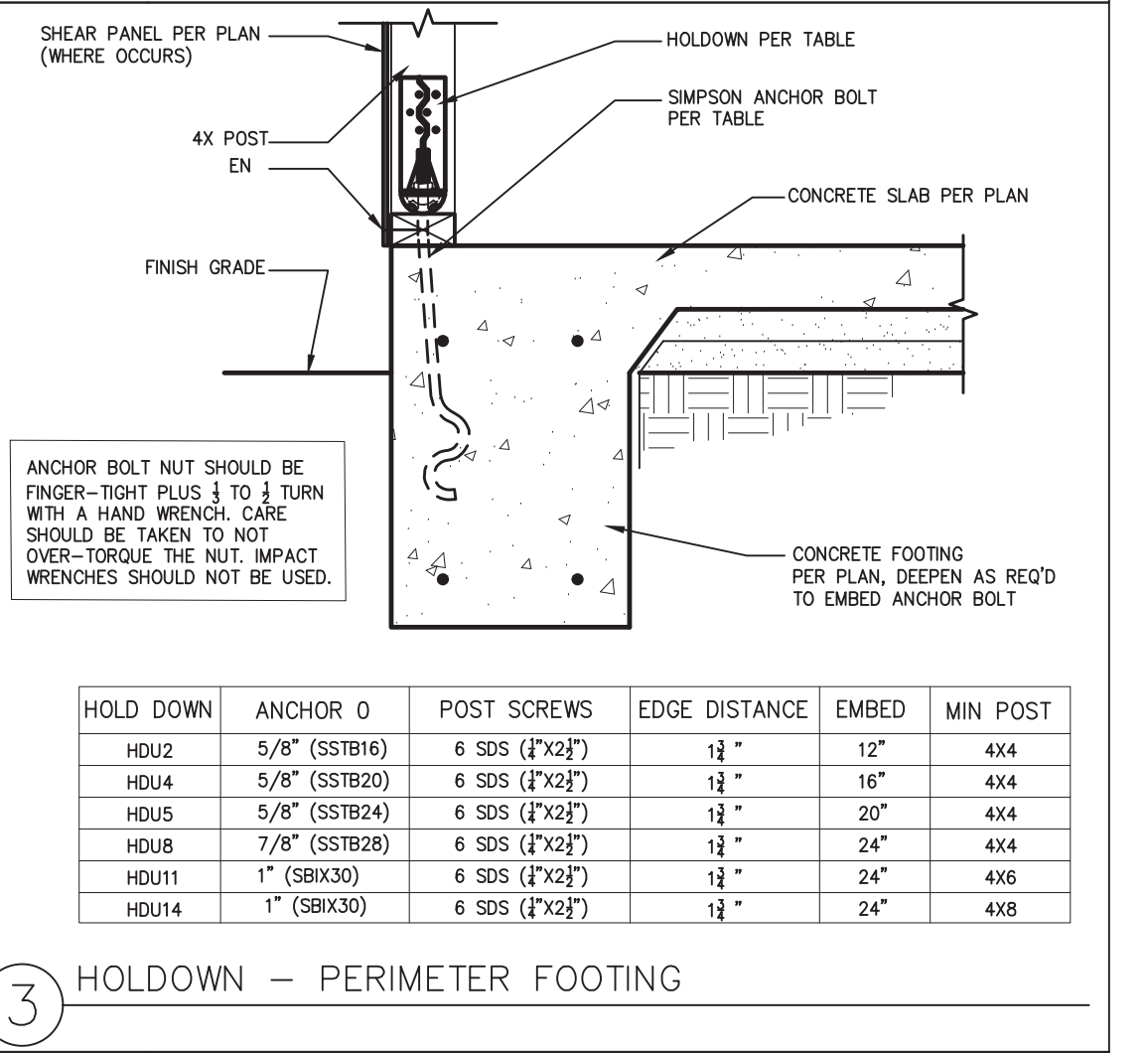
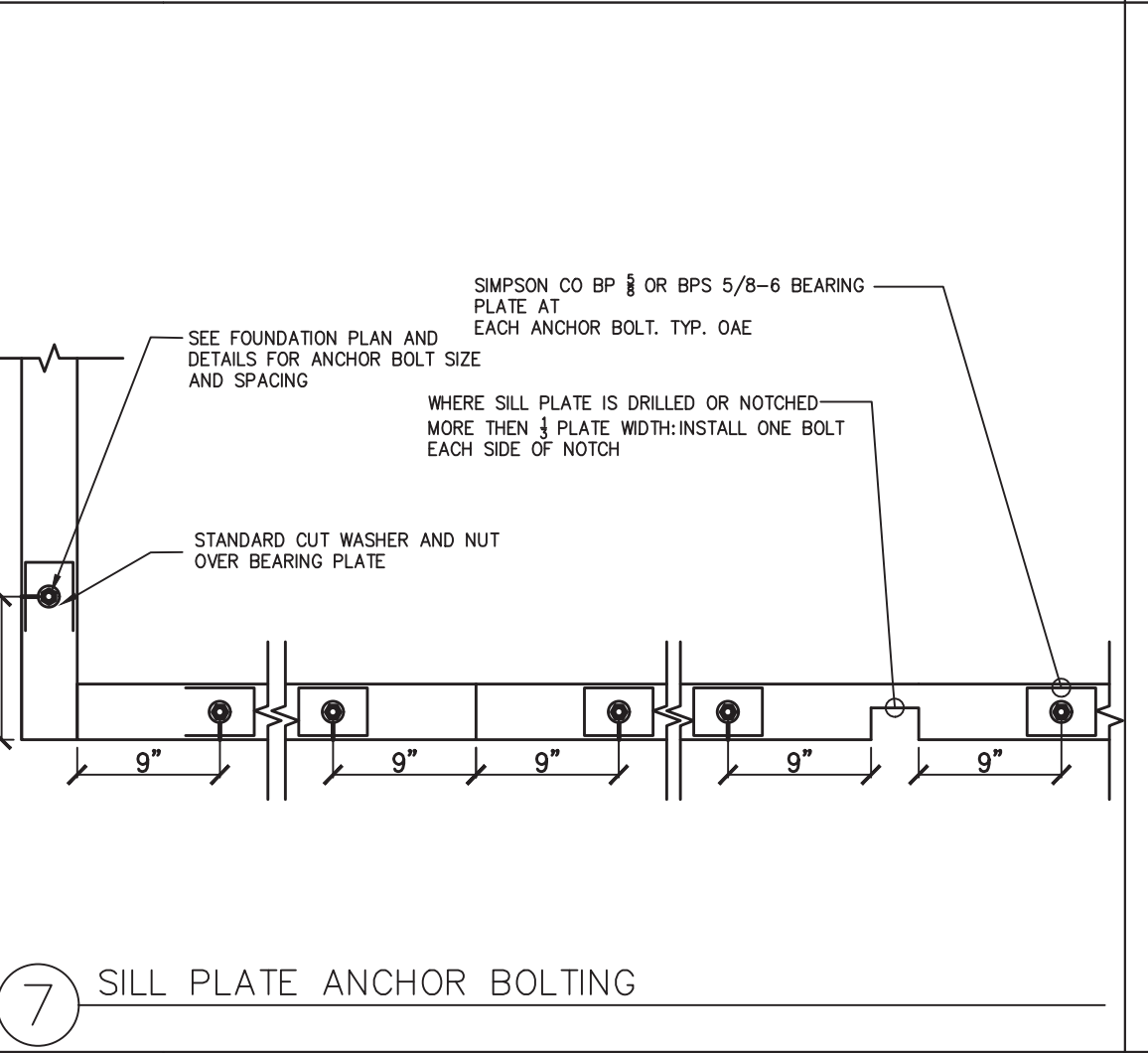
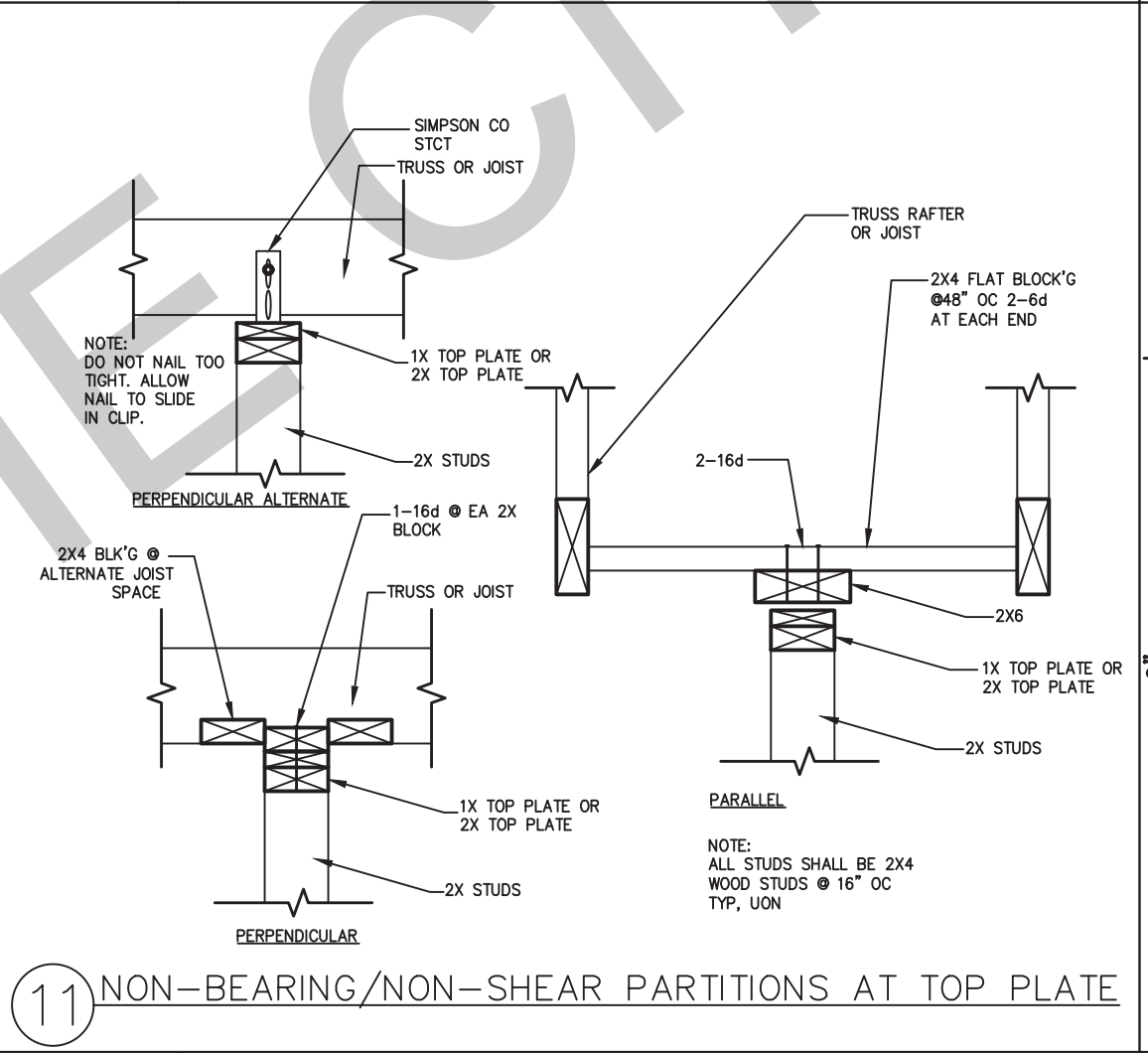
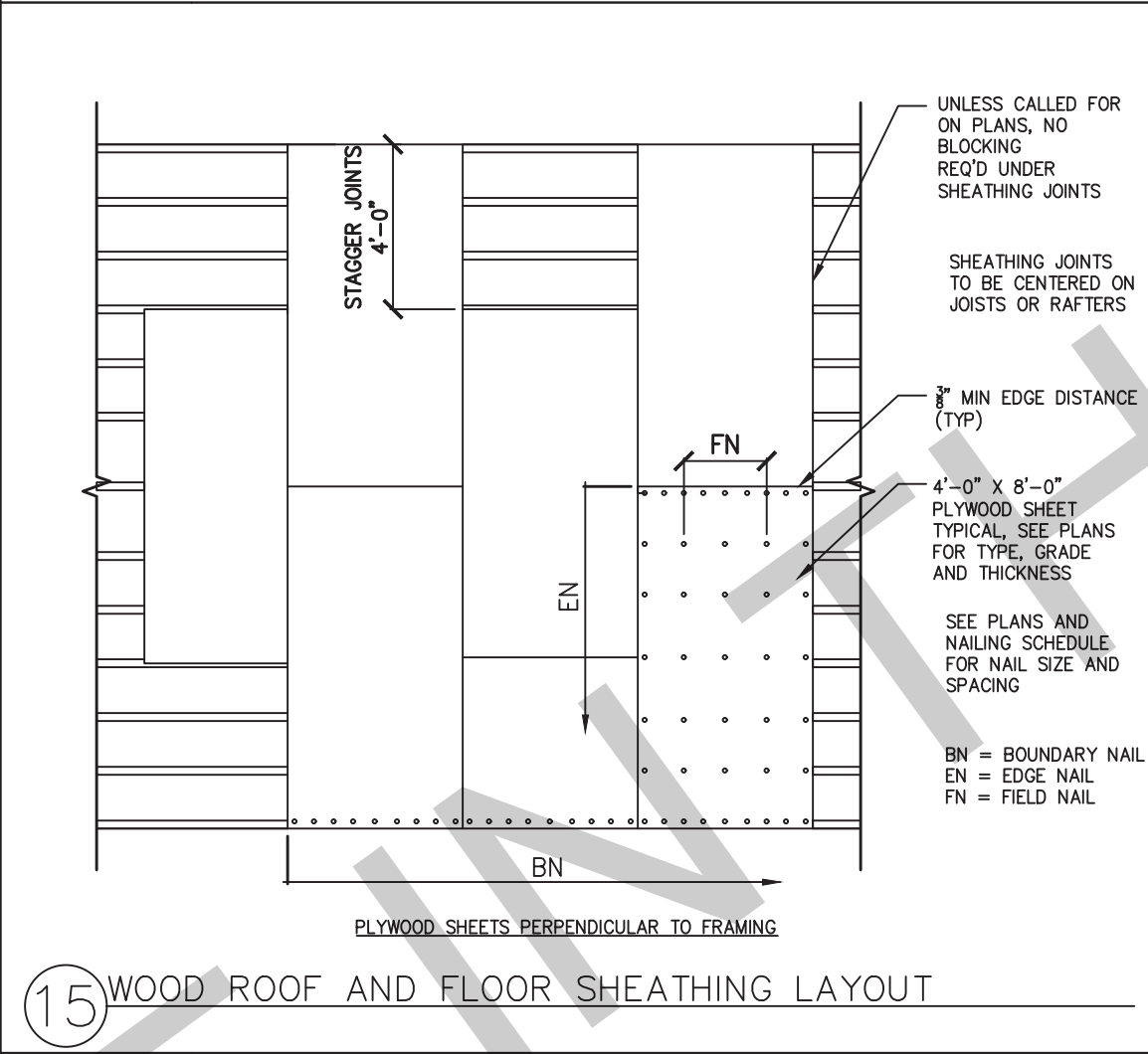
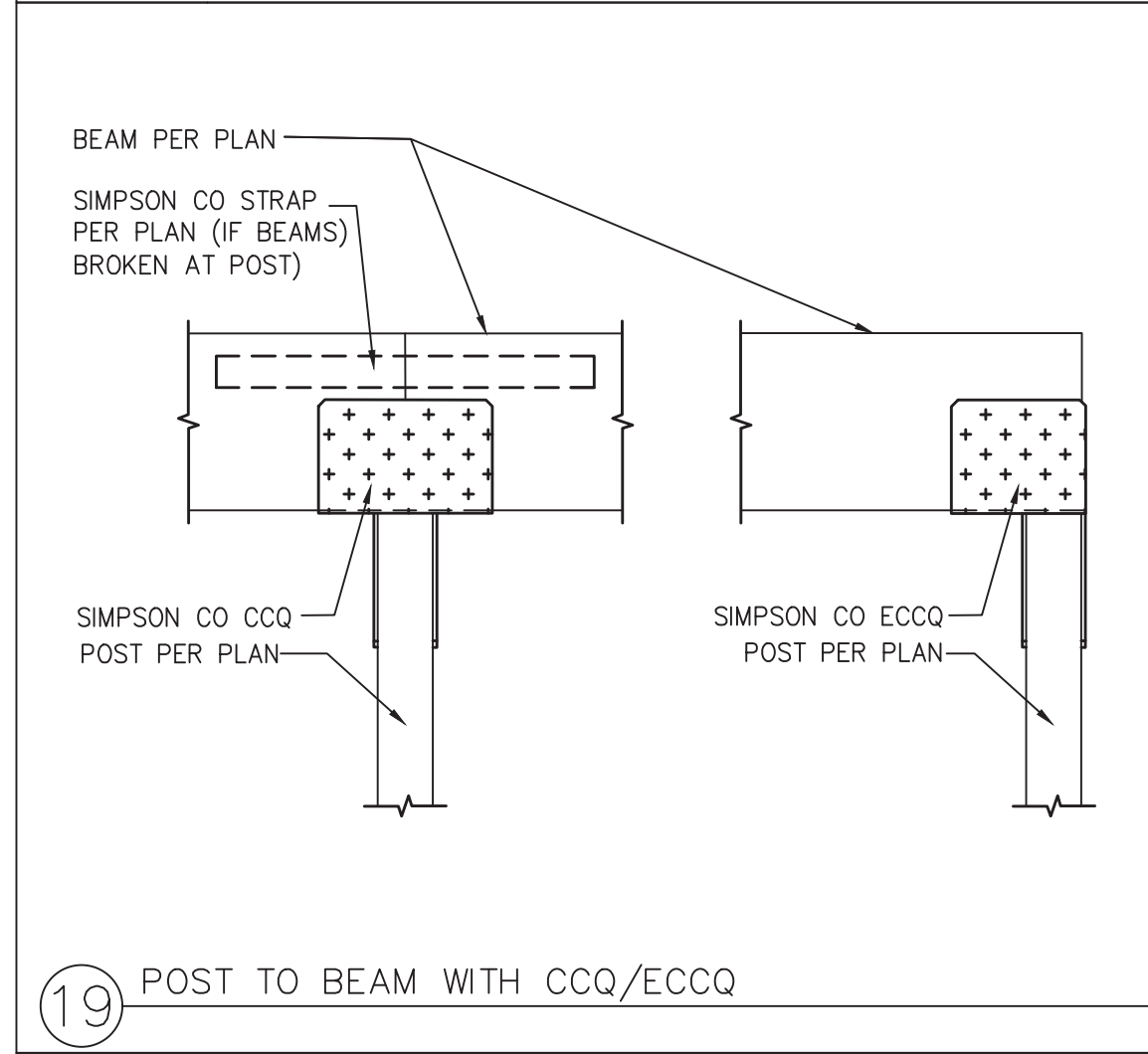
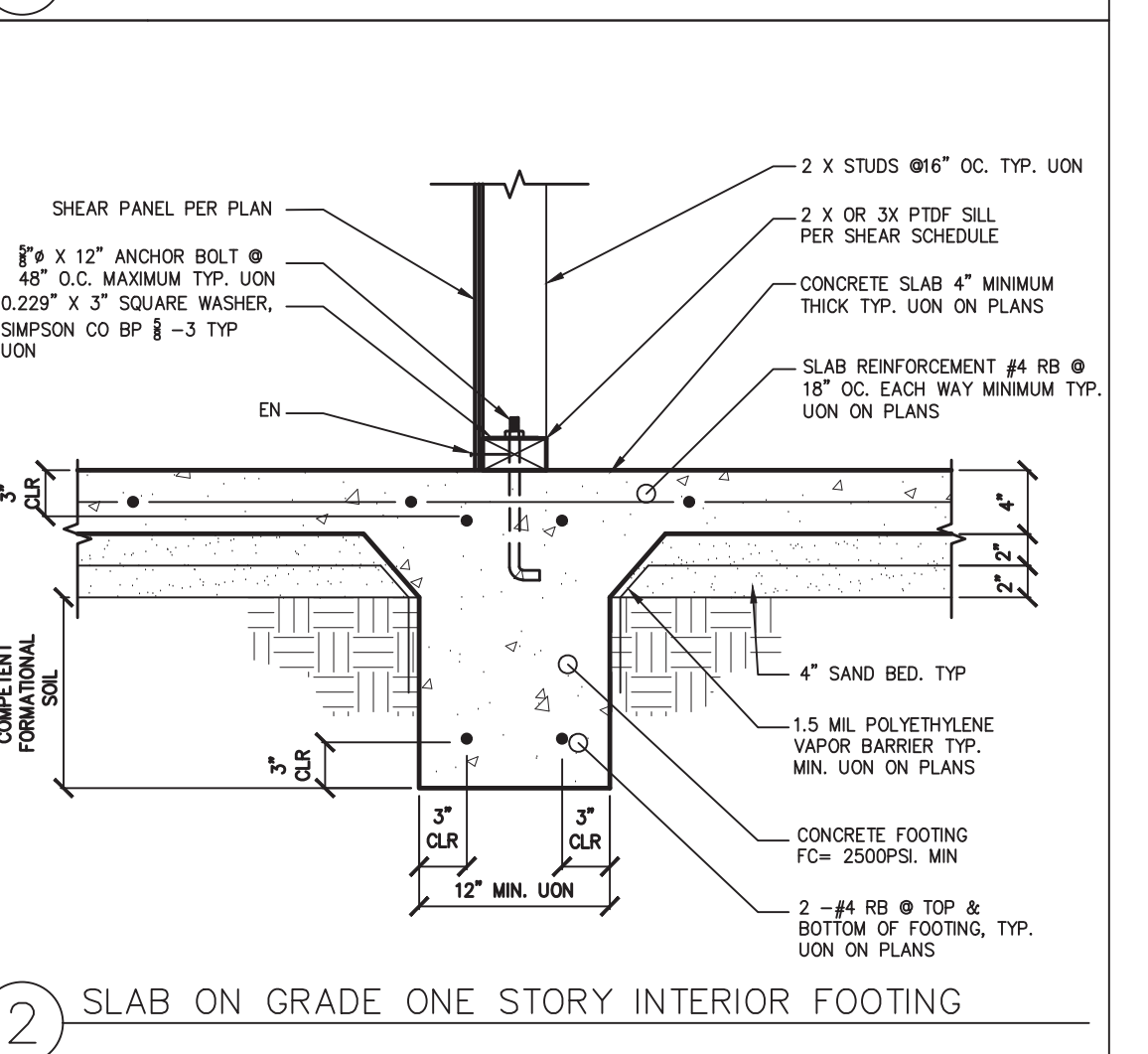
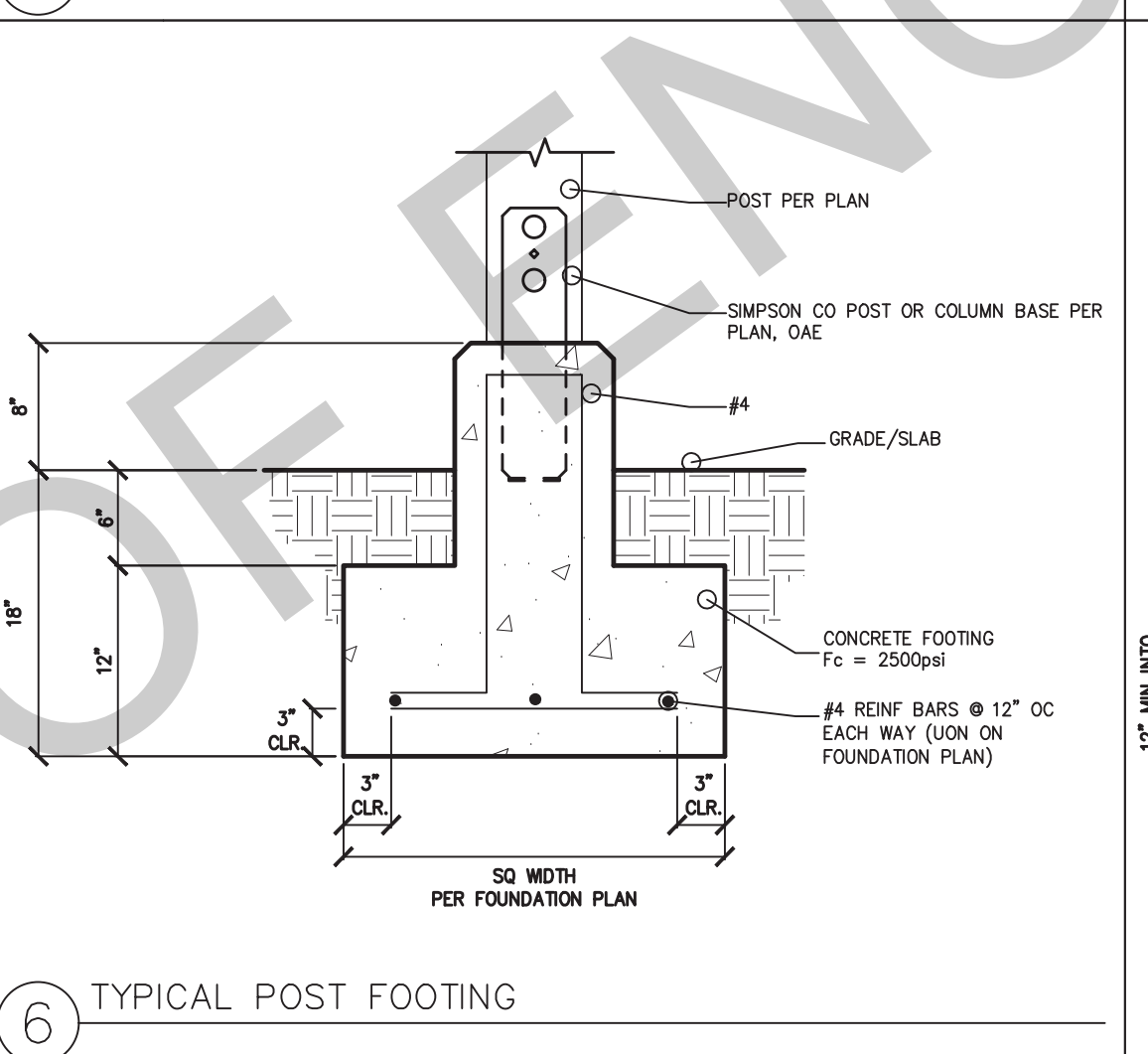
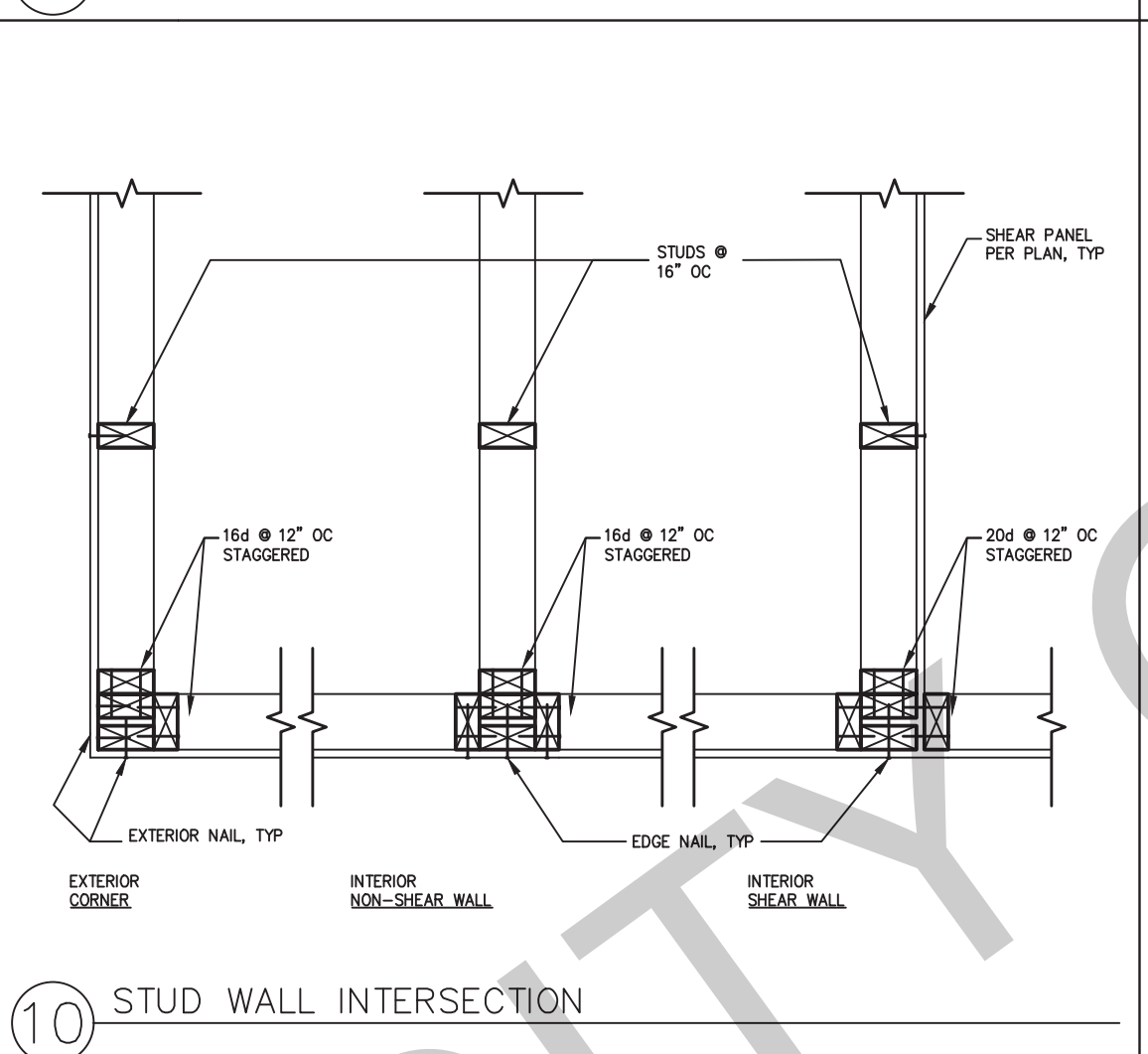
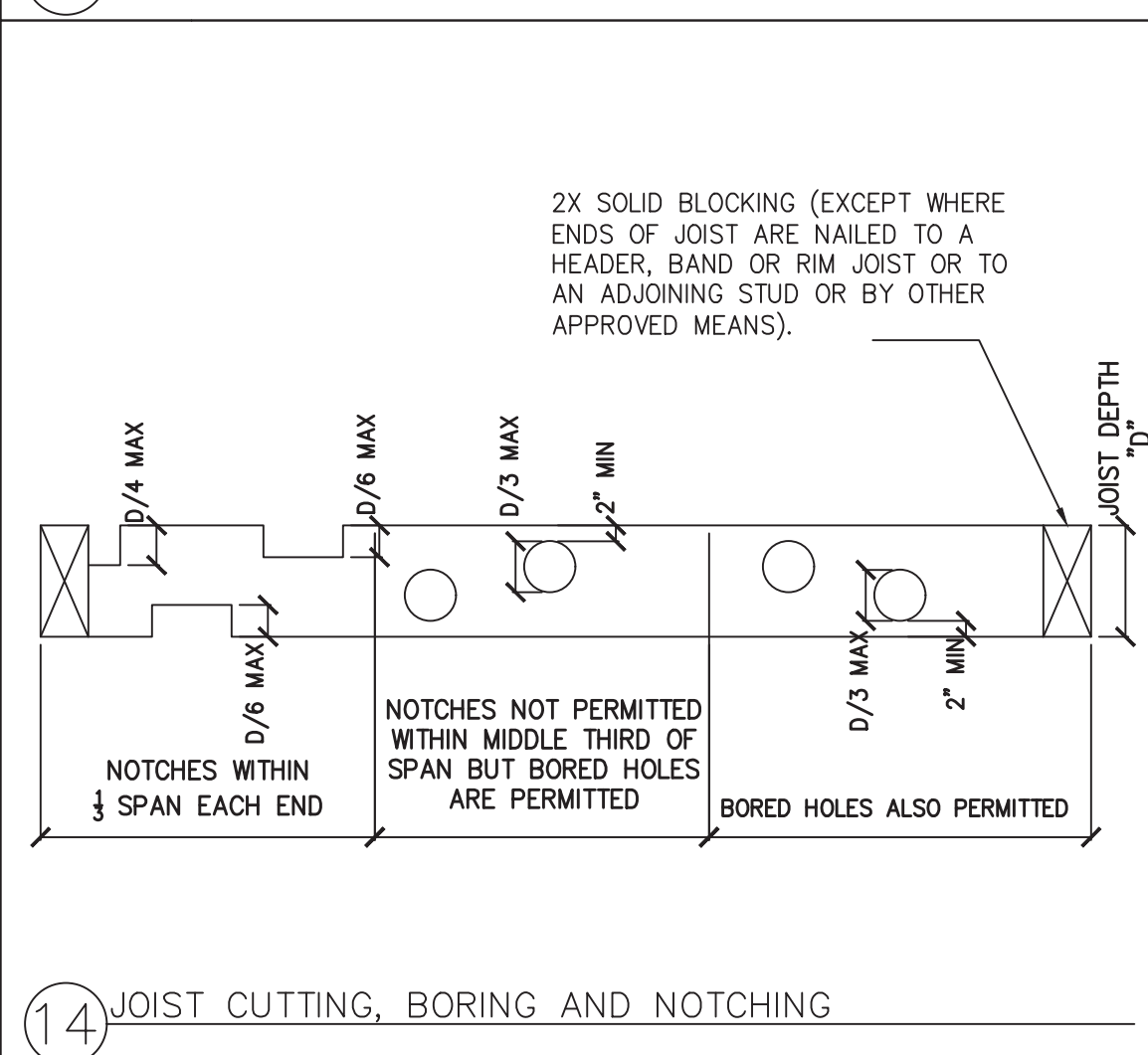
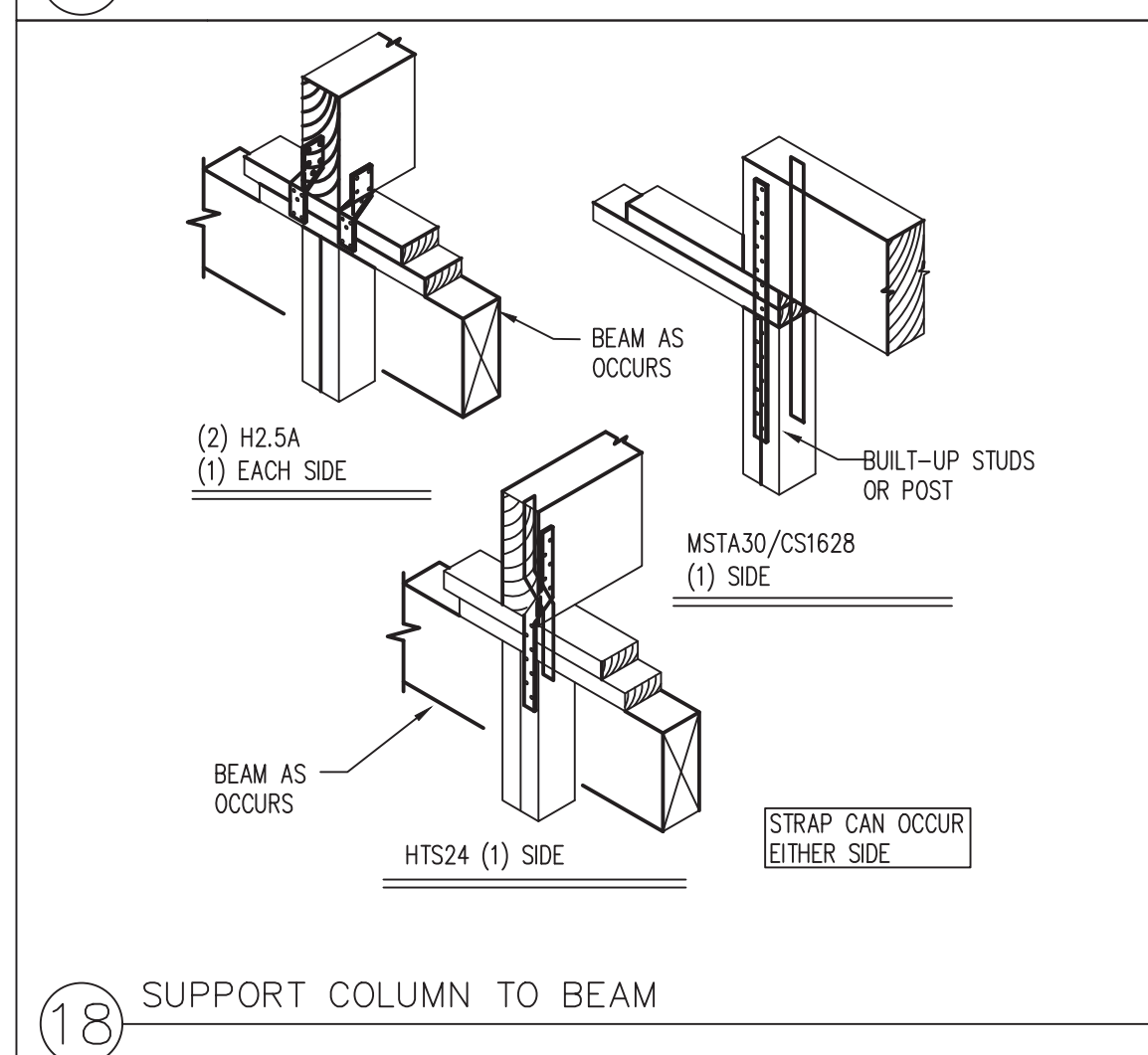
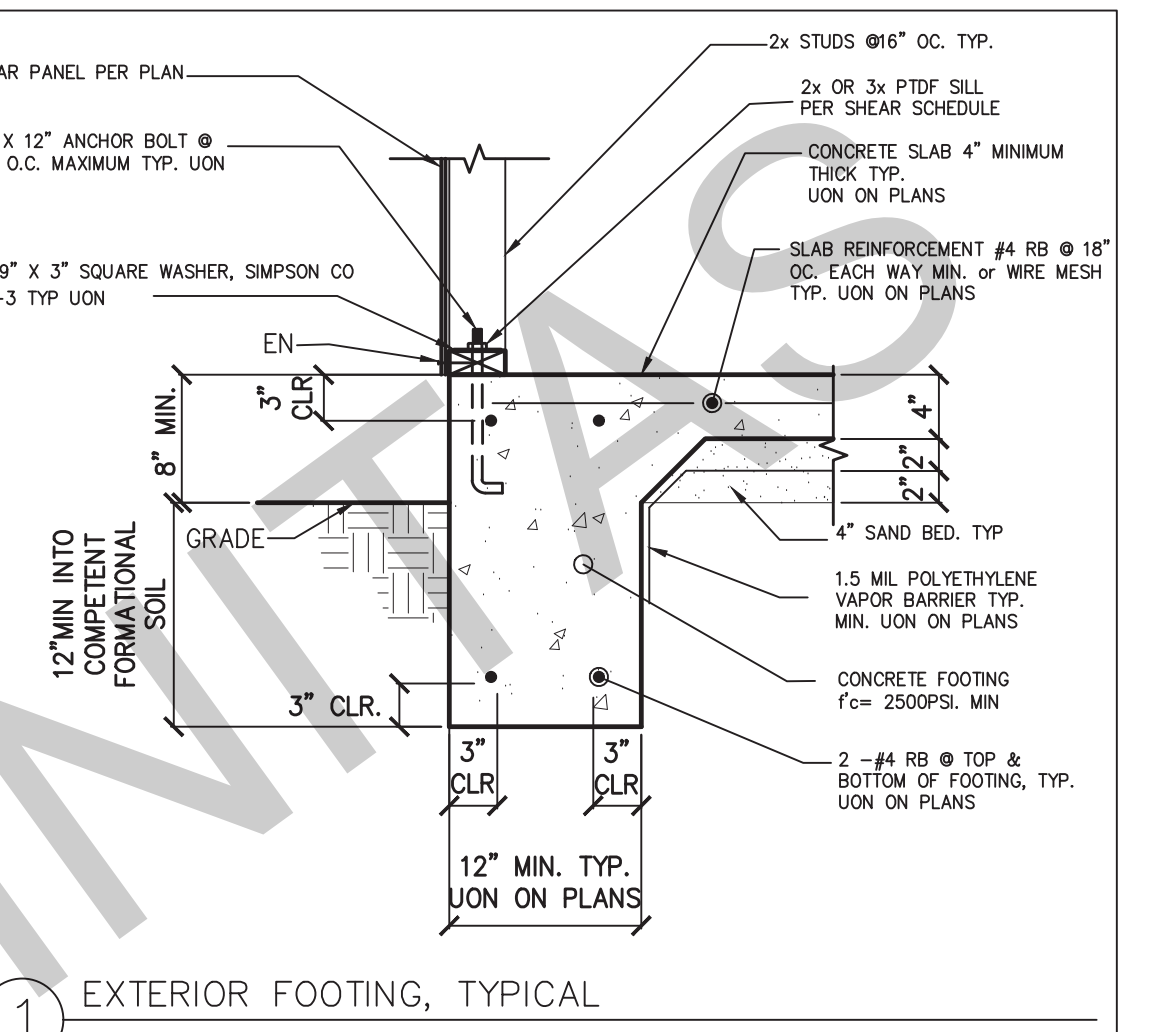
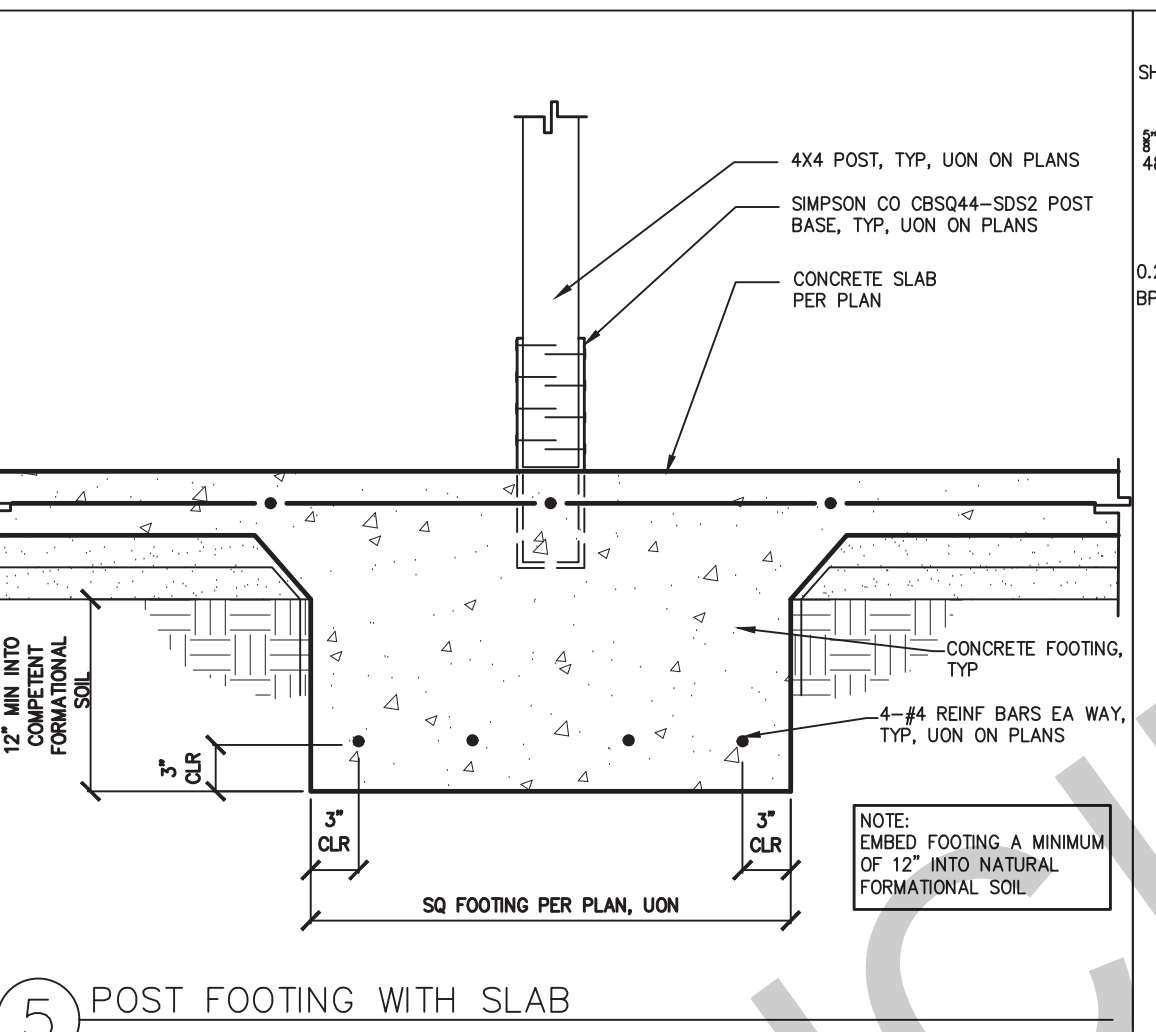
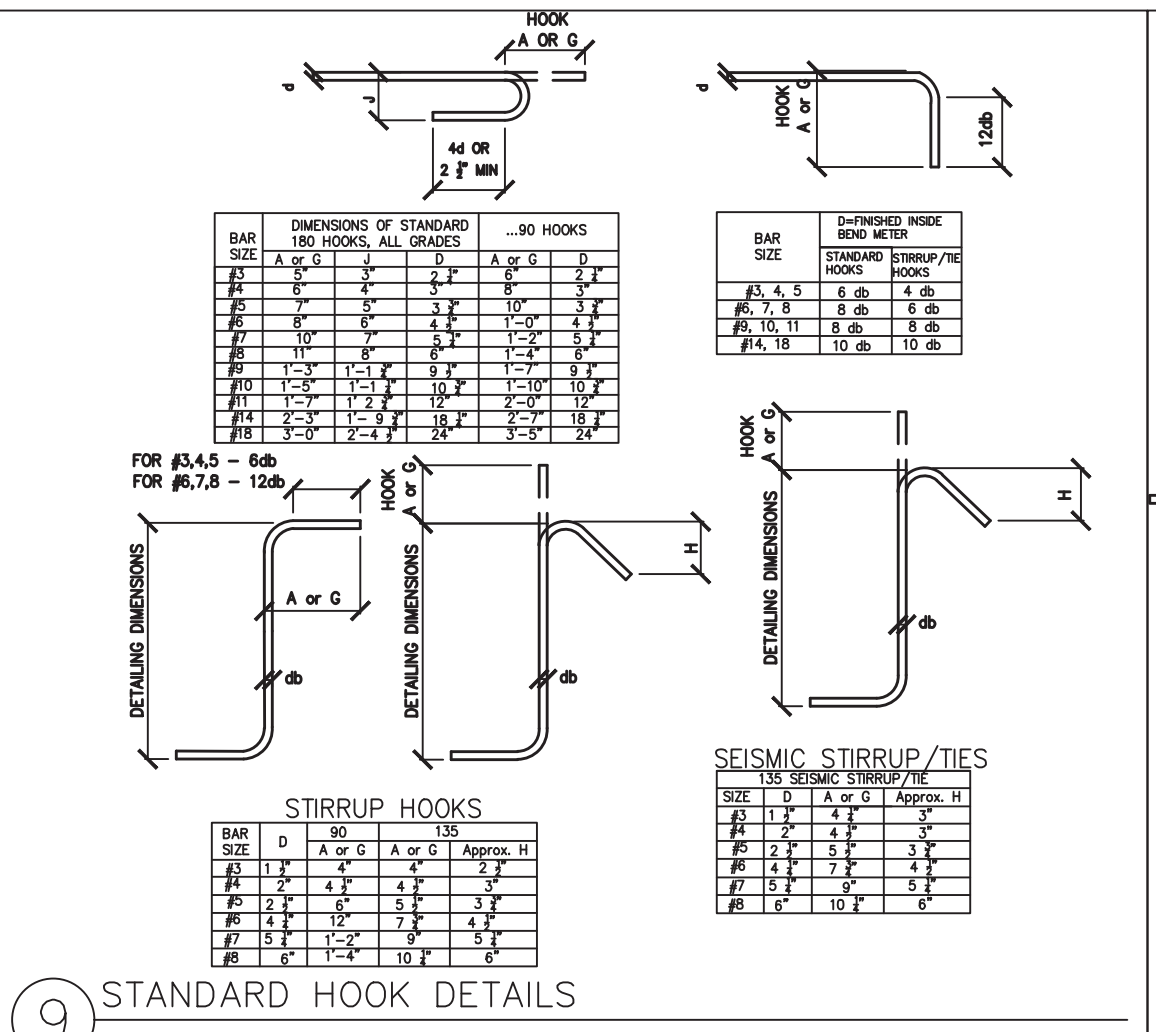
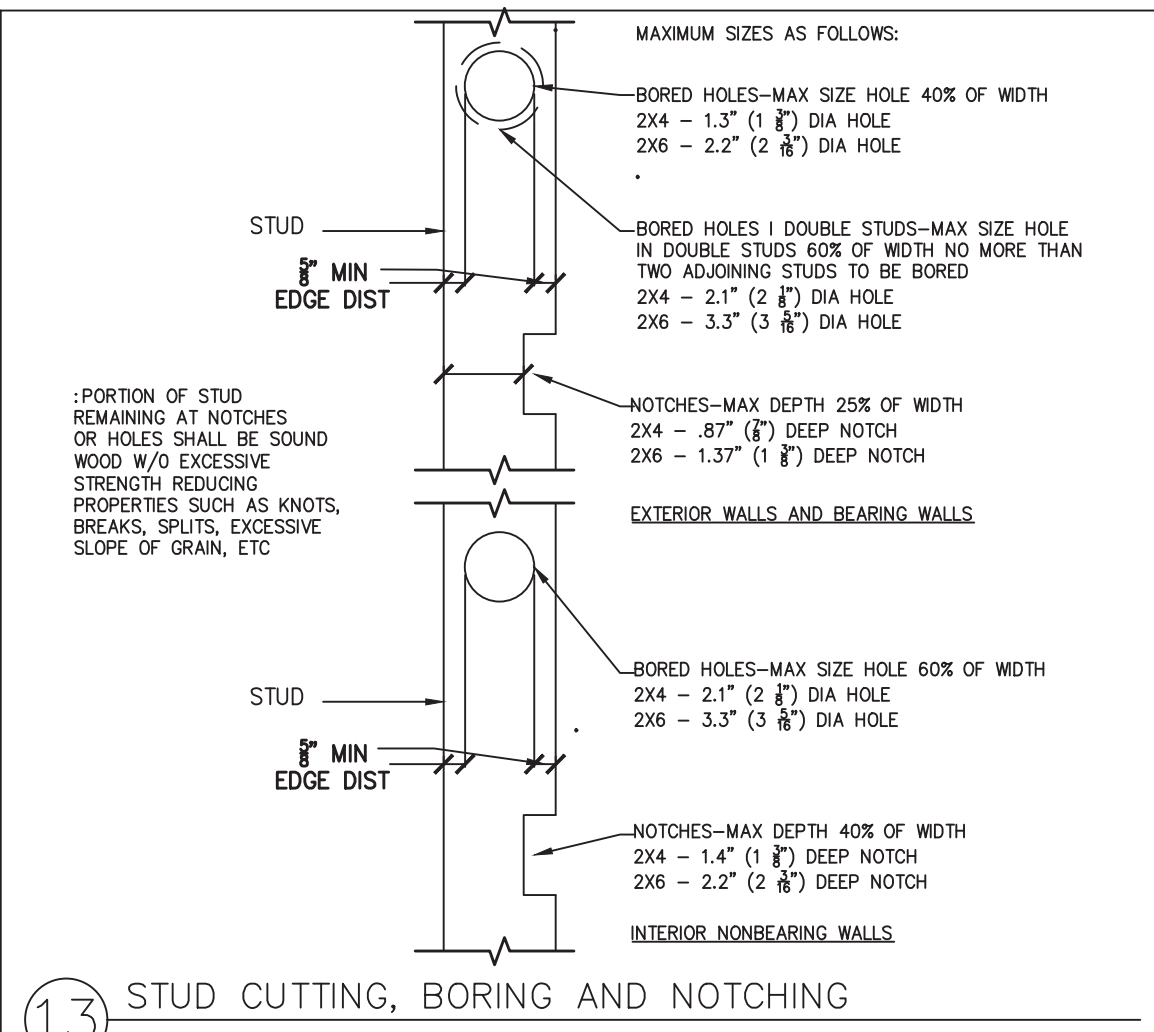
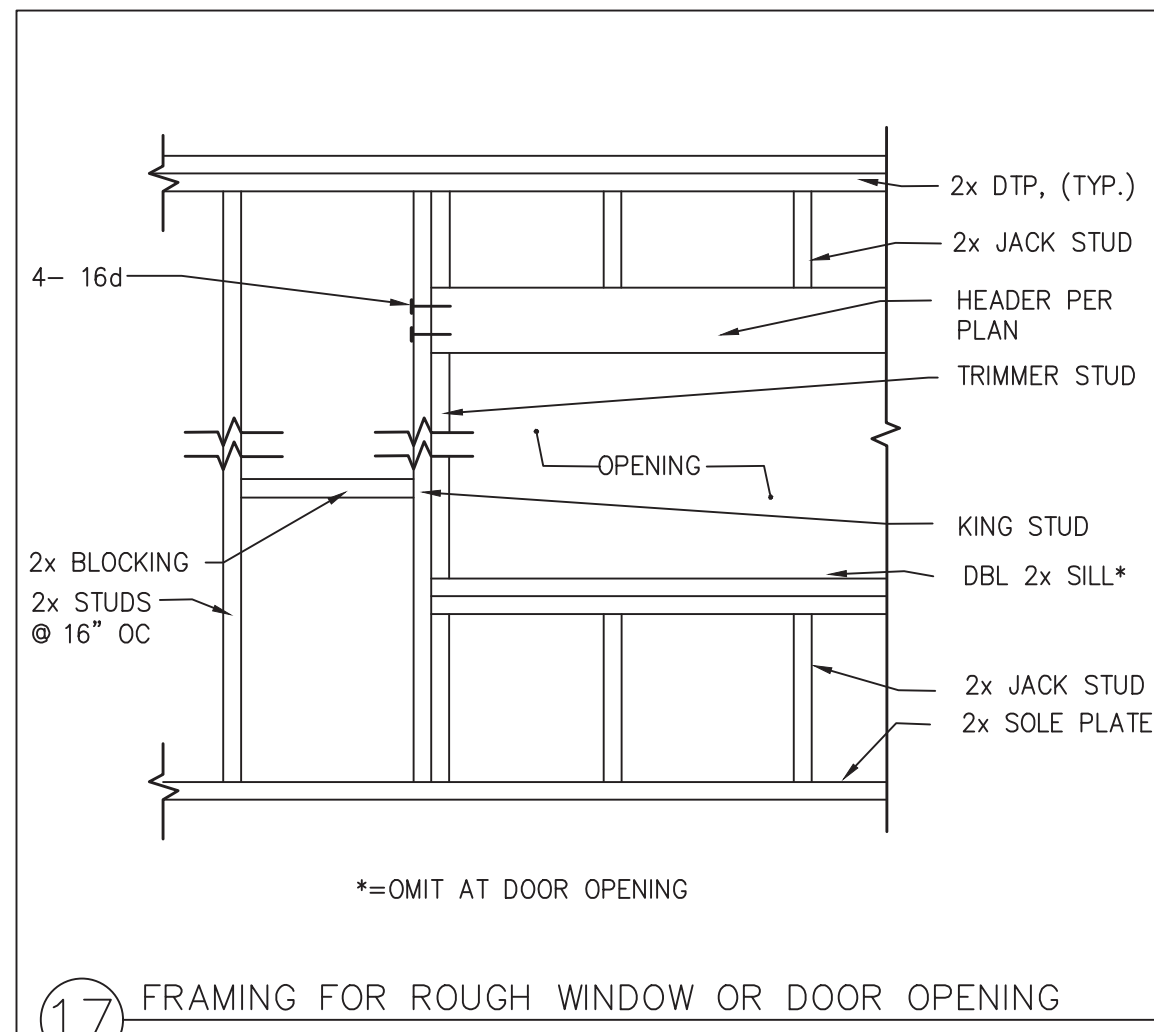
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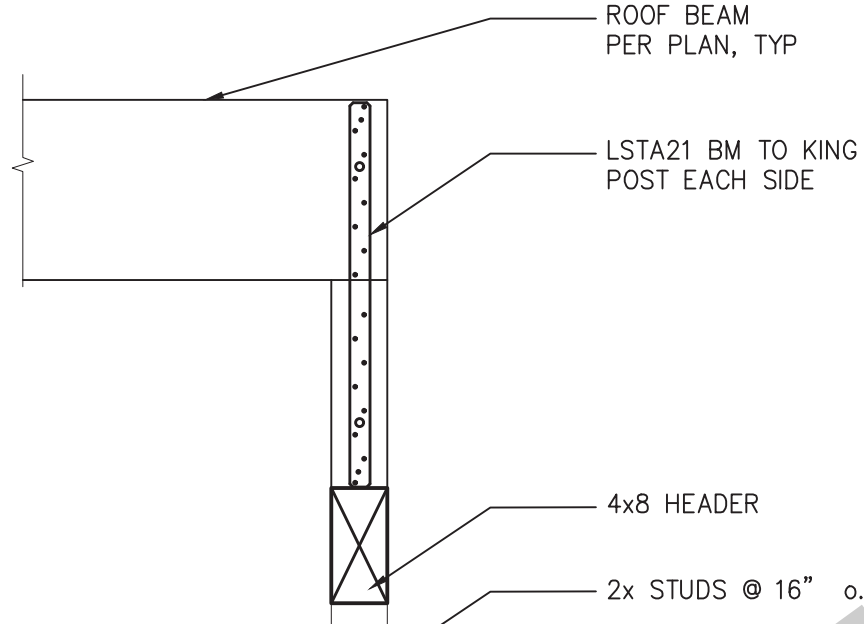
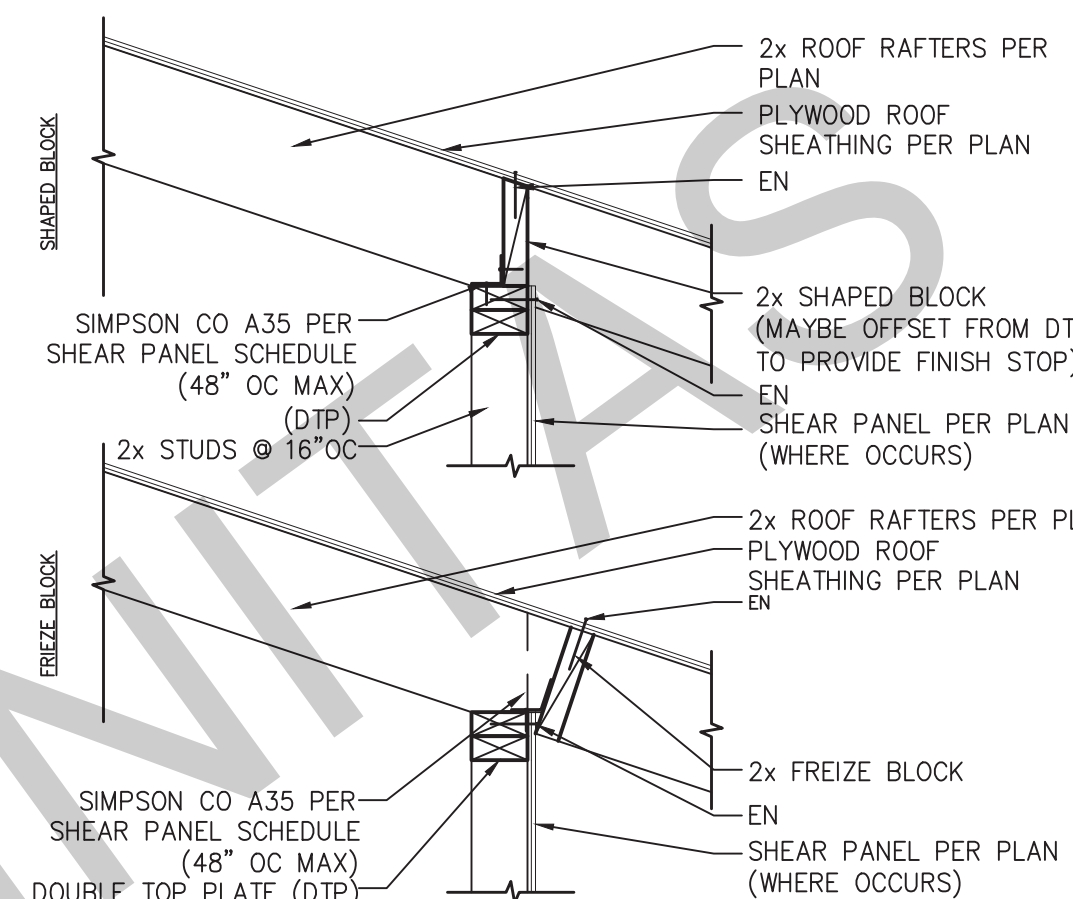
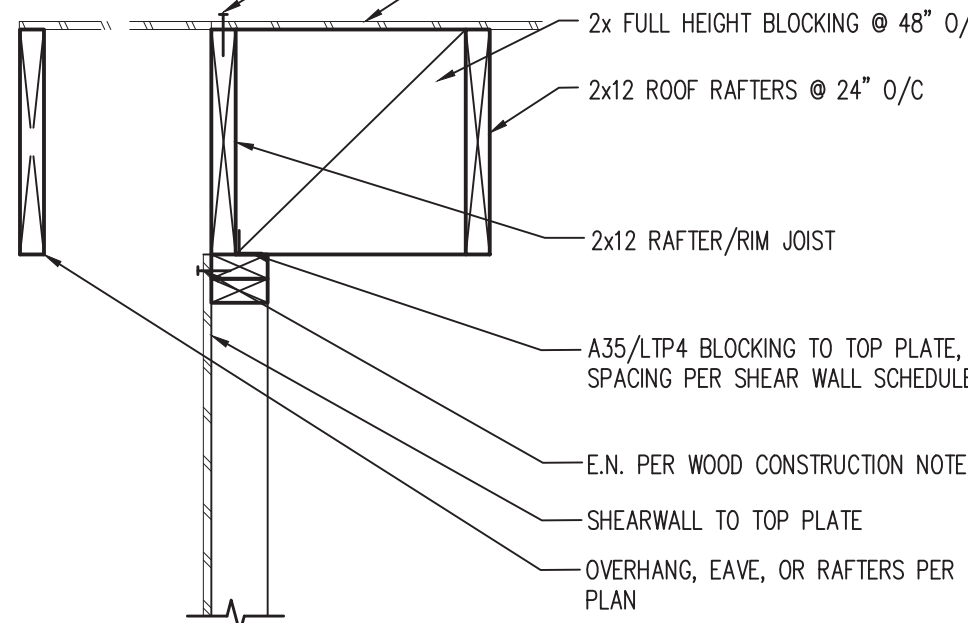
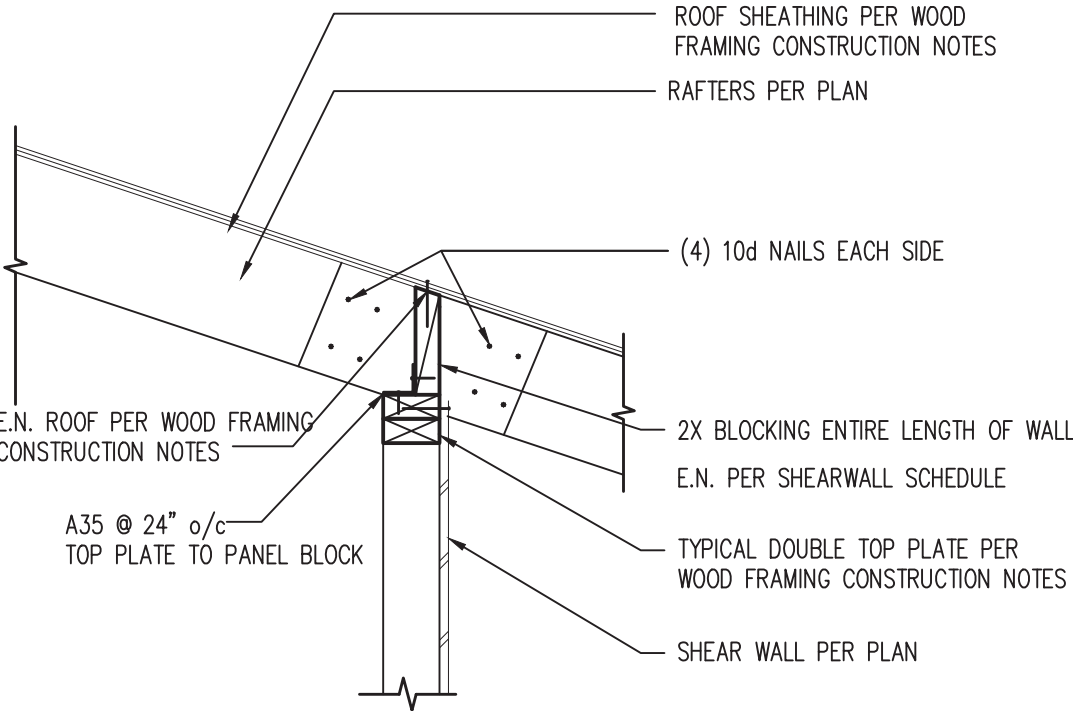
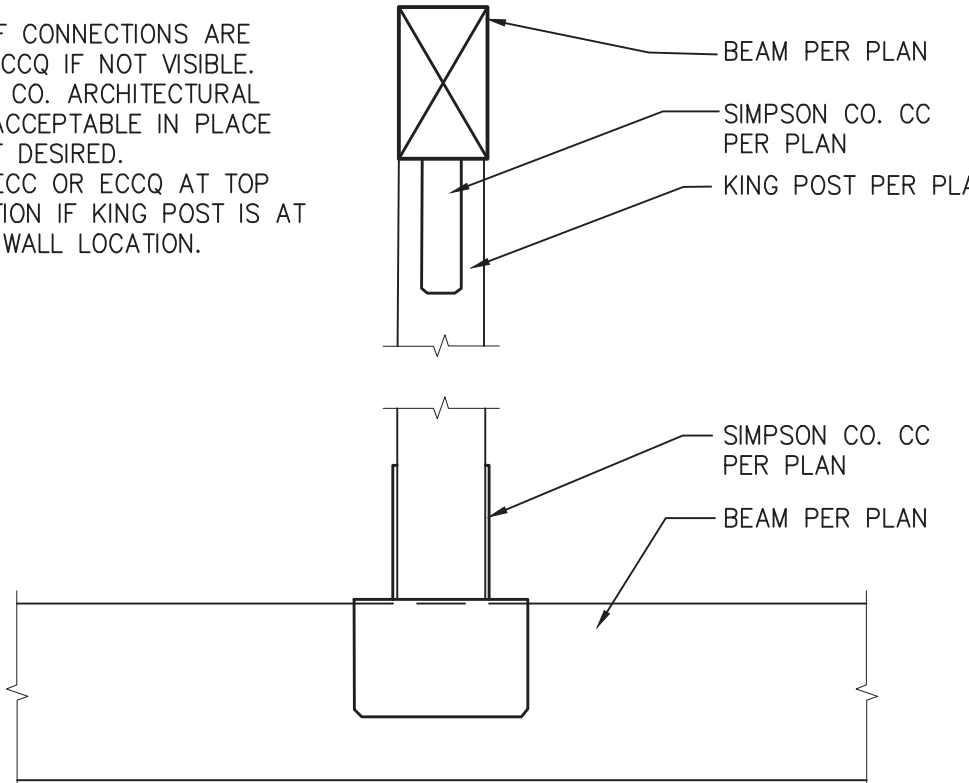
Structural details

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37	33	29	25  ROOF BEAM PER PLAN, TYP LSTA21 BM TO KING POST EACH SIDE 4x8 HEADER 2x STUDS @ 16" o.c. KING POST – OPTION B	21  2x ROOF RAFTERS PER PLAN PLYWOOD ROOF SHEATHING PER PLAN EN 2x SHAPED BLOCK (MAYBE OFFSET FROM DTP TO PROVIDE FINISH STOP) EN SHEAR PANEL PER PLAN (WHERE OCCURS) 2x STUDS @ 16"OC 2x ROOF RAFTERS PER PLAN PLYWOOD ROOF SHEATHING PER PLAN EN 2x FREEZE BLOCK EN SHEAR PANEL PER PLAN (WHERE OCCURS) SIMPSON CO A35 PER SHEAR PANEL SCHEDULE (48" OC MAX) (DTP) DOUBLE TOP PLATE (DTP) SHEAR TRANSFER AT EAVE
38	34	30	26  E.N. ROOF PER WOOD FRAMING CONSTRUCTION NOTES ROOF SHEATHING PER WOOD FRAMING CONSTRUCTION NOTES 2x FULL HEIGHT BLOCKING @ 48" O/C 2x12 ROOF RAFTERS @ 24" O/C 2x12 RAFTER/RIM JOIST A35/LTP4 BLOCKING TO TOP PLATE, SPACING PER SHEAR WALL SCHEDULE E.N. PER WOOD CONSTRUCTION NOTES SHEARWALL TO TOP PLATE OVERHANG, EAVE, OR RAFTERS PER PLAN PARALLEL RAFTERS AT SHEAR WALL	
39	35	31	27  ROOF SHEATHING PER WOOD FRAMING CONSTRUCTION NOTES RAFTERS PER PLAN (4) 10d NAILS EACH SIDE E.N. ROOF PER WOOD FRAMING CONSTRUCTION NOTES 2X BLOCKING ENTIRE LENGTH OF WALL E.N. PER SHEARWALL SCHEDULE TYPICAL DOUBLE TOP PLATE PER WOOD FRAMING CONSTRUCTION NOTES A35 @ 24" o/c TOP PLATE TO PANEL BLOCK SHEAR WALL PER PLAN SHEAR TRANSFER @ INT. BRG WALL AND RAFTER LAP DETAIL	
40	36	32	28 NOTES: 1. USE IF CONNECTIONS ARE VISIBLE. CCQ IF NOT VISIBLE. SIMPSON CO. ARCHITECTURAL SERIES ACCEPTABLE IN PLACE OF CC IF DESIRED. 2. USE ECC OR ECCQ AT TOP CONNECTION IF KING POST IS AT AN END WALL LOCATION.  BEAM PER PLAN SIMPSON CO. CC PER PLAN KING POST PER PLAN SIMPSON CO. CC PER PLAN BEAM PER PLAN KING POST	

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project

PRADU

City of Encinitas

revisions



description

Structural
Details

date

Month 20##

project no.

20##-xxxxxx

drawn by

xxx/xxx

sheet no.

S4

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project

PRADU

City of Encinitas

revisions

description

Energy Calculations

date ## Month 20##

project no. 20##_xxxxxx

drawn by xxx/xxx

sheet no. T24.1

BUILDING ENERGY ANALYSIS REPORT

PROJECT:

PRADU 2 Bed(2022)
City of Encinitas
Encinitas, CA 92024

Project Designer:

Design Path Studio
P.O. Box 230165
Encinitas, CA 92023
(760) 484-0253

Report Prepared by:

Design Path Studio

Encinitas, CA 92024

Job Number:

Date:

2/15/2023

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2019 Building Energy Efficiency Standards. This program developed by EnergySoft Software - www.energysoft.com

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: PRADU 2 Bed (2022)

Calculation Date/Time: 2023-02-14T15:19:58-08:00

CF1R-PRF-01-E (Page 1 of 12)

Calculation Description: Title 24 Analysis

Input File Name: PRADU-2Bed (2022).ribd22x

GENERAL INFORMATION

01	Project Name	PRADU 2 Bed (2022)		
02	Run Title	Title 24 Analysis		
03	Project Location	City of Encinitas		
04	City	05	Standards Version	
06	Zip code	07	Software Version	
08	Climate Zone	09	Front Orientation (deg/ Cardinal)	
10	Building Type	11	Number of Dwelling Units	
12	Project Scope	13	Number of Bedrooms	
14	Addition Cond. Floor Area (ft²)	15	Number of Stories	
16	Existing Cond. Floor Area (ft²)	17	Fenestration Average U-factor	
18	Total Cond. Floor Area (ft²)	19	Glazing Percentage (%)	
20	ADU Bedroom Count			

COMPLIANCE RESULTS

01	building Complies with Computer Performance
02	This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider.
03	This building incorporates one or more Special Features shown below

Registration Number: 223-P010018668A-000-000-0000000-0000
CA Building Energy Efficiency Standards - 2022 Residential Compliance
Registration Date/Time: 2023-02-14 15:27:23
Report Version: 2022.0.000
Schema Version: rev 20220901
HERS Provider: CalCERTS, Inc.
Report Generated: 2023-02-14 15:20:52

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: PRADU 2 Bed (2022)

Calculation Date/Time: 2023-02-14T15:19:58-08:00

CF1R-PRF-01-E (Page 4 of 12)

Calculation Description: Title 24 Analysis

Input File Name: PRADU-2Bed (2022).ribd22x

ENERGY USE SUMMARY

Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft² - yr)	Standard Design TDV Energy (EDR2) (kTDV/ft² - yr)	Proposed Design Source Energy (EDR1) (kBtu/ft² - yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft² - yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	0.07	0.31	0.85	6.29	-0.79	-5.98
Space Cooling	0.76	15.93	0.16	4.34	0.6	11.59
IAQ Ventilation	0.46	4.94	0.46	4.94	0	0
Water Heating	2.42	27.15	1.84	20.5	0.58	6.65
Self Utilization/Flexibility Credit			0			0
North Facing Efficiency Compliance Total	3.71	48.33	3.32	36.07	0.39	12.26
Space Heating	0.07	0.31	1.02	7.58	-0.95	-7.27
Space Cooling	0.76	15.93	0.13	3.56	0.63	12.37
IAQ Ventilation	0.46	4.94	0.46	4.94	0	0
Water Heating	2.42	27.15	1.85	20.55	0.57	6.6
Self Utilization/Flexibility Credit			0			0
West Facing Efficiency Compliance Total	3.71	48.33	3.46	36.63	0.25	11.7

Registration Number: 223-P010018668A-000-000-0000000-0000
CA Building Energy Efficiency Standards - 2022 Residential Compliance
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Calculation Date/Time: 2023-02-14T15:19:58-08:00

CF1R-PRF-01-E (Page 7 of 12)

Calculation Description: Title 24 Analysis

Input File Name: PRADU-2Bed (2022).ribd22x

ZONE INFORMATION

01	02	03	04	05	06	07
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft²)	Avg. Ceiling Height	Water Heating System 1	Status
ADU - 2 Bed	Conditioned	Minisplit ADU-2 Bed1	745	8.9	DHW Sys 1	New

OPAQUE SURFACES

01	02	03	04	05	06	07	08
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft²)	Window and Door Area (ft2)	TIR (deg)
Front Wall ADU- 2 Bed	ADU - 2 Bed	R-15 Wall	0	Front	271	50.02	90
Right Wall ADU- 2 Bed	ADU - 2 Bed	R-15 Wall	270	Right	240	25	90
Back Wall ADU- 2 Bed	ADU - 2 Bed	R-15 Wall	180	Back	221	0	90
Left Wall ADU- 2 Bed	ADU - 2 Bed	R-15 Wall	90	Left	240	48	90

OPAQUE SURFACES - CATHEDRAL CEILINGS

01	02	03	04	05	06	07	08	09	10	11
Name	Zone	Construction	Azimuth	Orientation	Area (ft²)	Skylight Area (ft²)	Roof Rise (x in 12)	Roof Reflectance	Roof Emittance	Cool Roof
Roof (cath) ADU- 2 Bed	ADU - 2 Bed	R-30 Roof No Attic	0	Front	745	0	0.8	0.1	0.85	No

FENESTRATION / GLAZING

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
Window #E	Window	Front Wall ADU- 2 Bed	Front	0	2.5	4	1	10	0.3	NFRC	0.23	NFRC	Bug Screen
SI Door #1	Window	Front Wall ADU- 2 Bed	Front	0	6	6.67	1	40.02	0.3	NFRC	0.23	NFRC	Bug Screen

Registration Number: 223-P010018668A-000-000-0000000-0000
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CF1R-PRF-01-E (Page 2 of 12)

Calculation Description: Title 24 Analysis

Input File Name: PRADU-2Bed (2022).ribd22x

ENERGY DESIGN RATINGS

	Energy Design Ratings			Compliance Margins		
	Source Energy (EDR1)	Efficiency ¹ EDR (EDR2efficiency)	Total ² EDR (EDR2total)	Source Energy (EDR1)	Efficiency ¹ EDR (EDR2efficiency)	Total ² EDR (EDR2total)
Standard Design	36.7	46.7	36.4			
Proposed Design						
North Facing	36.1	36	32.2	0.6	10.7	4.2
East Facing	35.5	34.3	31.6	1.2	12.4	4.8
South Facing	35.5	34.9	31.8	1.2	11.8	4.6
West Facing	35.8	35.4	32	0.9	11.3	4.4
RESULT: PASS						

¹Efficiency EDR includes improvements like a better building envelope and more efficient equipment
²Total EDR includes efficiency and demand response measures such as photovoltaic (PV) system and batteries
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

- Standard Design PV Capacity: 1.98 kWdc
- Proposed PV Capacity Sizing: North (1.98 kWdc) East (1.98 kWdc) South (1.98 kWdc) West (1.98 kWdc)

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CF1R-PRF-01-E (Page 5 of 12)

Calculation Description: Title 24 Analysis

Input File Name: PRADU-2Bed (2022).ribd22x

ENERGY USE INTENSITY

	Standard Design (kBtu/ft² - yr)	Proposed Design (kBtu/ft² - yr)	Compliance Margin (kBtu/ft² - yr)	Margin Percentage
North Facing				
Gross EU1 ¹	22.58	21.69	0.89	3.94
Net EU1 ²	8.26	7.38	0.88	10.65
East Facing				
Gross EU1 ¹	22.58	21.49	1.09	4.83
Net EU1 ²	8.26	7.17	1.09	13.2
South Facing				
Gross EU1 ¹	22.58	21.51	1.07	4.74
Net EU1 ²	8.26	7.19	1.07	12.95
West Facing				
Gross EU1 ¹	22.58	21.62	0.96	4.25
Net EU1 ²	8.26	7.3	0.96	11.62

Notes

- Gross EU1 is Energy Use Total (not including PV) / Total Building Area.
- Net EU1 is Energy Use Total (including PV) / Total Building Area.

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CF1R-PRF-01-E (Page 8 of 12)

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Input File Name: PRADU-2Bed (2022).ribd22x

FENESTRATION / GLAZING

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
Window #A	Window	Right Wall ADU- 2 Bed	Right	270			1	12	0.3	NFRC	0.23	NFRC	Bug Screen
Window #D	Window	Right Wall ADU- 2 Bed	Right	270			1	9	0.3	NFRC	0.23	NFRC	Bug Screen
Window #B	Window	Right Wall ADU- 2 Bed	Right	270			1	4	0.3	NFRC	0.23	NFRC	Bug Screen
Window #C	Window	Left Wall ADU- 2 Bed	Left	90			1	48	0.3	NFRC	0.23	NFRC	Bug Screen

OVERHANGS AND FINS

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Window	Overhang				Flap Extent	Left Fin				Right Fin			
	Depth	Dist Up	Left Extent	Right Extent		Flap Ht.	Depth	Top Up	Dist L	Bot Up	Depth	Top Up	Dist R
Window #E	5.25	3.17	2	2	0	0	0	0	0	0	0	0	0
SI Door #1	5.25	3.17	2	2	0	0	0	0	0	0	0	0	0

SLAB FLOORS

01	02	03	04	05	06	07	08
Name	Zone	Area (ft²)	Perimeter (ft)	Edge Insul. R-value and Depth	Edge Insul. R-value and Depth	Carpeted Fraction	Heated
Slab-on-Grade ADU-2 Bed	ADU - 2 Bed	745	109	none	0	0%	No

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project

PRADU
City of Encinitas

revisions



description

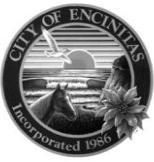
Energy
Calculations

date ## Month 20##

project no. 20##-xxxxxx

drawn by xxx/xxx

sheet no. T24.3



CITY OF ENCINITAS
Development Services Department
505 S. Vulcan Ave
Encinitas, CA 92024
www.encinitasca.gov
Phone: 760-633-2710
Email: planning@encinitasca.gov

PRADU SUPPLEMENTAL REQUIREMENTS

The following adjustments shall be made to the Encinitas PRADUs plans effective July 1, 2024. Please imprint this page on your plans.

Newly constructed ADUs shall comply with the following, as per CRC, Sec. [R327.1.1](#) thru [R327.1.4](#).

R327.1.1 Reinforcement for Grab Bars:

At least one bathroom on the [entry level](#) shall be provided with reinforcement as per this section.

1. Reinforcement shall be [solid](#) lumber or other equal, as [approved](#) by the AHJ.
2. Reinf. shall not be less than 2" x 8" nominal lumber. [$1\frac{1}{2}$ " x $7\frac{1}{4}$ " actual dimension] or similar. Reinf. shall be located between 32" & $39\frac{1}{4}$ " above the finished floor flush with the wall framing.
3. Water [closet](#) reinf. shall be installed on both side [walls](#) of the fixture, or a side wall & back wall.
4. Shower reinforcement shall be continuous where wall framing is provided.
5. Bathtub and combination tub/shower reinf. shall be continuous on each end of the tub and the back wall. Also, back wall reinf. for a lower grab bar shall be provided with the bottom edge located no more than 6" above the bathtub rim.

Exceptions:

6. Where the water [closet](#) is not placed adjacent to a side wall capable of accommodating a grab bar, the bathroom shall have provisions for installation of floor-mounted, foldaway or similar alternate grab bar reinf. [approved](#) by the AHJ.
7. Reinf. shall not be required in wall framing for prefabricated shower enclosures and tub wall panels with factory- installed grab bars.
8. Shower enclosures that do not [permit](#) installation of reinf. &/or grab bars shall be permitted, if reinf. for installation of floor-mounted grab bars or another method is approved by the AHJ.
9. Bathtubs with no surrounding [walls](#), or where wall panels do not [permit](#) the installation of reinf. shall be permitted, provided reinf. for installation of floor-mounted grab bars adjacent to the bathtub or an alternate method is [approved](#) by the AHJ.
10. Reinf. of floors shall not be required for bathtubs & W/C installed on [concrete](#) slab floors.

R327.1.1.1 Documentation for Grab Bar Reinforcement:

Info. on the location of grab bar reinf. shall be placed in the operation and maintenance manual as per the Ca Green Bldg. Code, [Ch 4](#), Div. 4.4.

R327.1.2 Electrical Receptacle Outlet, Switch and Control Heights:

Electrical receptacle, switches & controls (i.e., for heating & A/C shall be located no more than 48" to the top of the outlet box & not less than 15" from the bottom of the outlet box above the [finish](#) floor.

Exceptions:

11. Dedicated receptacle outlets, floor receptacle outlets, controls mounted on ceiling fans, ceiling lights & controls located on appliances.
12. Receptacle outlets required by the Ca Elect. Code on a wall space where the distance between the finished floor & a built-in feature above the [finish](#) floor, such as a window, is less than 15".

R327.1.3 Interior Doors:

Effective July 1, 2024, at least one bedroom & bath on the [entry level](#) shall provide a doorway with a net clear opening of not less than 32", measured with the door positioned at an angle of 90-degrees from the closed position.

R327.1.4 Doorbell Buttons:

Doorbell buttons or controls, when installed, shall not exceed 48" above exterior floor or landing, measured from the top of the doorbell button assembly.