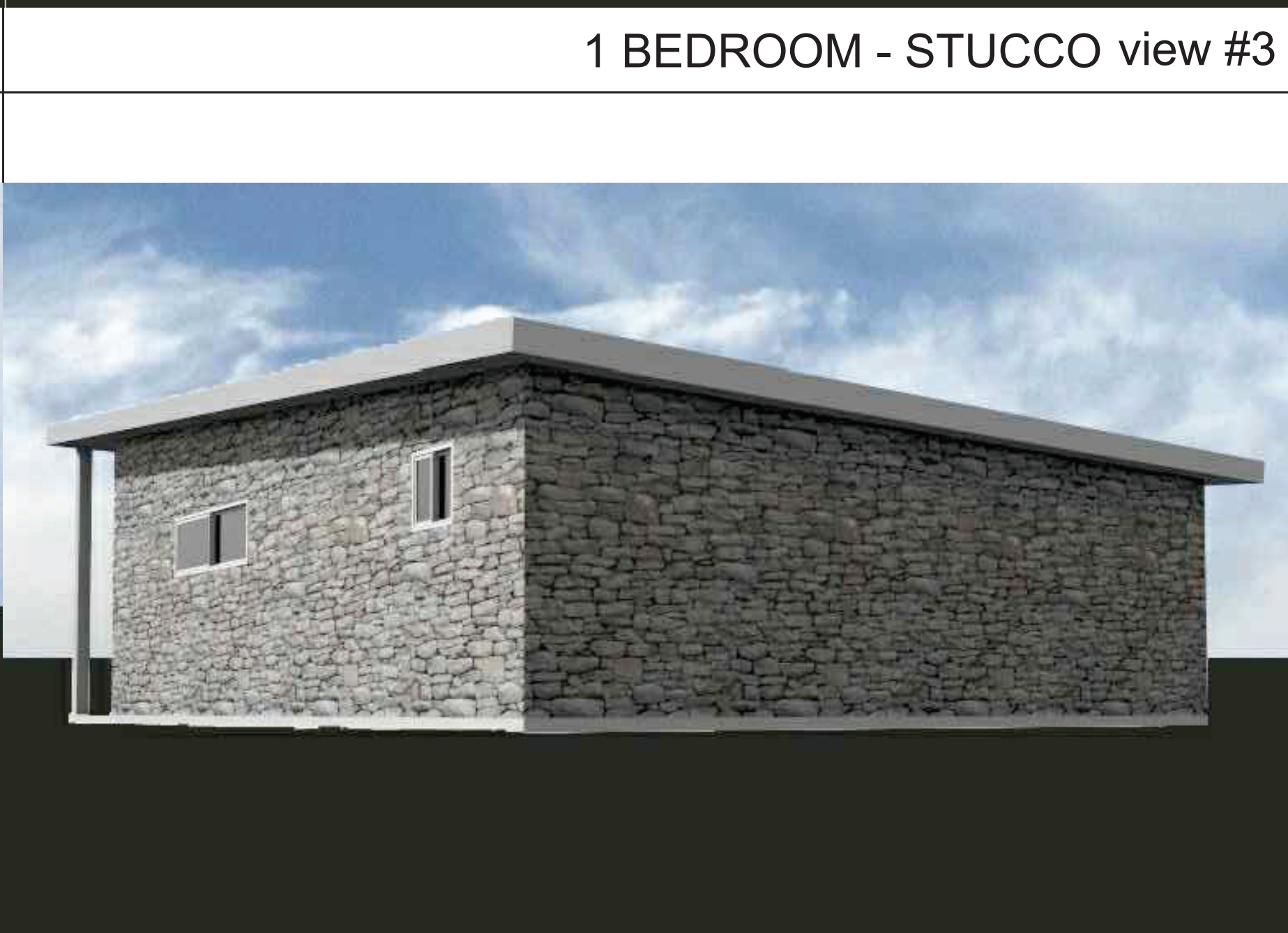


[illegible]

		
1 BEDROOM - SIDING view #1	1 BEDROOM - SIDING view #2	1 BEDROOM - SIDING view #3
		
1 BEDROOM - STUCCO view #1	1 BEDROOM - STUCCO view #2	1 BEDROOM - STUCCO view #3
		
1 BEDROOM -STONE VENEER view #1	1 BEDROOM -STONE VENEER view #2	1 BEDROOM -STONE VENEER view #3

Stormwater Pollution Control BMP Notes Relative to Construction Activities	
Concrete Washout Contractor shall establish and use an adequately sized concrete washout area to contain washout wastes on site. It is illegal to wash concrete, slurry, mortar, stucco, plaster and the like into the stormwater conveyance system or any receiving water. Contractor shall post a sign designating the washout location.	Eliminate or reduce pollution of stormwater from stockpiles kept on-site. Stockpiles may include soil, paving materials, asphalt concrete, aggregate base, etc. Stockpiles shall be located away from concentrated stormwater flows and stormdrain inlets. Stockpiles shall be covered or protected with soil stabilization measures and provided with a temporary sediment barrier around the perimeter at all times.
Construction Site Access A stabilized construction site access shall be provided for vehicles egress and ingress to prevent tracking dirt off site. This shall include using material such as gravel and/or corrugated steel panels/plates.	Training Contractors' employees who perform construction in the City of Encinitas shall be trained to be familiar with the City of Encinitas stormwater pollution control requirements. These BMP notes shall be available to everyone working on site. The property owner(s) and the prime contractor must inform subcontractors about stormwater requirements and their own responsibilities.
Construction Vehicles A specific area away from gutters and stormdrain shall be designated for construction vehicles parking, vehicle refueling, and routine equipment maintenance. All major repairs shall be made off-site.	Waste Management - Contractor shall be responsible for properly disposing of all waste and unused construction materials. Dumping of unused or waste products on the ground, where water can carry them into the conveyance system is strictly prohibited. - No seepage from dumpsters shall be discharged into stormwater. Berms/dikes shall be placed around dumpsters to divert the natural storm runoff. Dumpsters shall be checked frequently for leaks. Dumpster lids shall remain closed at all times. Dumpsters without lids shall be placed within structures with impervious roofing or covered with tarps in order to avoid rain contact with any trash material. - Many construction materials, including solvents, water-based paints, vehicle fluids, broken asphalt and concrete, wood, and cleared vegetation can be recycled. Nonrecyclable materials must be taken to an appropriate landfill or disposed of as hazardous waste. For information on disposal of hazardous material, call the Hazardous Waste Hotline toll free at (800) 714-1195. For information on landfills and to order dumpsters call EDCO at (760) 436-4151. - Pollutants shall be kept off exposed surfaces. Place trash cans and recycling receptacles around the site. - Portable toilets must be in good working order and checked frequently for leaks. Contractor shall provide secondary containment and locate portable toilets away from stormdrain inlets on pervious surfaces. - All construction debris shall be kept away from the street, gutter, and stormdrain. Contractor must routinely check and clean up material that may have traveled away from construction site.
Erosion Control - Erosion control must be provided for all erodive surfaces. Sloped surfaces especially shall be protected against erosion by installing erosion resistant surfaces such as erosion control mats, adequate ground cover vegetation, and bonded fiber matrix. - No excavation and grading activities are allowed during wet weather. - Division dikes shall be constructed to channel runoff around the construction site. Contractor shall protect channels against erosion using permanent and temporary erosion control measures. - Remove existing vegetation only when absolutely necessary. Large projects shall be conducted in phases to avoid unnecessary removal of the natural ground cover. Do not remove trees or shrubs unnecessarily; they help decrease erosion. - Temporary vegetation must be planted on slopes or where construction is not immediately planned for erosion control purposes. Erosion shall be prevented by planting fast-growing annual and perennial grasses to shield and bind the soil. - Plant permanent vegetation as soon as possible, once excavation and grading activities are complete. - Water usage for dust control shall be minimized.	
On-site Construction Material Storage Stored materials shall be contained in a secure place to prevent seepage and spillage. Contractor shall store these products where they will stay dry out of the rain. Contractor shall provide secondary containment for all fuel stored on-site.	
EXISTING SWIMMING POOL REQUIREMENTS WHEN A BUILDING PERMIT IS ISSUED FOR THE CONSTRUCTION OF A NEW SWIMMING POOL OR SPA OR THE REMODELING OF AN EXISTING SWIMMING POOL OR SPA AT A PRIVATE SINGLE-FAMILY HOME, THE RESPECTIVE SWIMMING POOL OR SPA SHALL BE EQUIPPED WITH AT LEAST TWO OF THE FOLLOWING SEVEN DROWNING PREVENTION SAFETY FEATURES: (1) AN ENCLOSURE THAT MEETS THE REQUIREMENTS OF SECTION 115923 AND ISOLATES THE SWIMMING POOL OR SPA FROM THE PRIVATE SINGLE-FAMILY HOME. (2) REMOVABLE MESH FENCING THAT MEETS AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) SPECIFICATIONS F2286 STANDARDS IN CONJUNCTION WITH A GATE THAT IS SELF-CLOSING AND SELF-LATCHING AND CAN ACCOMMODATE A KEY LOCKABLE DEVICE. (3) AN APPROVED SAFETY POOL COVER, AS DEFINED IN SUBDIVISION (D) OF SECTION 115921. (4) EXIT ALARMS ON THE PRIVATE SINGLE-FAMILY HOME'S DOORS THAT PROVIDE DIRECT ACCESS TO THE SWIMMING POOL OR SPA. THE EXIT ALARM MAY CAUSE EITHER AN ALARM NOISE OR A VERBAL WARNING, SUCH AS A REPEATING NOTIFICATION THAT "THE DOOR TO THE POOL IS OPEN." (5) A SELF-CLOSING, SELF-LATCHING DEVICE WITH A RELEASE MECHANISM PLACED NO LOWER THAN 54 INCHES ABOVE THE FLOOR ON THE PRIVATE SINGLE-FAMILY HOME'S DOORS PROVIDING DIRECT ACCESS TO THE SWIMMING POOL OR SPA. (6) AN ALARM THAT, WHEN PLACED IN A SWIMMING POOL OR SPA, WILL SOUND UPON DETECTION OF ACCIDENTAL OR UNAUTHORIZED ENTRANCE INTO THE WATER. THE ALARM SHALL MEET AND BE INDEPENDENTLY CERTIFIED TO THE ASTM STANDARD F2208 "STANDARD SAFETY SPECIFICATION FOR RESIDENTIAL POOL ALARMS," WHICH INCLUDES SURFACE MOTION, PRESSURE, SONAR, LASER, AND INFRARED TYPE ALARMS. A SWIMMING PROTECTION ALARM FEATURE DESIGNED FOR INDIVIDUAL USE, INCLUDING AN ALARM ATTACHED TO A CHILD THAT SOUNDS WHEN THE CHILD EXCEEDS A CERTAIN DISTANCE OR BECOMES SUBMERGED IN WATER, IS NOT A QUALIFYING DROWNING PREVENTION SAFETY FEATURE. (7) OTHER MEANS OF PROTECTION, IF THE DEGREE OF PROTECTION AFFORDED IS EQUAL TO OR GREATER THAN THAT AFFORDED BY ANY OF THE FEATURES SET FORTH ABOVE AND HAS BEEN INDEPENDENTLY VERIFIED BY AN APPROVED TESTING LABORATORY AS MEETING STANDARDS FOR THOSE FEATURES ESTABLISHED BY THE ASTM OR THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME). (8) BEFORE THE ISSUANCE OF A FINAL APPROVAL FOR THE COMPLETION OF PERMITTED CONSTRUCTION OR REMODELING WORK, THE LOCAL BUILDING CODE OFFICIAL SHALL INSPECT THE DROWNING SAFETY PREVENTION FEATURES REQUIRED BY THIS SECTION AND, IF NO VIOLATIONS ARE FOUND, SHALL GIVE FINAL APPROVAL.	
FIRE NOTES 1. NEW AND EXISTING BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS OR APPROVED BUILDING IDENTIFICATION PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. THESE NUMBERS SHALL BE A MINIMUM OF 4 INCHES HIGH WITH A MINIMUM STROKE OF .5 INCHES. THERE ACCESS IS BY MEANS OF A PRIVATE ROAD AND THE BUILDING CANNOT BE VIEWED FROM THE PUBLIC WAY, A MONUMENT, POLE OR OTHER SIGN OR MEANS SHALL BE USED TO IDENTIFY THE STRUCTURE. CFC SECTION 505.1 2. ALL FIRE APPARATUS ROADS ACCESS ROADS SHALL HAVE AN UNOBSTRUCTED VERTICAL CLEARANCE OF NO LESS THAN 13 FEET 6 INCHES. 3. SITE PLAN SHALL PROVIDE DIMENSIONS SHOWING REQUIRED FIRE APPARATUS ACCESS ROADS. FIRE ACCESS ROADWAYS SHALL HAVE AN UNOBSTRUCTED IMPROVED WIDTH OF NOT LESS THAN 24 FEET. EXCEPTIONS: 1. RESIDENTIAL DWELLINGS NOT IN THE VERY HIGH FIRE HAZARD SEVERITY ZONE SHALL HAVE MINIMUM OF 20 FEET OF UNOBSTRUCTED IMPROVED WIDTH. 2. SINGLE-FAMILY RESIDENTIAL DRIVEWAYS SERVING NO MORE THAN TWO SINGLE-FAMILY DWELLING SHALL HAVE A MINIMUM OF 16 FEET OF UNOBSTRUCTED IMPROVED WIDTH. FIRE ACCESS ROADWAYS - SURFACE FIRE APPARATUS ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF FIRE APPARATUS NOT LESS THAN 75,000 LBS AND SHALL BE PROVIDED WITH AN APPROVED PAVED SURFACE TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES. - GATED ENTRANCES WITH CARD READERS, GUARD STATIONS OR CENTER MEDIANS, WHICH WILL HAVE SEPARATED LANES OF ONE-WAY TRAFFIC, SHALL BE NOT LESS THAN 14 FEET WIDE PER LANE. EXISTING LEGAL LOTS THAT HAVE EASEMENTS ACCESS ROADWAYS LESS THAN 20 FEET WIDE THAT PROVIDE PRIMARY ACCESS TO OTHER LOTS SHALL RECORD A COVENANT GRANTING EASEMENT RIGHTS FOR EMERGENCY VEHICLE INGRESS AND EGRESS PURPOSES AND SHALL RELINQUISH RIGHTS TO BUILD ANY BUILDING, WALL, FENCE, OR OTHER STRUCTURE WITHIN 5 FEET OF THE EXISTING ACCESS EASEMENT. ALL DEAD END FIRE APPARATUS ACCESS ROADWAY IN EXCESS OF 150 FEET IN LENGTH SHALL BE PROVIDED WITH AND APPROVED AREA FOR TURNING AROUND FIRE APPARATUS. ACCESS ROADS SERVING MORE THAN (4) FOUR DWELLING UNITS SHALL BE PROVIDED WITH A CUL-DE-SAC. THE MINIMUM UNOBSTRUCTED PAVED RADIUS WIDTH FOR A CUL-DE-SAC SHALL BE 36 FEET CURB LINE TO CURB LINE WITH NO PARKING. ALTERNATE TYPES OF TURN-AROUND (HAMMERHEADS, ETC.) MAY BE CONSIDERED BY THE FIRE MARSHAL AS NEEDED TO ACCOMPLISH THE INTENT OF THE FIRE CODE. SECURITY GATES: AN AUTOMATIC GATE ACROSS A FIRE ACCESS ROADWAY OR DRIVEWAY SHALL BE EQUIPPED WITH AN APPROVED EMERGENCY KEY-OPERATED SWITCH OVERRIDING ALL COMMAND FUNCTIONS AND OPENING THE GATE. WHERE THIS SECTION REQUIRES AN APPROVED KEY-OPERATED SWITCH, IT MAY BE DUAL-KEYED OR EQUIPPED WITH DUAL SWITCHES PROVIDED TO FACILITATE ACCESS BY LAW ENFORCEMENT PERSONNEL. (CFC SECTION 503.6 AMENDMENT) ALL GATES PROVIDING ACCESS FROM A ROAD TO A DRIVEWAY SHALL BE AT LEAST TWO FEET WIDER THAN THE WIDTH OF THE TRAFFIC LANE(S) SERVING THE GATE	

GENERAL NOTES 1. SEE BUILDING PLANS FOR ALL OTHER DIMENSIONS AND NOTES NOT SHOWN. 2. SEE BUILDING PLANS AND SCHEDULES FOR ALL EXTERIOR DOOR AND WINDOW REFERENCES AND LOCATIONS. 3. YARD SETBACKS ARE TO BE MEASURED FROM THE EXTERIOR WALL FINISH TO THE PROPERTY LINE AND NOT FROM THE OUTSIDE OF THE FOOTING (OR FACE OF STUDS). THE PLANS MUST BE STUCCOED (I.E. 7/8" STUCCO, ETC.) ADDED TO THE PLAN FOR THE SETBACK MEASUREMENT. THE FIELD INSPECTOR WILL ADD THE PLANNED WALL FINISH THICKNESS TO THE FOUNDATION SETBACK. 4. NEW ELECTRIC SERVICE IS TO BE LOCATED - POOLS, SPAS, WALLS, FENCES, PATIO COVERS AND OTHER FREESTANDING STRUCTURES REQUIRE SEPARATE REVIEWS AND PERMITS 5. LANDSCAPE AND IRRIGATION WATER USE SHALL HAVE WEATHER OR SOIL BASED CONTROLLERS 6. ADU WILL BE CONNECTED TO THE PUBLIC SEWER SYSTEM OR WILL PROVIDE A COMPLYING SEPTIC SYSTEM. 7. CAL-OSHA PERMIT IS REQUIRED FOR EXCAVATIONS DEEPER THAN 5' AND SHORING AND UNDERPINNING. 8. A DIMENSIONED SITE PLAN DRAWN TO SCALE SHALL BE PROVIDED SHOWING THE FOLLOWING: NORTH ARROW, PROPERTY LINES, EASEMENTS, STREETS, EXISTING AND PROPOSED BUILDINGS, AND STRUCTURES, LOCATION OF YARDS USED FOR ALLOWABLE INCREASE OF BUILDING AREA, DIMENSIONED SETBACKS, MINIMUM SEPARATION FROM EXISTING STRUCTURES AND FUEL MODIFICATION ZONES PER UNIFORM ADMINISTRATIVE CODE SECTION 302. 9. IF A GRADING PLAN IS REQUIRED, INCORPORATE THE ENTIRE APPROVED GRADING PLAN/IMPROVEMENT PLAN (ALL SHEETS) WITH THE BUILDING PLANS. 10. PROJECTIONS, INCLUDING EAVES, MUST BE AT LEAST 24" FROM PROPERTY LINES.	
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Right-of-Way Note
Owner is to obtain a construction permit from the Engineering Department at least 48 hours prior to working in the public right of way. Failure to do so will result in an issuance of a stop work notice and double permit fees. It is the responsibility of the owner to know the location of the property line.

Utility Note
All utilities serving this site shall be installed underground.

Drainage Note
No concentrated drainage flows are permitted over adjacent property lines. Water is to drain away from structures for a minimum of 5 feet at 2 percent and be conveyed to an approved drainage facility.

Earthwork Note
Earthwork, cut or fill, which is over 50 cubic yards, requires an additional Engineering Grading Permit.
Provide earthwork quantities:
____ cubic yards cut, ____ cubic yards fill, ____ cubic yards import/export
____ cubic yards over-excavation and re-compaction

Construction Best Management Practices (BMP) Note
Erosion control measures (e.g. bonded fiber matrix, vegetative cover, jute matting) must be implemented where applicable to prevent soil erosion on site. Sediment control measures (e.g. silt fencing, fiber rolls, detention basins) must be in place to prevent eroded soil from leaving site. Materials management BMP must also be followed to ensure no contact of rainwater with materials that may contribute to water quality degradation downstream (e.g. concrete or stucco washout areas, covered storage areas for hazardous materials, placement of portable toilets over a pervious surface).

Post-Construction Best Management Practices (BMP) Note
No directly connected impervious areas (DCIA) shall be allowed. DCIA means storm runoff generated and conveyed via impervious areas, such as roof, roof drain, driveway, and street. BMP measures shall be identified on the site plan. Most common measures are designated turf areas, which receive roof drains and runoff from impervious areas. Turf and landscaped areas that are designed for BMP's shall be delineated on plans and a note placed on plans prohibiting modification or removal of the BMP landscape areas without a City permit.

Grading/Improvement Plans/Permits
If a grading/improvement plan/permit is approved for the project site, it shall supersede all grading, drainage, onsite, offsite, and storm water Best Management Practice improvements contained in these plans in the event of conflict.

Total Area of New Impervious Surfaces = _____
(Increase to building footprint, patios, decks, hardscape, etc.)

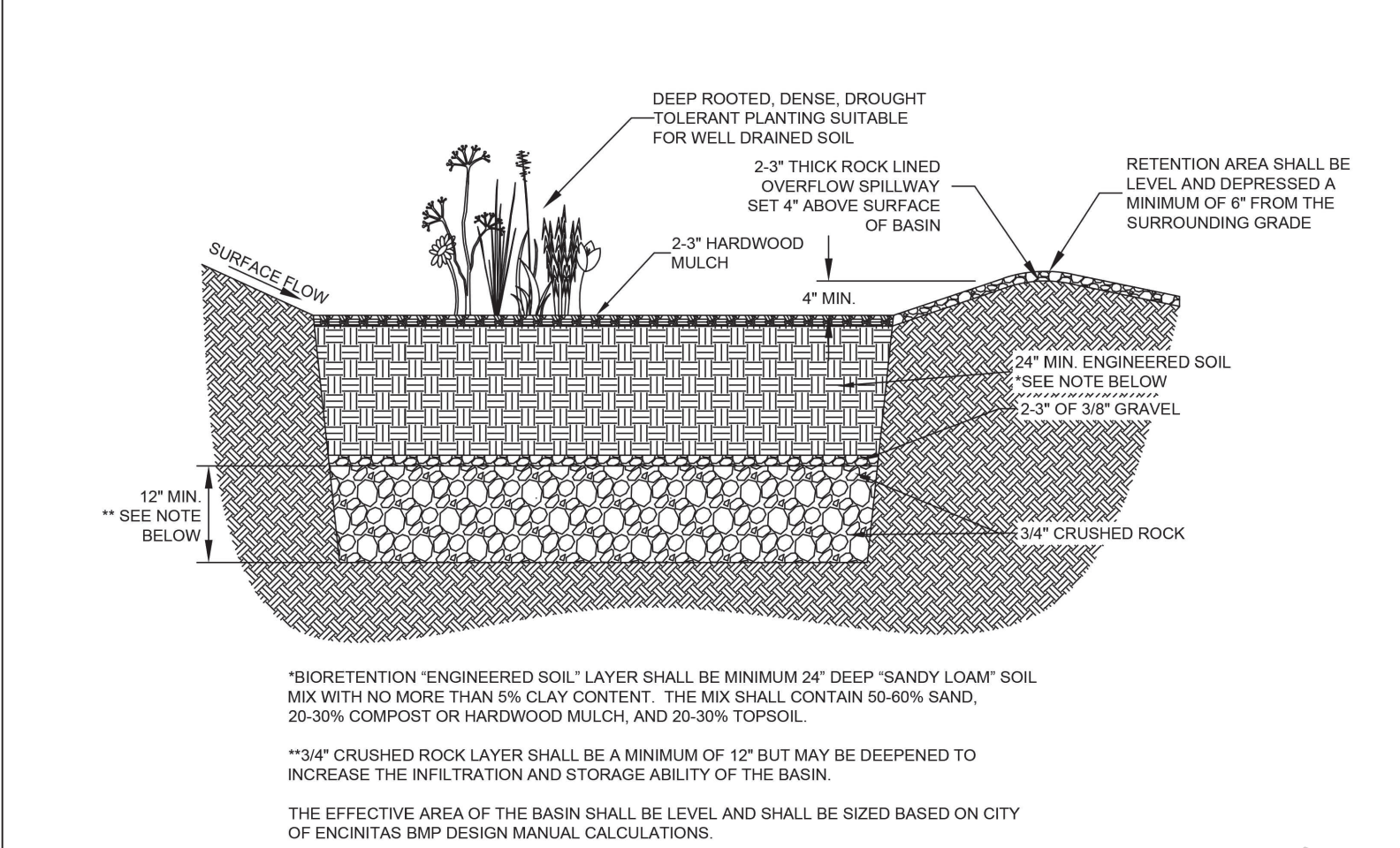
Total Area of Replaced Impervious Surfaces = _____
(Replacement to building footprint, patios, decks, hardscape, etc.)

THE APPLICANT SHALL PROVIDE A DIMENSIONED AND SCALED SITE PLAN SHOWING PROPERTY LINES, YARDS, DIMENSIONED SETBACKS, EASEMENTS, UTILITIES, STREETS, EXISTING AND PROPOSED BUILDINGS, MINIMUM SEPARATION FROM EXISTING STRUCTURES, AND FUEL MODIFICATION ZONES IF APPLICABLE

GREEN BUILDING CODE NOTES

1. 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.
2. 65 % OF CONSTRUCTION WASTE IS TO BE RECYCLED.
3. 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 AND COATINGS, CARPET AND COMPOSITION WOOD PRODUCTS.
4. 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.
5. 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
6. 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
7. LANDSCAPE IRRIGATION WATER USE SHALL HAVE WEATHER BASED CONTROLLERS.

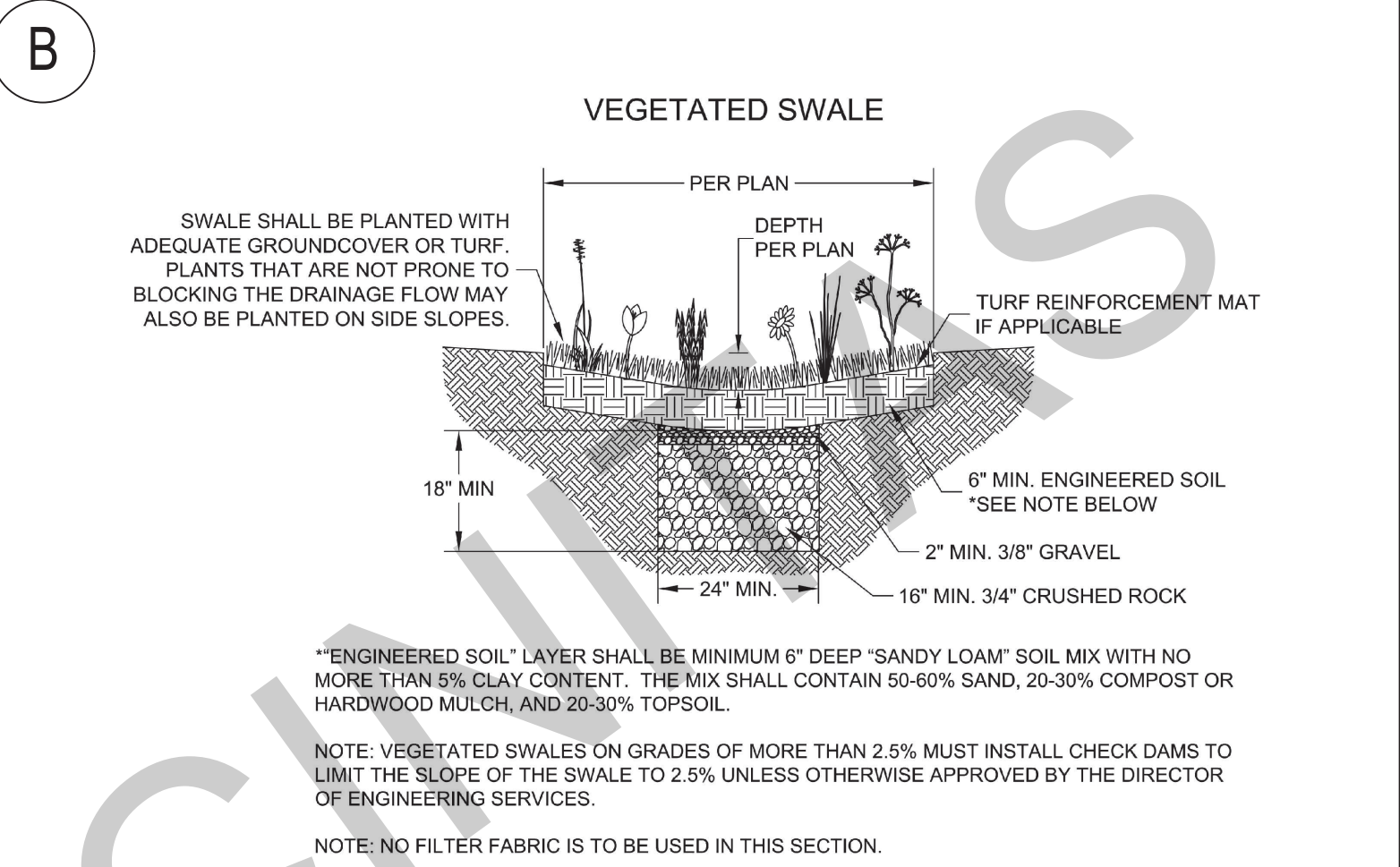
BIORETENTION DETAIL FOR STANDARD PROJECTS ONLY



THE APPLICANT SHALL IMPLEMENT SITE DESIGN STORMWATER BEST MANAGEMENT PRACTICES (BMP) AND LOW IMPACT DEVELOPMENT (LID) CONCEPTS SUCH AS IMPERVIOUS AREA DISPERSION, DRAINAGE TO NATURAL VEGETATION, REDUCTION IN IMPERVIOUS SURFACES, BREAKING UP HARDSCAPE AREA, ETC. APPLICANT IS REQUIRED TO INCORPORATE THESE CONCEPTS WITH NEW CONSTRUCTION IN LIEU OF OPTION 'A' OR 'B' ABOVE.

GRAYWATER SYSTEM

NEWLY CONSTRUCTED SINGLE-FAMILY DWELLING UNITS SHALL BE PRE -PLUMBED FOR A GRAYWATER SYSTEM PERMITTED AND CONSTRUCTED IN ACCORDANCE WITH CHAPTER 15 OF THE CALIFORNIA PLUMBING CODE AND INCLUDING A STUB -OUT IN A CONVENIENT LOCATION FOR INTEGRATION OF THE GRAYWATER SYSTEM WITH LANDSCAPE IRRIGATION SYSTEMS AND ACCEPTING GRAYWATER FROM ALL SOURCES PERMISSIBLE IN CONFORMANCE WITH THE DEFINITION OF GRAYWATER AS PER SECTION 14876 OF THE CALIFORNIA WATER CODE.A GRAYWATER SYSTEM SHALL NOT BE PERMITTED WHERE A QUALIFIED SOILS ENGINEER DETERMINES IN A WRITTEN, STAMPED REPORT, OR A PERCOLATION TEST SHOWS, THAT THE ABSORPTION CAPACITY OF THE SOIL AT THE PROJECT SITE IS UNABLE TO ACCOMMODATE THE DISCHARGE OF A GRAYWATER IRRIGATION SYSTEM.



stormwater bioretention:

____ SQ. FT. TOTAL NEW AND/OR REMOVED AND REPLACED IMPERVIOUS SURFACES	
IS NOT GREATER THAN 500 SQ. FT. SIZING CALCULATION NOT REQUIRED	
IS GREATER THAN 500 SQ. FT. SIZING CALCULATION REQUIRED	
SIZING CALCULATION: _____ SQ. FT. x 4% = _____ SQ. FT. (MIN BMP AREA REQUIRED)	
✓	BMP DRAINAGE TYPE
A - BIORETENTION BASIN - SURFACE FLOW WITH SPILLWAY	
B - VEGETATED SWALE	
C - SITE DESIGN AND LOW IMPACT DEVELOPMENT	
NOT REQUIRED	

ELECTRIC VEHICLE CHARGING

NEW CONSTRUCTION SHALL COMPLY WITH SECTIONS A4. 106. 8. 1- ATE A4. 106. 8. 2, AND A4. 106. 8. 3 TO FACILITATE THE FUTURE INSTALLATION AND USE OF ELECTRIC VEHICLE CHARGERS. ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE) SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE, ARTICLE 625. EXCEPTIONS: ON A CASE -BY CASE BASIS, WHERE THE LOCAL ENFORCING AGENCY HAS DETERMINED EV CHARGING AND INFRASTRUCTURE ARE NOT FEASIBLE BASED UPON ONE OR MORE OF THE FOLLOWING CONDITIONS:
1. WHERE THERE IS NO COMMERCIAL POWER SUPPLY.
2. WHERE THERE IS EVIDENCE SUBSTANTIATING THAT MEETING THE REQUIREMENTS WILL ALTER THE LOCAL UTILITY INFRASTRUCTURE DESIGN REQUIREMENTS ON THE UTILITY SIDE OF THE METER SO AS TO INCREASE THE UTILITY SIDE COST TO THE HOMEOWNER OR THE DEVELOPER BY MORE THAN \$ 400. 00 PER DWELLING UNIT.

GENERAL NOTES

1. SEE BUILDING PLANS FOR ALL OTHER DIMENSIONS AND NOTES NOT SHOWN.
2. SEE BUILDING PLANS AND SCHEDULES FOR ALL EXTERIOR DOOR AND WINDOW REFERENCES AND LOCATIONS.
3. YARD SETBACKS ARE TO BE MEASURED FROM THE EXTERIOR WALL FINISH TO THE PROPERTY LINE AND NOT FROM THE OUTSIDE OF THE FOOTING (OR FACE OF STUDS). THE PLANS MUST BE STUCCOED (I.E. 7/8" STUCCO, ETC.) ADDED TO THE PLAN FOR THE SETBACK MEASUREMENT. THE FIELD INSPECTOR WILL ADD THE PLANNED WALL FINISH THICKNESS TO THE FOUNDATION SETBACK.
4. NEW ELECTRIC SERVICE IS TO BE LOCATED - POOLS, SPAS, WALLS, FENCES, PATIO COVERS AND OTHER FREESTANDING STRUCTURES REQUIRE SEPARATE REVIEWS AND PERMITS
5. LANDSCAPE AND IRRIGATION WATER USE SHALL HAVE WEATHER OR SOIL BASED CONTROLLERS
6. ADU WILL BE CONNECTED TO THE PUBLIC SEWER SYSTEM OR WILL PROVIDE A COMPLYING SEPTIC SYSTEM.
7. CAL-OSHA PERMIT IS REQUIRED FOR EXCAVATIONS DEEPER THAN 5' AND SHORING AND UNDERPINNING.
8. A DIMENSIONED SITE PLAN DRAWN TO SCALE SHALL BE PROVIDED SHOWING THE FOLLOWING: NORTH ARROW, PROPERTY LINES, EASEMENTS, STREETS, EXISTING AND PROPOSED BUILDINGS, AND STRUCTURES, LOCATION OF YARDS USED FOR ALLOWABLE INCREASE OF BUILDING AREA, DIMENSIONED SETBACKS, MINIMUM SEPARATION FROM EXISTING STRUCTURES AND FUEL MODIFICATION ZONES PER UNIFORM ADMINISTRATIVE CODE SECTION 302.
9. IF A GRADING PLAN IS REQUIRED, INCORPORATE THE ENTIRE APPROVED GRADING PLAN/IMPROVEMENT PLAN (ALL SHEETS) WITH THE BUILDING PLANS.
10. PROJECTIONS, INCLUDING EAVES, MUST BE AT LEAST 24" FROM PROPERTY LINES.

1. 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.
2. 65 % OF CONSTRUCTION WASTE IS TO BE RECYCLED.
3. 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 AND COATINGS, CARPET AND COMPOSITION WOOD PRODUCTS.
4. 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.
5. 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
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4. 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.
5. 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
6. 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
7. LANDSCAPE IRRIGATION WATER USE SHALL HAVE WEATHER BASED CONTROLLERS.

DIVISION 2 - SITEWORK

1. SITE PREPARATION PROJECT IS TO BE STAKED OUT FOR OWNER APPROVAL BEFORE FOR EARTHWORK IS TO BEGIN.
2. SITE CLEARING CONTRACTOR WILL VERIFY WITH OWNER ALL PLANTING TO BE REMOVED PRIOR TO STARTING WORK.
3. LINES AND LEVELS THE CONTRACTOR WILL VISIT THE SITE AND EVALUATE GRADE CONDITION. FOR BIDDING PURPOSES, THE CONTRACTOR WILL CALCULATE HIS OWN CUT AND FILL QUANTITIES BASED ON THE SITE PLAN.
4. SHORING IS TO BE PROVIDED AS REQUIRED
5. EARTH WORK
 - REMOVE AND RECOMPACT LOOSE TOPSOIL AND SLIGHTLY ALTER THE EXISTING TOPOGRAPHY. ALL GRADING SHOULD BE PERFORMED IN ACCORDANCE WITH THE CITY OF ENCINITAS GRADING ORDINANCE
6. THE CONTRACTOR IS TO VERIFY THE LOCATION OF UTILITY SERVICE IN THE AREA PRIOR TO EXCAVATION.
7. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, ALL FINISH GRADES ARE TO SLOPE AWAY FROM THE BUILDING AND EXTERIOR PAVING 1/4" PER FOOT MINIMUM FOR A MINIMUM DISTANCE OF 5'-0". LOT DRAINAGE TO AVOID POOLING AT BUILDING.

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 SUBMITTAL OF 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 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. 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

Site
Information

date ## Month 20##

project no. 20##_xxxxxx

drawn by xxx/xxx

sheet no.

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 101.7.
			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.

				Y	N/A	RESPON. PARTY

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.

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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 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 .		ELECTRICAL NOTES 1. RECEPTACLE OUTLET LOCATIONS WILL COMPLY WITH CEC ARTICLE 210.52. & CRC SECTION R327.1.2. TAMPER RESISTANT RECEPTACLE OUTLET LOCATIONS SHALL COMPLY W/ NEC ART. 210.52 AND 550.13 (I.E. ALL RECEPTACLES IN A DWELLING). 2. ARC-FAULT PROTECTION FOR ALL OUTLETS (NOT JUST RECEPTACLES) LOCATED IN ROOMS DESCRIBED IN NEC 210.12(A); KITCHENS, LAUNDRY AREAS, FAMILY, LIVING, BEDROOMS, DINING, HALLS, ETC. ALL BRANCH CIRCUITS WILL BE ARC FAULT CIRCUIT PROTECTED PER NEC ART. 210-12(B). THERE ARE TO BE A MINIMUM OF 2 SMALL APPLIANCE BRANCH CIRCUITS WITHIN THESE AREAS CEC 210.11(C)1 3. BATHROOM CIRCUITING SHALL BE EITHER: a) A 20 AMPERE CIRCUIT DEDICATED TO EACH BATHROOM. b) AT LEAST ONE 20 AMPERE CIRCUIT SUPPLYING ONLY BATHROOM RECEPTACLE OUTLETS PER NEC ART. 210-11(c)3. 4. ALL 125-VOLT, SINGLE-PHASE, 15- AND 20- AMPERE RECEPTACLES INSTALLED IN BATHROOMS, GARAGES, BASEMENTS, OUTDOORS, LAUNDRY AREA, KITCHEN DISHWASHERS, KITCHEN COUNTERS AND AT WET BAR SINKS, WITHIN 6' OF A SINK, SHALL BE GFCI PROTECTED PER NEC ART. 210-8(A). 5. WEATHER RESISTANT TYPE FOR RECEPTACLES INSTALLED IN DAMP OR WET LOCATIONS (OUTSIDE) NEC 406.4(D)(6) 6. PER LIGHTING MEASURES 150(K)4 N-24, THE BEDROOMS, HALLWAY, LIVING ROOM AND OFFICE ARE REQUIRED TO HAVE ANY INSTALLED FIXTURE TO BE ON A DIMMER SWITCH OR THE FIXTURE NEEDS TO BE HIGH EFFICACY. 7. OUTDOOR LIGHTING FIXTURES ARE REQUIRED TO BE HIGH EFFICACY OR CONTROLLED BY A COMBINATION PHOTOCONTROL / MOTION SENSOR. 8. A RECEPTACLE OUTLET MUST BE INSTALLED IN EVERY ROOM SO THAT NO POINT ALONG THE WALL SPACE IS MORE THAN 6 FEET, MEASURED HORIZONTALLY ALONG THE FLOOR LINE FROM A RECEPTACLE OUTLET CEC 210.52(A) 9. 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 OVERCURRENT PROTECTION. 10. WHERE MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED, THE SMOKE ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL THE ALARMS IN THE INDIVIDUAL DWELLING UNIT. THE ALARM SHALL BE CLEARLY AUDIBLE IN ALL BEDROOMS OVER BACKGROUND NOISE LEVELS WITH ALL INTERVENING DOORS CLOSED. 11. ALL EXHAUST FANS SHALL BE SWITCHED SEPARATELY FROM LIGHTING SYSTEMS. (CENC 150(K) 2B) 12. A MINIMUM OF ONE LUMINAIRE SHALL BE INSTALLED IN BATHROOM CONTROLLED BY AN OCCUPANT OR VACANCY SENSOR PROVIDING AUTOMATIC -OFF FUNCTIONALLY (CENC 150.0(K)21) 13. LAUNDRY AREA SHALL AT LEAST 1-20 AMP DEDICATED BRANCH CIRCUIT (CEC 210 .11 (C)(2) 14. PROVIDE A DEDICATED CIRCUIT FOR THE A.C./FAU (CEC 422.12) 15. A DEDICATED 125V, 20AMP ELECTRICAL RECEPTACLE THAT IS CONNECTED TO THE ELECTRICAL PANEL WITH A 250 -VOLT 3 CONDUCTOR, 10 AWG COPPER BRANCH CIRCUIT, WITHIN 3 FEET FROM THE WATER HEATER AND ACCESSIBLE TO THE WATER HEATER WITH NO OBSTRUCTIONS (CENC 150.0(N)1A)		ELECTRIC READY NOTES: 2022 ENERGY EFFICIENCY STANDARDS 150.0 (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."			
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									

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project

PRADU
City of Encinitas

revisions

description

General
Notes

date

project no.

drawn by

sheet no.

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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 9. 707A.5 OPEN ROOF EAVES. THE EXPOSED ROOF DECK ON THE UNDERSIDE OF ENCLOSED ROOF EAVES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING: 1. NON COMBUSTIBLE MATERIAL 2. IGNITION- RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE AN 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 APPLIES BEHIND AN EXTERIOR COVERING ON THE UNDERSIDE EXTERIOR OF THE ROOF DECK. 6. THE EXTERIOR PORTION A 1- HOUR FIRE RESISTIVE EXTERIOR ASSEMBLY, APPLIES AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263, APPLIED TO THE UNDERSIDE OF THE ROOF DECK DESIGNED FOR THE EXTERIOR FIRE EXPOSURE, INCLUDING ASSEMBLES USING THE GYPSUM PANEL AND SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DEIGN MANUAL. EXCEPTION TO SECTION 707A.5: THE FOLLOWING MATERIALS DO NOT REQUIRE PROTECTION: FASCIA AND OTHER ARCHITECTURAL TRIM BOARDS 10. 707A.6 ENCLOSED ROOF EAVES AND ROOF EAVE SOFFITS. THE EXPOSED UNDERSIDE OF ENCLOSED ROOF EAVES HAVING EITHER A BOXED-IN ROOF EAVE SOFFIT WITH A HORIZONTAL UNDERSIDE,OR SLOPING RAFTER TAILS WITH AN EXTERIOR COVERING APPLIED TO THE UNDERSIDE OF THE RAFTER TAILS, SHALL BE PROTECTED BY ONE OR MORE 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 AN EXTERIOR COVERING ON THE UNDERSIDE OF FLOOR PROJECTION. 6. THE EXTERIOR PORTION A 1- HOUR FIRE RESISTIVE EXTERIOR ASSEMBLY, APPLIED TO THE UNDERSIDE OF THE RAFTER TAILS OR SOFFIT, INCLUDING ASSEMBLES USING THE GYPSUM PANEL AND SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL 7. BOXED-IN ROOF EAVE SOFFIT 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. BOXED-IN ROOF EAVE SOFFIT 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 SFM STANDARD 12-7A-3 EXCEPTION TO SECTION 707A.6: THE FOLLOWING MATERIALS DO NOT REQUIRE PROTECTION:FASCIA AND OTHER ARCHITECTURAL TRIM BOARDS	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 12. 707A.8 FLOOR PROJECTIONS. THE EXPOSED UNDERSIDE OF A CANTILEVER FLOOR PROJECTION WHERE A FLOOR ASSEMBLY EXTENDS OVER AN EXTERIOR WALL SHALL BE PROTECTED BY ON 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 AND EXTERIOR COVERING ON THE UNDERSIDE OF THE CEILING 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. THE UNDERSIDE OF A FLOOR PROJECTIONS ASSEMBLY THAT MEETS THE PERFORMANCE CRITERIA IN SECTION 707A.10 WHEN TESTED IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN ASTM E2957. 8. THE UNDERSIDE OF A FLOOR PROJECTIONS ASSEMBLY THAT MEETS THE PERFORMANCE CRITERIA IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN THE SFM STD 12-7A-3. EXCEPTION TO SECTION 707A.8: ARCHITECTURAL TRIM BOARDS DO NOT REQUIRE PROTECTION 13. 707A.9 UNDERFLOOR PROTECTION. THE UNDERFLOOR AREA OF ELEVATED OR OVERHANGING BUILDINGS SHALL BE ENCLOSED TO GRADE IN ACCORDANCE WITH THE REQUIREMENTS OF THIS CHAPTER OR THE UNDERSIDE OF THE EXPOSED UNDERFLOOR SHALL BE PROTECTED BY ONE OR MORE 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 AND EXTERIOR COVERING ON THE UNDERSIDE OF THE FLOOR PROJECTION 6. THE EXTERIOR PORTION A 1- HOUR FIRE RESISTIVE EXTERIOR ASSEMBLY, APPLIED TO THE UNDERSIDE OF THE RAFTER TAILS OR SOFFIT, INCLUDING ASSEMBLES USING THE GYPSUM PANEL AND SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL 7. THE UNDERSIDE OF A FLOOR 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 A FLOOR ASSEMBLY THAT MEETS THE PERFORMANCE CRITERIA IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN SFM STANDARD 12-7A-3. EXCEPTION TO SECTION 707A.9: 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.	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 15. 708A.2 EXTERIOR GLAZING. THE FOLLOWING EXTERIOR GLAZING MATERIALS AND/OR ASSEMBLIES SHALL COMPLY WITH THIS SECTION: 1. EXTERIOR WINDOWS 2. EXTERIOR GLAZED DOORS 3. GLAZED OPENINGS WITHIN EXTERIOR DOORS 4. GLAZED OPENINGS WITHIN EXTERIOR GARAGE DOORS 5. EXTERIOR STRUCTURAL GLASS VENEERS 6. SKYLIGHTS 7. VENTS 16. 708A.2.1 EXTERIOR WINDOWS AND EXTERIOR GLAZED DOOR ASSEMBLY REQUIREMENTS: 1. BE CONSTRUCTED OF MULTI-PANE GLAZING WITH A MINIMUM OF ONE TEMPERED PANE MEETING THE REQUIREMENTS OF SECTION 2406 SAFETY GLAZING, OR 2. BE CONSTRUCTED OF GLASS BLOCK UNITS, OR 3. HAVE A FIRE-RESISTANT RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED IN ACCORDANCE TO NFPA 257, OR 4. BE TESTED TO MEET THE PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-2. 17. 708A.3 EXTERIOR DOORS. EXTERIOR DOORS SHALL COMPLY WITH ONE OF THE FOLLOWING: 1. THE EXTERIOR SURFACE OR CLADDING SHALL BE OF NON-COMBUSTIBLE OR IGNITION-RESISTANT MATERIAL 2. THE EXTERIOR SURFACE OR CLADDING SHALL BE IGNITION RESISTANT MATERIAL 3. TEH EXTERIOR DOOR SHALL BE CONSTRUCTED OF SOLID CORE WOOD THAT COMPLY WITH THE FOLLOWING REQUIREMENTS: 3.1 STILES AND RAILS SHALL NOT BE LESS THAN 1-3/8" THICK. 3.2 RAISED PANELS SHALL NOT BE LESS THAN 1-1/4" THICK. EXCEPT FOR THE EXTERIOR PERIMETER OF THE PANEL THAT SHALL BE PERMITTED TO TAPER TO A TONGUE NOT LESS THAN $\frac{3}{8}$" THICK. 4. THE EXTERIOR DOOR SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED ACCORDING TO THE NFPA 252. 5. THE EXTERIOR SURFACE OR CLADDING SHALL BE TESTED TO MEET THE PERFORMANCE IN SECTION 707A.3.1 WHEN TESTED IN ACCORDANCE WITH ASTM E2707. 6. THE EXTERIOR SURFACE OR CLADDING SHALL BE TESTED TO MEET THE PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-1. 18. 708A.3.1 EXTERIOR DOOR GLAZING. GLAZING IN EXTERIOR DOORS SHALL COMPLY WITH SECTION 708A2.1.	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>HOLLOW</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	HOLLOW	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	VOLT
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project

PRADU
City of Encinitas

revisions



description

General
Notes

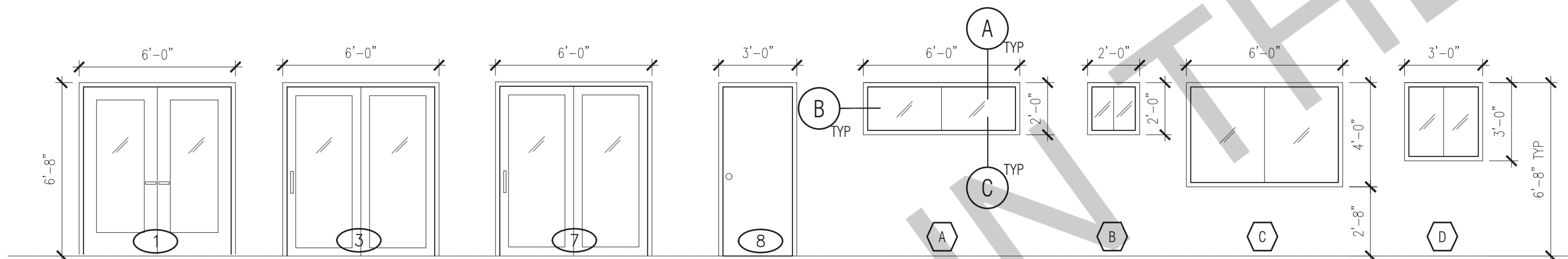
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project no. 20##-#_xxxxxx

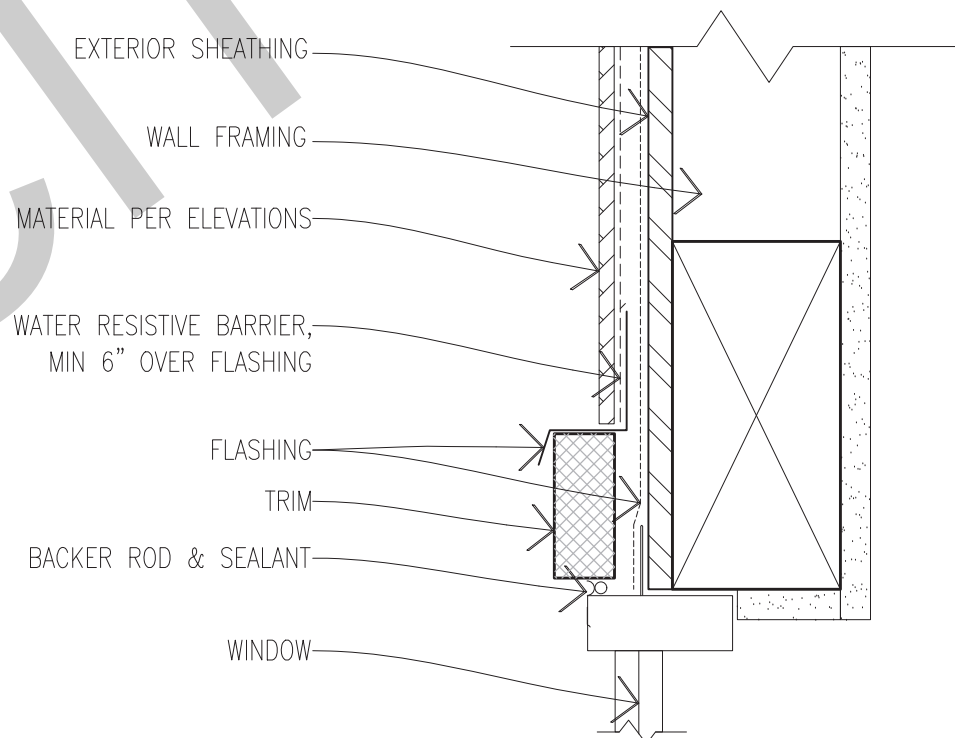
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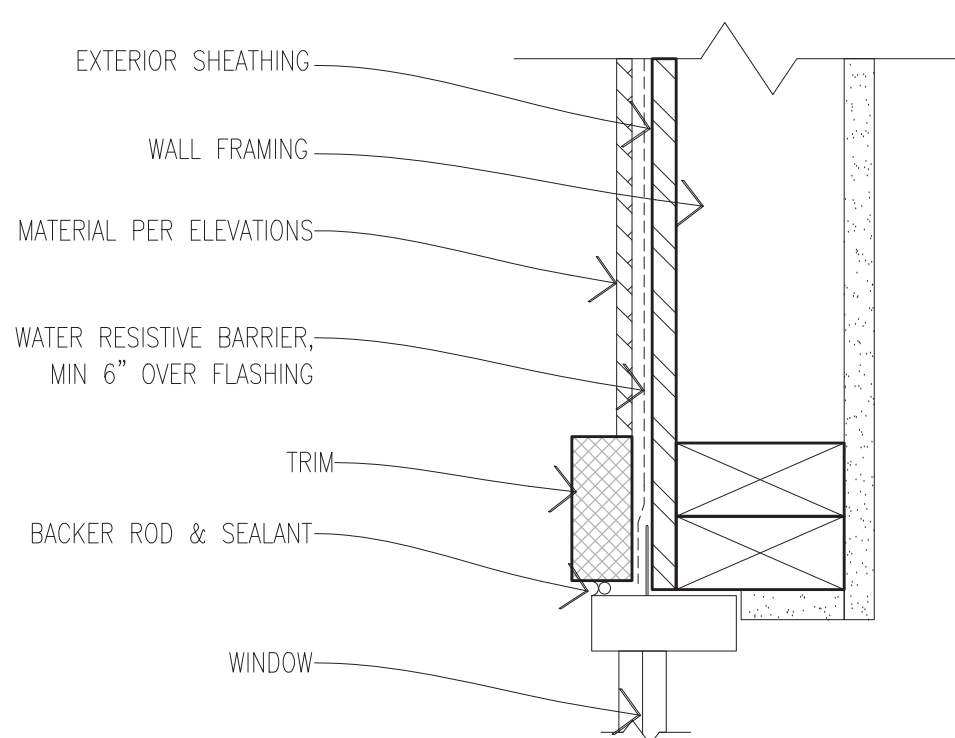
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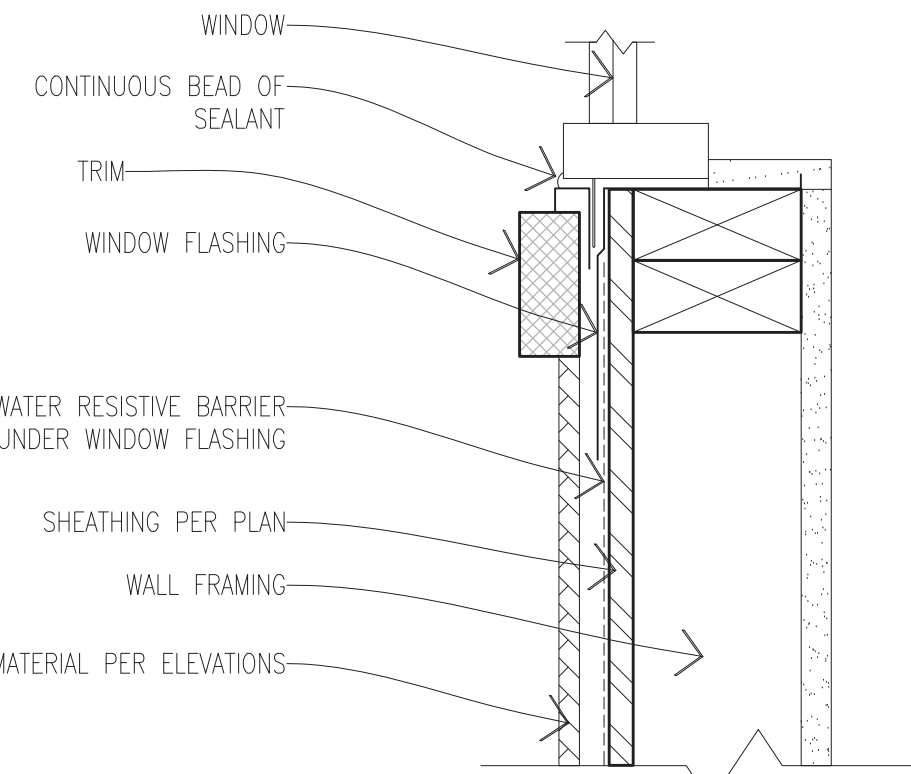
WINDOWS AND DOORS IN ELEVATION
SCALE: 1/4"=1'-0"



A HEAD
SECTION VIEW



B JAMB
PLAN VIEW



C SILL
SECTION VIEW

WINDOW DETAILS

SCALE: 3"=1'-0"

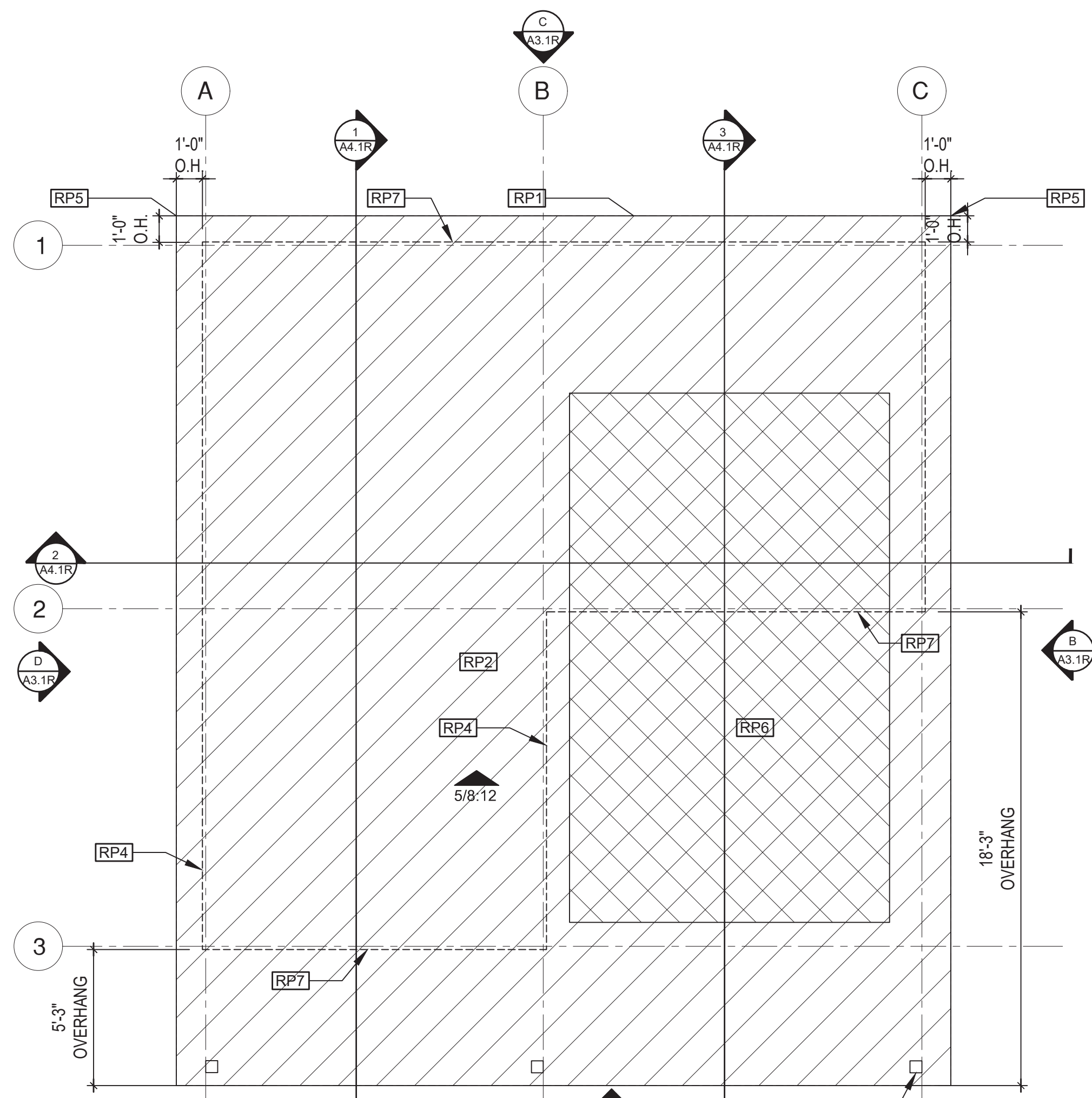


FLOOR PLAN

A1.1

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

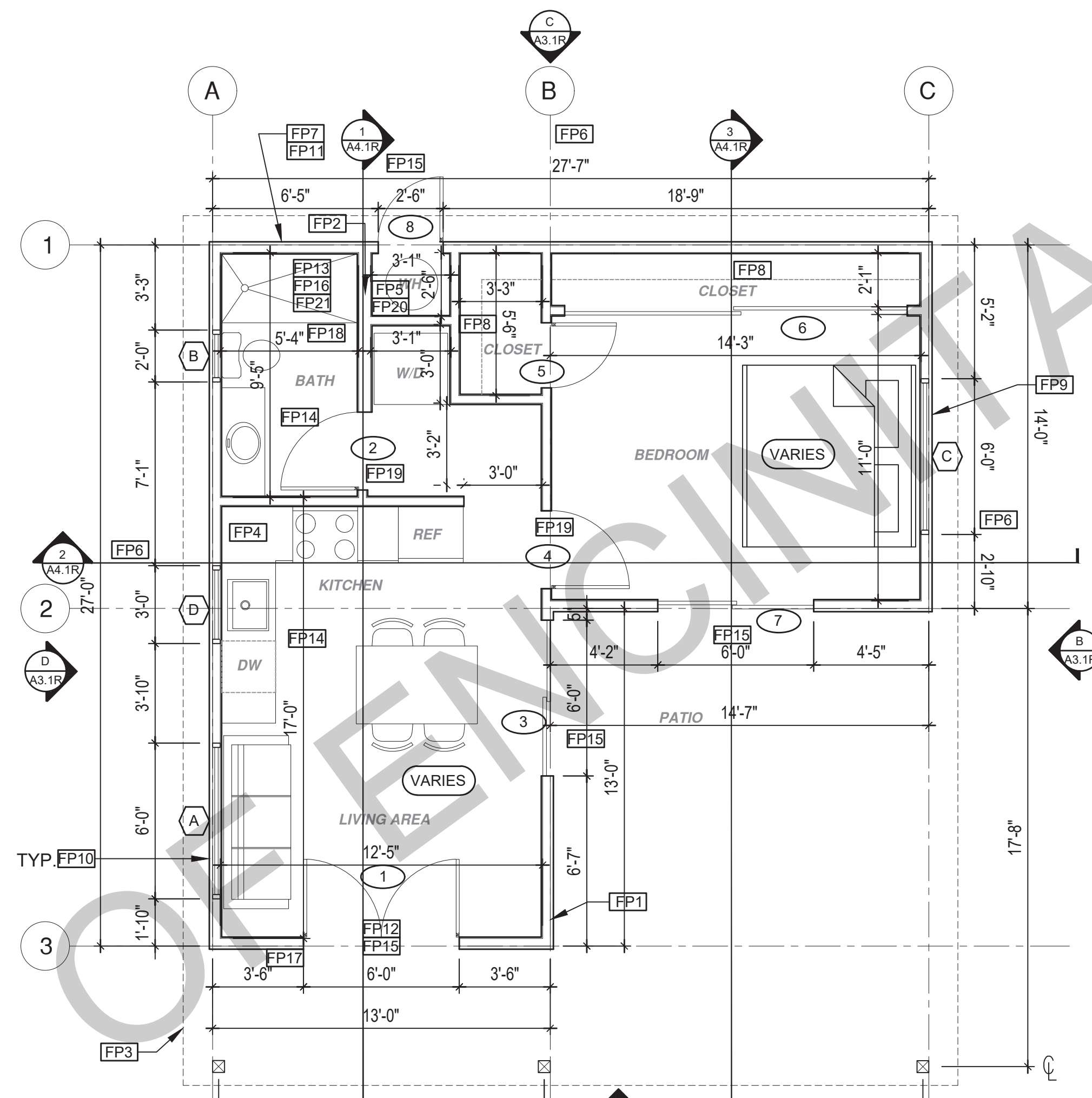
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ROOF PLAN

1/4"=1'-0"

REVERSE



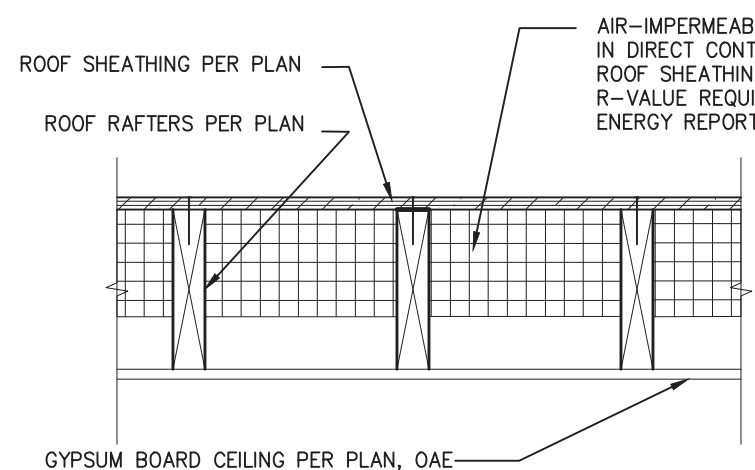
FLOOR PLAN

1/4"=1'-0"

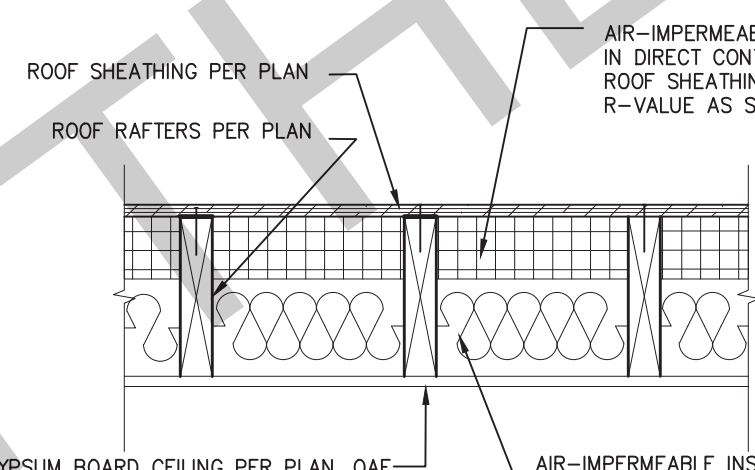
555 SQ. FT.

REVERSE

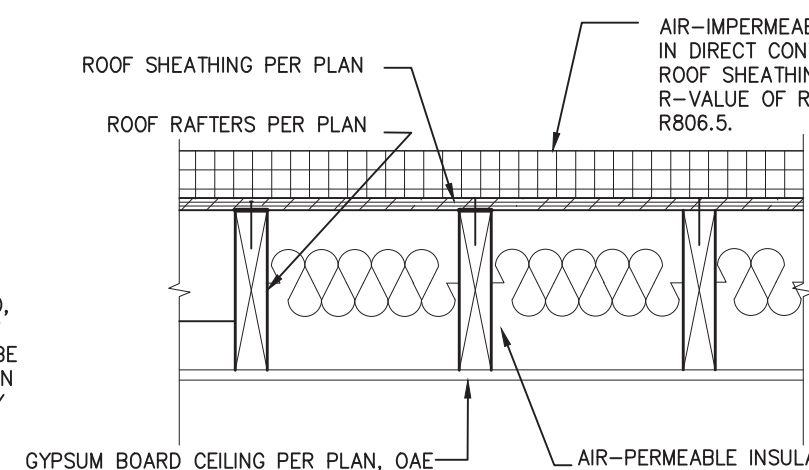
INSULATION DETAILS (FOR NON VENTED ROOFS ONLY)



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:
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 IS 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-PERMEABLE 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 1/2" 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 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 AREA OR ENCLOSED RAFTER AREA. ENCLOSED RAFTER AREA: 555 SF. VENTILATION AREA REQUIRED: 555 SF / 150SF = 3.70 SF. CONVERT TO SQ. IN. 3.70 SF x 144 = 533 SQ. IN. MINIMUM VENTILATION AREA REQUIRED: 533 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 - Reverse

date ## Month 20##

project no. 20##_xxxxxx

drawn by xxx/xxx

sheet no.

A1.1R

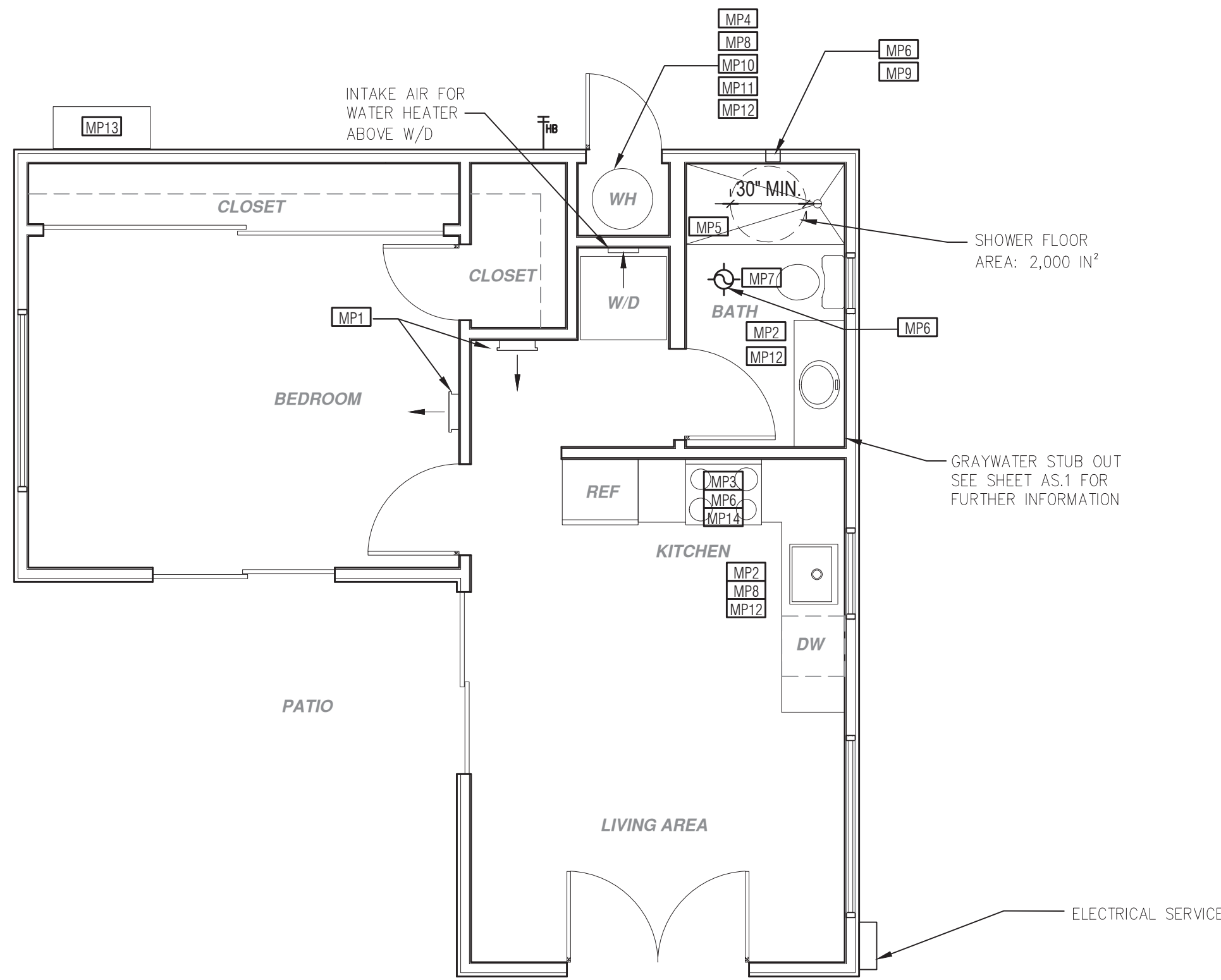
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2. THE RECIPIENT RECOGNIZES AND ACKNOWLEDGES THAT THE USE OF THIS INFORMATION WILL BE AT THEIR SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL EXPOSURE TO DESIGN PATH STUDIO. NO WARRANTIES OF ANY NATURE, WHETHER EXPRESS OR IMPLIED, SHALL ATTACH TO THESE 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.

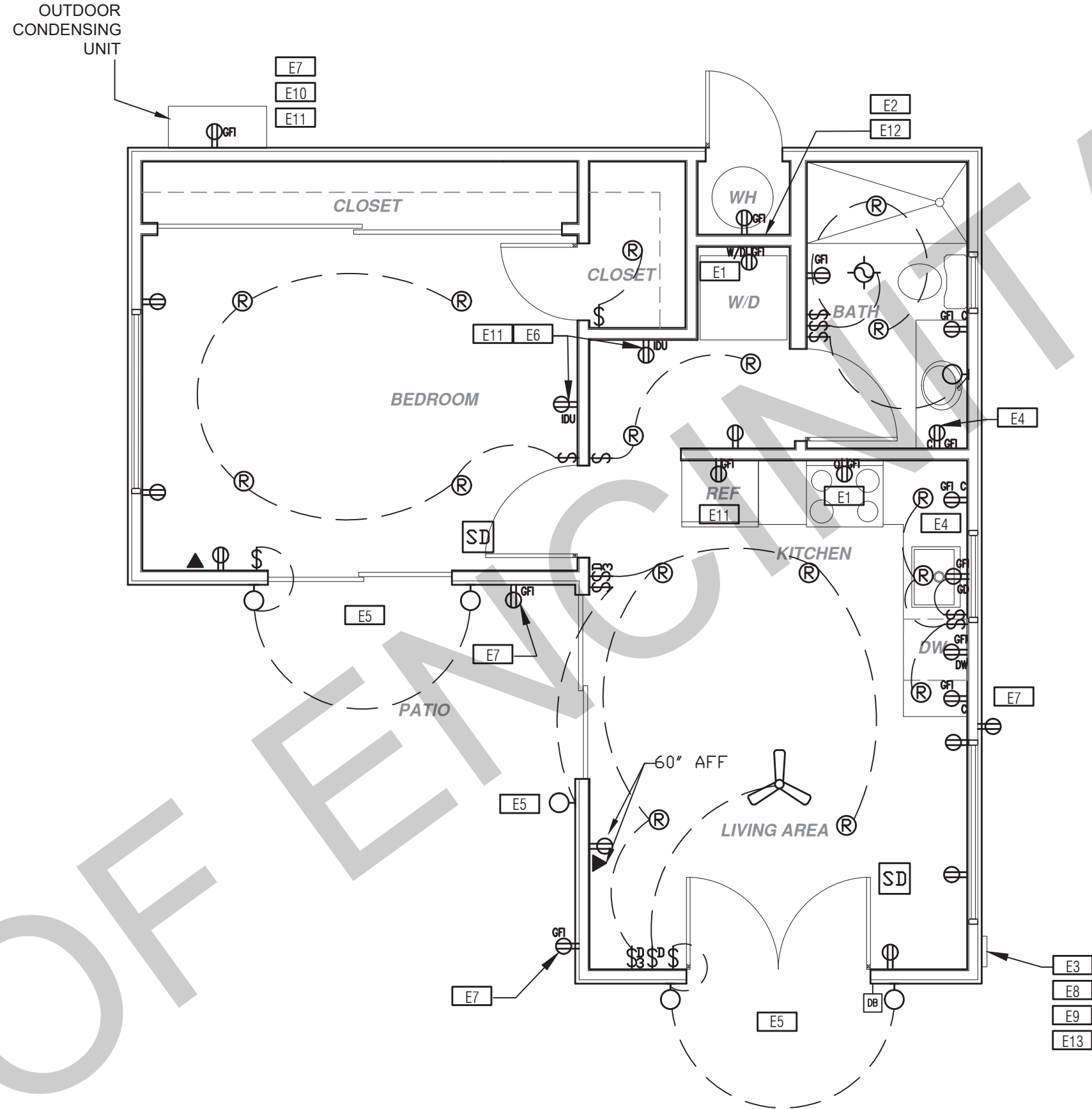
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MECHANICAL / PLUMBING PLAN

1/4"=1'-0"



ELECTRICAL PLAN

1/4"=1'-0"

* SEE SHEET AS.1 FOR ELECTRIC VEHICLE CHAGRINING 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 60 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 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 ONCE 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 24 CARBON MONOXIDE ALARM PERMANENTLY WIRED WITH BATTERY BACKUP PER SECTION R315. 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 29 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 64" AFF WID = WASHER/DRYER 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 28 CEILING, RECESSED, DIRECTIONAL, ZERO CLEARANCE IC RATED LED BULB 29 CEILING, RECESSED, ZERO CLEARANCE IC RATED LED BULB 30 CEILING, RECESSED, ZERO CLEARANCE IC RATED, WATER RESISTANT, LED BULB 31 WALL MOUNTED LIGHT 32 JUNCTION BOX FLUSH CEILING MOUNTED 33 UNDER COUNTER LIGHTING 34 LOW VOLTAGE, LANDSCAPE LIGHT 35 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."

project

PRADU
City of Encinitas

revisions



description

Mechanical/ Plumbing/ Electrical Plans

date ## Month 20##

project no. 20##_xxxxxx

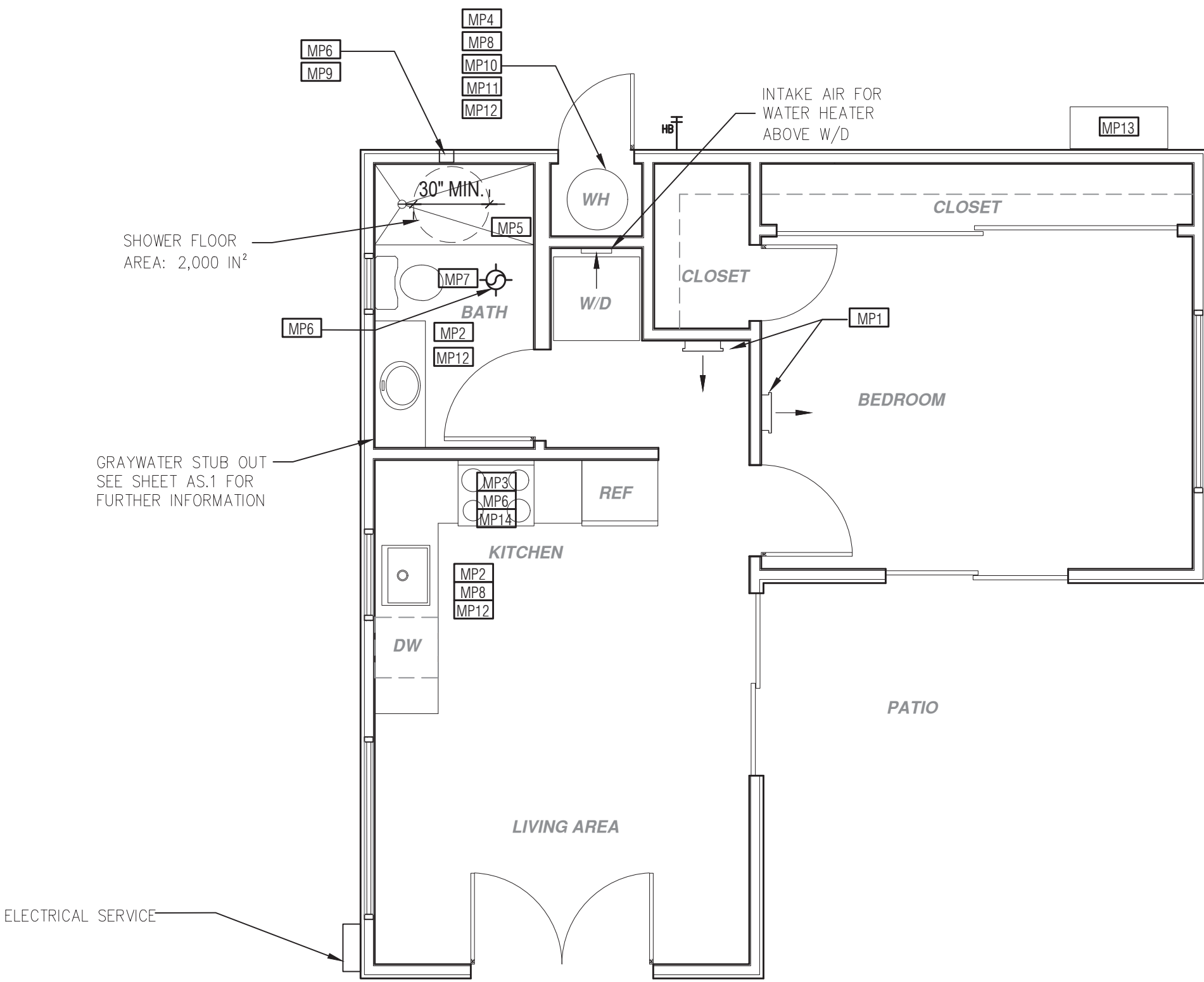
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A2.1

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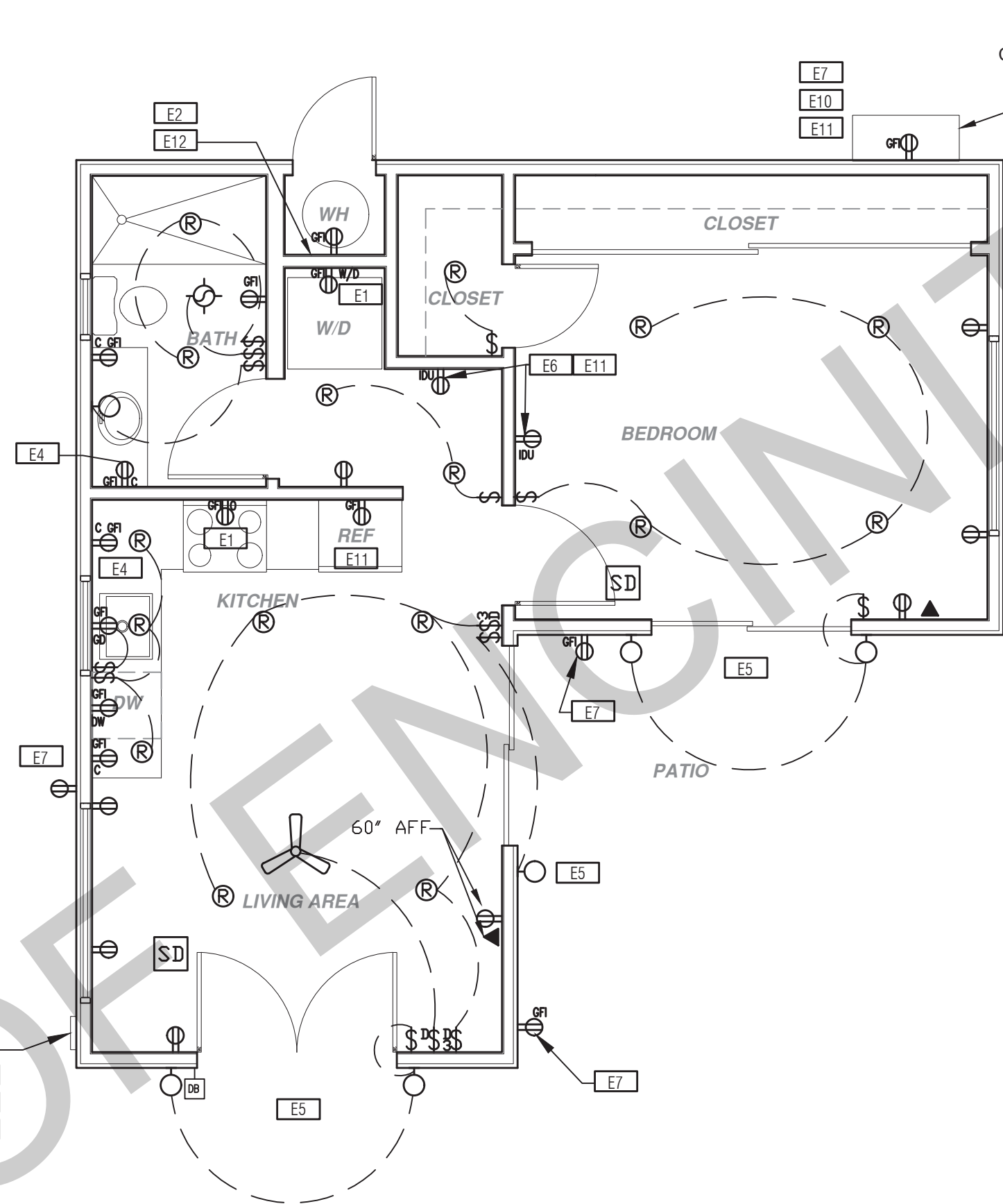
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MECHANICAL / PLUMBING PLAN

1/4"=1'-0"

REVERSE



ELECTRICAL PLAN

1/4"=1'-0"

REVERSE

* SEE SHEET AS.1 FOR ELECTRIC VEHICLE CHAGRINING REQUIREMENTS

MECHANICAL / PLUMBING KEYNOTES	ELECTRICAL KEYNOTES	MECHANICAL / PLUMBING LEGEND	ELECTRICAL LEGEND
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project

PRADU
City of Encinitas

revisions



description

Mechanical/
Plumbing/
Electrical Plans
- Reverse

date ## Month 20##

project no. 20##_xxxxxx

drawn by xxx/xxx

sheet no.

A2.1R

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project

PRADU
City of Encinitas

revisions



description

Exterior
Elevations

date

Month 20##

project no.

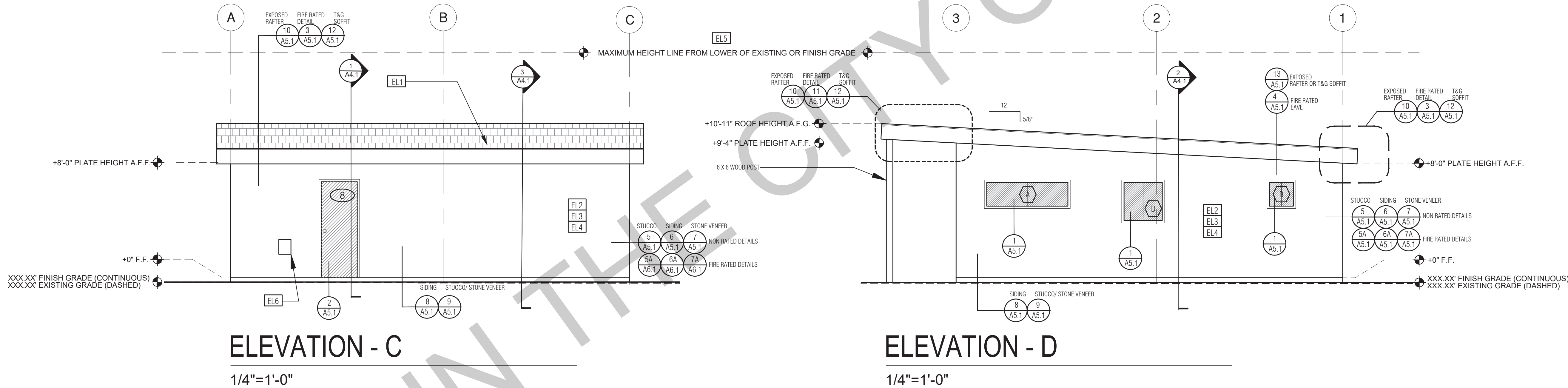
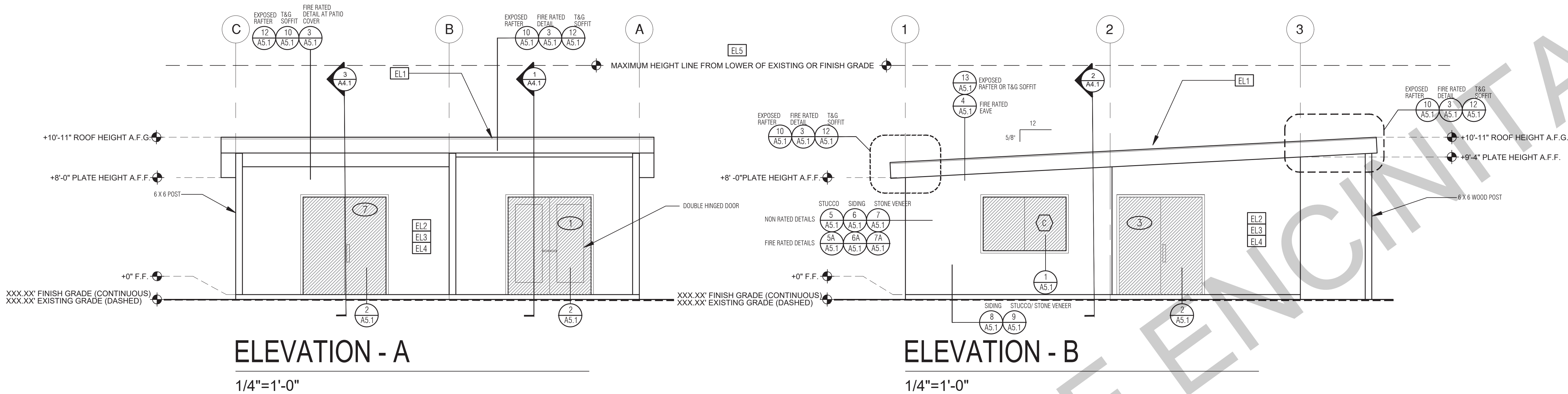
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sheet no.

A3.1



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

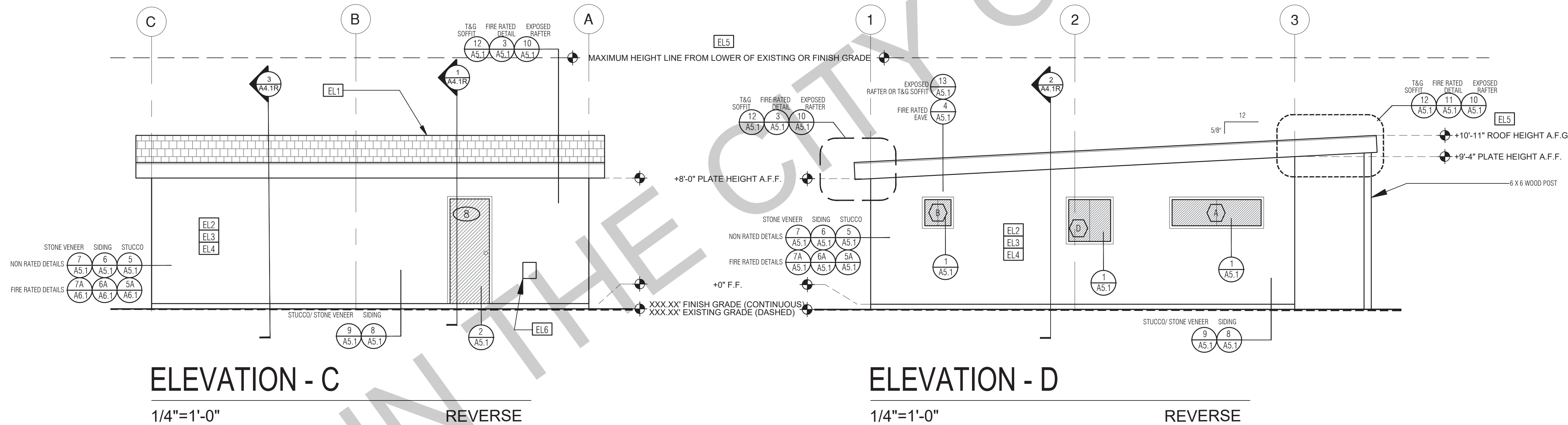
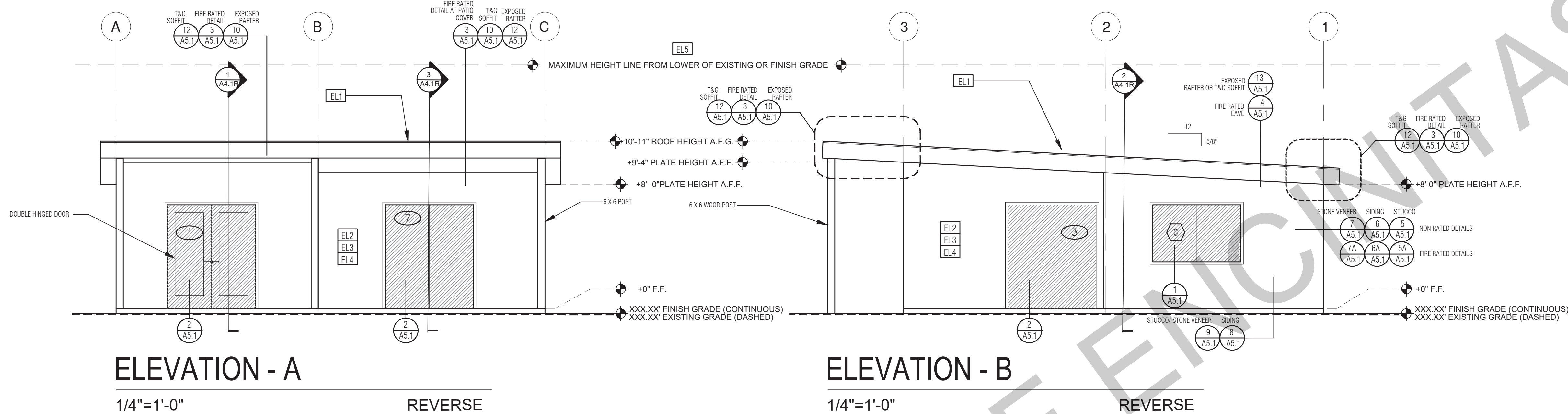
1. ALL DIMENSIONS TO FINISH FACE, U.N.O.
2. ALL DOORS SHOULD BE 3 1/2" FROM NEAREST INTERSECTING WALL AT HINGED SIDE, U.N.O.
3. WRITTEN DIMENSIONS TO PREVAIL OVER SCALING OF DRAWINGS. SUBCONTRACTOR TO VERIFY ALL DIM. PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT OF ANY DISCREPANCIES.
4. REFER 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 SCREEDS 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.
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LEGEND

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

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LEGEND

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

project

PRADU
City of Encinitas

revisions



description

Exterior
Elevations
- Reverse

date

Month 20##

project no.

20##_xxxxxx

drawn by

xxx/xxx

sheet no.

A3.1R



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$$\frac{3}{8}'' = 1'-0''$$


3/8"=1'-0"


$$\frac{3}{8}'' = 1'-0''$$
description

Building Sections

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date          ## Month 20##
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project no. 20##_xxxxxx

drawn by xxx/xxx

sheet no

A4.1

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project

PRADU
City of Encinitas

revisions



description

Building
Sections
- Reverse

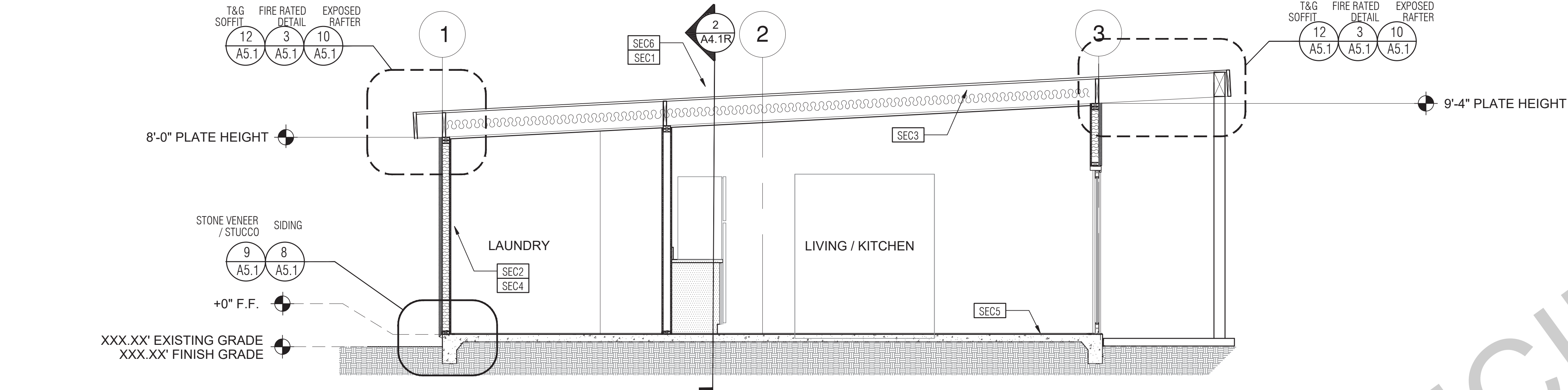
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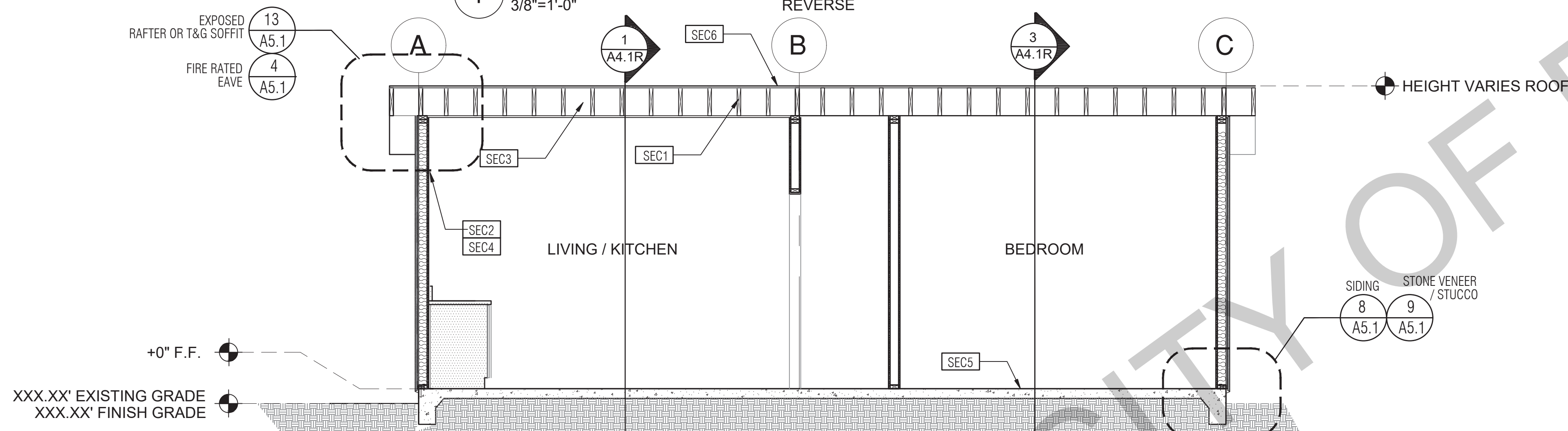
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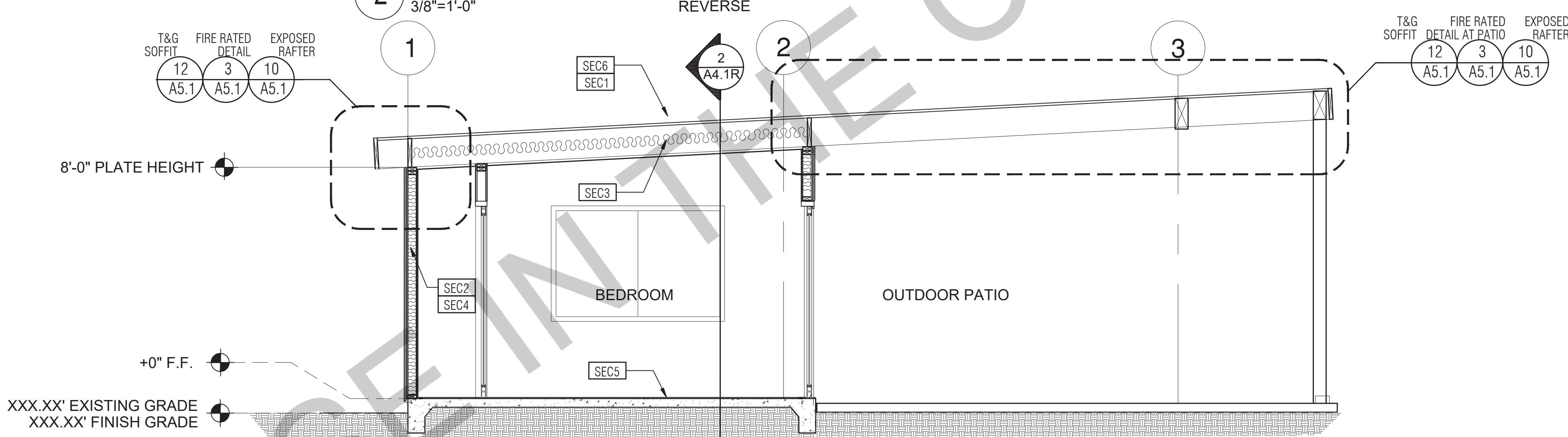
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Section - 1 Bedroom

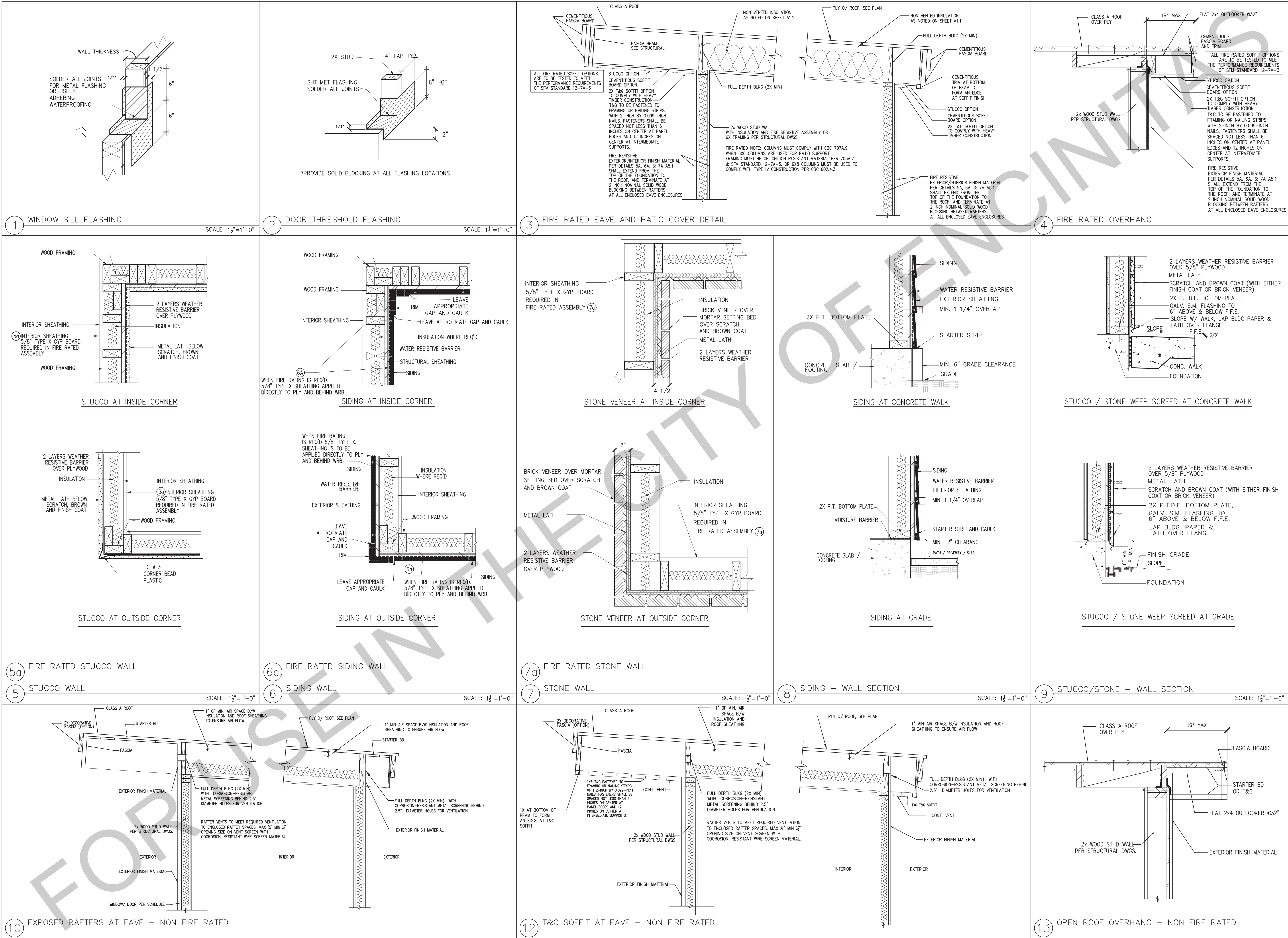


Section - 1 Bedroom



Section - 1 Bedroom

SECTION KEYNOTES	SECTION GENERAL NOTES	LEGEND
SEC1 RAFTERS PER PLAN SEE STRUCTURAL SEC2 2X STUDS @ 16" O.C. - SEE STRUCTURAL SEC3 CEILING INSULATION PER TITLE 24 ENERGY CALCULATIONS SEC4 WALL INSULATION PER TITLE 24 ENERGY CALCULATIONS SEC5 CONC. SLAB ON GRADE SEE STRUCTURAL SEC6 MINIMUM CLASS A ROOF ASSEMBLY - SEE ROOF PLAN FOR MANUFACTURER SPECIFICATIONS	1. METALS SEE PLANS AND DETAILS FOR LOCATIONS, QUANTITY AND CONFIGURATION OF MISCELLANEOUS IRON AND STEEL WORK INCLUDING ASSORTED CLIPS, BRACKETS, ANGLES, STRAPS, POST ANCHORS AND LIKE ITEMS. FURNISH AND INSTALL ALL SUCH ITEMS NECESSARY TO MAKE A COMPLETE INSTALLATION WHETHER OR NOT SPECIFICALLY DETAILED OR NOTED ON THE DRAWINGS. ALL EXTERIOR METAL AND HARDWARE IS TO BE GALVANIZED. STEEL IS TO BE ASTM A36. 2. RAFTER VENTS ARE TO BE STAINLESS STEEL MESH AND ARE TO BE SIZED TO MEET REQUIRED VENTILATION TO ENCLOSED RAFTER SPACES. MAX 1/2" MIN 1/2" OPENING SIZE ON VENT SCREEN WITH CORROSION-RESISTANT WIRE SCREEN MATERIAL. 3. FRAMER IS TO LAYOUT CEILING JOISTS/ROOF RAFTERS TO ACCOMMODATE RECESSED LIGHTS EXHAUST FANS OR OTHER ELECTRICAL/MECHANICAL FIXTURES. 4. WOOD SOFFIT/CEILING, SIDING & TRIM ALL WALLS, FASTENERS AND HARDWARE MUST BE STAINLESS STEEL OR HOT-DIPPED GALVANIZED. STAPLES ARE NOT PERMITTED 5. INSULATION THERMAL INSULATION IS TO BE FOIL BACKED BATT INSULATION WITH AN R VALUE NOT LESS SPECIFIED IN THE TITLE 24 ENERGY CALCULATIONS. AT BATHROOMS, LAUNDRY ROOM, AND MASTER BED/BATHROOMS INSULATION IS TO BE PROVIDED WITH SOUND INSULATION. 6. FLASHING AND SHEET METAL ALL FLASHING AND COUNTER FLASHING IS TO BE GALVANIZED AND INSTALLED AS PER SMACNA STANDARDS. ALL PROPOSED FLASHING AND SHEET METAL MATERIALS, GAUGE AND INSTALLATION IS TO BE IN ACCORDANCE WITH SMACNA MANUAL STANDARDS. 7. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN, ENCLOSED SPACES UNDER STAIRS SHALL COMPLY WITH SECTION R302.7. 8. THE PURPOSE OF THESE DRAWINGS IS TO SHOW CONSTRUCTION MATERIALS/ASSEMBLIES. FOR SPECIFIC SIZES AND DETAILS REFER TO ARCHITECTURAL PLANS, ELEVATIONS, DETAILS, & STRUCTURAL PLANS. "KEYNOTES ONLY APPLY IF REFERENCED ON PLANS" 1. INSULATION: REFER TO TITLE 24 REPORT FOR ADDITIONAL RATINGS, REQUIREMENTS, AND INFORMATION 2. FIRE BLOCKING TO BE LOCATED AT THE FOLLOWING LOCATIONS PER 2019 CRC SECTION R302.11: A. SECTION R302.11.1 1. FIREBLOCKING SHALL BE PROVIDED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS: A. VERTICALLY AT CEILING AND FLOOR LEVELS 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 11. SECTION R302.11.1 - FIREBLOCKING MATERIALS SHALL CONSIST OF FOLLOWING MATERIALS: 1. TWO-INCH NOMINAL LUMBER 2. TWO THICKNESS OF ONE-INCH NOMINAL LUMBER WITH BROKEN LAP JOINTS 3. THE THICKNESS OF 0.719-INCH WOOD STRUCTURAL PANELS WITH JOINTS BACKED BY 0.719-INCH WOOD STRUCTURAL PANELS 4. THE THICKNESS OF 0.75-INCH PARTICLE BOARD WITH JOINTS BACKED BY 0.75-INCH PARTICLE BOARD 5. ONE-HALF-INCH GYPSUM BOARD 6. ONE-FOURTH-INCH CEMENT-BASED MILLBOARD 7. BATTS OR BLANKETS OF MINERAL WOOL MINERAL FIBER OR OTHER APPROVED MATERIAL INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE 8. CELLULOSE INSULATION INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263, FOR THE SPECIFIC APPLICATION	SECTION CUT ELEVATION CALLOUT DETAIL DRAWING REF. ELEVATION MARKER



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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

- | 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 + 1/8", LENGTH <= 1 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 3/4" FROM THE EDGE OF CONCRETE. | | | | | | | | | | | | | | | | | | | |
| 206. | EMBEDDED SILL ANCHOR BOLTS AT TYPICAL NON-SHEARWALL CONDITIONS SHALL BE 3/8" 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 border="1"> <thead> <tr> <th>MISPLACED HOLDOWN</th><th>RETROFIT BOLT</th><th>REPLACEMENT HARDWARE</th></tr> </thead> <tbody> <tr> <td>LSTDH8, HTT4</td><td>3/8" ALL-THREAD, EMBED 9"</td><td>HTT4</td></tr> <tr> <td>STHD10, STHD14, HTT5</td><td>3/8" ALL-THREAD, EMBED 9"</td><td>HTT5</td></tr> <tr> <td>LTT20B</td><td>3/8" ALL-THREAD, EMBED 7"</td><td>LTT20B</td></tr> <tr> <td>LTT20B</td><td>ATTACH TO EXISTING A.B.</td><td>LTT20B</td></tr> <tr> <td>HDU8</td><td>3/8" ALL-THREAD, EMBED 15"</td><td>HDU8</td></tr> </tbody> </table> | | MISPLACED HOLDOWN | RETROFIT BOLT | REPLACEMENT HARDWARE | LSTDH8, HTT4 | 3/8" ALL-THREAD, EMBED 9" | HTT4 | STHD10, STHD14, HTT5 | 3/8" ALL-THREAD, EMBED 9" | HTT5 | LTT20B | 3/8" ALL-THREAD, EMBED 7" | LTT20B | LTT20B | ATTACH TO EXISTING A.B. | LTT20B | HDU8 | 3/8" ALL-THREAD, EMBED 15" | HDU8 |
| MISPLACED HOLDOWN | RETROFIT BOLT | REPLACEMENT HARDWARE | | | | | | | | | | | | | | | | | | |
| LSTDH8, HTT4 | 3/8" ALL-THREAD, EMBED 9" | HTT4 | | | | | | | | | | | | | | | | | | |
| STHD10, STHD14, HTT5 | 3/8" ALL-THREAD, EMBED 9" | HTT5 | | | | | | | | | | | | | | | | | | |
| LTT20B | 3/8" ALL-THREAD, EMBED 7" | LTT20B | | | | | | | | | | | | | | | | | | |
| LTT20B | ATTACH TO EXISTING A.B. | LTT20B | | | | | | | | | | | | | | | | | | |
| HDU8 | 3/8" ALL-THREAD, EMBED 15" | HDU8 | | | | | | | | | | | | | | | | | | |
| 214. | RETROFIT 3/8" & 1/2" EMBEDDED ANCHOR BOLTS AS NOTED BELOW. AT EPOXY ANCHORS USE SIMPSON SET-XP EPOXY PER SIMPSON'S INSTALLATION REQUIREMENTS. <table border="1"> <thead> <tr> <th>LOCATION</th><th>TYPE</th><th>REPLACEMENT</th></tr> </thead> <tbody> <tr> <td>SLAB EDGE, 1.3/4" DIST.</td><td>SHEARWALL</td><td>3/8" ALL-THREAD, EPOXY, EMBED 3" OR 3/8" TITEN HD, EMBED 3" MIN.</td></tr> <tr> <td>INTERIOR > 6" EDGE DIST.</td><td>SHEARWALL OR NON-SHEAR</td><td>3/8" 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> </tbody> </table> | | LOCATION | TYPE | REPLACEMENT | SLAB EDGE, 1.3/4" DIST. | SHEARWALL | 3/8" ALL-THREAD, EPOXY, EMBED 3" OR 3/8" TITEN HD, EMBED 3" MIN. | INTERIOR > 6" EDGE DIST. | SHEARWALL OR NON-SHEAR | 3/8" 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. | | | | | | |
| LOCATION | TYPE | REPLACEMENT | | | | | | | | | | | | | | | | | | |
| SLAB EDGE, 1.3/4" DIST. | SHEARWALL | 3/8" ALL-THREAD, EPOXY, EMBED 3" OR 3/8" TITEN HD, EMBED 3" MIN. | | | | | | | | | | | | | | | | | | |
| INTERIOR > 6" EDGE DIST. | SHEARWALL OR NON-SHEAR | 3/8" 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. | | | | | | | | | | | | | | | | | | |
| 215. | WHEN REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, HAVE CONTRACTOR DOCUMENTATION IN WRITING FOR THE FOLLOWING: <ul style="list-style-type: none"> 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 3/8" OR 5/8" C-D GRADE, INTERIOR TYPE PLYWOOD WITH EXTERIOR GLUE, OR OSB PANELS. IDENTIFICATION INDEX (24/0) 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. 5/8" GYPSUM WALLBOARD W/ 5D COOLER NAILS OR EQUAL @ 7" O/C TO ALL STUDS AND TO TOP & BOTTOM PLATES (UNBLOCKED) AT INTERIOR SIDE OF EXTERIOR WALLS AND AT BOTH SIDES OF ALL INTERIOR WALLS.

EXTERIOR SURFACES: SEE PLANS. WHERE "STUCCO" IS SPECIFIED PROVIDE 5/8" 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 1 1/2" 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.)

- 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 W/
 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.
 "JIC" 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 STANDARD GRADE OR BETTER
 92-1/4", 104-1/4", & 116-1/4" 2X4 STUDS STUD GRADE OR BETTER
 2X4 STUDS OVER 10' #2 OR BETTER
 2X4 SILLS & PLATES STANDARD OR BETTER
 2X6 STUDS, SILLS, & PLATES #2 OR BETTER
 4X4 STUDS & POSTS STANDARD OR BETTER
 4X6, 6X6, & LARGER STUDS & POSTS #1 OR BETTER
 4X4, 4X6, 4X8, 4X10 BEAMS & HEADERS #2 OR BETTER
 4X12, 4X14 BEAMS & HEADERS #1 OR BETTER
 6X4 BEAMS & HEADERS #2 OR BETTER
 6X6 & LARGER BEAM & HEADERS #1 OR BETTER
 2X6 AND LARGER RAFTERS AND JOISTS #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.)

- | <p>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.</p> | | | | | | | | | | | | | | | | | | |
|---|---------------------|------------|--|----------------------|---------------|--------------------|---------|---------------------|--------------------|-----------------|--------------------|-----------|-------------------|-------------|--------------------|-------------|-----------------|-------------|
| <p>322. ICC APPROVED CONNECTORS SHALL BE USED WHERE CONNECTORS ARE SPECIFIED. UNLESS OTHERWISE NOTED, THE FOLLOWING BEAM AND JOIST HANGERS SHALL BE USED:</p> <table> <tr> <td>BEAM OR JOIST</td><td>SIMPSON/USP HANGER</td></tr> <tr> <td>RAFTERS</td><td>LU, LUS, LUC, OR HU</td></tr> <tr> <td>1.75 X LSL AND LVL</td><td>HU, HUS, OR WPU</td></tr> <tr> <td>2.69 X PSL AND LVL</td><td>HU OR HWU</td></tr> <tr> <td>3.5 X PSL AND LVL</td><td>HHUS OR HWU</td></tr> <tr> <td>5.25 X PSL AND LVL</td><td>HHUS OR HWU</td></tr> <tr> <td>7 X PSL AND LVL</td><td>HHUS OR HWU</td></tr> </table> <p>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.</p> | | | | | 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 |
| 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 | | | | | | | | | | | | | | | | | |
| <p>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.</p> | | | | | | | | | | | | | | | | | | |
| <p>324. THE FOLLOWING HOLES IN SHEARWALLS ARE ALLOWED:</p> <p>A) APPROXIMATELY SQUARE HOLES NOTCHED, PUNCHED, OR CUT THAT ARE LESS THAN 25 SQ. INCHES</p> <p>B) APPROXIMATELY SQUARE HOLES CLEAN CUT OR BORED IN SHEARWALLS THAT ARE LESS THAN 64 SQ. INCHES (ONE HOLE PER 4' OF SHEARWALL.)</p> <p>C) APPROXIMATELY SQUARE HOLES, LESS THAN 64 SQ. INCHES (ONE HOLE PER 8' OF SHEARWALL) WITH ALL EDGES BLOCKED & EDGE NAILED.</p> <p>D) HOLES INDIVIDUALLY APPROVED BY THE ENGINEER OR ARCHITECT OF RECORD.</p> | | | | | | | | | | | | | | | | | | |
| <p>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 D#12 OR BETTER</p> | | | | | | | | | | | | | | | | | | |
| <p>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.</p> | | | | | | | | | | | | | | | | | | |
| <h2>4. ICC-ES AND NER APPROVALS</h2> | | | | | | | | | | | | | | | | | | |
| <p>400. PLYWOOD AND OSB PANELS:
APA PLYWOOD & OSB-ESR-2586</p> | | | <p>FULL REPORTS FOUND AT
HTTP://WWW.ICC-ES.ORG</p> | | | | | | | | | | | | | | | |
| <p>401. JOISTS AND RAFTERS AND BEAMS:
TRUS-JOIST TJI 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</p> | | | | | | | | | | | | | | | | | | |
| <p>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, 2677, 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</p> | | | | | | | | | | | | | | | | | | |
| <p>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</p> | | | | | | | | | | | | | | | | | | |
| <h2>5. NAILING & FASTENING</h2> | | | | | | | | | | | | | | | | | | |
| <p>500. 16D NAILS AS SHOWN ON THE DETAILS MAY BE COMMON, BOX, OR SINKER NAILS (0.135" MIN. DIA)</p> | | | | | | | | | | | | | | | | | | |
| <p>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.</p> | | | | | | | | | | | | | | | | | | |
| <p>502. ALTERNATE NAILING FOR ROOF SHEATHING:
8D 2 1/2" X 0.135 WIRE BARBED NAILS BY CUTLER OR EQUAL.</p> | | | | | | | | | | | | | | | | | | |
| <p>503. ALTERNATE NAILING FOR FLOOR SHEATHING: #8 X 2" SELF SETTING WOOD SCREWS, OR 8D 2 1/2" X 0.135 OR 0.148 SCREW SHANK FLOOR NAILS BY CUTLER OR EQUAL</p> | | | | | | | | | | | | | | | | | | |
| <p>504. SHEAR PANELS WHERE 8D COMMON NAILS ARE SPECIFIED:
10D 2 1/2" X 0.148" WIRE BARBED NAILS BY CUTLER OR EQUAL</p> | | | | | | | | | | | | | | | | | | |
| <h2>NAIL SIZES</h2> | | | | | | | | | | | | | | | | | | |
| SIZE OF NAIL | STANDARD LENGTH | WIRE GAUGE | SIZE (INCHES) | PENETRATION REQUIRED | | | | | | | | | | | | | | |
| <h3>BOX NAILS</h3> | | | | | | | | | | | | | | | | | | |
| 6D | 2" | 12 □ | 0.099 | 1" | | | | | | | | | | | | | | |
| 8D | 2 1/4" | 11 □ | 0.113 | 1" | | | | | | | | | | | | | | |
| 10D | 3" | 10 □ | 0.128 | 1 1/4" | | | | | | | | | | | | | | |
| 12D | 3" | 10 □ | 0.128 | 1 1/4" | | | | | | | | | | | | | | |
| 16D | 3 1/4" | 10 | 0.135 | 1 1/4" | | | | | | | | | | | | | | |
| 16D SINKER | 3" | 9 | 0.148 | 1 1/4" | | | | | | | | | | | | | | |
| <h3>COMMON NAILS</h3> | | | | | | | | | | | | | | | | | | |
| 6D | 2" | 11 □ | 0.113 | 1" | | | | | | | | | | | | | | |
| 8D | 2 1/4 □" | 10 | 0.131 | 1 1/4" | | | | | | | | | | | | | | |
| 10D | 3" | 9 | 0.148 | 1 1/2" | | | | | | | | | | | | | | |
| 12D | 3" | 9 | 0.148 | 1 1/2" | | | | | | | | | | | | | | |
| 16D | 3 1/4" | 8 | 0.162 | 1 1/2" | | | | | | | | | | | | | | |

6. NAILING SCHEDULE, MINIMUMS (CBC CHAPTER 23, TABLE 2304.10.2)

- | | | | |
|---|--|----------------------------|--|
| BLKNG AT CEILING JOISTS, RAFTERS, OR TRUSSES TO TOP PLATE, OTHER FRAMING, T.N. | | | 4-8D Box, 3-8D Com, 3-10D box, 3-3" x 0.131" nails, 3-3" 14 gage staples |
| BLKNG AT CEILING RAFTERS OR TRUSSES NOT AT WALL TOP PLATE TO RAFTER OR TRUSS, T.N. | | | 2-8D Com, 2-3" x 0.131" nails, 2-3" 14 gage staples |
| BLKNG AT CEILING RAFTERS OR TRUSSES NOT AT WALL TOP PLATE TO RAFTER OR TRUSS, E.N. | | | 2-8D Com, 3-3" x 0.131" nails, 3-3" 14 gage staples |
| FLAT BLKNG TO TRUSS AND WEB, F.N. | | | 16D Com, 3" x 131" nails, 3"x14 gage staples @ 6" o.c |
| CEILING JOISTS TO TOP PLATE, T.N. | | | 4-8D box, 3-8D Com, 3-10D box, 3-3" x 0.131" nails, 3-3" 14 gage staples |
| CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS, F.N. PER 2308.7.3.1 | | | 3-16D Com, 4-10d box, 4-3" x 0.131" nails, 4-3" 14 gage staples |
| CEILING JOISTS ATTACHED TO PARALLEL RAFTER (HEEL JOINT), F.N. PER 2308.7.3.1 | | | 3-16D Com, 4-10d box, 4-3" x 0.131" nails, 4-3" 14 gage staples |
| COLLAR TIE TO RAFTER, F.N. | | | 3-10d Com, 4-10d box, 4-3"x0.131" nails, 4-3" 14 gage staples |
| RAFTER/TRUSS TO TOP PLATE, T.N. PER TABLE 2308.7.3.5 | | | 3-10d Com, 3-16d or 4-10d box, 4-3" x 0.131" nails, 4-3" 14 gage staples |
| RAFTERS TO RIDGE VALLEY OR HIP, OR FATER TO 2" RIDGE BEAM | | | |
| TOENAIL | | | 4-16d box, 3-10d Com, 3-16d or 4-10d box, 4-3" x 0.131" nails, 4-3" 14 gage staples |
| ENDNAIL | | | 2-16d Com, 3-16d box, 3-10d box, 3-3" x 0.131" nails, 3-3" 14 gage staples |
| STUD TO STUD (NOT AT BRACED WALL PANELS) | | | 16d Com @ 24" o.c. FN OR 2-10d box, 3" x 0.131" nails, 3-3" 14 gage staples @ 16" o.c. FN |
| STUD TO STUD AT INTERSECTING WALL CORNERS (BRACED WALL) | | | 16d Com @ 16" o.c. FN OR 16d Box, 3" x 0.131" nails, 3-3" 14 gage staples @ 12" o.c. FN |
| BUILT-UP HEADER (2" TO 2"), FN EA EDGE | | | 16d Com @ 16" o.c. OR 16d Box @ 12" o.c. |
| CONT. HEADER TO STUD, T.N. | | | 4-8D Com, 4-10d Box, 5-8d box |
| TOP PLATE TO TOP PLATE | | | 16d Com @ 16" o.c. FN OR 10d Box, 3" x 0.131" nails, 3" 14 gage staples @ 12 o.c. FN |
| TOP PLATE TO TOP PLATE, AT END JOINTS (EACH SIDE OF END JOINT), FACENAIL | | | |
| 24" MIN LAP SPLICE EA. SIDE | | | 8-16d Com, 12-16d Box, 12-10d Box, 12-3" x 0.131" nails, 12-3" 14 gage staples |
| BOTTOM PLATE TO JOIST, RIM, OR BLKG, FACENAIL | | | |
| UNBRACED WALL: 16" o.c. FN | | | 16d Com |
| UNBRACED WALL: 12" o.c. FN | | | 16d Box, 3" x 0.131" nails, 3" 14 gage staples |
| BRACED WALL: 16"o.c. FN | | | 2-16d Com, 3-16d Box,4-3"x.131" nails,4-3" 14 gage staples |
| STUD TO TOP OR BOTTOM PLATE | | | |
| TOENAIL | | | 4-8D Box, 4x10d Box, 4-8D Com, 3-16d Box, 4-3"x0.131" nails, 4-3" 14 gage staples |
| ENDNAIL | | | 3-16d Box, 2-16d Com, 3-10d Box, 3-3"x0.131" nails, 3-3" 14 gage staples |
| TOP PLATES, LAPS AT CORNERS AND INTERSECTION, F.N. | | | 2-16d Com, 3-10d box, 3-3" x 0.131" nails, 3-3" 14 gage staples |
| 1" BRACE TO EACH STUD AND PLATE, F.N. | | | 3-8d Box, 2-8d Com, 2-10d Box, 2-3" x 0.131" nails, 2-3" 14 gage staples |
| 1"x6" SHEATHING TO EACH BEARING, F.N. | | | 3-8d Box, 2-1.75" 16 gage staples, 2-8d Com, 2-10d Box |
| 1"x8" SHEATHING AND WIDER TO EACH BEARING, F.N. | | | 4-8d box, 4-1.75" 16 gage staples, 3-8d Com, 3-10d Box |
| JOIST TO SILL, TOP PLATE, OR GIRDER, T.N. | | | 4-8d box, 3-8d Com, 3-10d Box, 3-3" x 0.131" nails, 3-3" 14 gage staples |
| RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER | | | 8d Box @ 4" o.c. TN OR 8d Com, 10d Box, 3" x 0.131" nails, 3" 14 gage staples @ 6" o.c. TN |
| 1"x6" SUBFLOOR OR LESS TO EACH JOIST, F.N. | | | 2-1.75" Gage Staples, 2-8d Com, 3-10d Box |
| 2" SUBFLOOR TO JOIST OR GIRDER, F.N. or BLIND | | | 3-16d Box, 2-16d Com |
| 2" PLANKS (PLANK & BEAM - FLOOR or ROOF), FACENAIL & EACH BEARING | | | |
| BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS | | | |
| 32" o.c. FN Top & BTM STAGGERED ON OPPOSITE SIDES | | | 20d Com |
| 24" o.c. FN Top & BTM | | | 10d Box, 3"x0.131" nails, 3" 14 gage staples |
| ENDS & SPLICES, FN | | | 2-20d Com, 3-10d Box, 3-3"x0.131" nails, 3-3" 14 gage staples |
| LEDGER SUPPORTING JOISTS/RAFTERS | | | 4-16d Box, 3-16d Com, 4-10d Box, 4-3"x0.131, 4-3" 14ga. STAPLES |
| JOIST TO BAND OR RIM JOIST, END NAIL | | | 3-16d Com, 4-10d Box, 4-3"x0.131, 4-3" 14ga. STAPLES |
| BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS EACH END, T.N. | | | 2-8d Com, 2-10d box, 2-3" x 0.131" nails, 2-3" 14 gage staples |
| WOOD STRUCT. PANELS, SUBFLOOR, ROOF AND INTERIOR WALL SHING TO FRMG AND PARTICLEBOARD WALL SHEATHING TO FRAMING | | | |
| | EDGES (IN) | INTERMEDIATE SUPPORTS (IN) | |
| $\frac{3}{8}" \times \frac{1}{2}"$ | 16d Com or deformed; or $2\frac{3}{8}" \times .113"$ nail (subfloor a/nd wall) | 6 | 12 |
| | 8d Com or deformed (roof) or $2\frac{3}{8}" \times .113"$ nail (roof) | 6 ^f | 6 ^f |

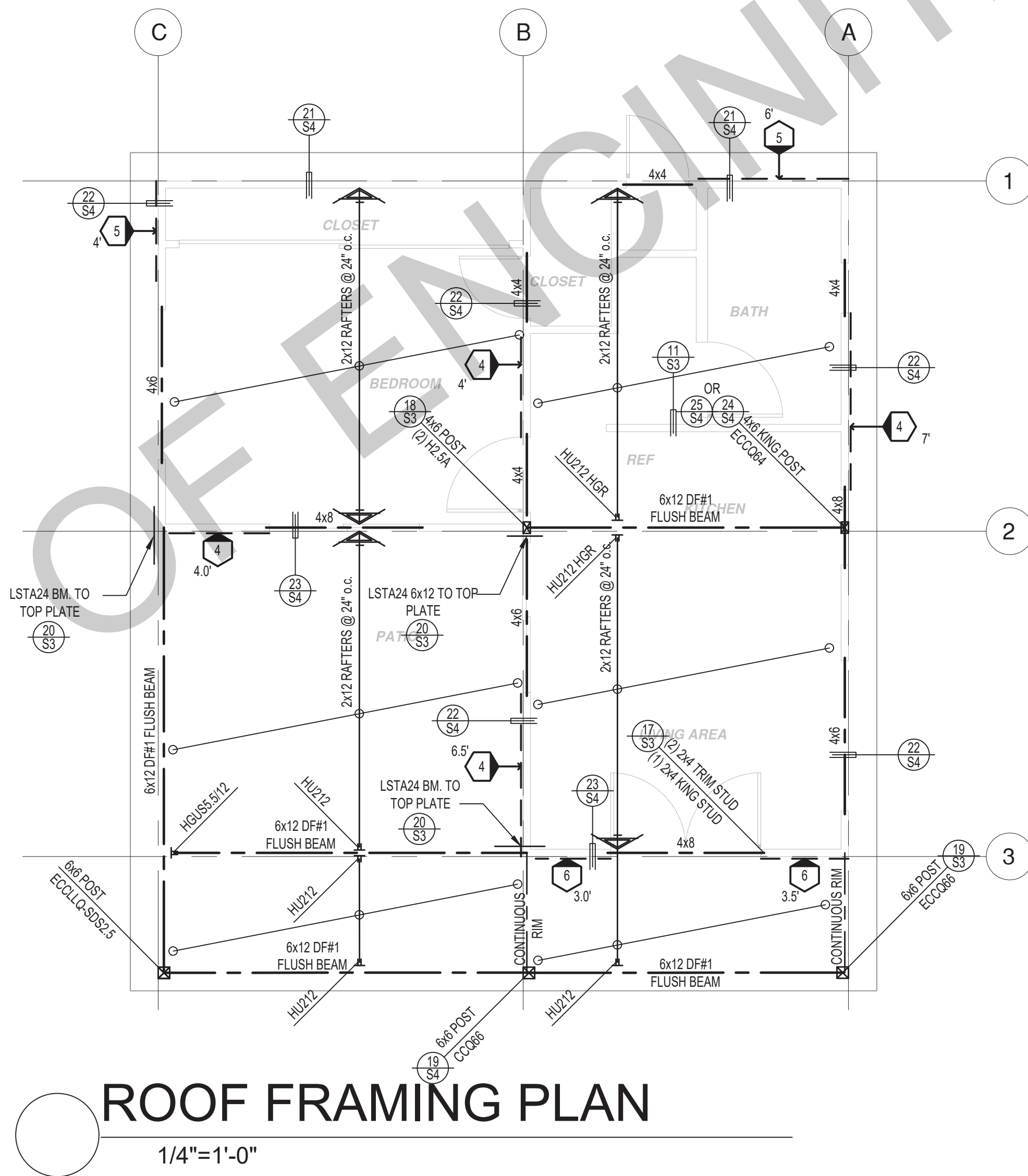
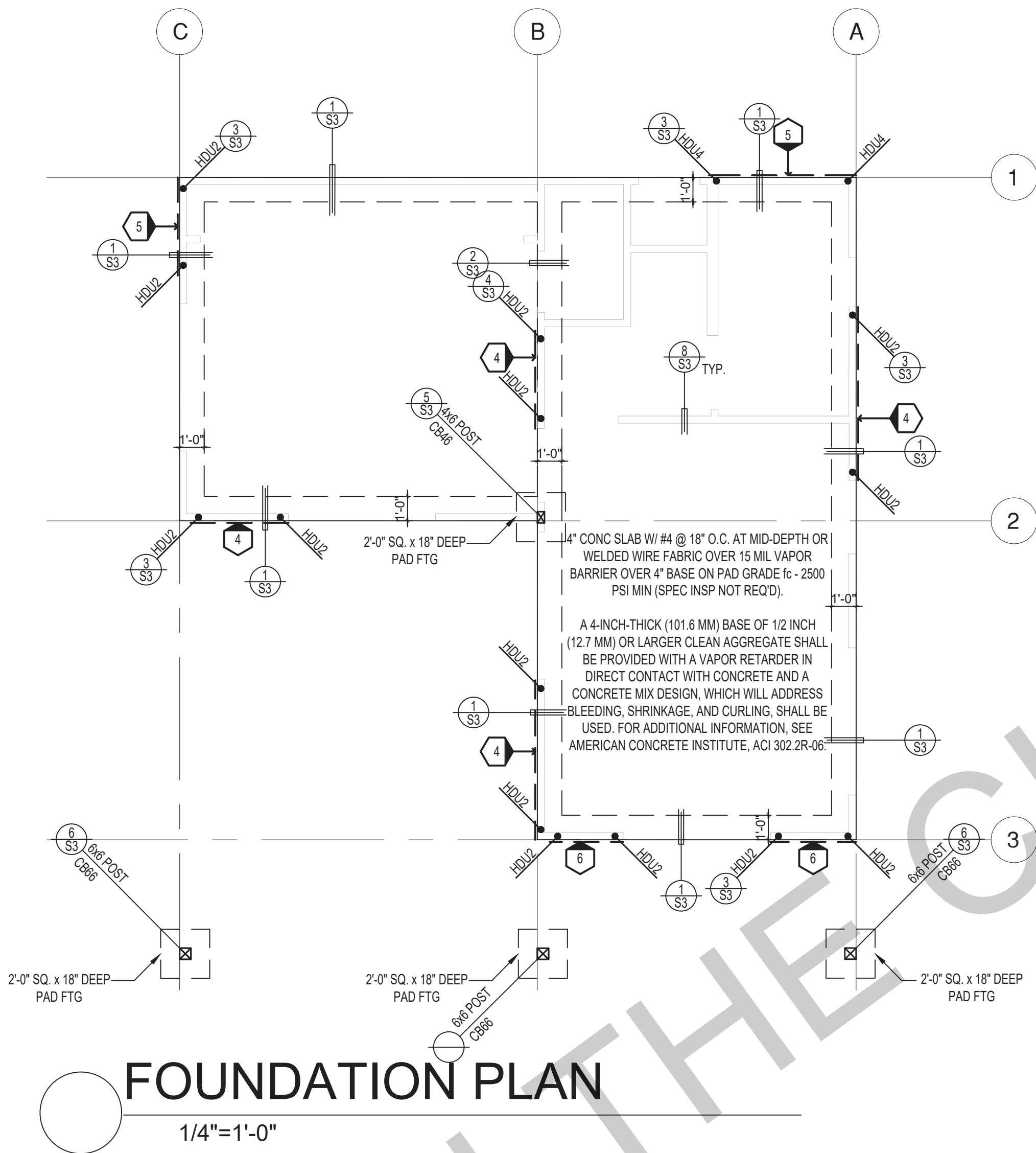
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4. IF THE RECIPIENT DOES NOT AGREE WITH THE ABOVE CONDITIONS, DO NOT PROCEED WITH CONSTRUCTION OF AN ADU OR OTHER IMPROVEMENT UNDER THESE PLANS AT ALL.



SHEAR WALL SCHEDULE (ASD VALUES)

FOUNDATION NOTES	4	5	6	7	8	9
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.						
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 1/2" x 4 1/2" SDS screws @ 8"	1 1/2" x 4 1/2" SDS screws @ 8"
SPACING OF A35LTP4 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.
- (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 1/2" OR LESS FROM THE EDGE OF THE SILL PLATE ON THE SIDE OF THE SHEATHING. ALL NAILING SHALL BE 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.

project
PRADU
City of Encinitas

revisions
01

description
Foundation /
Framing Plan

date
Month 20##

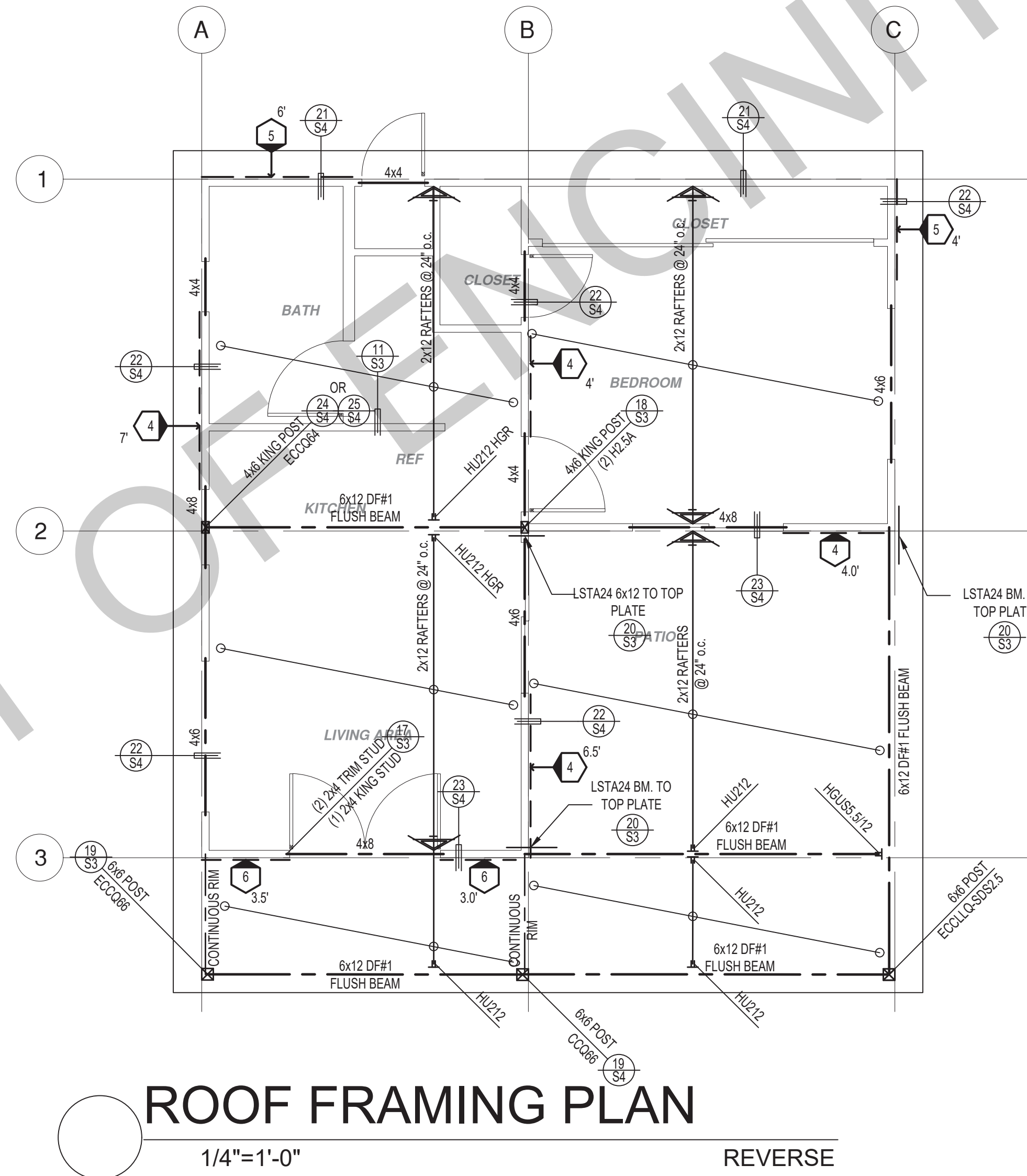
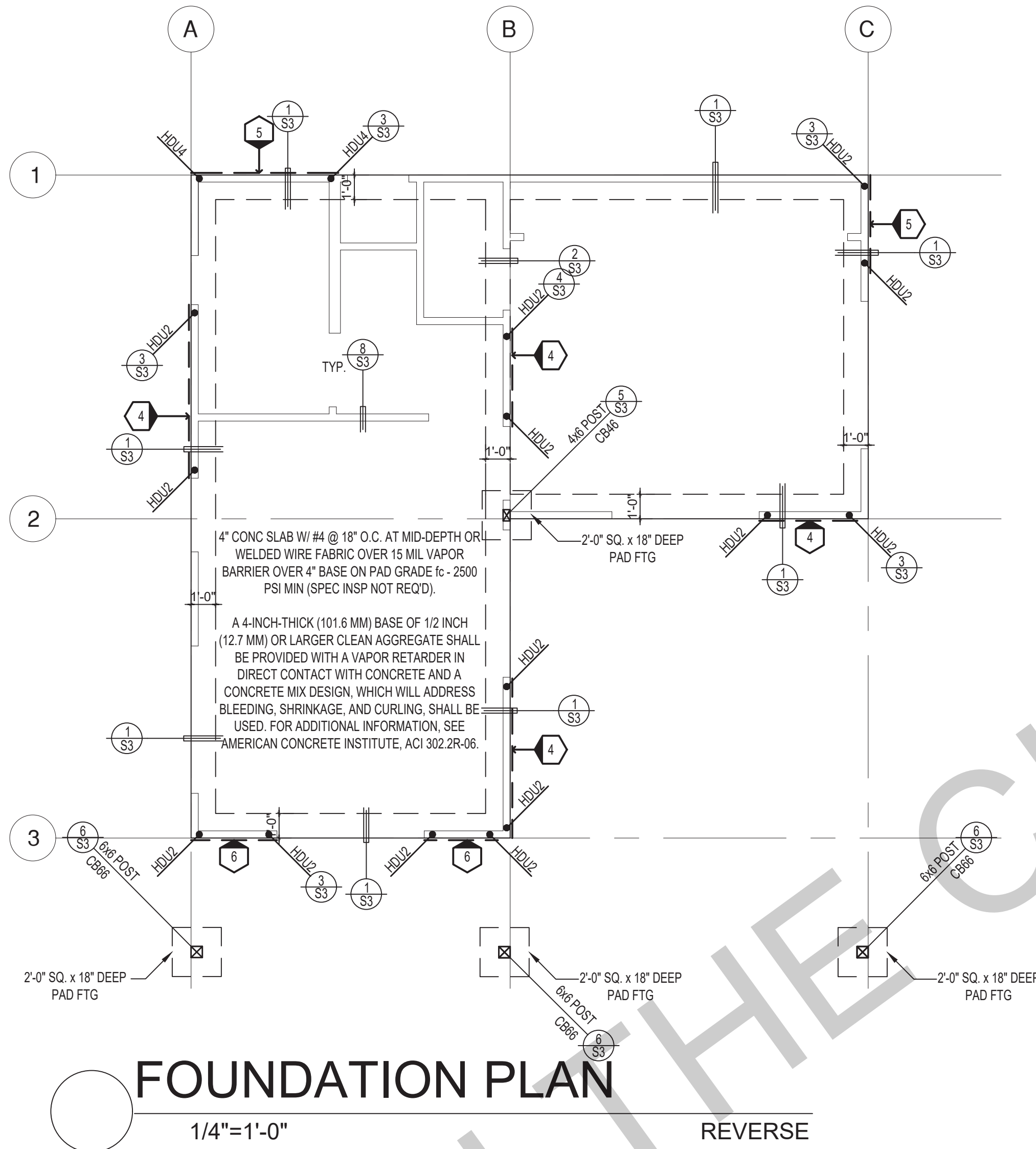
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SHEAR WALL SCHEDULE (ASD VALUES)

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 1/2" x 4 1/2" SDS screws @ 8"	1 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 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 1/2" OR LESS FROM THE EDGE OF THE SILL PLATE ON THE SIDE OF THE SHEATHING. ALL NAILING SHALL BE 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.

project
PRADU
City of Encinitas

revisions



description

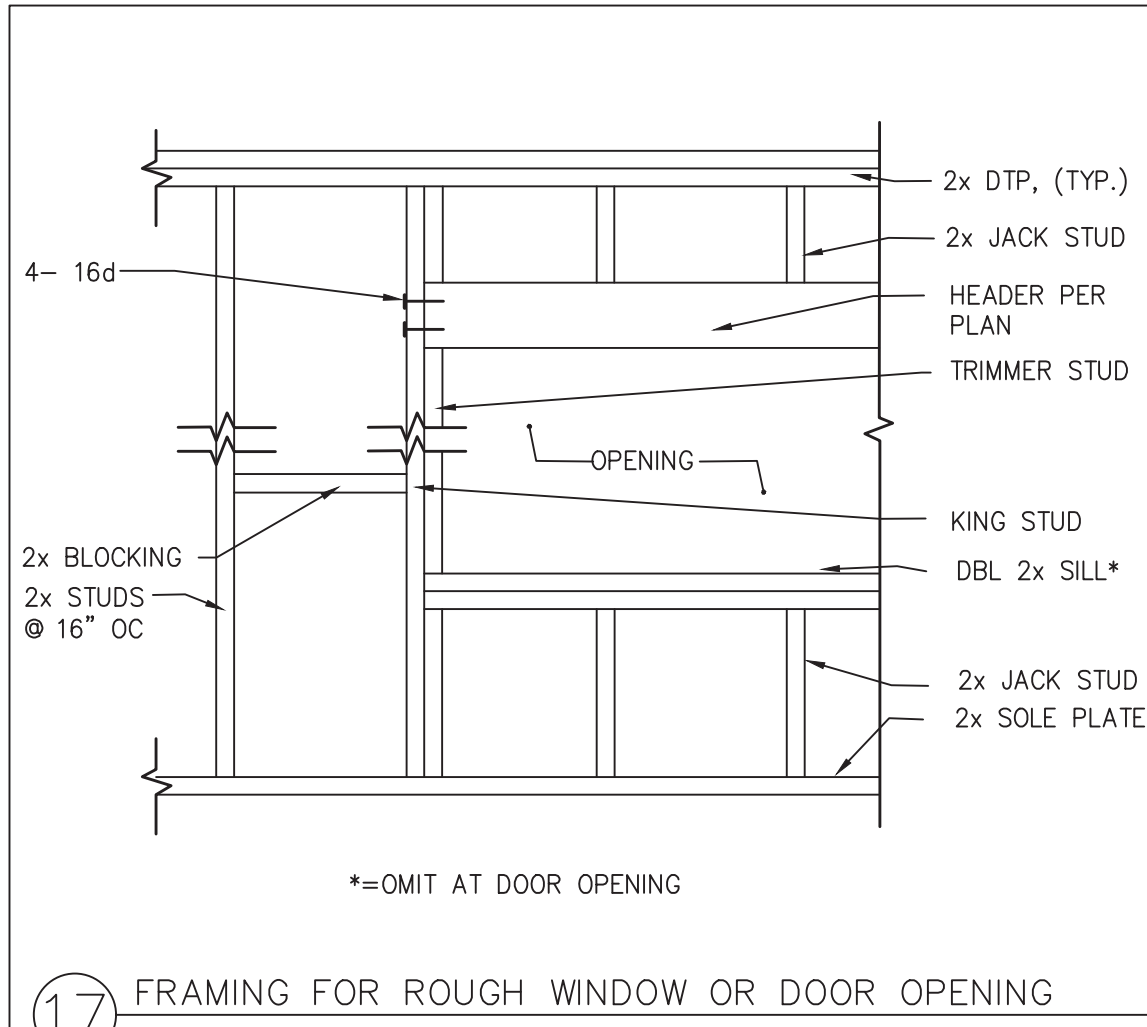
Foundation /
Framing Plan
- Reverse

date ## Month 20##

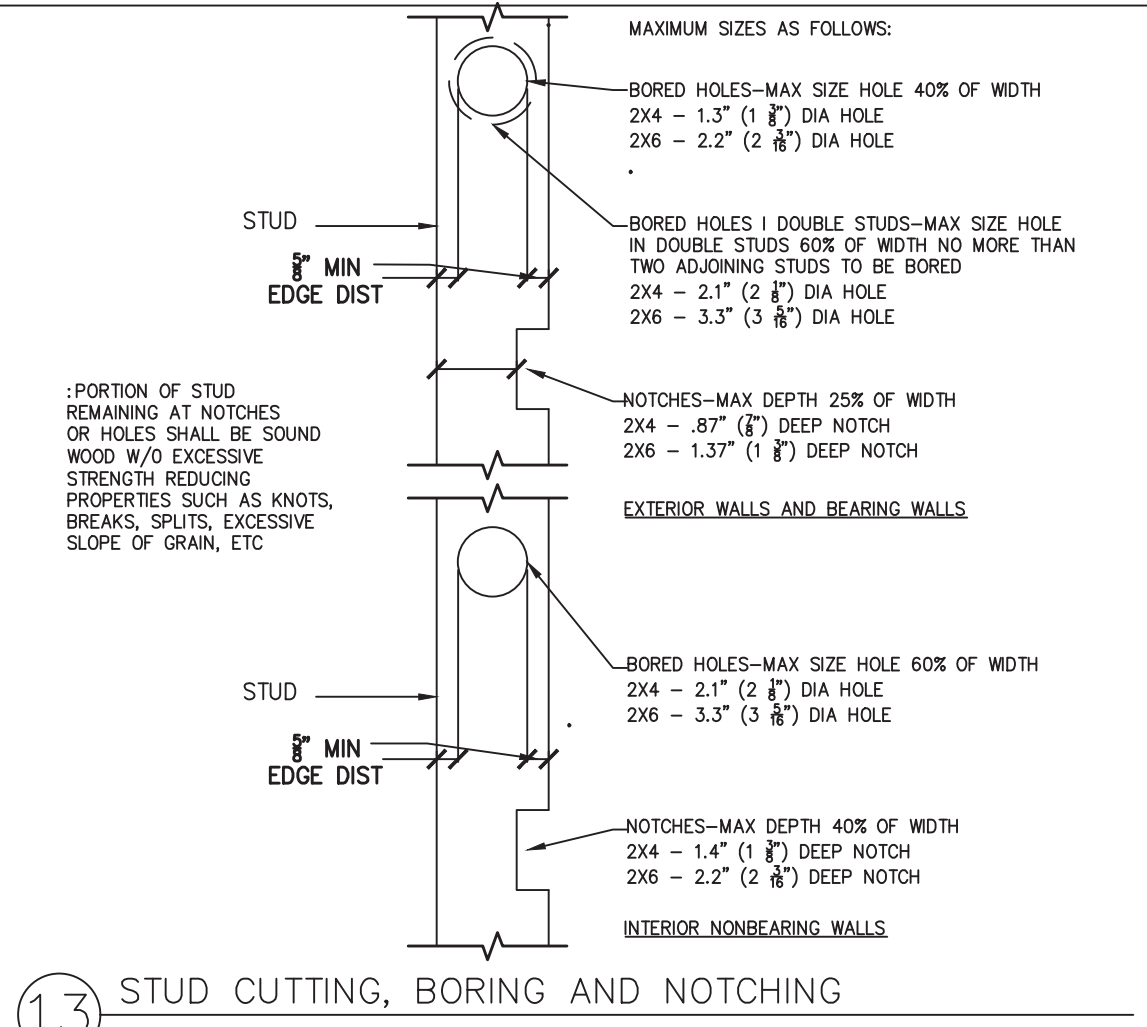
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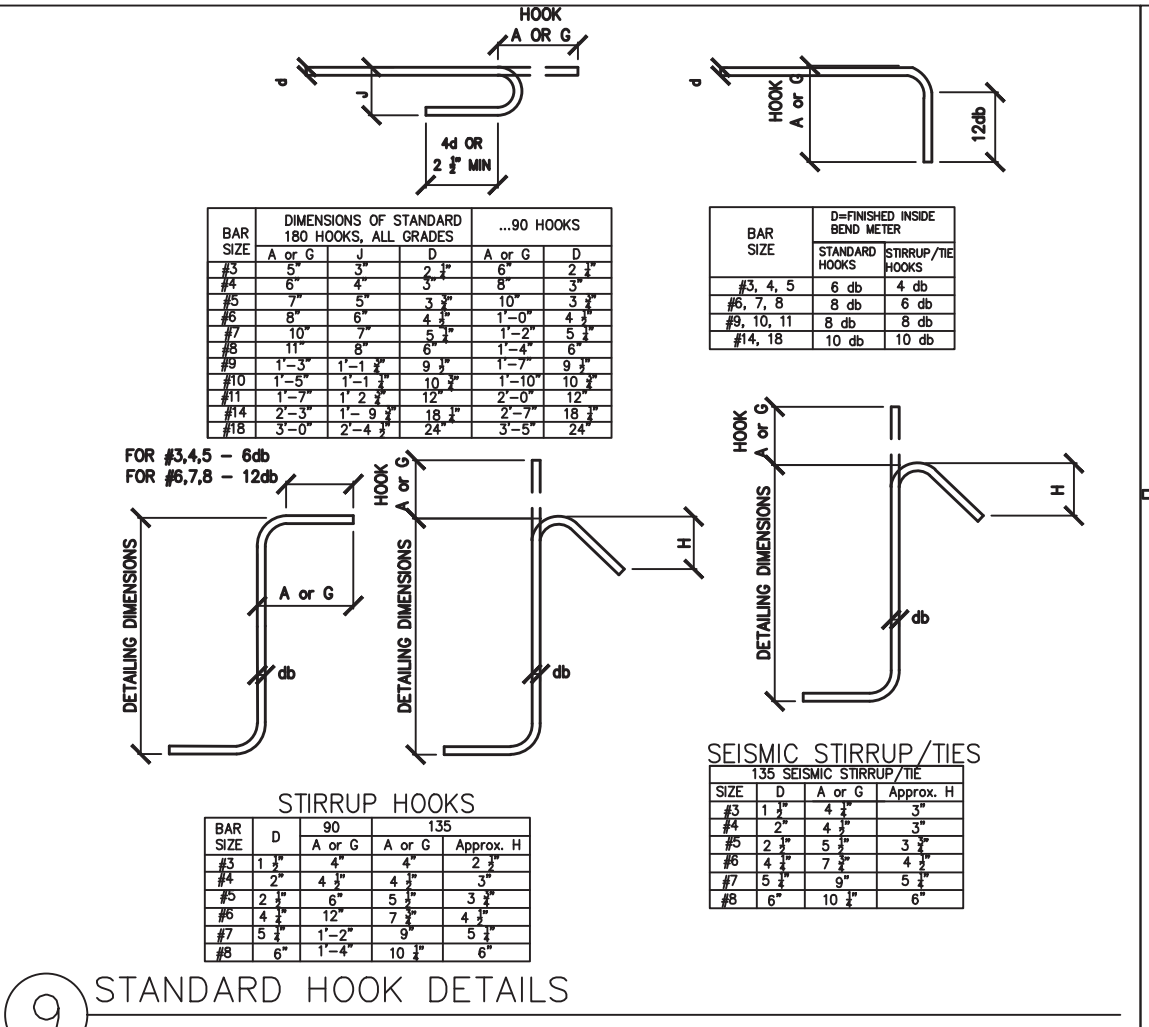
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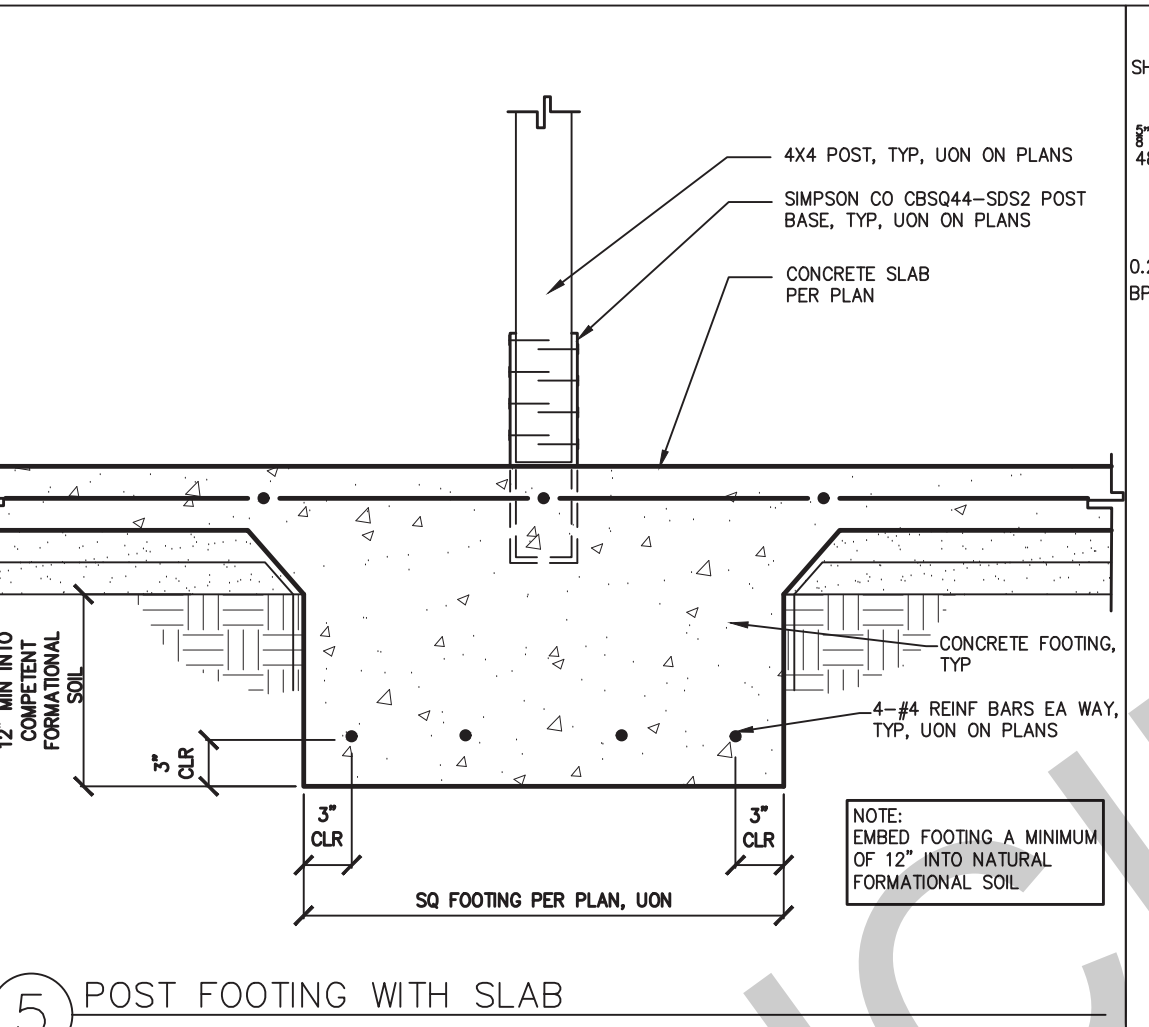
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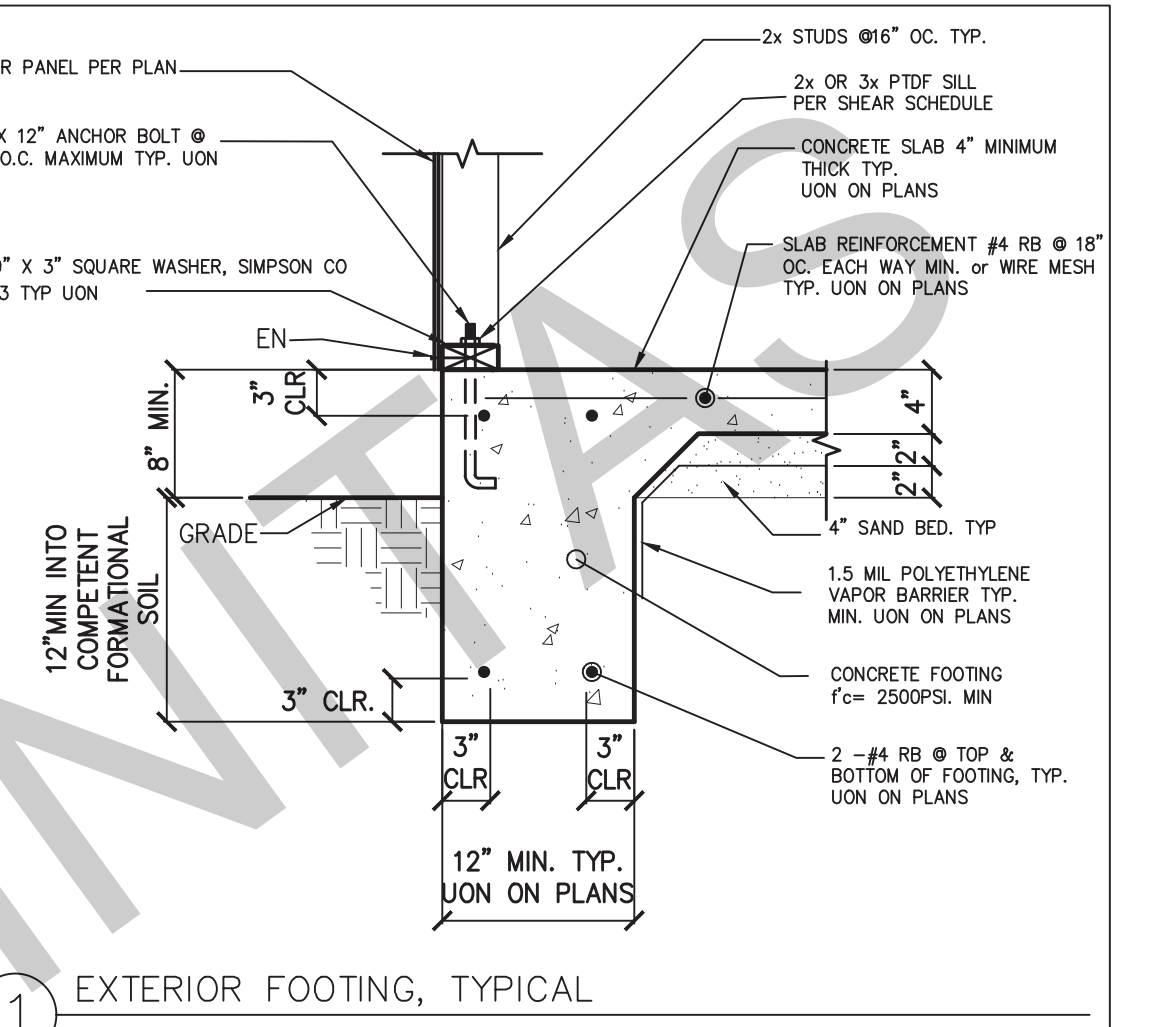
13 STUD CUTTING, BORING AND NOTCHING



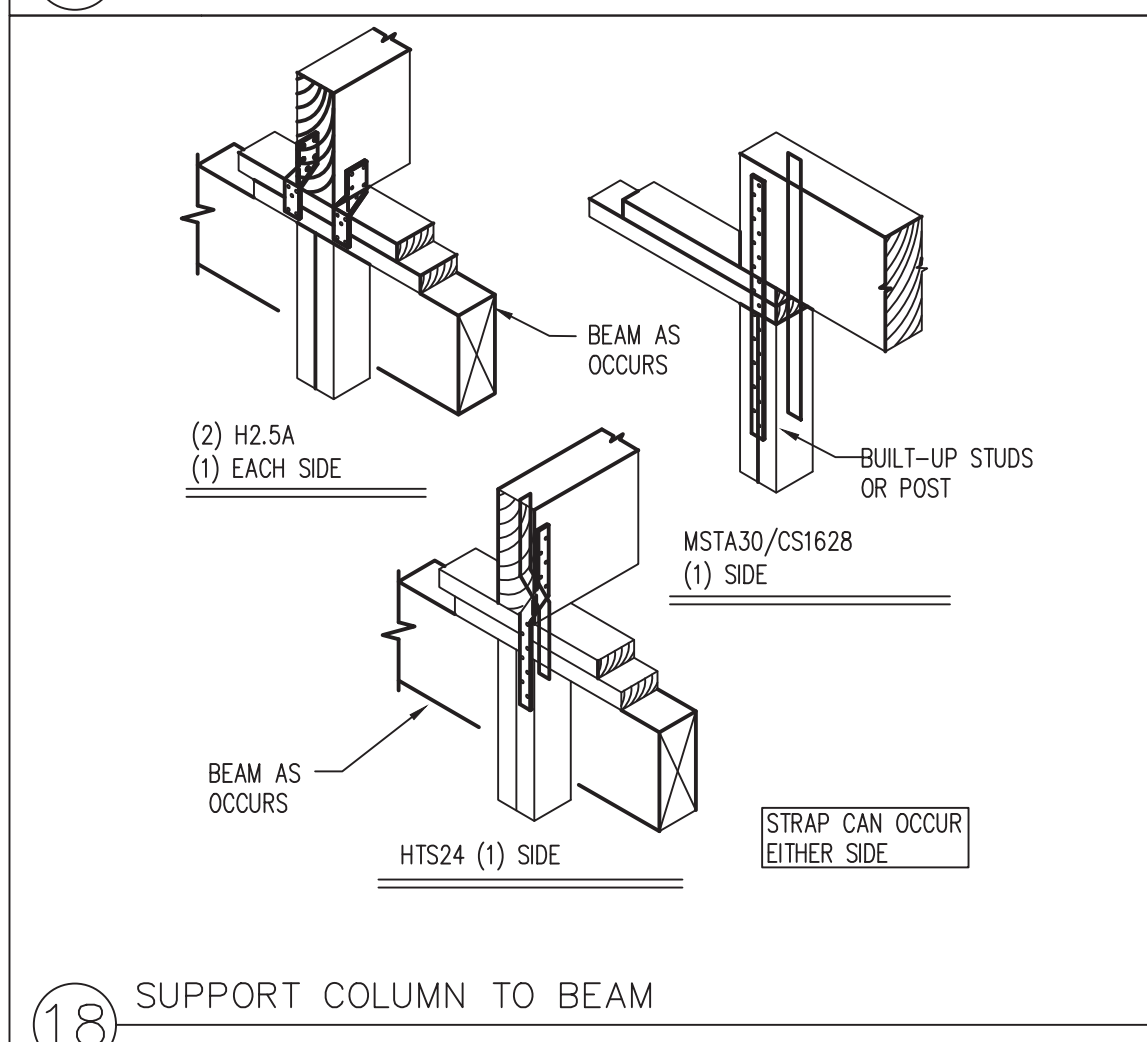
9 STANDARD HOOK DETAILS



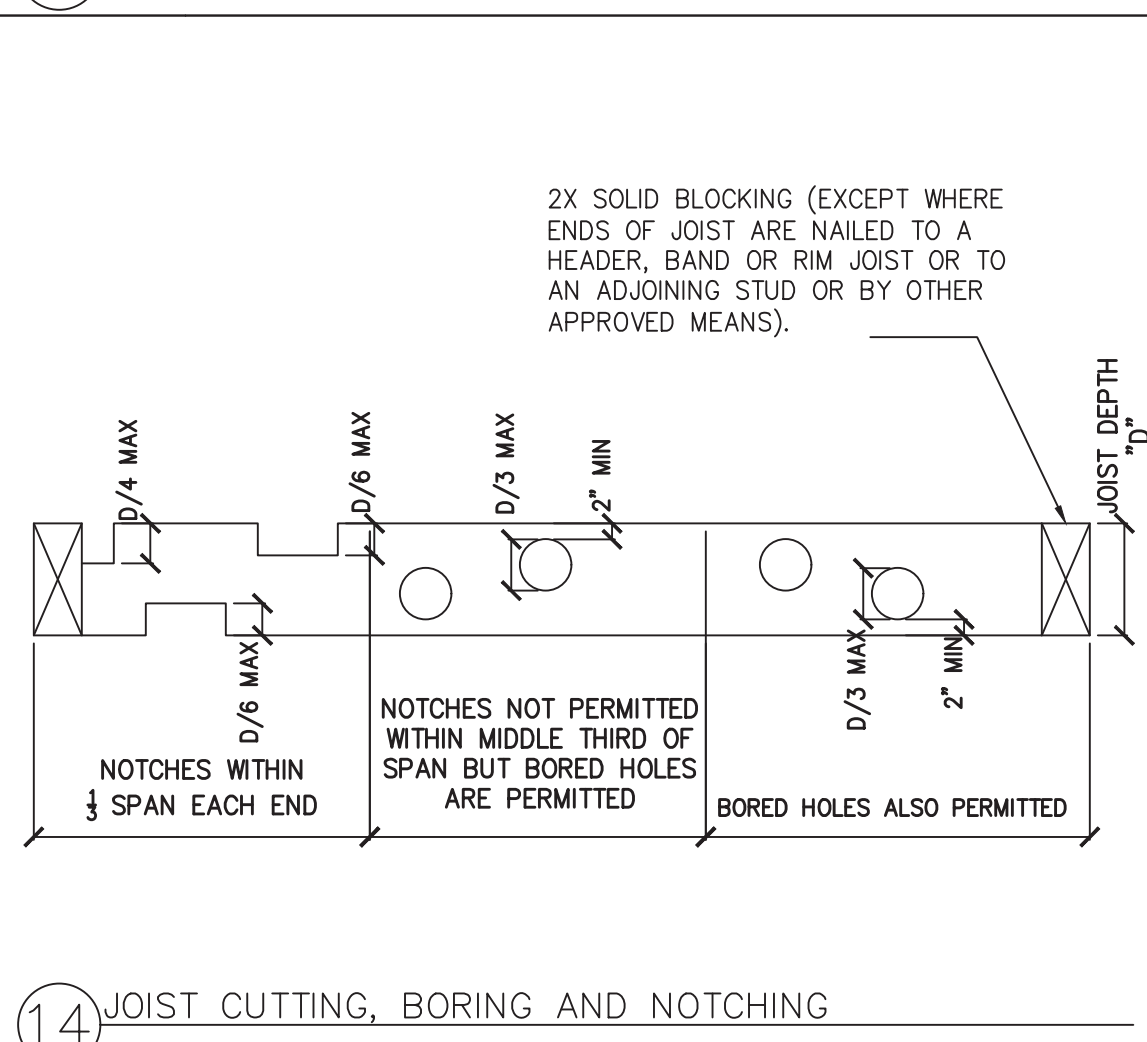
5 POST FOOTING WITH SLAB



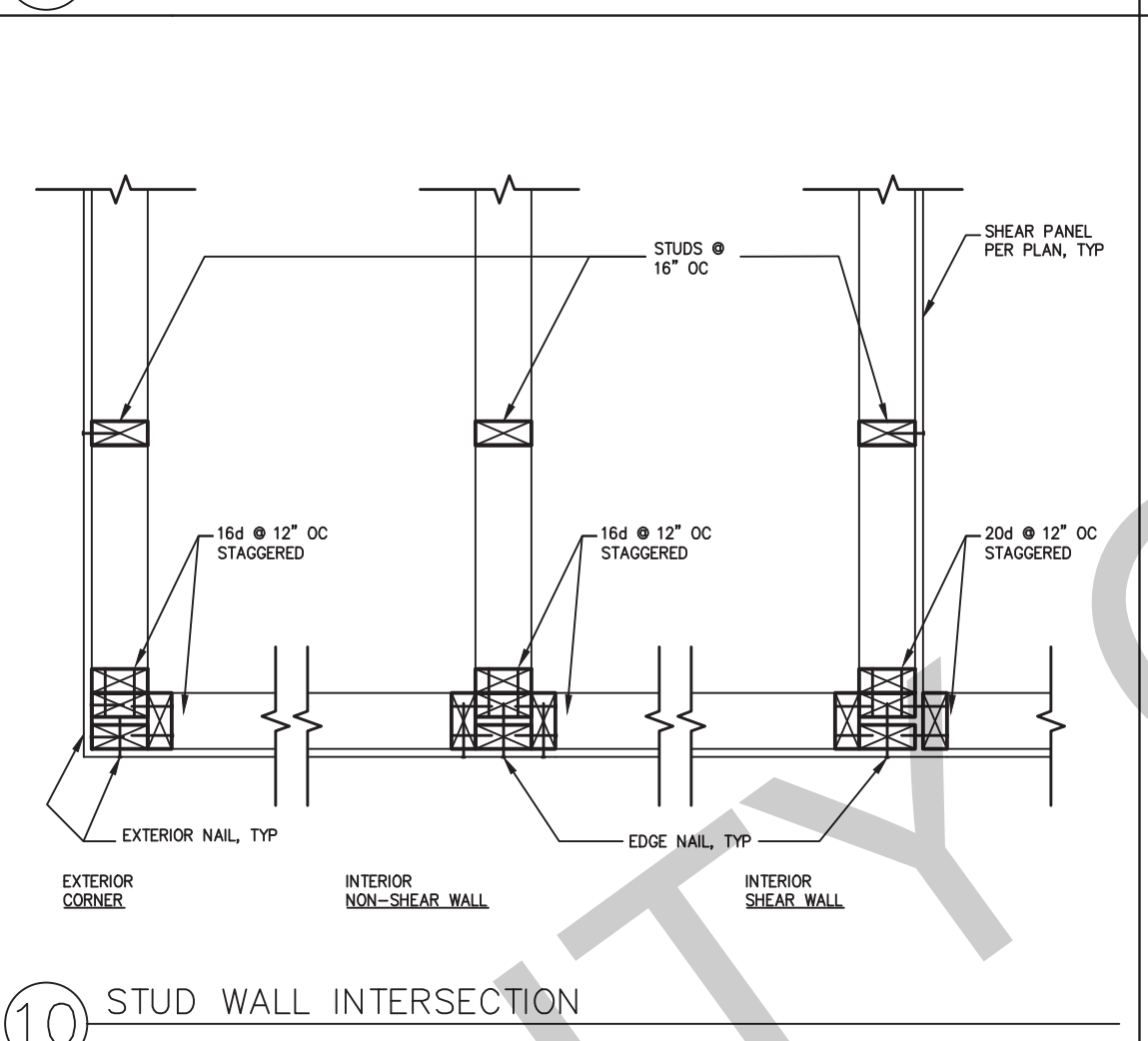
1 EXTERIOR FOOTING, TYPICAL



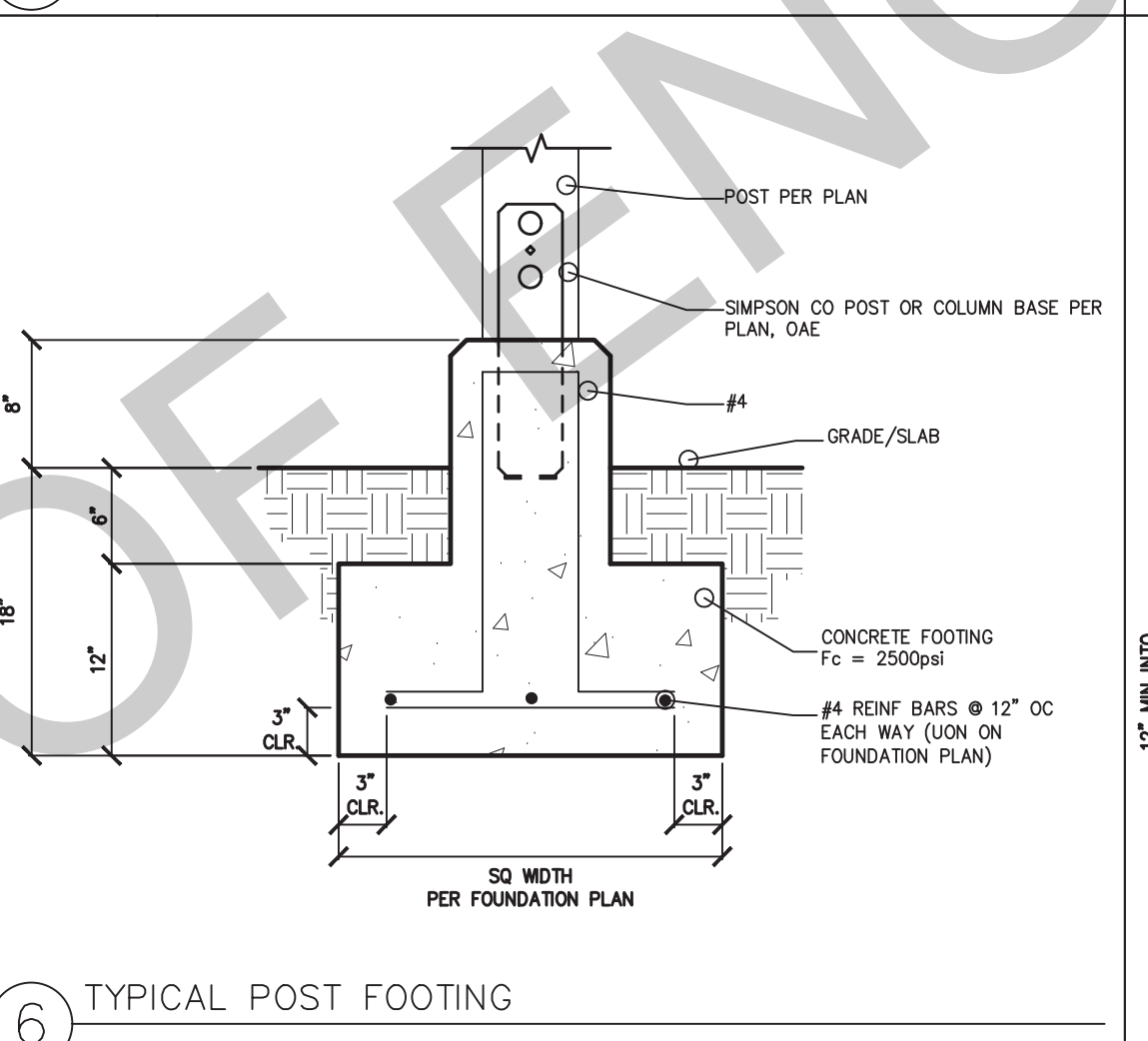
18 SUPPORT COLUMN TO BEAM



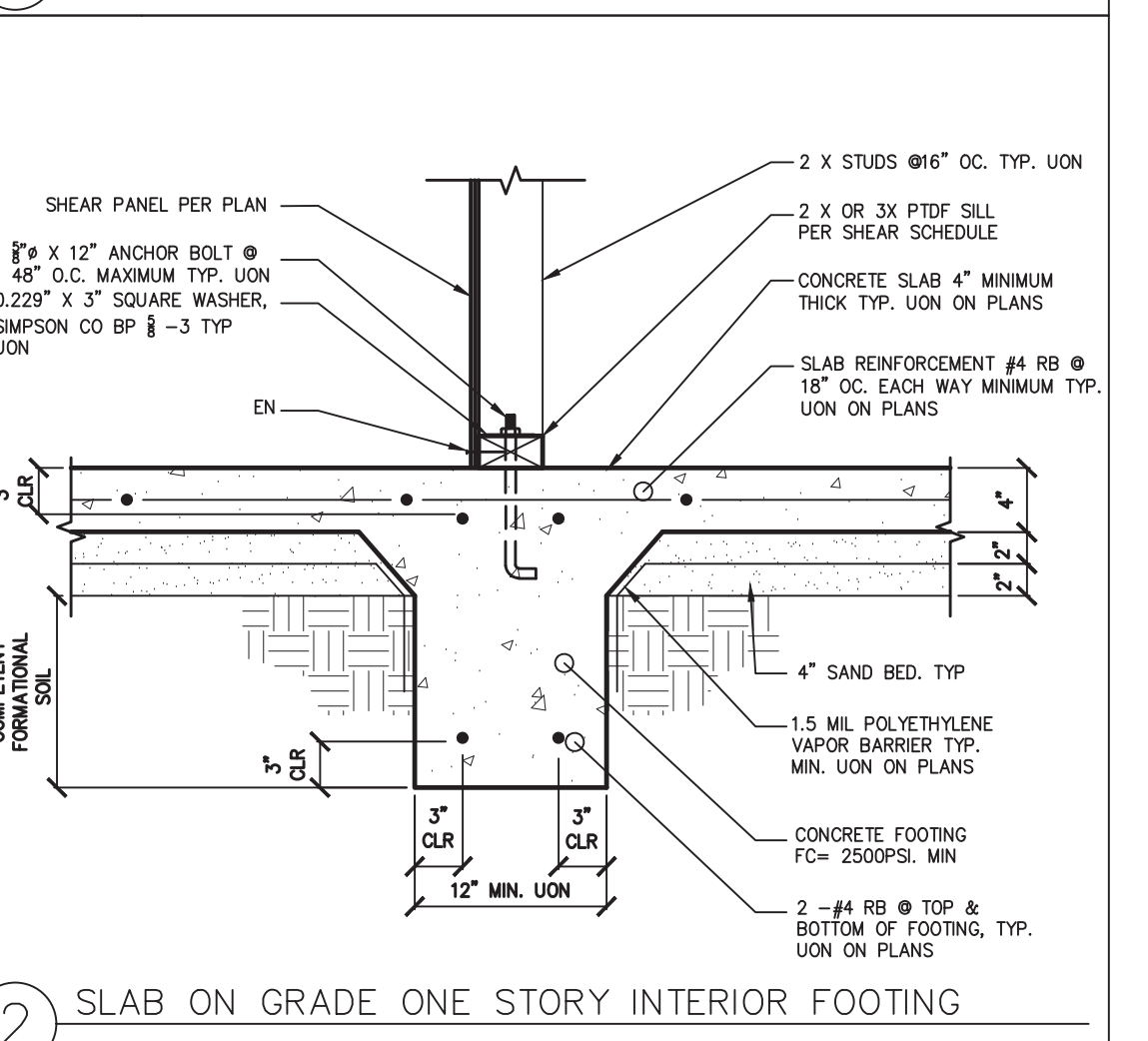
14 JOIST CUTTING, BORING AND NOTCHING



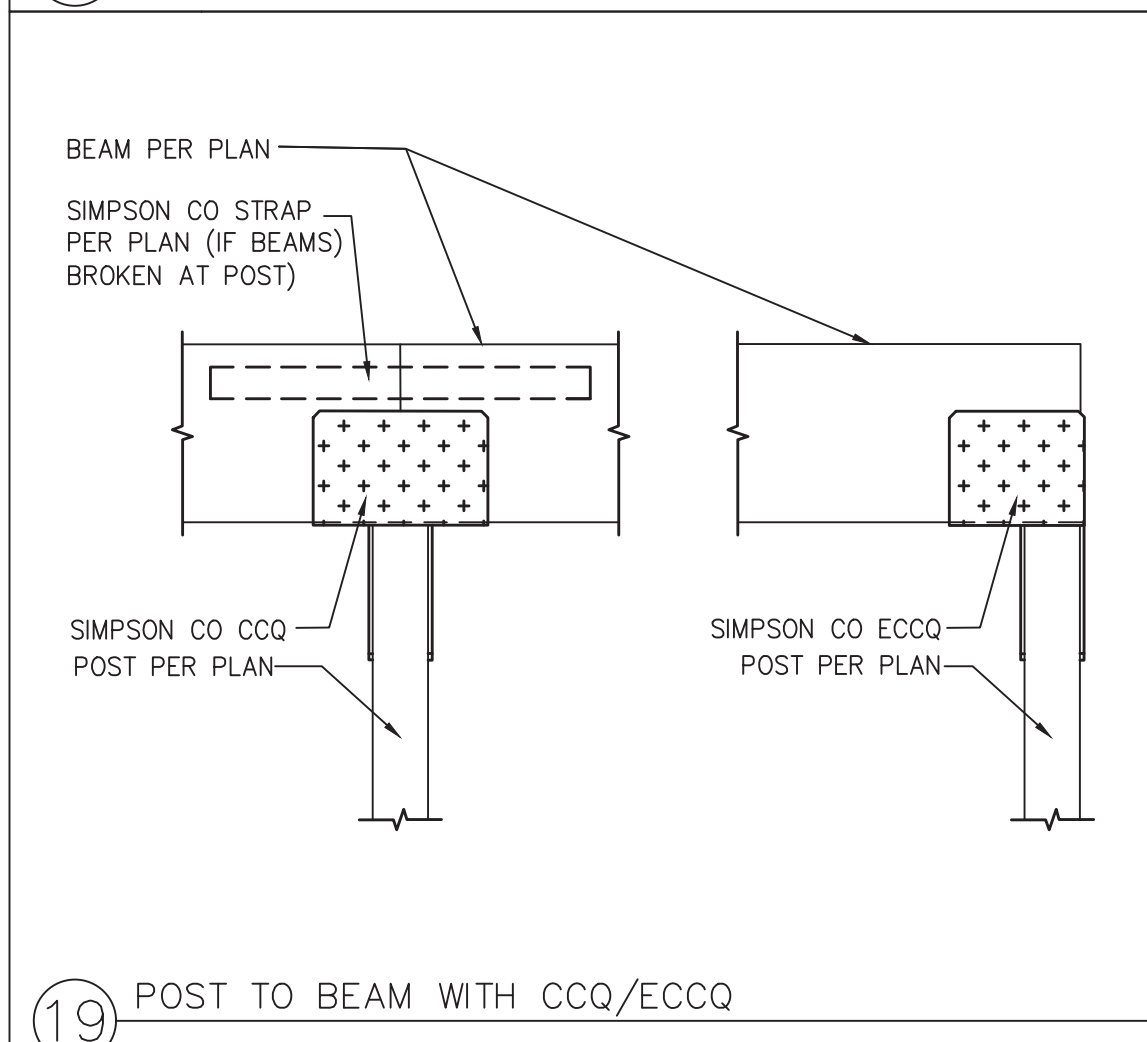
10 STUD WALL INTERSECTION



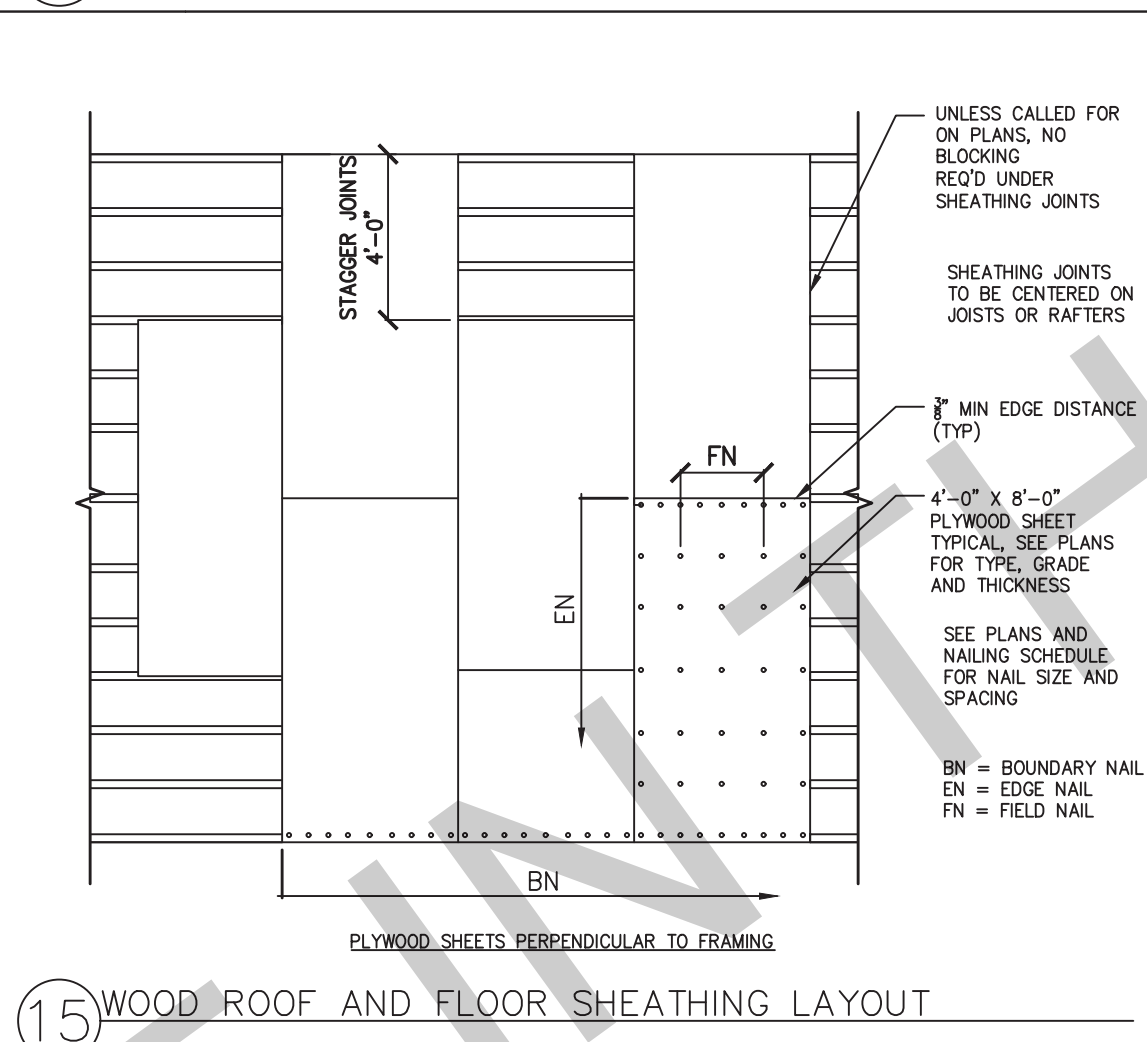
6 TYPICAL POST FOOTING



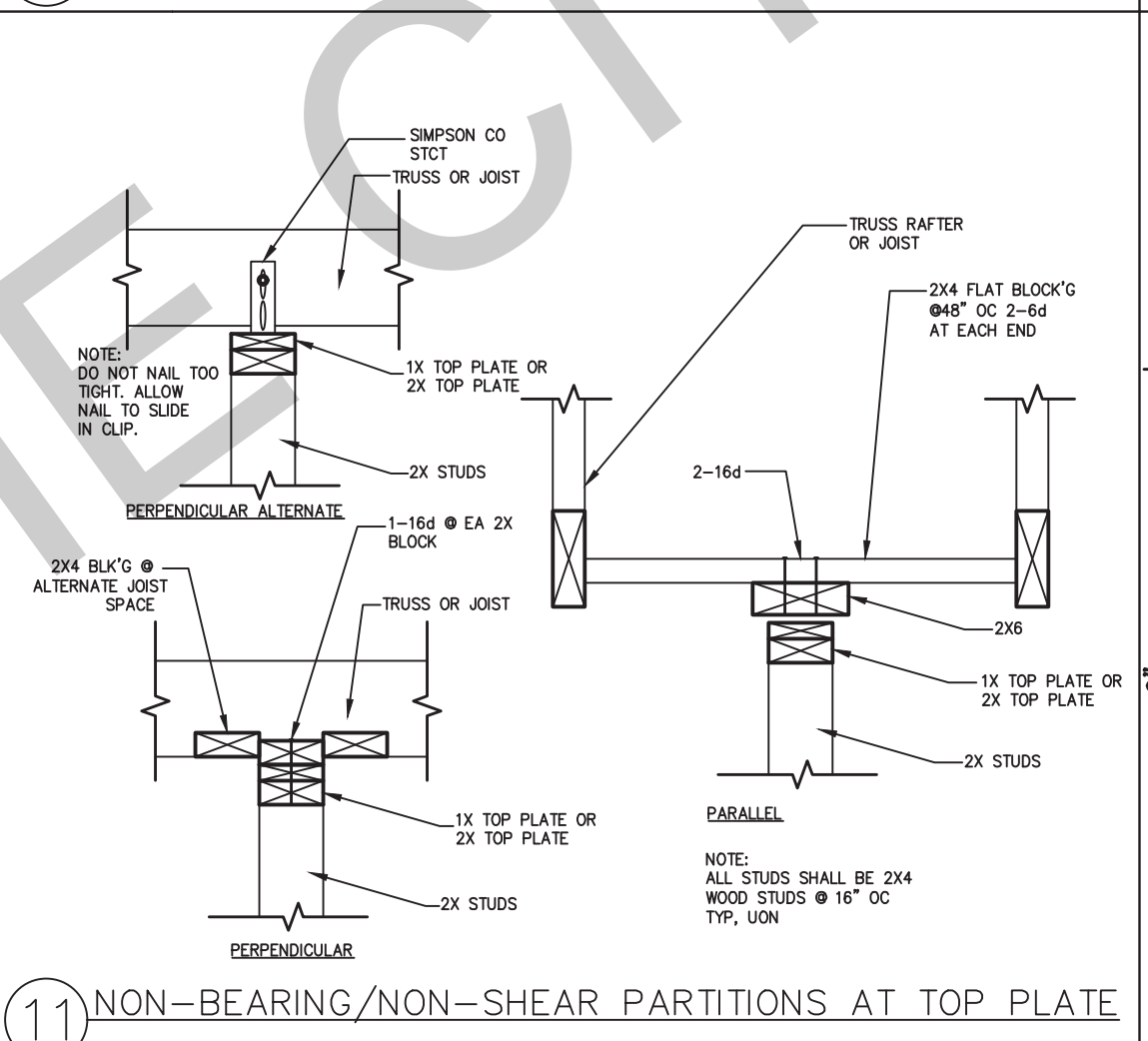
2 SLAB ON GRADE ONE STORY INTERIOR FOOTING



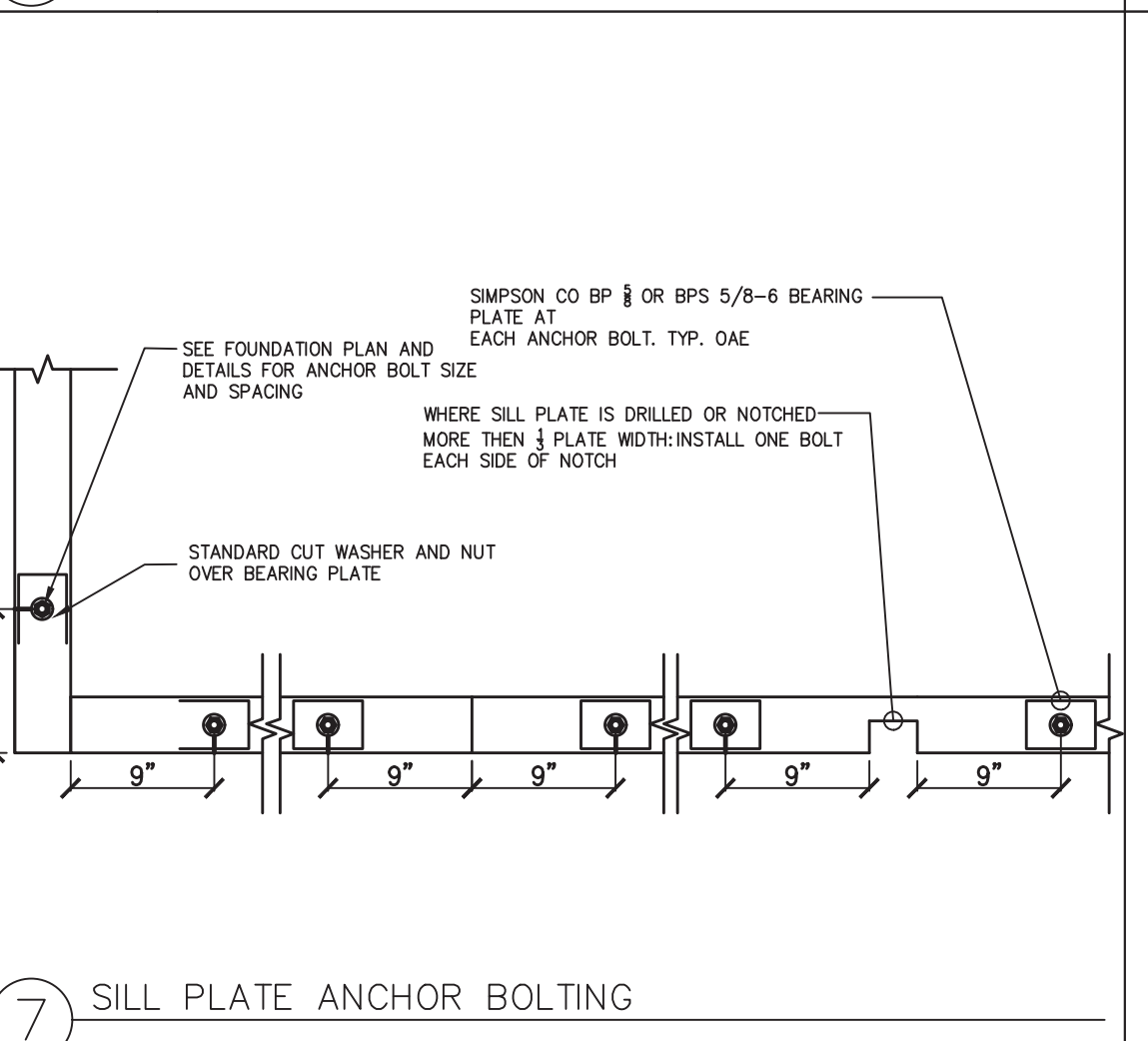
19 POST TO BEAM WITH CCQ/ECCQ



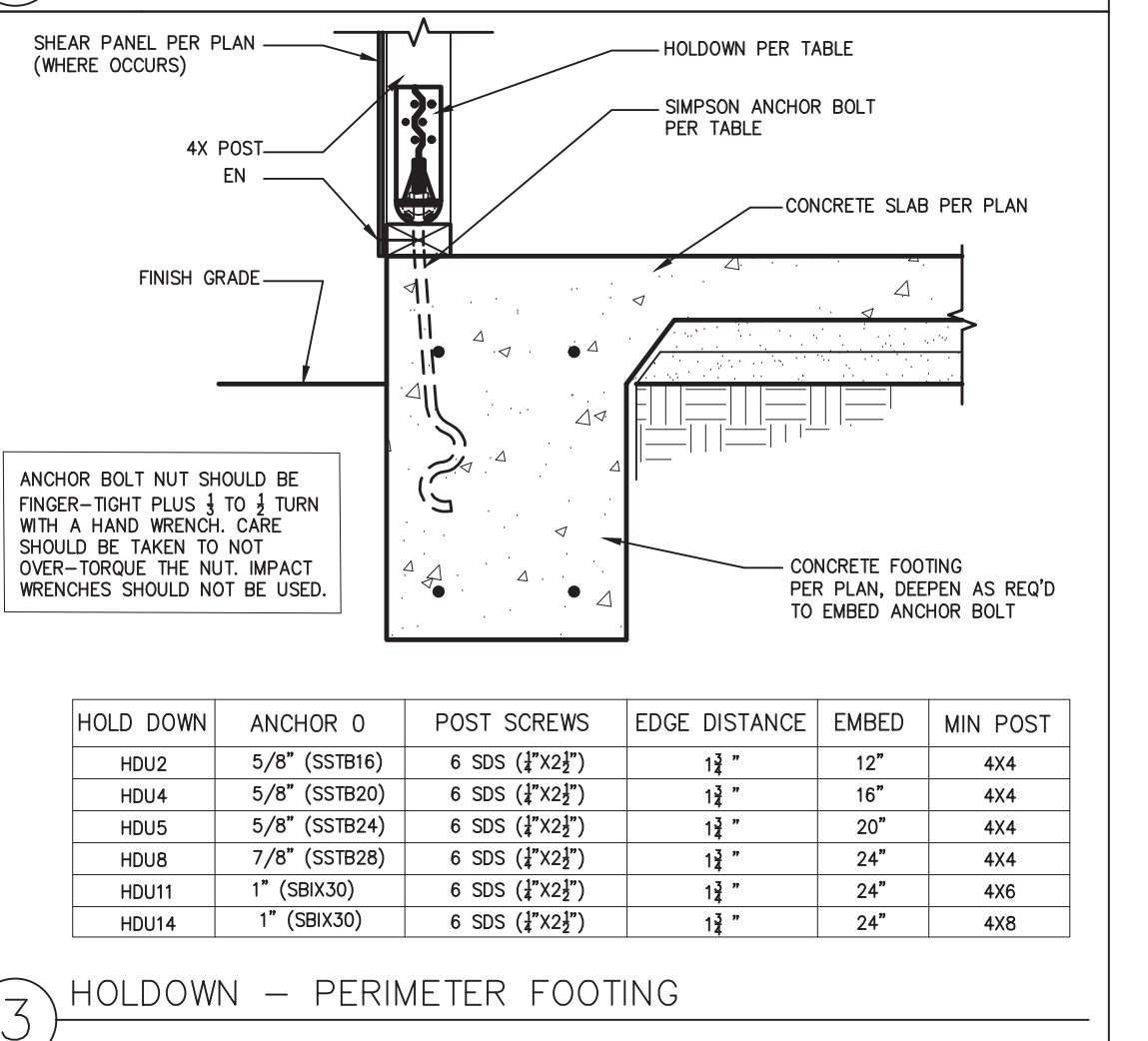
15 WOOD ROOF AND FLOOR SHEATHING LAYOUT



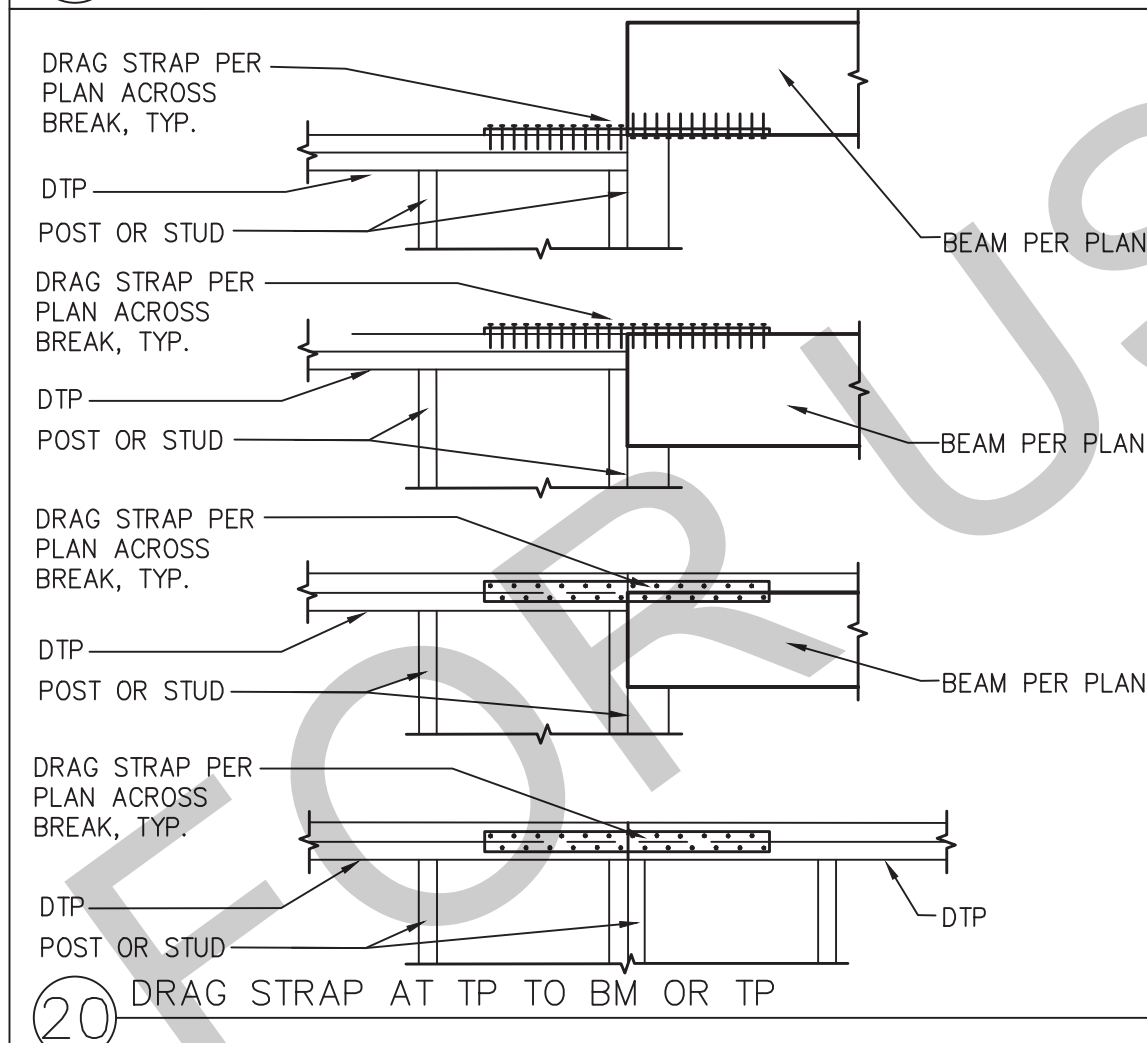
11 NON-BEARING/NON-SHEAR PARTITIONS AT TOP PLATE



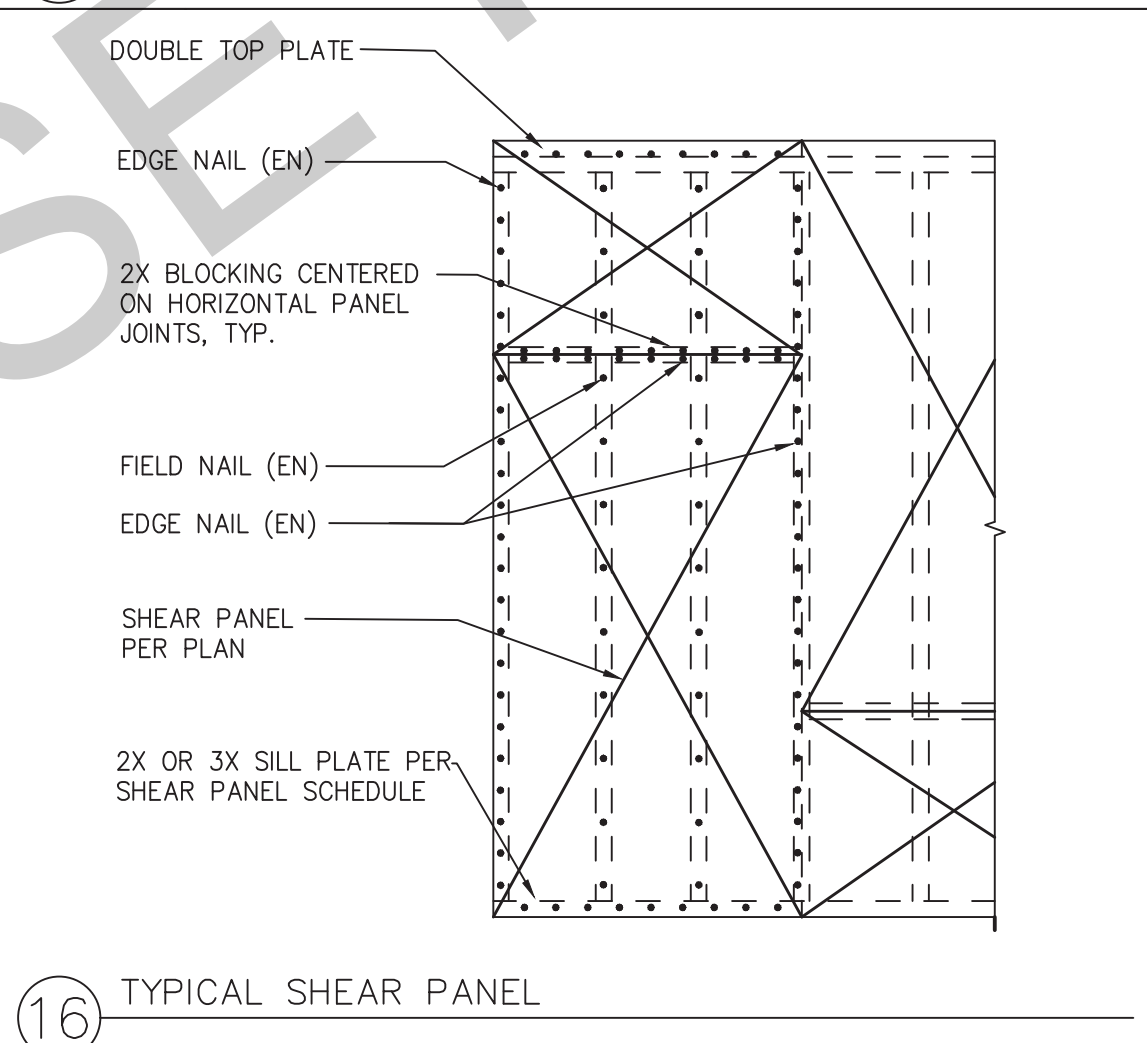
7 SILL PLATE ANCHOR BOLTING



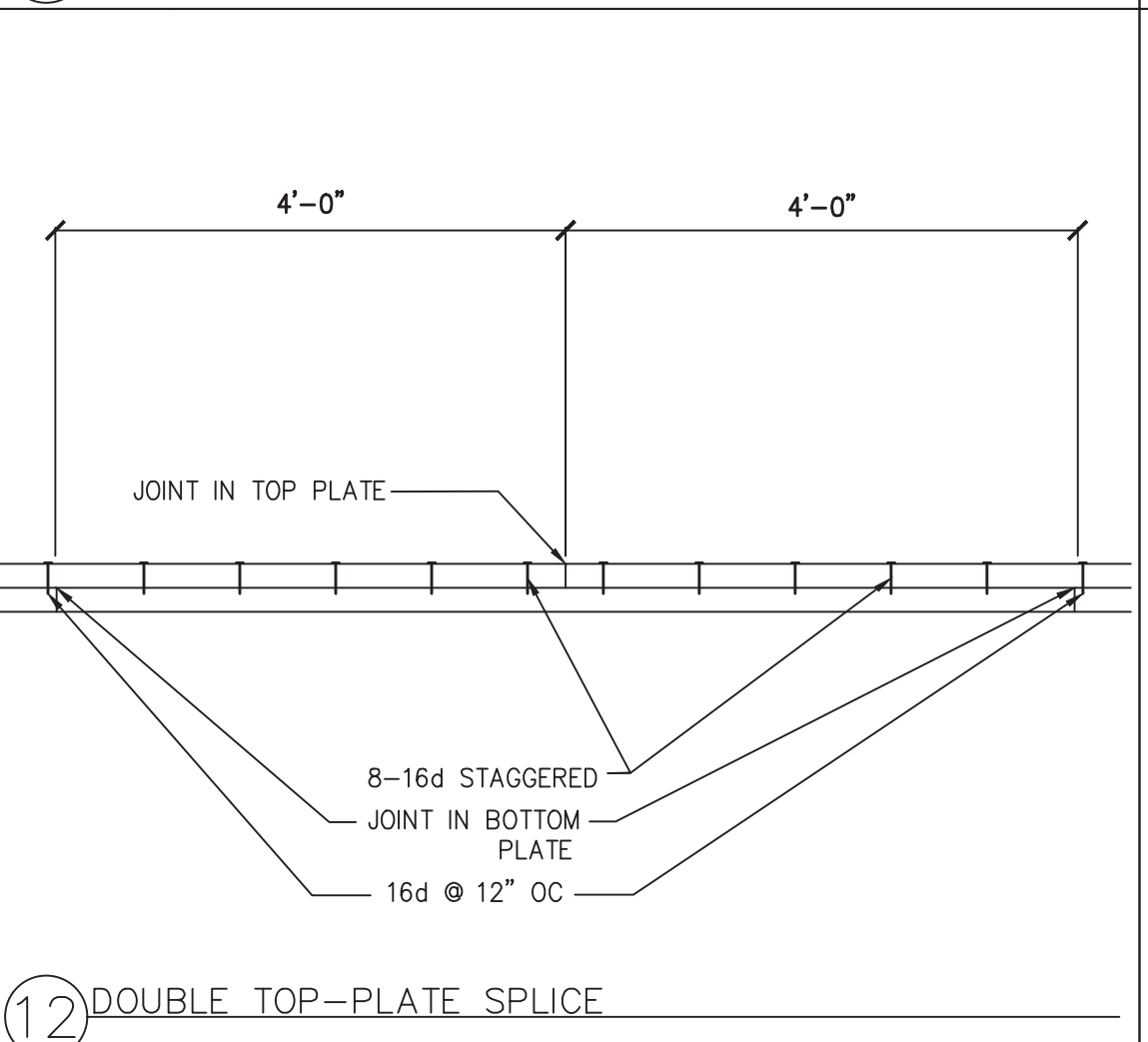
3 HOLDDOWN - PERIMETER FOOTING



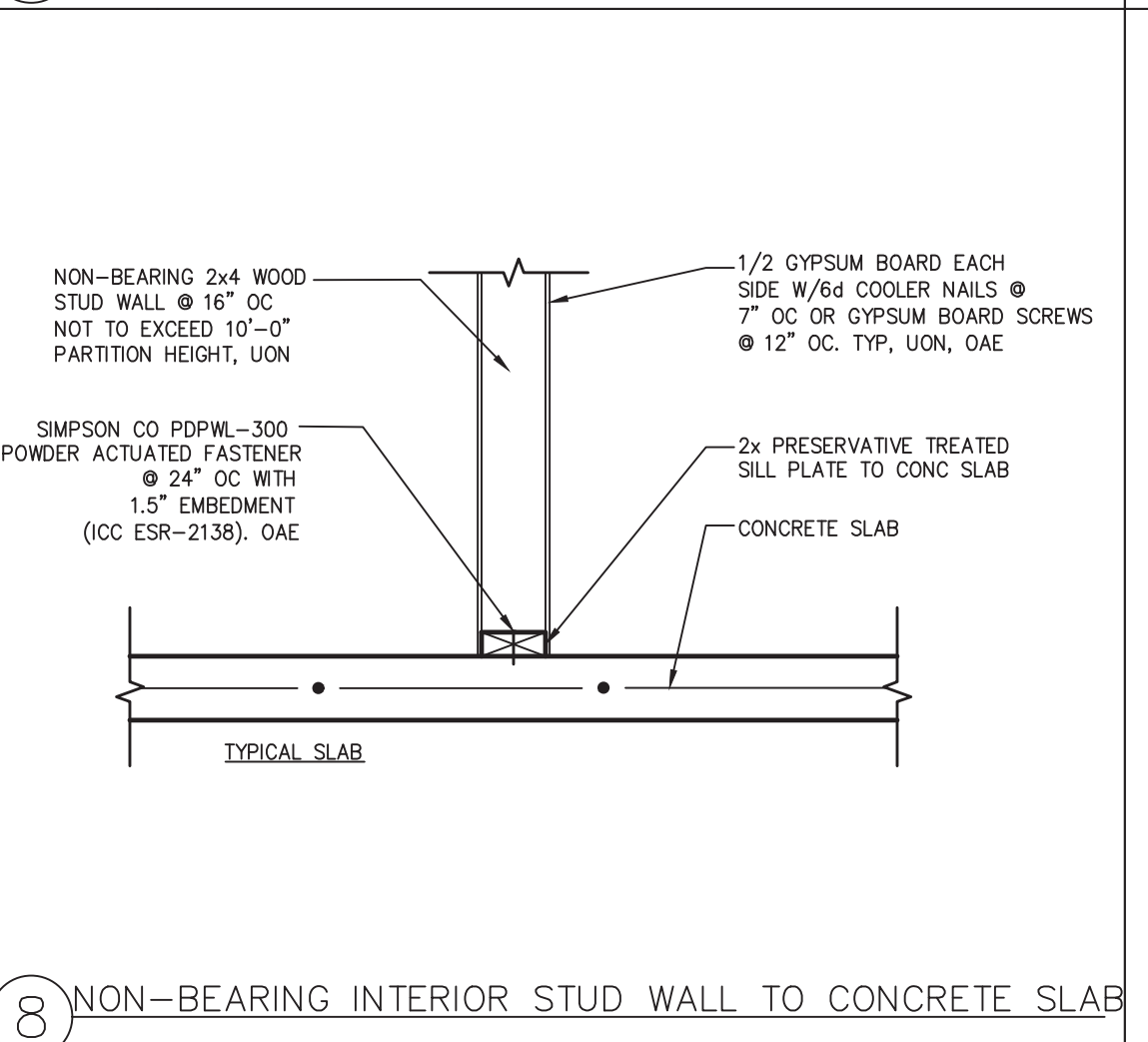
20 DRAG STRAP AT TP TO BM OR TP



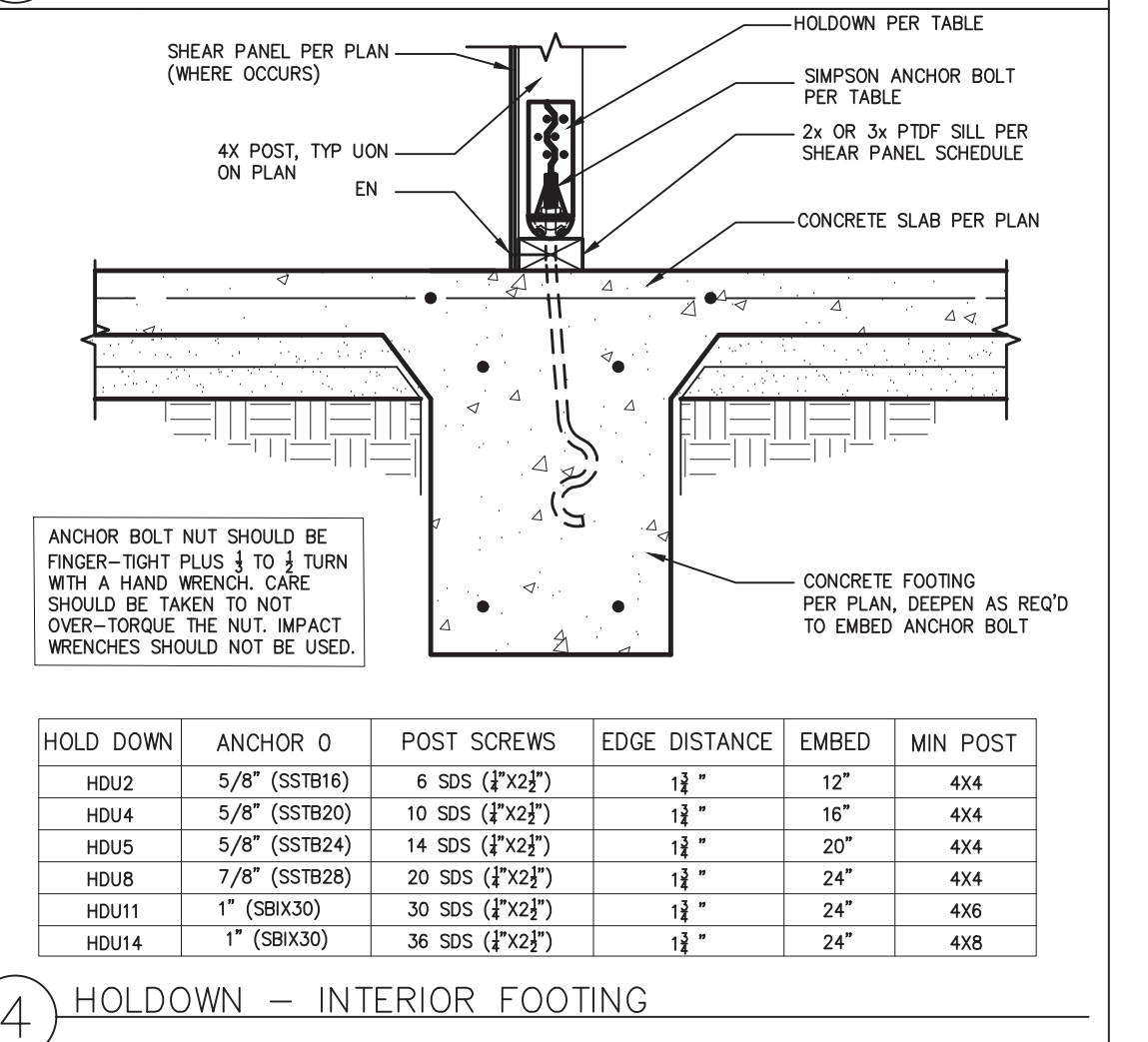
16 TYPICAL SHEAR PANEL



12 DOUBLE TOP-PLATE SPLICE



8 NON-BEARING INTERIOR STUD WALL TO CONCRETE SLAB



4 HOLDDOWN - INTERIOR FOOTING

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project
PRADU
City of Encinitas

revisions

- 1
- 2
- 3
- 4

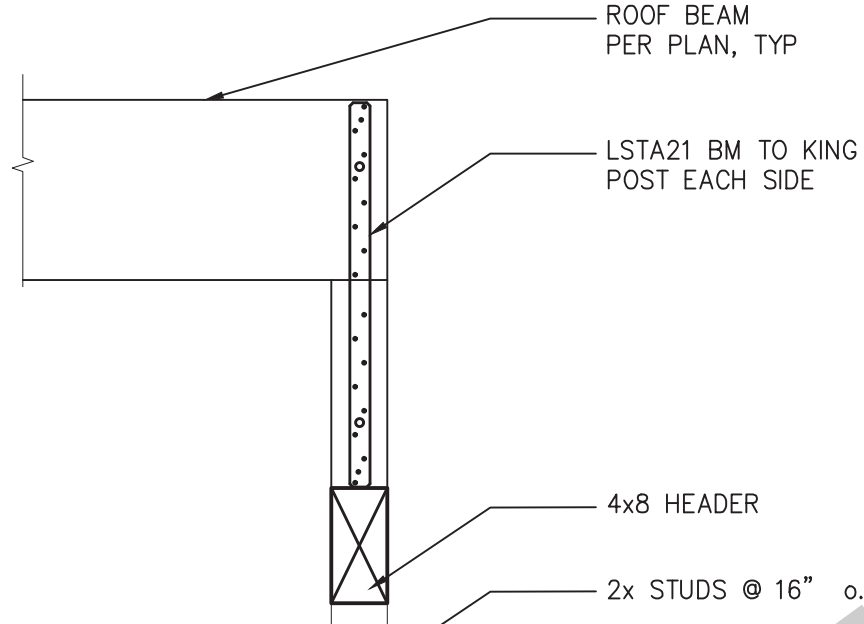
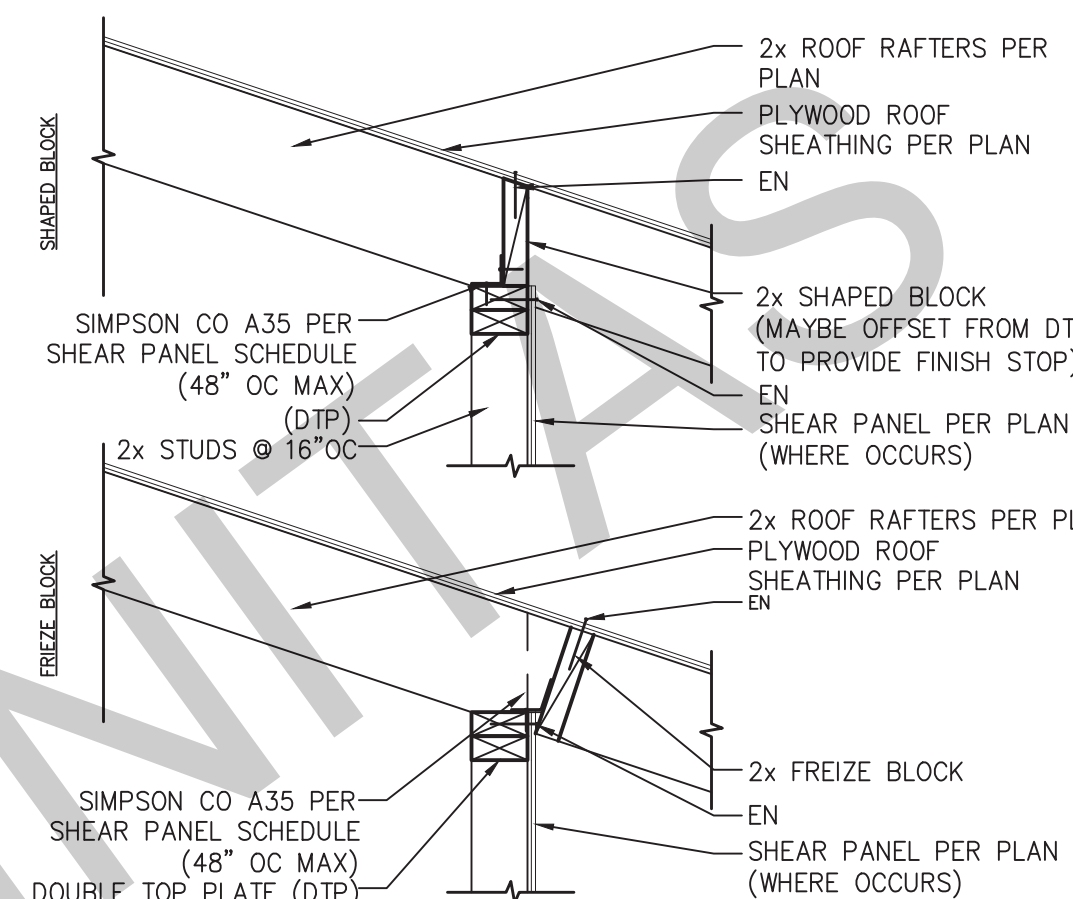
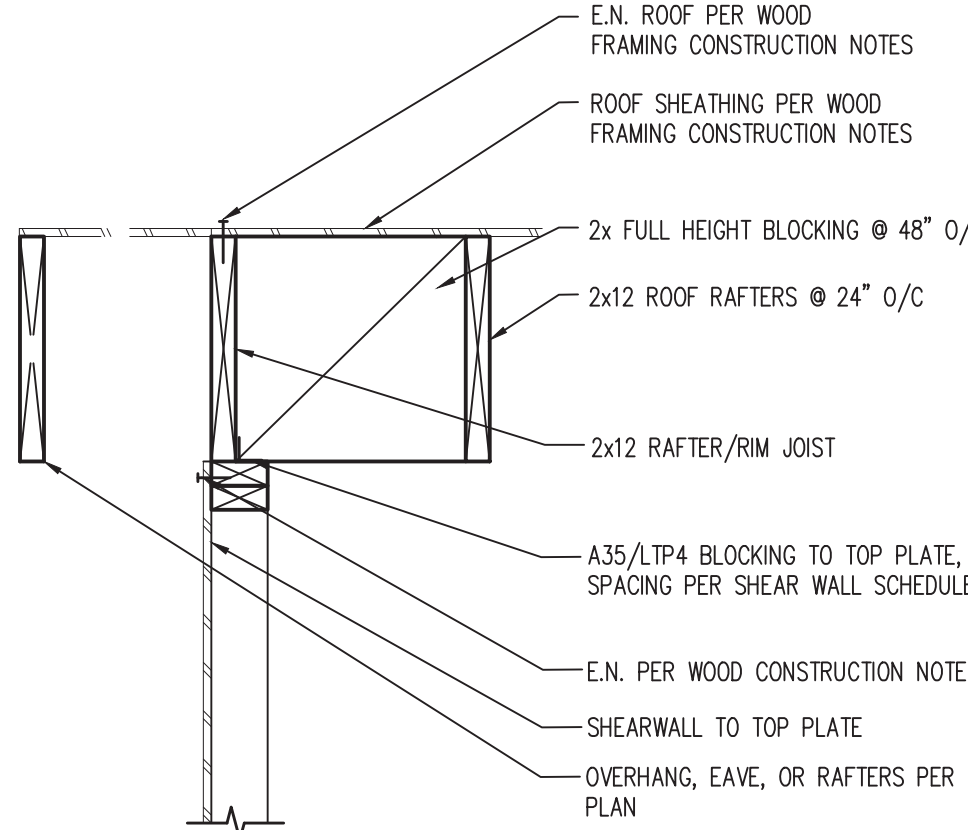
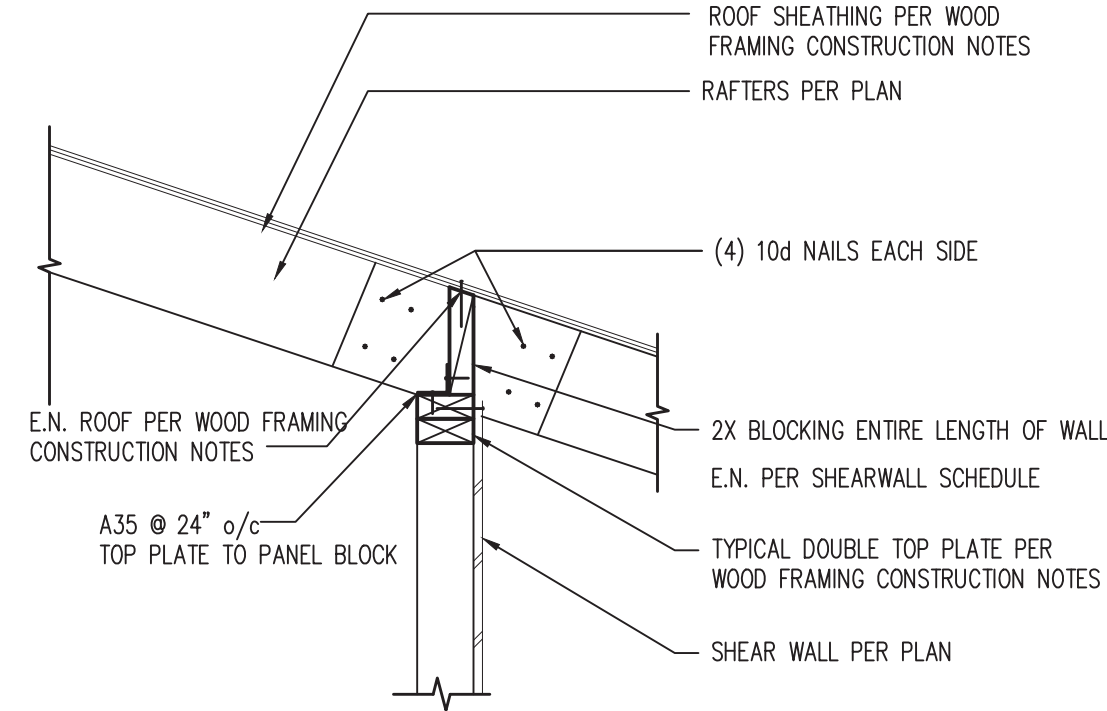
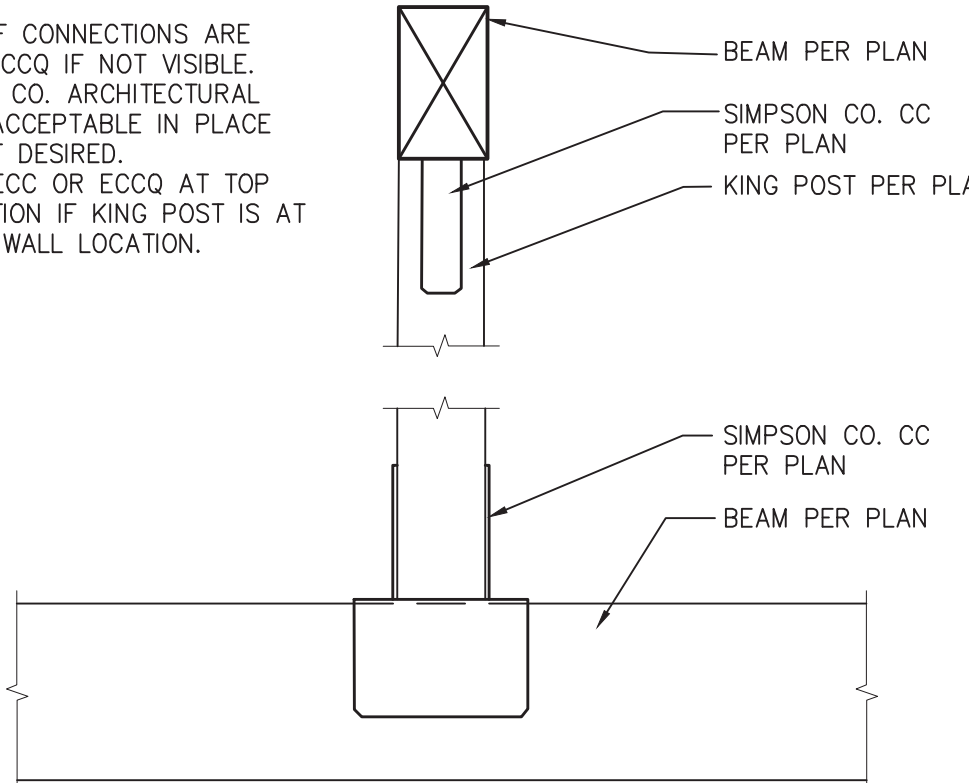
description
Structural
Details

date ## Month 20##

project no. 20##_xxxxxx

drawn by xxx/xxx

sheet no.

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 SIMPSON CO A35 PER SHEAR PANEL SCHEDULE (48" OC MAX) (DTP) EN 2x STUDS @ 16"OC 2x ROOF RAFTERS PER PLAN PLYWOOD ROOF SHEATHING PER PLAN EN 2x SHAPED BLOCK (MAYBE OFFSET FROM DTP TO PROVIDE FINISH STOP) EN 2x FREIZE BLOCK EN SIMPSON CO A35 PER SHEAR PANEL SCHEDULE (48" OC MAX) (DTP) EN DOUBLE TOP PLATE (DTP) SHEAR PANEL PER PLAN (WHERE OCCURS) 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 A35 @ 24" o/c TOP PLATE TO PANEL BLOCK TYPICAL DOUBLE TOP PLATE PER WOOD FRAMING CONSTRUCTION NOTES SHEAR WALL PER PLAN SHEAR TRANSFER @ INT. BRG WALL AND RAFTER LAP DETAIL	
40	36	32	24 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##-x_xxxxx

drawn by

xxx/xxx

sheet no.

T24.1

BUILDING ENERGY ANALYSIS REPORT

PROJECT:

PRADU 1 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:

2/14/2023

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 1 Bed (2022)

Calculation Date/Time: 2023-02-14T15:16:12-08:00

CF1R-PRF-01-E (Page 1 of 13)

Calculation Description: Title 24 Analysis

Input File Name: PRADU-1Bed (2022).ribd22x

GENERAL INFORMATION

01	Project Name	PRADU 1 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 15:27:15
Report Version: 2022.0.000
Schema Version: rev 20220901

HERS Provider: CalCERTS, Inc.
Report Generated: 2023-02-14 15:17:06

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: PRADU 1 Bed (2022)

Calculation Date/Time: 2023-02-14T15:16:12-08:00

CF1R-PRF-01-E (Page 4 of 13)

Calculation Description: Title 24 Analysis

Input File Name: PRADU-1Bed (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	0.18	0.78	1.25	8.98	-1.07	-8.2
Space Cooling	0.78	16.99	0.14	4.31	0.64	12.68
IAQ Ventilation	0.44	4.68	0.44	4.68	0	0
Water Heating	2.88	33.47	2.21	24.58	0.67	8.89
Self Utilization/Flexibility Credit				0		0
North Facing Efficiency Compliance Total	4.28	55.92	4.38	44.31	-0.1	11.61
Space Heating	0.18	0.78	1.25	8.99	-1.07	-8.13
Space Cooling	0.78	16.99	0.06	3.2	0.7	13.79
IAQ Ventilation	0.44	4.68	0.44	4.68	0	0
Water Heating	2.88	33.47	2.21	24.6	0.67	8.87
Self Utilization/Flexibility Credit				0		0
East Facing Efficiency Compliance Total	4.28	55.92	3.98	41.39	0.3	14.53

Registration Number: 223-P010018668A-000-000-0000000-0000
CA Building Energy Efficiency Standards - 2022 Residential Compliance

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CF1R-PRF-01-E (Page 7 of 13)

Calculation Description: Title 24 Analysis

Input File Name: PRADU-1Bed (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 - 1 Bed	Conditioned	Minisplit ADU-1 Bed1	555	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-1 Bed	ADU - 1 Bed	R-15 Wall	0	Front	285	80.04	90
Right Wall ADU-1 Bed	ADU - 1 Bed	R-15 Wall	270	Right	240	25	90
Back Wall ADU-1 Bed	ADU - 1 Bed	R-15 Wall	180	Back	221	0	90
Left Wall ADU-1 Bed	ADU - 1 Bed	R-15 Wall	90	Left	240	64	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-1 Bed	ADU - 1 Bed	R-30 Roof No Attic	0	Front	555	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
SI Door #1	Window	Front Wall ADU-1 Bed	Front	0	6	6.67	1	40.02	0.3	NFRC	0.23	NFRC	Bug Screen
SI Door #7	Window	Front Wall ADU-1 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
CA Building Energy Efficiency Standards - 2022 Residential Compliance

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Calculation Date/Time: 2023-02-14T15:16:12-08:00

CF1R-PRF-01-E (Page 2 of 13)

Calculation Description: Title 24 Analysis

Input File Name: PRADU-1Bed (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	42.5	44.9	62.9			
Proposed Design						
North Facing	42.5	35.6	58.9	0	9.3	4
East Facing	41.7	33.2	58	0.8	11.7	4.9
South Facing	41.8	34.1	58.4	0.7	10.8	4.5
West Facing	42.2	34.8	58.6	0.3	10.1	4.3
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: 0.00 kWdc

Proposed PV Capacity: Scaling: North (0.00 kWdc) East (0.00 kWdc) South (0.00 kWdc) West (0.00 kWdc)

Registration Number: 223-P010018668A-000-000-0000000-0000
CA Building Energy Efficiency Standards - 2022 Residential Compliance

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CF1R-PRF-01-E (Page 5 of 13)

Calculation Description: Title 24 Analysis

Input File Name: PRADU-1Bed (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	25.99	25.14	0.85	3.27
Net EU1 ²	25.99	25.14	0.85	3.27
East Facing				
Gross EU1 ¹	25.99	24.8	1.19	4.58
Net EU1 ²	25.99	24.8	1.19	4.58
South Facing				
Gross EU1 ¹	25.99	24.89	1.1	4.23
Net EU1 ²	25.99	24.89	1.1	4.23
West Facing				
Gross EU1 ¹	25.99	25.03	0.96	3.69
Net EU1 ²	25.99	25.03	0.96	3.69

Notes

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

2. Net EU1 is Energy Use Total (including PV) / Total Building Area.

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CA Building Energy Efficiency Standards - 2022 Residential Compliance

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Input File Name: PRADU-1Bed (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-1 Bed	Right	270			1	12	0.3	NFRC	0.23	NFRC	Bug Screen
Window #D	Window	Right Wall ADU-1 Bed	Right	270			1	9	0.3	NFRC	0.23	NFRC	Bug Screen
Window #B	Window	Right Wall ADU-1 Bed	Right	270			1	4	0.3	NFRC	0.23	NFRC	Bug Screen
Window #C	Window	Left Wall ADU-1 Bed	Left	90			1	24	0.3	NFRC	0.23	NFRC	Bug Screen
SI Door #3	Window	Left Wall ADU-1 Bed	Left	90			1	40	0.3	NFRC	0.23	NFRC	Bug Screen

OVERHANGS AND FINIS

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Window	Overhang				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	Bot Up
SI Door #1	5.25	3.17	2	2	0	0	0	0	0	0	0	0	0
SI Door #7	18	2.5	2	2	0	0	0	0	0	0	0	0	0

Registration Number: 223-P010018668A-000-000-0000000-0000
CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: 2023-02-14 15:27:15
Report Version: 2022.0.000
Schema Version: rev 20220901

HERS Provider: CalCERTS, Inc.
Report Generated: 2023-02-14 15:17:06

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: PRADU 1 Bed (2022)

Calculation Date/Time: 2023-02-14T15:16:12-08:00

Calculation Description: Title 24 Analysis

CF1R-PRF-01-E (Page 3 of 13)

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	0.18	0.78	1.62	11.77	-1.44	-10.99
Space Cooling	0.78	16.99	0.1	3.2	0.68	13.79
IAQ Ventilation	0.44	4.68	0.44	4.68	0	0
Water Heating	2.88	33.47	2.22	24.66	0.66	8.81
Self Utilization/Flexibility Credit				0		0
North Facing Efficiency Compliance Total	4.28	55.92	4.38	44.31	-0.1	11.61
Space Heating	0.18	0.78	1.25	8.99	-1.07	-8.13
Space Cooling	0.78	16.99	0.06	3.2	0.7	13.79
IAQ Ventilation	0.44	4.68	0.44	4.68	0	0
Water Heating	2.88	33.47	2.21	24.6	0.67	8.87
Self Utilization/Flexibility Credit				0		0
East Facing Efficiency Compliance Total	4.28	55.92	3.98	41.39	0.3	14.53

Registration Number: 223-P010018668A-000-000-0000000-0000
CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: 2023-02-14 15:27:15
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HERS Provider: CalCERTS, Inc.
Report Generated: 2023-02-14 15:17:06

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: PRADU 1 Bed (2022)

Calculation Date/Time: 2023-02-14T15:16:12-08:00

CF1R-PRF-01-E (Page 6 of 13)

Calculation Description: Title 24 Analysis

Input File Name: PRADU-1Bed (2022).ribd22x

REQUIRED PV SYSTEMS

01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception	Module Type	Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff (%)	Annual Solar Access (%)
0		Standard (14-17%)	Fixed	none	true	n/a	n/a	n/a	n/a	n/a	

REQUIRED SPECIAL FEATURES

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

- PV exception 2: No PV required when minimum PV size (Section 150.1(c)(14) < 1.8 kWdc (0 KW)
- Window overhangs and/or fins
- Exposed slab floor in conditioned zone
- Variable capacity heat pump compliance option (verification details from VCHP Staff report, Appendix B, and RA3)
- Wall-mounted thermostats in spaces greater than 150 ft² (SC3.4.5)
- Ductless indoor unit(s) located entirely in conditioned space (SC3.1.4.1.8)

HERS FEATURE SUMMARY

The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered (QPRs) and CQPRs are required to be completed in the HERS Registry.

- Indoor air quality ventilation
- Kitchen range hood
- Verified Refrigerant Charge
- Airflow in habitable rooms (SC3.1.4.1.7)
- Verified heat pump rated heating capacity
- Wall-mounted thermostats in spaces greater than 150 ft² (SC3.4.5)
- Ductless indoor unit(s) located entirely in conditioned space (SC3.1.4.1.8)

BUILDING - FEATURES INFORMATION

01	02	03	04	05	06	07
Project Name	Conditioned Floor Area (ft²)	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
PRADU 1 Bed (2022)	555	1	1	1	0	1

Registration Number: 223-P010018668A-000-000-0000000-0000
CA Building Energy Efficiency Standards - 2022 Residential Compliance

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HERS Provider: CalCERTS, Inc.
Report Generated: 2023-02-14 15:17:06



CalCERTS, Inc.
HERS PROVIDER

 2022 Single-Family Residential Mandatory Requirements Summary	
1101.0	Pier Lights. Continuously burning pilot lights are prohibited for natural gas. Gas type controls must have automatic gas shutoff appliances (except appliances without an electric pilot valve connection with gas pilot lights that consume less than 100 Btu per hour) and pilot and gas controls must be protected from the weather.
1501.001	Building Cooling and Heating Loads. Heating and/or cooling loads are calculated in accordance with the ASHRAE Handbook, Cooling and Heating Loads Manual, and Fundamentals, and the BACPA National Energy Conservation System Installation Standards Manual, or the ACCA Manual J using design conditions specified in Section 1501.001.
1501.003A	Clearances. All conditioner and heat pump outdoor condensing units must be a minimum of 6 feet from the ducts if any type.
1501.003B	Liquid Line. Piping for condensers and heat pump systems must be equipped with liquid line driers in series if specified by the manufacturer.
1501.001	Water Piping, Solar Water Heating System Piping, and Space Conditioning System Piping Installation. All concealed hot water piping and water supply piping is specified in 8.09.11.1 of the California Plumbing Code.
1501.001	Insulation Protection. Piping insulation must be protected from damage due to the sun's rays, mold, rodents, equipment, maintenance, and so on, and is required by 1203.3.03. Insulation exposed to weather must be water resistant and have a minimum R-value of 1/2 inch (1.91). Insulation exposed to weather must be protected from damage due to the sun's rays, mold, rodents, equipment, maintenance, and so on, and is required by 1203.3.03. Insulation exposed to weather must be water resistant and have a minimum R-value of 1/2 inch (1.91). Insulation exposed to weather must be protected from damage due to the sun's rays, mold, rodents, equipment, maintenance, and so on, and is required by 1203.3.03. Insulation exposed to weather must be water resistant and have a minimum R-value of 1/2 inch (1.91).
1501.001	Gas or Pressure Water Heating Systems. Insulation for piping of gas or pressure water heating systems for individual dwelling units must designate a space of at least 2.5 x 2.5 x 2.5' of air space for the future installation of a hot water piping water meter, and mechanical and durability requirements, based on the distance between this design space and the piping.
1501.001	Water Heating Systems. Solar water-heating systems and plumbing must be certified and tested by the Solar Rating and Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials (IAPMO), and Research and Testing (IAPMO R&T), or a testing agency that is approved by the executive director.
Other and Final	
1101.003	Disinfection. Installation and existing operations must comply with 604.4 of the California Mechanical Code (CMC). If a contractor needs the insulation, the contractor must comply with 604.4 of the California Mechanical Code (CMC). If a contractor needs the insulation, the contractor must comply with 604.4 of the California Mechanical Code (CMC).
1501.001	CMC Compliance. All air-distribution system piping and pressure must comply with 604.4 of the California Mechanical Code (CMC). All air-distribution system piping and pressure must comply with 604.4 of the California Mechanical Code (CMC). All air-distribution system piping and pressure must comply with 604.4 of the California Mechanical Code (CMC).
1501.001	Component Requirements. All air-distribution system piping and pressure must comply with 604.4 of the California Mechanical Code (CMC). All air-distribution system piping and pressure must comply with 604.4 of the California Mechanical Code (CMC). All air-distribution system piping and pressure must comply with 604.4 of the California Mechanical Code (CMC).
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1501.001	Component Requirements. All air-distribution system piping and

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
I, I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Yvonne St Pierre	Documentation Author Signature: <i>Yvonne St Pierre</i>
Company: Design Path Studio	Signature Date: 2023-02-14 15:27:15
Address: 364 Second St Suite 2	CEA/HERS Certification Identification (if applicable): C 34789
City/State/Zip: Encinitas, CA 92024	Phone: 760-944-1443
RESPONSIBLE DESIGNER'S DECLARATION STATEMENT	
I certify the following under penalty of perjury, under the laws of the State of California: - I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance. - I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. - The building design features or system design features identified on this Certificate of Compliance conform with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.	
Responsible Designer Name: Yvonne St Pierre	Responsible Designer Signature: <i>Yvonne St Pierre</i>
Company: Design Path Studio	Date Signed: 2023-02-14 15:27:15
Address: 364 Second St Suite 2	License: C 34789
City/State/Zip: Encinitas, CA 92024	Phone: 760-944-1443

Digitally signed by CalCERTS. This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.

	Space Conditioning System Airflow Rates and Fan Efficiency. Space conditioning systems that use ducts to supply cooling must have the space conditioning system airflow rates, or the approximate installed capacity, of the space conditioning system must be at least 0.35 CFM per ft² of nominal cooling capacity, and air-handling unit or fan efficiency of 0.45 or greater for CFM per gas for gas fan handlers and 0.08 watts per CFM for electric fans. Small duct high-velocity systems must provide at least 0.25 CFM per ft² of nominal cooling capacity, and air-handling unit fan efficiency of 0.50 watts per CFM. Each installed system must be required to accordance with Reference Recommendation RA3.3.1.3.
§ 150.09(1)	

[illegible][illegible]

2022 Single-Family Residential Mandatory Requirements Summary	
§ 150.0(a)	Energy Storage System (ESS) Ready. All single-family residences must meet all of the following. Either ESS-ready interconnection equipment with a minimum capacity of 60 amps or more and four or more ESS-supplied branch circuits, all a dedicated pathway from the main service to a subpanel that supplies the branch circuits in § 150.0(a), or at least four branch circuits must be identified and have their source calculated at a single panelboard location to be supplied by the ESS, with the circuit supplying the refrigerator, one lighting circuit near the primary exit, and one circuit supplying a sleeping room receptacle outlet. main panelboard must have a minimum busbar rating of 200 amps. sufficient space must be reserved to allow future installation of a system isolation equipment/transfer switch within 3' of the main panelboard, with necessary installed between the panelboard and the switch location to allow the connection of backup power source.
§ 150.0(b)	Heat Pump Space Heater Ready. Systems using gas or propane furnaces to serve individual dwelling units must include: A dedicated undercabinet 240V branch circuit wiring installed within 3' of the furnace with circuit conductors rated at least 30 amps with the blank cover identified as "240V ready" and a reserved main electrical service panel space to allow for the installation of a double-pole circuit breaker permanently marked as "For Future 240V Use."
§ 150.0(c)	Electric Cooktop Ready. Systems using gas or propane cooktops to serve individual dwelling units must include: A dedicated undercabinet 240V branch circuit wiring installed within 3' of the cooktop with circuit conductors rated at least 30 amps with the blank cover identified as "240V ready" and a reserved main electrical service panel space to allow for the installation of a double-pole circuit breaker permanently marked as "For Future 240V Use."
§ 150.0(d)	Electric Clothes Dryer Ready. Clothes dryer locations with gas or propane plumbing to serve individual dwelling units must include: A dedicated undercabinet 240V branch circuit wiring installed within 3' of the dryer location with circuit conductors rated at least 30 amps with the blank cover identified as "240V ready" and a reserved main electrical service panel space to allow for the installation of a double-pole circuit breaker permanently marked as "For Future 240V Use."

*Exceptions may apply.

HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY											
Project Name: PRADU 1 Bed(2022)								Date: 2/14/2023			
System Name: Minisplit ADU-1 Bed								Rev: 055			
ENGINEERING CHECKS		SYSTEM LOAD									
Number of Systems		COIL COOLING PEAK				COIL HTG. PEAK					
		CFM	Sensible	Latent	CFM	Sensible					
Heating System		Total Room Loads									
Output per System		12,800	200	6,250	330	210	8,370				
Total Output (Btu/h)		12,800									
Output (Btu/h/ft²)		23.1	Return Vented Lighting								
				0							
Cooling System		Return Air Ducts				Return Fan					
Output per System		12,300				0	0	0	0		
Total Output (Btu/h)		12,300				0	0	0	0		
Total Output (Tons)		1.0				0	0	0	0		
Total Output (Btu/h/ft²)		22.2	Ventilation								
Total Output (Lat/Ton)		54.5	Supply Fan								
				0		0					
			Supply Air Ducts								
				0		0					
			TOTAL SYSTEM LOAD								
				6,250	330	8,370					
Air System		300	HVAC EQUIPMENT SELECTION								
CPA per System		300	Frigidex ACU1202		8.681	3.281		10,022			
Airflow (cfm)		300									
Airflow (cfm/ft²)		0.54									
Airflow (cfm/Ton)		300.0									
Outside Air (%)		0.0%	Total Adjusted System Output		8.681	3.281		10,022			
Outside Air (cfm/ft²)		0.00	(Adjusted for Peak Design conditions)								
			TIME OF SYSTEM PEAK								
			Heating System Peak								
			Aug 3 PM								
			Jan 7 AM								
Note: values shown above are Air conditions.											
HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)											
35 °F	68 °F	68 °F	100 °F								
Outside Air	Supply Fan	Heating Coil	Room								
0 cfm	300 cfm		100 °F								
			68 °F								
COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)											
83 / 67 °F	75 / 62 °F	75 / 61 °F	55 / 54 °F								
Outside Air	Supply Fan	Cooling Coil	Room								
0 cfm	300 cfm		55 / 54 °F								
			75 / 62 °F								

5/6/22

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 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



description

Energy
Calculations

date

Month 20##

project no.

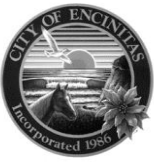
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xxx/xxx

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.