

CODE ANALYSIS

BUILDING CODES	2022 CALIFORNIA BUILDING CODE (CBC)
	2022 CALIFORNIA MECHANICAL CODE (CMC)
	2022 CALIFORNIA ELECTRICAL CODE (CEC)
	2022 CALIFORNIA ENERGY CODE (CNC)
	2022 CALIFORNIA PLUMBING CODE (CPC)
	2022 CALIFORNIA FIRE CODE (CFC)
	2022 CALIFORNIA EXISTING BUILDING CODE (CEBC)
	2022 CALGREEN (CGBSC)
	2022 CALIFORNIA HISTORIC BUILDING CODE (CHBC)
	2022 CALIFORNIA RESIDENTIAL CODE (CRC)

BUILDING CODE ANALYSIS	
OCCUPANCY GROUP	R-3
CONSTRUCTION TYPE	TYPE V-B
SEISMIC DESIGN CRITERIA	D ₁
ALLOWABLE HEIGHT	35 FT (SHASTA CO.); 60 FT PER 2022 CBC TABLE 504.3
ALLOWABLE AREA	UNLIMITED (PER TABLE 506.2, CBC)
FIRE PROTECTION SYSTEMS	FIRE SPRINKLERED WHERE MAIN RESIDENCE SPRINKLERED
ACTUAL HEIGHT (TENANT)	1 STORY
CLIMATE ZONE	ZONE 11 OR 16 - SEE APPROPRIATE ENERGY DOCS.
WIND EXPOSURE	EXPOSURE C
SNOW LOAD	50 PSF OR 70 PSF - SEE APPROPRIATE STR. DESIGN
SOIL CLASS	ASSUMED WORST CLASS - 1500 PSF
WILDLAND URBAN INTERFACE	YES (ASSUMED)
FIRE DEPARTMENT / DISTRICT	VARIES
WATER DISTRICT	VARIES
WASTE/SEWAGE DISPOSAL	VARIES

LAND USE ANALYSIS	
ASSESSOR'S PARCEL #	VARIES
LAND USE ZONING CLASS	VARIES
OVERLAY DISTRICT	VARIES
SPECIFIC PLAN	VARIES
LOT SIZE	VARIES
SUITE / SPACE ANALYSIS	
TOTAL BUILDING AREA	888 SF
AREA OF SCOPE OF WORK	1,192 SF
AREA OF GARAGE	240 SF - ATTACHED
AREA OF DECKS / PATIOS	64 SF COVERED PORCH

CODE APPLICABILITY FOR ALTERATIONS	
CAL GREEN	REFER TO NOTES ON SHEET G5.0
CAL. ENERGY CODE	REFER TO NOTES ON SHEET E1.0 AND ADDITIONAL ENERGY DOCUMENTS WITH SUBMITTAL PACKAGE

FIRE SPRINKLER NOTE (WHERE REQUIRED):
INSPECTIONS BY THE AHJ OF THE SPRINKLER SYSTEM, INCLUDING A ROUGH INSPECTION AT FRAME INSPECTION AND A FINAL INSPECTION SHALL BE COMPLETED AND APPROVED PRIOR TO REQUESTING THE CORRESPONDING BUILDING INSPECTION

PROJECT DESCRIPTION

A NEW 888 SF TWO-BEDROOM ACCESSORY DWELLING UNIT WITH FULL KITCHEN, BATHROOM DESIGNED FOR AGING IN PLACE, LIVING AREA AND LAUNDRY ROOM. THE ADU IS ALSO DESIGNED WITH AN ATTACHED GARAGE, AS WELL AS A COVERED ENTRY.

EXTERIOR FINISHES ARE SHOWN AS A WUI-COMPLIANT FIBER CEMENT PANELING FOR THE BUDGET OPTION IN THE COST ESTIMATE, OTHER SIDING OPTIONS SHOWN ARE CEMENT PLASTER OR FIBER CEMENT LAP SIDING.

PROJECT TEAM

OWNER	SHASTA COUNTY RESOURCE MGMT DEPT 1855 PLACER STREET REDDING, CA 96001 530.225.5761	ARCHITECT	HAYLEY ANDERSEN GEORGE ONESHOP 2222 CANAL DRIVE REDDING, CA 96001 andersen@oneshop.community 916.804.5599
STRUCTURAL ENGINEER	SEAN HUMMER HUMMER ENGINEERING 676 E. 1ST AVE. STE. 8 CHICO, CA 95926 530.781.3530	ENERGY	TONY REGER 5 STAR ENERGY 940 MERCHANT STREET REDDING, CA 96002 530.275.3350
COST ESTIMATOR	CHRIS AGRESTA NORTH VALLEY BLDGS., INC. 17850 CONSTRUCTION WAY REDDING, CA 96003 530.510.5704	TRUSS DESIGNER / MFG.	TONY LOBUE SYSTEMS PLUS LUMBER CO. 1800 S. BARNEY RD. ANDERSON, CA 96007 530.378.6800

ASSOCIATED SUBMITTALS

- THE FOLLOWING PLAN REVIEWS OR ADDITIONAL PERMITS ARE REQUIRED:
- SITE PLOT MAP / SITE PLAN
 - ENVIRONMENTAL HEALTH DEPARTMENT FOR SEPTIC SYSTEM WHERE EXISTING SEPTIC IS TO BE USED OR NEW SEPTIC IS TO BE INSTALLED
 - FIRE DEPARTMENT PLOT-PLAN PRE-SUBMITTAL, REQ'D FOR THE FOLLOWING DISTRICTS: ANDERSON, BUCKEY (COR RFD), BURNEY, CASTELLA, COTTONWOOD, FALL RIVER MILLS, HAPPY VALLEY, MCARTHUR, MILLVILLE, MOUNTAIN GATE AND SHASTA LAKE FPD

DEFERRED SUBMITTALS

- THE FOLLOWING SUBMITTALS WILL BE SUBMITTED AT A LATER DATE:
- FIRE SPRINKLERS (WHERE APPLICABLE)
 - PHOTOVOLTAIC ARRAY - MIN 2.56 kWdc (CZ 11), 2.00 kWdc (CZ 16)

CONCEPTUAL DESIGN



DRAWINGS AND IMAGES ARE REPRESENTATIONAL AND ARE NOT PART OF CONTRACT DOCUMENTS

SHEET INDEX

GENERAL	
G1.1	TITLE SHEET
G2.1	ABBREVIATIONS & CODE ANALYSIS - CRC & CBC
G3.1	CODE ANALYSIS - CRC & WUI
G4.1	CODE ANALYSIS - CEC, CPC & CMC
G5.1	CODE ANALYSIS - CGBC

SITE PLAN
TO BE SUBMITTED BY OWNER W/ PERMIT APPLICATION

ARCHITECTURAL

A1.1	DESIGN OPTIONS
A2.1	FLOOR PLAN
A3.1	RCP & ROOF PLAN
A4.1	EXTERIOR ELEVATIONS
A5.1	INTERIOR ELEVATIONS
A6.1	SECTIONS & EXTERIOR DETAILS
A7.1	INTERIOR DETAILS
A8.1	EXTERIOR DETAILS

STRUCTURAL - 50 PSF SNOW LOAD

S1	STRUCTURAL NOTES
S2	FOUNDATION, ROOF, FRAMING & SHEAR WALL PLAN
S3	FOUNDATION & FRAMING DETAILS

STRUCTURAL - 70 PSF SNOW LOAD

S1	STRUCTURAL NOTES
S2	FOUNDATION, ROOF, FRAMING & SHEAR WALL PLAN
S3	FOUNDATION & FRAMING DETAILS

PLUMBING

P2.1	PLUMBING PLAN
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ELECTRICAL

E1.1	MECHANICAL & ELECTRICAL NOTES & LEGEND
E2.1	POWER & LIGHTING PLAN

SYMBOL LEGEND

NOTE: REFER TO INDIVIDUAL SHEETS FOR ADDITIONAL SYMBOLS AND LEGENDS

BUILDING / WALL SECTION		SECTION IDENTIFICATION SHEET WHERE SECTION IS INDICATED
ELEVATION		ELEVATION IDENTIFICATION SHEET WHERE ELEVATION IS INDICATED
INTERIOR ELEVATION		ELEVATION IDENTIFICATION SHEET WHERE ELEVATION IS INDICATED
DETAIL SECTION		DETAIL IDENTIFICATION SHEET WHERE DETAIL IS INDICATED
ENLARGED PLAN OR ELEVATION		PLAN IDENTIFICATION SHEET WHERE PLAN IS INDICATED
KEYNOTE		KEYNOTE NUMBER W/ LEADER
ROOM NAME & NUMBER		ROOM NAME ROOM NUMBER
CEILING HEIGHT		CEILING HEIGHT (FLOOR TO FINISH CEILING)
WALL TAG		
EXISTING WALL		
DEMOLITION		EXISTING WALL TO BE REMOVED
NEW WALL		
REVISION CLOUD W/ DELTA		AREA REVISION REVISION NUMBER

ENERGY REQUIREMENTS

FOR CLIMATE ZONE 11 LOCATIONS:

FOUNDATION TYPE:	SLAB ON GRADE, NO INSULATION
WALL INSULATION:	R-23
ATTIC INSULATION:	R-38
RADIANT BARRIER:	YES
WINDOWS:	0.30 U-VALUE / 0.23 SHGC
FRENCH DOORS:	0.35 U-VALUE / 0.23 SHGC
HVAC:	DUCTLESS MINI-SPLIT: 7.5 HSPF2 / 14.3 SEER2 / 9.8 EER2
WATER HEATER:	HYBRID HEAT PUMP 3.1 UEF
SOLAR:	2.56 kWDC (MULTIPLE DIRECTIONS)

- REQUIRED HERS VERIFICATIONS:**
- INDOOR AIR QUALITY VENTILATION
 - KITCHEN RANGE HOOD
 - VERIFIED REFRIGERANT HOOD
 - AIRFLOW INHABITABLE ROOMS (**SC3.1.4.1.7)
 - VERIFIED HEAT PUMP RATED HEATING CAPACITY
 - WALL-MOUNTED THERMOSTAT IN ZONES GREATER THAN 150 SF (**SC3.4.5)
 - DUCTLESS INDOOR UNITS LOCATED ENTIRELY IN CONDITIONED SPACE (**SC3.1.4.1.8)
 - **VCHP COMPLIANCE OPTION

- REQUIRED SPECIAL FEATURES:**
- VARIABLE CAPACITY HEAT PUMP COMPLIANCE OPTION
 - NORTHWEST ENERGY EFFICIENCY ALLIANCE (NEEA) RATED HEAT PUMP WATER HEATER; SPECIFIC BRAND/MODEL, OR EQUIVALENT, MUST BE INSTALLED

FOR CLIMATE ZONE 16 LOCATIONS:

FOUNDATION TYPE:	SLAB ON GRADE, NO INSULATION
WALL INSULATION:	R-23
ATTIC INSULATION:	R-49 ABOVE CEILING + R-11 CAVITY BETWEEN TRUSSES
RADIANT BARRIER:	YES
WINDOWS:	0.29 U-VALUE / 0.22 SHGC
FRENCH DOORS:	0.35 U-VALUE / 0.23 SHGC
HVAC:	DUCTLESS MINI-SPLIT: 7.5 HSPF2 / 14.3 SEER2 / 9.8 EER2
WATER HEATER:	HYBRID HEAT PUMP 3.1 UEF
SOLAR:	2.00 kWDC (MULTIPLE DIRECTIONS)

- REQUIRED HERS VERIFICATIONS:**
- INDOOR AIR QUALITY VENTILATION
 - KITCHEN RANGE HOOD
 - VERIFIED REFRIGERANT HOOD
 - AIRFLOW INHABITABLE ROOMS (**SC3.1.4.1.7)
 - VERIFIED HEAT PUMP RATED HEATING CAPACITY
 - WALL-MOUNTED THERMOSTAT IN ZONES GREATER THAN 150 SF (**SC3.4.5)
 - DUCTLESS INDOOR UNITS LOCATED ENTIRELY IN CONDITIONED SPACE (**SC3.1.4.1.8)
 - **VCHP COMPLIANCE OPTION

- REQUIRED SPECIAL FEATURES:**
- CEILING HAS HIGH LEVEL OF INSULATION
 - INSULATION BELOW ROOF DECK
 - VARIABLE CAPACITY HEAT PUMP COMPLIANCE OPTION (VERIFICATION DETAILS FROM VCHP STAFF REPORT, APPENDIX B, AND RA3)
 - NORTHWEST ENERGY EFFICIENCY ALLIANCE (NEEA) RATED HEAT PUMP WATER HEATER; SPECIFIC BRAND/MODEL, OR EQUIVALENT, MUST BE INSTALLED

GENERAL NOTES

- NOTE:** HEATING AND COOLING LOADS SHOWN IN THESE CALCULATIONS ARE BASED ON CEC DEFAULT ASSUMPTIONS AND SHOULD NOT BE USED FOR EQUIPMENT SIZING, SELECTION OR DESIGN. FOLLOW ACCA OR ASHRAE DESIGN STANDARDS AND COMPLETE A ROOM-BY-ROOM LOAD CALCULATION BASED ON ACTUAL DESIGN CONDITIONS FOR EQUIPMENT SIZING, SELECTION AND SYSTEM DESIGN.
- APPROVED PLANS SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY WORKMEN. ALL CONSTRUCTION SETS SHALL REFLECT SAME INFORMATION. GC SHALL MAINTAIN ONE COMPLETE SET OF PLANS ON THE PREMISES IN GOOD CONDITION AT ALL TIMES. THIS SHALL INCLUDE ALL ADDENDA AND CHANGE ORDERS.
 - THE GC SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO STARTING ANY WORK AND SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY SUBCONTRACTORS AND OWNER.
 - GC TO REFER TO THESE DOCUMENTS FOR IDENTIFICATION OF ALL OWNER SUPPLIED ITEMS. ALL ITEMS NOT MARKED 'BY OWNER' OR 'N.I.C.' (NOT IN CONTRACT) ARE TO BE SUPPLIED BY GC. UNLESS NOTED OTHERWISE, ALL ITEMS ARE TO BE INSTALLED BY GC.
 - THE TERM "WORK" AS USED IN THESE NOTES SHALL INCLUDE ALL PROVISIONS AS DRAWN OR SPECIFIED IN THESE DOCUMENTS AS WELL AS ALL OTHER PROVISIONS SPECIFICALLY INCLUDED BY THE OWNER IN THE FORM OF DRAWINGS AND WRITTEN INSTRUCTIONS AND APPROVED BY THE ARCHITECT.
 - BEFORE SUBMITTING A BID, THE GC SHALL VISIT THE PREMISES AND FAMILIARIZE HIM OR HER SELF WITH THE EXISTING CONDITIONS AND THE EXTENT OF WORK REQUIRED TO COMPLETE THE PROJECT.
 - BEFORE CONSTRUCTION BEGINS, THE GC SHALL VISIT THE SITE TO VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AND SHALL NOTIFY THE ARCHITECT, IN WRITING, OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK AND SHALL BE RESPONSIBLE FOR SAME.
 - IF THE CONTRACT DRAWINGS ARE FOUND TO BE UNCLEAR, AMBIGUOUS OR CONTRADICTORY, THE GC MUST REQUEST CLARIFICATION FROM THE ARCHITECT IN WRITING BEFORE PROCEEDING WITH THAT PART OF THE WORK.
 - BEFORE CONSTRUCTION BEGINS ON A PORTION OF THE WORK, THE GC SHALL REQUEST FROM THE ARCHITECT, IN WRITING, ANY PROPOSED CHANGE ORDERS. ANY WORK CONSTRUCTED THAT DEVIATES FROM THE CONTRACT DOCUMENTS WITHOUT A CHANGE ORDER, CONSTRUCTION CHANGE DIRECTIVE, OR ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS MAY BE REJECTED BY THE ARCHITECT OR INSPECTOR AND ALL EXPENSES ARE SOLELY THE GC'S RESPONSIBILITY.
 - IF A CONDITION EXISTS THAT REQUIRES OBSERVATION OR ACTION BY THE ARCHITECT OR ENGINEERS, THE GC SHALL NOTIFY THE OWNER AND ARCHITECT.
 - GC SHALL BE FAMILIAR WITH PROVISIONS OF ALL APPLICABLE CODES AND SHALL INSURE COMPLIANCE OF THE WORK WITH ALL LOCAL, STATE AND FEDERAL CODES. IN THE EVENT OF CONFLICT BETWEEN LOCAL, STATE AND FEDERAL CODES, THE MORE STRINGENT SHALL GOVERN. BEFORE COMMENCING WORK NOT SHOWN IN DOCUMENTS, BUT REQUIRED TO ACHIEVE FULL COMPLIANCE WITH CODES, GC SHALL NOTIFY OWNER AND ARCHITECT.
 - THESE DOCUMENTS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. JOB SITE SAFETY, PROTECTION OF ADJACENT PROPERTIES DURING CONSTRUCTION, COMPLIANCE WITH STATE AND FEDERAL SAFETY REGULATIONS ALONG WITH COMPLIANCE WITH REQUIREMENTS SPECIFIED IN THE OWNER/CONTRACTOR CONTRACT IS THE GC'S RESPONSIBILITY.
 - GC SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES AND SAFETY PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK.
 - DO NOT SCALE DRAWINGS. USE WRITTEN DIMENSIONS FOR ALL MEASUREMENTS. ALL DIMENSIONS ARE TO FACE OF GYP BOARD UNLESS OTHERWISE NOTED.
 - OWNER SHALL PAY ALL TAXES, SECURE BUILDING PERMITS AND PAY ALL FEES INCURRED IN THE COMPLETION OF THE PROJECT, INCLUDING BUT NOT LIMITED TO BUILDING PERMITS, WATER, ELECTRIC AND TELEPHONE SERVICE CONNECTION, CERTIFICATE OF OCCUPANCY SURVEY AND INSPECTIONS.
 - SCOPE OF WORK: THE GC SHALL INCLUDE AND PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, TRANSPORTATION AND PAY ALL EXPENSES INCURRED IN THE PROPER COMPLETION OF WORK UNLESS SPECIFICALLY NOTED TO BE THE WORK OF OTHERS. GC SHALL PERFORM ALL WORK NECESSARY FOR PRODUCING A COMPLETE, HABITABLE PROJECT, INCLUDING BUT NOT LIMITED TO, ARCHITECTURAL, ELECTRICAL AND MECHANICAL.
 - THE BID PRICES SHALL INCLUDE EVERYTHING NECESSARY OR PROPER FOR PERFORMING AND COMPLETING THE WORK REQUIRED AS INDICATED BY THE PLANS AND SPECIFICATIONS, TO PROVIDE FINISHED WORK. ANYTHING OMITTED THEREFROM WHICH IS CLEARLY NECESSARY FOR THE COMPLETION OF THE WORK OR ITS APPURTENANCE SHALL BE CONSIDERED A PORTION OF THE WORK ALTHOUGH NOT DIRECTLY SPECIFIED OR SHOWN ON THE DRAWINGS.
 - INSURANCE: WORKMEN'S COMPENSATION, AS REQUIRED BY LAW, AND PUBLIC LIABILITY SHALL BE CARRIED BY THE GC.
 - GUARANTEE: THE GC SHALL UNCONDITIONALLY GUARANTEE ALL MATERIALS, AND WORKMANSHIP FURNISHED OR INSTALLED BY HIM OR HIS SUBCONTRACTORS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE AND SHALL REPLACE ANY DEFECTIVE WORK WITHIN THAT PERIOD WITHOUT EXPENSE TO THE OWNER AND PAY FOR ALL DAMAGES TO OTHER PARTS OF THE BUILDING RESULTING FROM DEFECTIVE WORK OR ITS REPAIR. THE GC SHALL REPLACE DEFECTIVE WORK WITHIN TEN (10) DAYS AFTER IT IS BROUGHT TO HIS OR HER ATTENTION.
 - PROTECTION: THE GC SHALL BE RESPONSIBLE FOR HIS OR HER WORK AND THAT OF HIS SUBCONTRACTORS FOR LOSSES AND DAMAGES TO EQUIPMENT, TOOLS AND MATERIAL USED IN CONJUNCTION WITH THE WORK AND FOR ACTS OF HIS OR HER EMPLOYEES.
 - GC IS TO PROVIDE TO THE OWNER A LIST OF ALL SUBCONTRACTORS USED, COMPLETE WITH ADDRESSES, PHONE NUMBERS AND COPIES OF ALL WARRANTIES PRIOR TO THE START OF CONSTRUCTION
 - THE TERM "GC" AS USED IN THESE NOTES SHALL REFER TO THE GENERAL CONTRACTOR OR TO THE SUBCONTRACTORS. THE OWNER MAY ELECT TO CONTRACT DIRECTLY WITH A SUBCONTRACTOR FOR ANY PART OF THE WORK.

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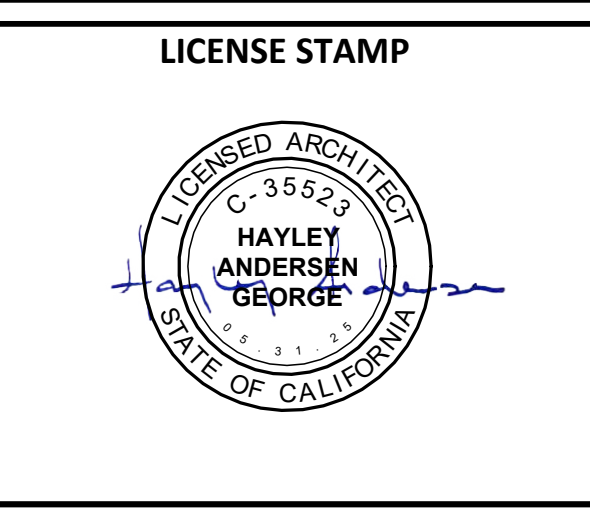


PROJECT

SHASTA COUNTY PRE-APPROVED ADUS
ADU 2 - CASTELLA MODERN

REVISIONS

DATE	DESCRIPTION
9/11/23	B SC Remarks



CONSULTANT

AGENCY APPROVAL

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PROJ ARCH : HIMA
SET ISSUE DATE: 8/7/2023

TITLE SHEET
G1.1

CRC REQUIREMENTS

CRC R317.1	<p>PROTECTION OF WOOD AND WOODBASED PRODUCTS AGAINST DECAY LOCATION REQUIRED - PROTECTION OF WOOD AND WOODBASED PRODUCTS FROM DECAY SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS BY THE USE OF NATURALLY DURABLE WOOD OR WOOD THAT IS PRESERVATIVE-TREATED IN ACCORDANCE WITH AWPA U1 FOR THE SPECIES, PRODUCT, PRESERVATIVE AND END USE. PRESERVATIVES SHALL BE LISTED IN SECTION 4 OF AWPA UL.</p> <ol style="list-style-type: none">IN CRAWL SPACES OR UNEXCAVATED AREAS LOCATED WITHIN THE PERIPHERY OF THE BUILDING FOUNDATION, WOOD JOISTS OR THE BOTTOM OF A WOOD STRUCTURAL FLOOR WHERE CLOSER THAN 18 3/8 INCHES (457 MM) TO EXPOSED GROUND, WOOD GIRDERS WHERE CLOSER THAN 12 INCHES (305 MM) TO EXPOSED GROUND, AND WOOD COLUMNS WHERE CLOSER THAN 8 INCHES (204 MM) TO EXPOSED GROUND.WOOD FRAMING MEMBERS, INCLUDING COLUMNS, THAT REST DIRECTLY ON CONCRETE OR MASONRY EXTERIOR FOUNDATION WALLS AND ARE LESS THAN 8 INCHES (203 MM) FROM THE EXPOSED GROUND.SILLS AND SLEEPERS ON A CONCRETE OR MASONRY SLAB THAT IS IN DIRECT CONTACT WITH THE GROUND UNLESS SEPARATED FROM SUCH SLAB BY AN IMPERVIOUS MOISTURE BARRIER.THE ENDS OF WOOD GIRDERS ENTERING EXTERIOR MASONRY OR CONCRETE WALLS HAVING CLEARANCES OF LESS THAN 1/2 INCH ON TOPS, SIDES AND ENDS.WOOD SIDING, SHEATHING AND WALL FRAMING ON THE EXTERIOR OF A BUILDING HAVING A CLEARANCE OF LESS THAN 6 INCHES FROM THE GROUND OR LESS THAN 2 INCHES MEASURED VERTICALLY FROM CONCRETE STEPS, PORCH SLABS, PATIO SLABS AND SIMILAR HORIZONTAL SURFACES EXPOSED TO THE WEATHER.WOOD STRUCTURAL MEMBERS SUPPORTING MOISTURE-PERMEABLE FLOORS OR ROOFS THAT ARE EXPOSED TO THE WEATHER, SUCH AS CONCRETE OR MASONRY SLABS, UNLESS SEPARATED FROM SUCH FLOORS OR ROOFS BY AN IMPERVIOUS MOISTURE BARRIER.WOOD FURRING STRIPS OR OTHER WOOD FRAMING MEMBERS ATTACHED DIRECTLY TO THE INTERIOR OF EXTERIOR MASONRY WALLS OR CONCRETE WALLS BELOW GRADE EXCEPT WHERE AN APPROVED VAPOR RETARDER IS APPLIED BETWEEN THE WALL AND THE FURRING STRIPS OR FRAMING MEMBERS.PORTIONS OF WOOD STRUCTURAL MEMBERS THAT FORM THE STRUCTURAL SUPPORTS OF BUILDINGS, BALCONIES, PORCHES OR SIMILAR PERMANENT BUILDING APPURTENANCES WHERE THOSE MEMBERS ARE EXPOSED TO THE WEATHER WITHOUT ADEQUATE PROTECTION FROM A ROOF, EAVE, OVERHANG OR OTHER COVERING THAT WOULD PREVENT MOISTURE OR WATER ACCUMULATION ON THE SURFACE OR AT JOINTS BETWEEN MEMBERS. EXCEPTION: SAWN LUMBER USED IN BUILDINGS LOCATED IN A GEOGRAPHICAL REGION WHERE EXPERIENCE HAS DEMONSTRATED THAT CLIMATIC CONDITIONS PRECLUDE THE NEED TO USE NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD WHERE THE STRUCTURE IS EXPOSED TO THE WEATHER.WOOD COLUMNS IN CONTACT WITH BASEMENT FLOOR SLABS UNLESS SUPPORTED BY CONCRETE PIERS OR METAL PEDESTALS PROJECTING NOT LESS THAN 1 INCH (25 MM) ABOVE THE CONCRETE FLOOR AND SEPARATED FROM THE CONCRETE PIER BY AN IMPERVIOUS MOISTURE BARRIER.
CRC R317.1.2	<p>GROUND CONTACT. ALL WOOD IN CONTACT WITH THE GROUND, EMBEDDED IN CONCRETE IN DIRECT CONTACT WITH THE GROUND OR EMBEDDED IN CONCRETE EXPOSED TO THE WEATHER THAT SUPPORTS PERMANENT STRUCTURES INTENDED FOR HUMAN OCCUPANCY SHALL BE APPROVED PRESSURE-PRESERVATIVE-TREATED WOOD SUITABLE FOR GROUND CONTACT USE, EXCEPT THAT UNTREATED WOOD USED ENTIRELY BELOW GROUNDWATER LEVEL OR CONTINUOUSLY SUBMERGED IN FRESH WATER SHALL NOT BE REQUIRED TO BE PRESSURE-PRESERVATIVE TREATED.</p>
CRC R319.1	<p>ADDRESS IDENTIFICATION. BUILDINGS SHALL BE PROVIDED WITH APPROVED ADDRESS IDENTIFICATION. THE ADDRESS IDENTIFICATION SHALL BE LEGIBLE AND PLACED IN A POSITION THAT IS VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. ADDRESS IDENTIFICATION CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND. ADDRESS NUMBERS SHALL BE ARABIC NUMBERS OR ALPHABETICAL LETTERS. NUMBERS SHALL NOT BE SPELLED OUT. EACH CHARACTER SHALL BE NOT LESS THAN 4 INCHES (102 MM) IN HEIGHT WITH A STROKE WIDTH OF NOT LESS THAN 0.5 INCH (12.7 MM). WHERE REQUIRED BY THE FIRE CODE OFFICIAL, ADDRESS IDENTIFICATION SHALL BE PROVIDED IN ADDITIONAL APPROVED LOCATIONS TO FACILITATE EMERGENCY RESPONSE. WHERE ACCESS IS BY MEANS OF A PRIVATE ROAD AND THE BUILDING ADDRESS CANNOT BE VIEWED FROM THE PUBLIC WAY, A MONUMENT, POLE OR OTHER SIGN OR MEANS SHALL BE USED TO IDENTIFY THE STRUCTURE. ADDRESS IDENTIFICATION SHALL BE MAINTAINED.</p>
CRC R320.1	<p>ACCESSIBILITY SCOPE. DWELLING UNITS IN A BUILDING CONSISTING OF THREE OR MORE DWELLING UNITS OR FOUR OR MORE CONDOMINIUM UNITS SHALL MEET THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE CHAPTER 11A. COVERED MULTIFAMILY DWELLINGS INCLUDE BUT ARE NOT LIMITED TO DWELLING UNITS LISTED IN SECTION 1.8.2. 1.2. DWELLING UNITS WITHIN A SINGLE STRUCTURE SEPARATED BY FIREWALLS DO NOT CONSTITUTE SEPARATE BUILDINGS.</p>
CRC R324.6.2	<p>PHOTOVOLTAICS SETBACK AT RIDGE. 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.</p>
CRC R327.1	<p>AGING-IN-PLACE DESIGN AND FALL PREVENTION. NEWLY CONSTRUCTED DWELLINGS SUBJECT TO THE REQUIREMENTS OF THIS CODE SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH SECTIONS R327.1.1 THROUGH R327.1.4.</p>
CRC R327.1.1	<p>REINFORCEMENT FOR GRAB BARS. AT LEAST ONE BATHROOM ON THE ENTRY LEVEL SHALL BE PROVIDED WITH REINFORCEMENT INSTALLED IN ACCORDANCE WITH THIS SECTION. 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. SEE EXCEPTIONS.</p>
CRC R327.1.3	<p>INTERIOR DOORS. AT LEAST ONE BATHROOM AND ONE BEDROOM ON THE ENTRY LEVEL SHALL PROVIDE A DOORWAY WITH A NET CLEAR OPENING OF NOT LESS THAN 32 INCHES, MEASURED WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM THE CLOSED POSITION; OR, IN THE CASE OF A TWO- OR THREE-STORY SINGLE FAMILY DWELLING, ON THE SECOND OR THIRD FLOOR OF THE DWELLING IF A BATHROOM OR BEDROOM IS NOT LOCATED ON THE ENTRY LEVEL.</p>
CRC R337	<p>MATERIALS AND CONSTRUCTION METHODS FOR EXTERIOR WILDFIRE EXPOSURE : SEE SEPARATE NOTE SECTION WHERE APPLICABLE</p>
CRC R401.3	<p>DRAINAGE: THE GROUND IMMEDIATELY ADJACENT TO THE FOUNDATION SHALL BE SLOPED AWAY FROM THE BUILDING AT A SLOPE OF NOT LESS THAN 6" IN THE FIRST 10'-0" (MINIMUM 5% SLOPE), MEASURED PERPENDICULAR TO THE FACE OF THE WALL. IMPERVIOUS SURFACES WITHIN 10'-0" OF THE BUILDING SHALL BE SLOPED A MINIMUM OF 2% AWAY FROM THE BUILDING.</p>
CRC R406.1	<p>CONCRETE AND MASONRY FOUNDATION DAMPROOFING. EXCEPT WHERE REQUIRED BY SECTION R406.2 TO BE WATERPROOFED, FOUNDATION WALLS THAT RETAIN EARTH AND ENCLOSE INTERIOR SPACES AND FLOORS BELOW GRADE SHALL BE DAMPROOFED FROM THE HIGHER OF (A) THE TOP OF THE FOOTING OR (B) 6 INCHES BELOW THE TOP OF THE BASEMENT FLOOR, TO THE FINISHED GRADE. MASONRY WALLS SHALL HAVE NOT LESS THAN INCH PORTLAND CEMENT PARGING APPLIED TO THE EXTERIOR OF THE WALL. THE PARGING SHALL BE DAMPROOFED IN ACCORDANCE WITH ONE OF THE FOLLOWING:</p> <ol style="list-style-type: none">BITUMINOUS COATING.THREE POUNDS PER SQUARE YARD OF ACRYLIC MODIFIED CEMENT.ONE-EIGHTH-INCH COAT OF SURFACE-BONDING CEMENT COMPLYING WITH ASTM C887.ANY MATERIAL PERMITTED FOR WATERPROOFING IN SECTION R406.2.OTHER APPROVED METHODS OR MATERIALS.
CRC R406.3	<p>DAMP-PROOFING FOR WOOD FOUNDATIONS. WOOD FOUNDATIONS ENCLOSING HABITABLE OR USABLE SPACES LOCATED BELOW GRADE SHALL BE DAMPROOFED IN ACCORDANCE WITH SECTIONS R406.3.1 THROUGH R406.3.4.</p>
CRC R408.1	<p>MOISTURE CONTROL. THE UNDER-FLOOR SPACE BETWEEN THE BOTTOM OF THE FLOOR JOISTS AND THE EARTH UNDER ANY BUILDING (EXCEPT SPACE OCCUPIED BY A BASEMENT) SHALL COMPLY WITH SECTION R408.2. (UNDERFLOOR VENTILATION) OR R408.3 (UNVENTED CRAWL SPACE)</p>
CRC R408.2	<p>OPENINGS FOR UNDER-FLOOR VENTILATION. THE MINIMUM NET AREA OF VENTILATION OPENINGS SHALL BE NOT LESS THAN 1 SQUARE FOOT FOR EACH 150 SQUARE FEET OF UNDER-FLOOR AREA. ONE VENTILATION OPENING SHALL BE WITHIN 3 FEET OF EACH CORNER OF THE BUILDING. VENTILATION OPENINGS SHALL BE COVERED FOR THEIR HEIGHT AND WIDTH WITH ANY OF THE LISTED APPROVED MATERIALS.</p>
CRC R408.3	<p>UNVENTED CRAWL SPACE. FOR UNVENTED UNDER-FLOOR SPACES, THE FOLLOWING ITEMS SHALL BE PROVIDED:</p> <ol style="list-style-type: none">EXPOSED EARTH SHALL BE COVERED WITH A CONTINUOUS CLASS I VAPOR RETARDER. JOINTS OF THE VAPOR RETARDER SHALL OVER- 2022 CALIFORNIA RESIDENTIAL CODE FOUNDATIONS LAP BY 6 INCHES (152 MM) AND SHALL BE SEALED OR TAPED. THE EDGES OF THE VAPOR RETARDER SHALL EXTEND NOT LESS THAN 6 INCHES (152 MM) UP THE STEM WALL AND SHALL BE ATTACHED AND SEALED TO THE STEM WALL OR INSULATION.ONE OF FOUR LISTED APPROVED OPTIONS FOR MECHANICAL CONDITIONING
CRC R506.2.3	<p>VAPOR RETARDER. A MINIMUM 10-MIL (0.010 INCH; 0.254 MM) VAPOR RETARDER CONFORMING TO ASTM E1745 CLASS A REQUIREMENTS WITH JOINTS LAPPED NOT LESS THAN 6 INCHES (152 MM) SHALL BE PLACED BETWEEN THE CONCRETE FLOOR SLAB AND THE BASE COURSE OR THE PREPARED SUBGRADE WHERE A BASE COURSE DOES NOT EXIST. SEE EXCEPTIONS.</p>
CRC R807	<p>ATTIC ACCESS. BUILDINGS WITH COMBUSTIBLE CEILING OR ROOF CONSTRUCTION SHALL HAVE AN ATTIC ACCESS OPENING TO ATTIC AREAS THAT HAVE A VERTICAL HEIGHT OF 30 INCHES OR GREATER OVER AN AREA OF NOT LESS THAN 30 SQUARE FEET. THE VERTICAL HEIGHT SHALL BE MEASURED FROM THE TOP OF THE CEILING FRAMING MEMBERS TO THE UNDERSIDE OF THE ROOF FRAMING MEMBERS.</p>

WUI REQUIREMENTS

<p>SECTION 337.5 ROOFING</p> <p>337.5.1 GENERAL. ROOFS SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER R337 AND R902. ROOFS SHALL HAVE A ROOFING ASSEMBLY INSTALLED IN ACCORDANCE WITH ITS LISTING AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.</p> <p>337.5.2 ROOF COVERINGS. WHERE THE ROOF PROFILE ALLOWS A SPACE BETWEEN THE ROOF COVERING AND THE ROOF DECK, THE SPACES SHALL BE CONSTRUCTED TO PREVENT THE INTRUSION OF FLAMES AND EMBERS, BE FIRESTOPPED WITH APPROVED MATERIALS OR HAVE ONE LAYER OF MINIMUM 72 POUND MINERAL-SURFACED NONPERFORATED CAP SHEET COMPLYING WITH ASTM D 3909 INSTALLED OVER THE COMBUSTIBLE DECKING.</p> <p>337.5.3 ROOF VALLEYS. WHERE VALLEY FLASHING IS INSTALLED, THE FLASHING SHALL BE NOT LESS THAN 0.019 INCH NO. 26 GAUGE GALVANIZED SHEET CORROSION-RESISTANT METAL INSTALLED OVER NOT LESS THAN ONE LAYER OF MINIMUM 72-POUND MINERAL-SURFACED NONPERFORATED CAP SHEET COMPLYING WITH ASTM D3909, AT LEAST 36" WIDE RUNNING THE FULL LENGTH OF THE VALLEY.</p> <p>337.5.4 ROOF GUTTERS. ROOF GUTTERS SHALL BE PROVIDED WITH THE MEANS TO PREVENT THE ACCUMULATION OF LEAVES AND DEBRIS IN THE GUTTERS</p> <p>SECTION 337.6 VENTS</p> <p>337.6.1 GENERAL. WHERE PROVIDED, VENTILATION OPENINGS FOR ENCLOSED ATTICS, GABLE ENDS, RIDGE ENDS, UNDER EAVES AND CORNICES, ENCLOSED EAVE SOFFIT SPACES, ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS, UNDERFLOOR VENTILATION, FOUNDATIONS AND CRAWL SPACES, OR ANY OTHER OPENING INTENDED TO PERMIT VENTILATION, EITHER IN A HORIZONTAL OR VERTICAL PLANE, SHALL BE IN ACCORDANCE WITH SECTION 1202 OF THE CALIFORNIA BUILDING CODE AND SECTIONS R337.6.1 THROUGH R337.6.2 TO RESIST BUILDING IGNITION FROM THE INTRUSION OF BURNING EMBERS AND FLAME THROUGH THE VENTILATION OPENINGS.</p> <p>337.6.2 REQUIREMENTS. 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:</p> <ol style="list-style-type: none">THERE SHALL BE NO FLAMING IGNITION OF THE COTTON MATERIAL DURING THE EMBER INTRUSION TEST.THERE SHALL BE NO FLAMING IGNITION DURING THE INTEGRITY TEST PORTION OF THE FLAME INTRUSION TEST.THE MAXIMUM TEMPERATURE OF THE UNEXPOSED SIDE OF THE VENT SHALL NOT EXCEED 662°F (350°C). <p>337.6.2.1 OFF RIDGE AND RIDGE VENTS. VENTS THAT ARE INSTALLED ON A SLOPED ROOF, SUCH AS DORMER VENTS, SHALL COMPLY WITH ALL THE FOLLOWING:</p> <ol style="list-style-type: none">VENTS SHALL BE COVERED WITH A MESH WHERE THE DIMENSIONS OF THE MESH THEREIN SHALL BE A MINIMUM OF 1/16 INCH (1.6 MM) AND SHALL NOT EXCEED 1/8 INCH (3.2 MM) IN DIAMETER.THE MESH MATERIAL SHALL BE NONCOMBUSTIBLE.THE MESH MATERIAL SHALL BE CORROSION RESISTANT. <p>SECTION 337.7 EXTERIOR COVERING.</p> <p>337.7.1 SCOPE. THE PROVISIONS OF THIS SECTION SHALL GOVERN THE MATERIALS AND CONSTRUCTION METHODS USED TO RESIST BUILDING IGNITION AND / OR SAFEGARD AGAINST THE INTRUSION OF FLAMES RESULTING FROM SMALL EMBER AND SHORT-TERM DIRECT FLAME CONTACT EXPOSURE.</p> <p>337.7.2 GENERAL. THE FOLLOWING EXTERIOR COVERING MATERIALS AND / OR ASSEMBLIES SHALL COMPLY WITH THIS SECTION:</p> <ol style="list-style-type: none">EXTERIOR WALL COVERING.EXTERIOR WALL ASSEMBLIES.EXTERIOR EXPOSED UNDERSIDE OF ROOF EAVE OVERHANGS.EXTERIOR EXPOSED UNDERSIDE OF ROOF GAVE SOFFITS.EXPOSED UNDERSIDE OF EXTERIOR PORCH CEILINGS.EXTERIOR EXPOSED UNDERSIDE OF FLOOR PROJECTIONS.EXTERIOR UNDERFLOOR AREAS. <p>EXCEPTIONS:</p> <ol style="list-style-type: none">EXTERIOR WALL ARCHITECTURAL TRIM EMBELLISHMENTS, FASCIAS AND GUTTERS.ROOF OR WALL TOP CORNICE PROJECTIONS AND SIMILAR ASSEMBLIES.DECK WALKING SURFACES SHALL COMPLY WITH SECTION R337.9 ONLY. <p>337.7.3 EXTERIOR WALL 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 R337.7.4:</p> <ol style="list-style-type: none">NONCOMBUSTIBLE MATERIAL.IGNITION-RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION R337.4.2.FIRE-RETARDANT-TREATED WOOD. THE FIRE-RETARDANT-TREATED WOOD SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 2303.2 OF THE CALIFORNIA BUILDING CODE. <p>337.7.3.1 EXTENT OF EXTERIOR WALL COVERING. EXTERIOR WALL COVERINGS SHALL EXTEND FROM THE TOP OF THE FOUNDATION TO THE ROOF, AND TERMINATE AT 2 INCH (50.8 MM) NOMINAL SOLID WOOD BLOCKING BETWEEN RAFTERS AT ALL ROOF OVERHANGS, OR IN THE CASE OF ENCLOSED EAVES, TERMINATE AT THE ENCLOSURE.</p> <p>337.7.4 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 R337.7.3:</p> <ol style="list-style-type: none">ASSEMBLY OF SAWN LUMBER OR GLUE-LAMINATED WOOD WITH THE SMALLEST MINIMUM NOMINAL DIMENSION OF 4 INCHES (102 MM), SAWN OR GLUE-LAMINATED PLANKS SPLINED, TONGUE-AND-GROVE, OR SET CLOSE TOGETHER AND WELL SPIKED.LOG WALL CONSTRUCTION ASSEMBLY.ASSEMBLY THAT HAS BEEN TESTED IN ACCORDANCE WITH THE TEST PROCEDURES FOR A 10-MINUTE DIRECT FLAME CONTACT EXPOSURE TEST SET FORTH IN ASTM E2707 WITH THE CONDITIONS OF ACCEPTANCE SHOWN IN SECTION R337.7.4.1.ASSEMBLY THAT MEETS THE PERFORMANCE CRITERIA IN ACCORDANCE WITH THE TEST PROCEDURES FOR A 10-MINUTE DIRECT FLAME CONTACT EXPOSURE TEST SET FORTH IN SFM STANDARD 12-7A-1.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 UL 263.ASSEMBLY SUITABLE FOR EXTERIOR FIRE EXPOSURE CONTAINING ONE LAYER OF 5/8 INCH (16 MM) TYPE X GYPSUM SHEATHING APPLIED BEHIND THE EXTERIOR WALL COVERING OR CLADDING ON THE EXTERIOR SIDE OF THE FRAMING.ASSEMBLY SUITABLE FOR EXTERIOR FIRE EXPOSURE CONTAINING ANY OF THE GYPSUM PANEL AND SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL AS COMPLYING WITH A 1-HOUR FIRE-RESISTANCE RATING, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263. <p>337.7.5 OPEN ROOF EAVES. THE EXPOSED ROOF DECKING ON THE UNDERSIDE OF UNENCLOSED ROOF EAVES SHALL CONSIST OF ONE OF THE FOLLOWING:</p> <ol style="list-style-type: none">NONCOMBUSTIBLE MATERIAL.IGNITION-RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 7044.2.FIRE-RETARDANT-TREATED WOOD. THE FIRE-RETARDANT-TREATED WOOD SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 2303.2 OF THE CALIFORNIA BUILDING CODE.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.ONE LAYER OF 5/8-INCH (16 MM) TYPE X GYPSUM SHEATHING APPLIED BEHIND AN EXTERIOR COVERING ON THE UNDERSIDE OF THE ROOF DECK.THE EXTERIOR PORTION OF A 1-HOUR FIRE-RESISTANCE-RATED EXTERIOR ASSEMBLY, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263, APPLIED TO THE UNDER-SIDE OF THE ROOF DECK DESIGNED FOR EXTERIOR FIRE EXPO-SURE, INCLUDING ASSEMBLIES USING THE GYPSUM PANEL AND SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL. EXCEPTIONS: THE FOLLOWING MATERIALS DO NOT REQUIRE PROTECTION:<ol style="list-style-type: none">FASCIA AND OTHER ARCHITECTURAL TRIM BOARDS.
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WUI REQUIREMENTS

<p>337.7.6 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 SLOPED RAFTER TAILS WITH AN EXTERIOR COVERING APPLIED TO THE UNDERSIDE OF THE RAFTER TAILS, SHALL BE PROTECTED BY ONE OF THE FOLLOWING:</p> <ol style="list-style-type: none">NONCOMBUSTIBLE MATERIAL.IGNITION-RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION R337.4.2.FIRE-RETARDANT-TREATED WOOD. THE FIRE-RETARDANT-TREATED WOOD SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 2303.2 OF THE CALIFORNIA BUILDING CODE.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.ONE LAYER OF 5/8 INCH (16 MM) TYPE X GYPSUM SHEATHING APPLIED BEHIND THE EXTERIOR COVERING OR CLADDING ON THE UNDERSIDE OF THE RAFTER TAILS OR SOFFIT.THE EXTERIOR PORTION OF A 1-HOUR FIRE RESISTIVE EXTE-RIOR ASSEMBLY APPLIED TO THE UNDERSIDE OF THE RAFTER TAILS OR SOFFIT, INCLUDING ASSEMBLIES USING THE GYPSUM PANEL AND SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL.BOXED-IN ROOF EAVE SOFFIT ASSEMBLIES WITH A HORIZON-TAL UNDERSIDE THAT MEET THE PERFORMANCE CRITERIA IN SECTION R337.7.11 WHEN TESTED IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN ASTM E2957.BOXED-IN ROOF EAVE SOFFIT ASSEMBLIES WITH A HORIZON-TAL UNDERSIDE THAT MEET THE PERFORMANCE CRITERIA IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN SFM STANDARD 12-7A-3. EXCEPTION TO SECTION R337.7.6: THE FOLLOWING MATERIALS DO NOT REQUIRE PROTECTION: FASCIA AND OTHER ARCHITECTURAL TRIM BOARDS. <p>337.7.7 EXTERIOR PORCH CEILINGS. THE EXPOSED UNDERSIDE OF EXTERIOR PORCH CEILINGS SHALL BE PROTECTED BY ONE OF THE FOLLOWING:</p> <ol style="list-style-type: none">NONCOMBUSTIBLE MATERIAL.IGNITION-RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION R337.4.2.FIRE-RETARDANT-TREATED WOOD. THE FIRE-RETARDANT-TREATED WOOD SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 2303.2 OF THE CALIFORNIA BUILDING CODE.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.ONE LAYER OF 5/8 INCH (16 MM) TYPE X GYPSUM SHEATHING APPLIED BEHIND THE EXTERIOR COVERING ON THE UNDERSIDE OF THE CEILING.THE EXTERIOR PORTION OF A 1-HOUR FIRE-RESISTANCE-RATED EXTERIOR ASSEMBLY, AS TESTED IN ACCORDANCE WITH ASTM E119, APPLIED TO THE UNDERSIDE OF THE CEILING ASSEMBLY, INCLUDING ASSEMBLIES USING THE GYPSUM PANEL AND SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL.PORCH CEILING ASSEMBLIES WITH A HORIZONTAL UNDER-SIDE THAT MEET THE PERFORMANCE CRITERIA IN SECTION R337.7.11 WHEN TESTED IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN ASTM E2957.PORCH CEILING ASSEMBLIES WITH A HORIZONTAL UNDER-SIDE THAT MEET THE PERFORMANCE CRITERIA IN ACCOR-DANCE WITH THE TEST PROCEDURES SET FORTH IN SFM STANDARD 12-7A-3. EXCEPTION: ARCHITECTURAL TRIM BOARDS <p>337.7.8 FLOOR PROJECTIONS. THE EXPOSED UNDERSIDE OF A CANTILEVERED FLOOR PROJECTION WHERE A FLOOR ASSEMBLY EXTENDS OVER AN EXTERIOR WALL SHALL BE PROTECTED BY ONE OF THE FOLLOWING:</p> <ol style="list-style-type: none">NONCOMBUSTIBLE MATERIAL.IGNITION-RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION R337.4.2.FIRE-RETARDANT-TREATED WOOD. THE FIRE-RETARDANT-TREATED WOOD SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 2303.2 OF THE CALIFORNIA BUILDING CODE.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.ONE LAYER OF 1/2-INCH (12.7 MM) TYPE X GYPSUM SHEATHING APPLIED BEHIND AN EXTERIOR COVERING ON THE UNDERSIDE OF THE FLOOR PROJECTION.THE EXTERIOR PORTION OF A 1-HOUR FIRE-RESISTANCE-RATED EXTERIOR ASSEMBLY, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263, APPLIED TO THE UNDER-SIDE OF THE FLOOR PROJECTION, INCLUDING ASSEMBLIES USING THE GYPSUM PANEL AND SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL.THE UNDERSIDE OF A FLOOR ASSEMBLY THAT MEETS THE PERFORMANCE CRITERIA IN SECTION R337.7.11 WHEN TESTED IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN ASTM E2957.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 R337.7.8: ARCHITECTURAL EXCEPTION: ARCHITECTURAL TRIM BOARDS. <p>337.7.9 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 CONSIST OF ONE OF THE FOLLOWING:</p> <ol style="list-style-type: none">NONCOMBUSTIBLE MATERIAL.IGNITION-RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION R337.4.2.FIRE-RETARDANT-TREATED WOOD. THE FIRE-RETARDANT-TREATED WOOD SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 2303.2 OF THE CALIFORNIA BUILDING CODE.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.ONE LAYER OF 5/8 INCH (16 MM) TYPE X GYPSUM SHEATHING APPLIED BEHIND AN EXTERIOR COVERING ON THE UNDERSIDE OF THE FLOOR PROJECTION.THE EXTERIOR PORTION OF A 1-HOUR FIRE-RESISTANCE-RATED EXTERIOR ASSEMBLY, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263, APPLIED TO THE UNDER-SIDE OF THE FLOOR PROJECTION INCLUDING ASSEMBLIES USING THE GYPSUM PANEL AND SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL.THE UNDERSIDE OF A FLOOR ASSEMBLY THAT MEETS THE PERFORMANCE CRITERIA IN SECTION R337.7.11 WHEN TESTED IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN ASTM E2957.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 R337.7.9: STRUCTURAL COLUMNS AND BEAMS DO NOT REQUIRE PROTECTION WHEN THEY ARE CONSTRUCTED WITH SAWN LUMBER OR GLUE LAMINATED WOOD WITH THE SMALLEST MINIMUM NOMINAL DIMENSION OF 4 INCHES (102 MM), SAWN OR GLUE-LAMINATED PLANKS SHALL BE SPLINED, TONGUE-AND-GROVE, OR SET CLOSE TOGETHER AND WELL SPIKED. <p>337.7.8 UNDERSIDE OF APPENDAGES. WHEN REQUIRED BY 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 BE PROTECTED BY ONE OF THE FOLLOWING:</p> <ol style="list-style-type: none">SEE LIST ABOVE FOR R337.7.8EXCEPTION TO SECTION R337.7.10: STRUCTURAL COLUMNS AND BEAMS DO NOT REQUIRE PROTECTION WHEN THEY ARE CONSTRUCTED WITH SAWN LUMBER OR GLUE-LAMINATED WOOD WITH THE SMALLEST MINIMUM NOMINAL DIMENSION OF 4 INCHES (102 MM), SAWN OR GLUE-LAMINATED PLANKS SHALL BE SPLINED, TONGUE-AND-GROVE, OR SET CLOSE TOGETHER AND WELL SPIKED.

WUI REQUIREMENTS

<p>SECTION R337.8 EXTERIOR WINDOWS, SKYLIGHTS & DOORS.</p> <p>R337.8.2 EXTERIOR GLAZING. THE FOLLOWING EXTERIOR GLAZING MATERIALS AND/OR ASSEMBLIES SHALL COMPLY WITH THIS SECTION:</p> <ol style="list-style-type: none">EXTERIOR WINDOWS.EXTERIOR GLAZED DOORS.GLAZED OPENINGS WITHIN EXTERIOR DOORS.GLAZED OPENINGS WITHIN EXTERIOR GARAGE DOORS.EXTERIOR STRUCTURAL GLASS VENEER.SKYLIGHTSVENTS <p>R337.8.2.1 EXTERIOR WINDOWS, SKYLIGHTS AND EXTERIOR GLAZED DOOR ASSEMBLY REQUIREMENTS. EXTERIOR WINDOWS AND EXTERIOR DOOR ASSEMBLIES SHALL COMPLY WITH ONE OF THE FOLLOWING REQUIREMENTS:</p> <ol style="list-style-type: none">BE CONSTRUCTED OF MULTI-PANE GLAZING WITH A MINIMUM OF ONE TEMPERED PANE MEETING THE REQUIREMENTS OF SECTION R308 SAFETY GLAZING, ORBE CONSTRUCTED OF GLASS BLOCK, ORHAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED ACCORDING TO NFPA 257, ORBE TESTED TO MEET THE PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-2 <p>R337.8.2.2 STRUCTURAL GLASS VENEER. THE WALL ASSEMBLY BEHIND STRUCTURAL GLASS VENEER SHALL COMPLY WITH SECTION R337.7.3.</p> <p>R337.8.3 EXTERIOR DOORS. EXTERIOR DOORS SHALL COMPLY WITH ONE OF THE FOLLOWING:</p> <ol style="list-style-type: none">THE EXTERIOR SURFACE OR CLADDING SHALL BE OF NON-COMBUSTIBLE ORTHE EXTERIOR SURFACE OR CLADDING SHALL BE OF IGNITION-RESISTANCE MATERIAL, ORTHE EXTERIOR DOOR SHALL BE CONSTRUCTED OF SOLID CORE WOOD THAT COMPLY WITH THE FOLLOWING REQUIREMENTS:<ol style="list-style-type: none">STILES AND RAILS SHALL BE NOT LESS THAN 1 3/8" THICK.PANELS SHALL NOT BE LESS THAN 1 1/4" THICK, EXCEPT FOR THE EXTERIOR PERIMETER OF THE RAISED PANEL THAT MAY TAPER TO A TONGUE NOT LESS THAN 3/8" THICK.THE EXTERIOR DOOR SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED ACCORDING TO NFPA 252.THE EXTERIOR SURFACE OR CLADDING SHALL BE TESTED TO MEET THE PERFORMANCE REQUIREMENTS OF ASTM E2707.THE EXTERIOR SURFACE OR CLADDING SHALL BE TESTED TO MEET THE PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-1 <p>R337.8.3.1 EXTERIOR DOOR GLAZING. GLAZING IN EXTERIOR DOORS SHALL COMPLY WITH SECTION R337.8.2.1</p> <p>R337.8.4 WEATHER STRIPPING. EXTERIOR GARAGE DOORS SHALL BE PROVIDED WITH WEATHER STRIPPING TO RESIST THE INTRUSION OF EMBERS FROM ENTERING THROUGH GAPS BETWEEN DOORS AND DOOR OPENINGS WHEN VISIBLE GAPS EXCEED 1/8". WEATHER STRIPPING OR SEALS SHALL BE INSTALLED ON THE BOTTOM, SIDES AND TOPS OF DOORS TO REDUCE GAPS BETWEEN DOORS AND DOOR OPENINGS TO 1/8" OR LESS.</p> <p>SECTION R337.9 DECKING</p> <p>R337.9.1 GENERAL. THE WALKING SURFACE MATERIALS OF DECKS, PORCHES BALCONIES AND STAIRS SHALL COMPLY WITH THE REQUIREMENTS OF THIS SECTION.</p> <p>R337.9.2 WHERE REQUIRED. THE WALKING SURFACE MATERIAL OF DECKS, PORCHES, BALCONIES AND STAIRS SHALL COMPLY WITH THE REQUIREMENTS OF THIS SECTION WHEN ANY PORTION OF SUCH SURFACE IS WITHIN 10 FEET OF THE BUILDING.</p> <p>R337.9.3 DECKING SURFACES. THE WALKING SURFACE MATERIAL OF DECKS, PORCHES, BALCONIES AND STAIRS SHALL BE CONSTRUCTED WITH ONE OF THE FOLLOWING:</p> <ol style="list-style-type: none">MATERIAL THAT COMPLIES WITH THE PERFORMANCE REQUIREMENTS OF SECTION R337.9.4 WHEN TESTED IN ACCORDANCE WITH BOTH ASTM E2932 AND ASTM E1726.IGNITION RESISTANCE MATERIAL THAT COMPLIES WITH THE PERFORMANCE REQUIREMENTS OF SECTION R337.4.3 WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723.MATERIAL THAT COMPLIES WITH THE PERFORMANCE REQUIREMENTS OF BOTH SFM STANDARD 12-7A-4 AND SFM STANDARD 12-7A-5.EXTERIOR FIRE RETARDANT WOOD.NON-COMBUSTIBLE MATERIAL.ANY MATERIAL THAT COMPLIES WITH THE PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-4A WHEN ATTACHED EXTERIOR WALL COVERING IS ALSO COMPOSED OF NON-COMBUSTIBLE OR IGNITION-RESISTANT MATERIAL.<ol style="list-style-type: none">EXCEPTION: WALL MATERIALS MAY BE OF ANY MATERIAL THAT OTHERWISE COMPLIES WITH THIS CHAPTER WHEN THE DECKING SURFACE MATERIAL COMPLIES WITH THE PERFORMANCE REQUIREMENTS OF ASTM E84 WITH A CLASS B FLAME SPREAD RATING.ANY MATERIAL THAT COMPLIES WITH THE PERFORMANCE REQUIREMENTS OF SECTION R337.9.5 WHEN TESTED IN ACCORDANCE WITH ASTM E2632 AND WHEN ATTACHED EXTERIOR WALL COVERING IS ALSO COMPOSED OF ONLY NON-COMBUSTIBLE OR IGNITION RESISTANT MATERIALS.<ol style="list-style-type: none">EXCEPTION: WALL MATERIAL SHALL BE PERMITTED TO BE OF ANY MATERIAL THAT OTHERWISE COMPLIES WITH THIS CHAPTER WHEN THE DECKING SURFACE MATERIAL COMPLIES WITH THE PERFORMANCE REQUIREMENTS OF ASTM E84 WITH A CLASS B FLAME SPREAD INDEX. <p>SECTION R337.10 ACCESSORY STRUCTURES:</p> <p>R337.10.1 GENERAL. ACCESSORY BUILDINGS AND MISCELLANEOUS STRUCTURES DEFINED IN THIS SECTION THAT HAVE THE POTENTIAL TO POSE A SIGNIFICANT EXTERIOR FIRE EXPOSURE HAZARD TO APPLICABLE BUILDINGS DURING WILDFIRES SHALL BE CONSTRUCTED TO CONFORM TO THE REQUIREMENTS OF THIS SECTION.</p> <p>R337.10.2 APPLICABILITY. UNLESS OTHERWISE ADDRESSED BY THE EXCEPTIONS OF SECTION R337.1.3, THE PROVISIONS OF THIS SECTION SHALL APPLY TO BUILDINGS ACCESSORY TO AN APPLICABLE BUILDING ON THE SAME LOT. THIS SECTION SHALL ALSO APPLY TO ATTACHED AND DETACHED MISCELLANEOUS STRUCTURES THAT REQUIRE A BUILDING PERMIT, INCLUDING BUT NOT LIMITED TO; TRELLISES, ARBORS, PATIO COVERS, GAZEBOS AND SIMILAR STRUCTURES.</p> <p>EXCEPTIONS:</p> <ol style="list-style-type: none">DECKS SHALL COMPLY WITH THE REQUIREMENTS OF SECTION R337.9.AWNINGS AND CANOPIES SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 3105 OF THE CBC.EXTERIOR WALL ARCHITECTURAL TRIM, EMBELLISHMENTS, AND FASCIAS.ROOF OR WALL TOP CORNICE PROJECTIONS AND SIMILAR ASSEMBLIES. <p>R337.10.3 WHERE REQUIRED. NO REQUIREMENTS SHALL APPLY TO ACCESSORY BUILDINGS OR MISCELLANEOUS STRUCTURES WHEN LOCATED AT LEAST 50 FEET FROM AN APPLICABLE BUILDING. APPLICABLE ACCESSORY BUILDINGS AND ATTACHED MISCELLANEOUS STRUCTURES, OR DETACHED MISCELLANEOUS THAT ARE INSTALLED AT A DISTANCE OF LESS THAN 3 FEET FROM AN APPLICABLE BUILDING, SHALL COMPLY WITH THIS SECTION. WHEN REQUIRED BY THE ENFORCING AGENCY, DETACHED MISCELLANEOUS STRUCTURES THAT ARE INSTALLED AT A DISTANCE OF MORE THAN 3 FEET BUT LESS THAN 50 FEET FROM AN APPLICABLE BUILDING SHALL COMPLY WITH THE REQUIREMENTS OF THIS SECTION.</p> <p>R337.10.3.1 ACCESSORY BUILDING REQUIREMENTS. APPLICABLE ACCESSORY BUILDINGS THAT ARE LESS THAN 120 SQUARE FEET IN FLOOR AREA AND ARE LOCATED MORE THAN 50 FEET FROM AN APPLICABLE BUILDING SHALL BE CONSTRUCTED OF NONCOMBUSTIBLE MATERIALS OR OF IGNITION RESISTANT MATERIALS AS DESCRIBED IN SECTION R337.4.2.</p> <p>R337.10.3.2 ATTACHED MISCELLANEOUS STRUCTURE REQUIREMENTS. APPLICABLE MISCELLANEOUS STRUCTURES THAT ARE ATTACHED TO, OR INSTALLED AT A DISTANCE OF LESS THAN 3 FEET FROM, AN APPLICABLE BUILDING SHALL BE CONSTRUCTED OF NONCOMBUSTIBLE MATERIALS OR OF IGNITION RESISTANT MATERIALS AS DESCRIBED IN SECTION R337.4.2.</p> <p>R337.10.3.3 DETACHED MISCELLANEOUS STRUCTURE REQUIREMENTS. WHEN REQUIRED BY THE ENFORCING AGENCY, APPLICABLE DETACHED MISCELLANEOUS STRUCTURES THAT ARE INSTALLED AT A DISTANCE OF MORE THAN 3 FEET BUT LESS THAN 50 FEET FROM AN APPLICABLE BUILDING SHALL BE CONSTRUCTED OF NONCOMBUSTIBLE MATERIALS OR OF IGNITION RESISTANT MATERIALS AS DESCRIBED IN SECTION R337.4.3.</p>

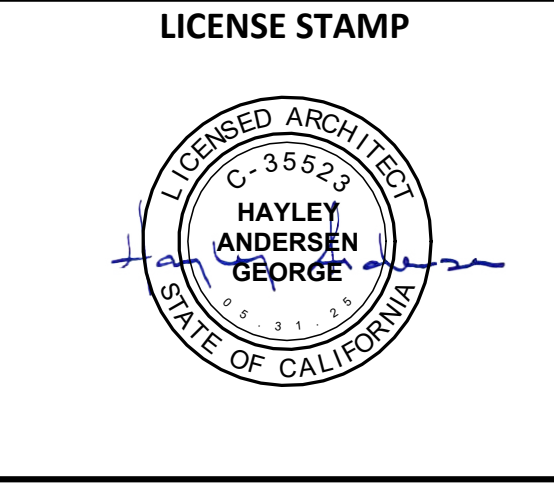


PROJECT

SHASTA COUNTY PRE-APPROVED
ADUS
ADU 2 - CASTELLA MODERN

REVISIONS

DATE	DESCRIPTION



CONSULTANT

AGENCY APPROVAL

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STIPULATION FOR REUSE
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PROJ ARCH : HIMA
SET ISSUE DATE: 8/7/2023

CODE ANALYSIS - CRC & WUI
G3.1

CEC REQUIREMENTS

CEC 200.3	PREMISES WIRING SHALL NOT BE ELECTRICALLY CONNECTED TO A SUPPLY SYSTEM UNLESS THE LATTER CONTAINS, FOR ANY GROUNDED CONDUCTOR OF THE INTERIOR SYSTEM, A CORRESPONDING CONDUCTOR THAT IS GROUNDED.
CEC 210.8	ALL 125-VOLT, SINGLE-PHASE, 15 AND 20 AMPERE RECEPTACLES INSTALLED IN THE LOCATIONS SPECIFIED BELOW SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL. <ul style="list-style-type: none">BATHROOMSOUTDOORSKITCHENSWITHIN 6' - 0" OF SINKS
CEC 210.11	LOAD SHALL BE EVENLY PROPORTIONED AMONG MULTI-OUTLET BRANCH-CIRCUITS WITHIN THE PANELBOARD(S). BRANCH-CIRCUIT OVERCURRENT DEVICES AND CIRCUITS SHALL BE REQUIRED TO BE INSTALLED ONLY TO SERVE THE CONNECTED LOAD.
CEC 210.11	TWO OR MORE 20-AMPERE SMALL APPLIANCE BRANCH CIRCUITS SHALL BE PROVIDED FOR ALL RECEPTACLE OUTLETS SPECIFIED BY 210.52(B).
CEC 210.11	AT LEAST ONE ADDITIONAL 20-AMPERE BRANCH-CIRCUIT SHALL BE PROVIDED TO SUPPLY THE LAUNDRY RECEPTACLE OUTLET(S) REQUIRED BY 210.52(F). THIS CIRCUIT SHALL HAVE NO OTHER OUTLETS.
CEC 210.11	AT LEAST ONE 20-AMPERE BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY BATHROOM RECEPTACLE OUTLET(S). SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS.
CEC 210.11	ALL 120-VOLT, SINGLE PHASE, 15 AND 20 AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
CEC 210.12	IF RMC, IMC, EMT, TYPE MC, OR STEEL ARMORED TYPE AC CABLES MEETING THE REQUIREMENTS OF 250.118 AND METAL OUTLET AND JUNCTION BOXES ARE INSTALLED FOR THE PURPOSE OF THE BRANCH-CIRCUIT BETWEEN THE BRANCH-CIRCUIT OVERCURRENT DEVICE AND THE FIRST OUTLET, IT SHALL BE PERMITTED TO INSTALL AN OUTLET BRANCH-CIRCUIT TYPE AFCI AT THE OUTLET TO PROVIDE PROTECTION FOR THE REMAINING PORTION OF THE BRANCH CIRCUIT.
CEC 210.19	THE MINIMUM BRANCH-CIRCUIT CONDUCTOR SIZE, BEFORE THE APPLICATION OF ANY ADJUSTMENT OR CORRECTION FACTORS, SHALL HAVE AN ALLOWABLE AMPACITY NOT LESS THAN THE NONCONTINUOUS LOAD PLUS 125 PERCENT OF THE CONTINUOUS LOAD UNLESS THE ASSEMBLY, INCLUDING OVERCURRENT DEVICES ARE LISTED FOR OPERATION AT 100% OF ITS RATING.
CEC 210.20	CONDUCTORS OF BRANCH CIRCUITS SUPPLYING MORE ONE RECEPTACLE FOR CORD-AND-PLUG-CONNECTED PORTABLE LOADS SHALL HAVE AN AMPACITY OF NOT LESS THAN THE RATING OF THE BRANCH CIRCUIT.
CEC 210.19	BRANCH CIRCUIT CONDUCTORS SUPPLYING HOUSEHOLD RANGES, WALLMOUNTED OVENS, COUNTER-MOUNTED COOKING UNITS, AND OTHER HOUSEHOLD COOKING APPLIANCES SHALL HAVE AN AMPACITY NOT LESS THAN THE RATING OF THE BRANCH CIRCUIT AND NOT LESS THAN THE MAXIMUM LOAD TO BE SERVED. FOR RANGES OF 8% KW OR MORE RATING, THE MINIMUM BRANCH-CIRCUIT RATING SHALL BE 40 AMPERES.
CEC 210.20	CONDUCTORS SHALL BE PROTECTED IN ACCORDANCE WITH 240.4. FLEXIBLE CORDS AND FIXTURE WIRES SHALL BE PROTECTED IN ACCORDANCE WITH 240.5.
CEC 210.20	WHERE CONNECTED TO A BRANCH CIRCUIT SUPPLYING TWO OR MORE RECEPTACLES OR OUTLETS, A RECEPTACLE SHALL NOT SUPPLY A TOTAL CORD-AND-PLUG-CONNECTED LOAD IN EXCESS OF THE MAXIMUM SPECIFIED IN TABLE 210.21(B)(2). CIRCUIT RATING 15 OR 20 AMPS & RECEPTACLE RATING 15 AMPS = MAX LOAD OF 12 AMPS CIRCUIT RATING 20 AMPS & RECEPTACLE RATING 20 AMPS = MAX LOAD OF 16 AMPS CIRCUIT RATING 30 AMPS & RECEPTACLE RATING 30 AMPS = MAX LOAD OF 24 AMPS
CEC 210.25	BRANCH CIRCUITS IN EACH DWELLING UNIT SHALL SUPPLY ONLY LOADS WITHIN THAT DWELLING UNIT OR LOADS ASSOCIATED ONLY WITH THAT DWELLING UNIT.
CEC 210.25	BRANCH CIRCUITS INSTALLED FOR THE PURPOSE OF LIGHTING, CENTRAL ALARM, SIGNAL, COMMUNICATIONS, OR OTHER FOR PUBLIC OR COMMON AREAS OF A TWO-FAMILY DWELLING, A MULTIFAMILY DWELLING, OR A MULTI-OCCUPANCY BUILDING SHALL NOT BE SUPPLIED FROM EQUIPMENT THAT SUPPLIES AN INDIVIDUAL DWELLING UNIT OR TENANT SPACE.
CEC T210.24	15A CIRCUITS = 14AWG, 20A CIRCUITS = 12AWG, 30A CIRCUITS = 10AWG, 40A CIRCUITS = 8AWG, 50A CIRCUITS = 6 AWG.
CEC 210.52	RECEPTACLES SHALL BE INSTALLED SUCH THAT NO POINT MEASURED HORIZONTALLY ALONG THE FLOOR LINE OF ANY WALL SPACE IS MORE THAN 1.8 M (6 FT) FROM A RECEPTACLE OUTLET.
CEC 210.52	IN THE KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR AREA OF A DWELLING UNIT, THE TWO OR MORE 20-AMPERE SMALL-APPLIANCE BRANCH CIRCUITS REQUIRED BY 210.11 (C)(1) SHALL SERVE ALL WALL AND FLOOR RECEPTACLE OUTLETS COVERED BY 210.52(A), ALL COUNTERTOP OUTLETS COVERED BY 210.52(C), AND RECEPTACLE OUTLETS FOR REFRIGERATION EQUIPMENT. THE TWO OR MORE SMALL-APPLIANCE BRANCH CIRCUITS SPECIFIED IN 210.52(B)(1) SHALL HAVE NO OTHER OUTLETS.
CEC 210.52	A RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH WALL COUNTERTOP SPACE THAT IS 300 MM (12 IN.) OR WIDER. RECEPTACLE OUTLETS SHALL BE INSTALLED SO THAT NO POINT ALONG THE WALL LINE IS MORE THAN 600 MM (24 IN.) MEASURED HORIZONTALLY FROM A RECEPTACLE OUTLET IN THAT SPACE. RECEPTACLE OUTLETS SHALL NOT BE REQUIRED ON A WALL DIRECTLY BEHIND A RANGE, COUNTER-MOUNTED COOKING UNIT, OR SINK.
CEC 210.52	RECEPTACLE OUTLETS SHALL BE LOCATED ON OR ABOVE, BUT NOT MORE THAN 500MM (20 IN.) ABOVE, THE COUNTERTOP.
CEC 210.52	IN DWELLING UNITS, AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED IN BATHROOMS WITHIN 900 MM (3 FT) OF THE OUTSIDE EDGE OF EACH BASIN. THE RECEPTACLE OUTLET SHALL BE LOCATED ON A WALL OR PARTITION THAT IS ADJACENT TO THE BASIN OR BASIN COUNTERTOP, LOCATED ON THE COUNTERTOP, OR INSTALLED ON THE SIDE OR FACE OF THE BASIN CABINET NOT MORE THAN 300 MM (12 IN.) BELOW THE COUNTERTOP.
CEC 210.52	IN DWELLING UNITS, AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED FOR THE LAUNDRY.
CEC 210.52	IN DWELLING UNITS, HALLWAYS OF 3.0 M (10 FT) OR MORE IN LENGTH SHALL HAVE AT LEAST ONE RECEPTACLE OUTLET. FOYERS THAT ARE NOT PART OF A HALLWAY IN ACCORDANCE WITH 210.52(H) AND THAT HAVE AN AREA THAT IS GREATER THAN 5.6 (60 FT ²) SHALL HAVE A RECEPTACLE(S) LOCATED IN EACH WALL SPACE 900 MM (3 FT) OR MORE IN WIDTH AND UNBROKEN BY DOORWAYS, FLOOR-TO-CEILING WINDOWS, AND SIMILAR OPENINGS.
CEC 210.70	AT LEAST ONE WALL SWITCH CONTROLLED LIGHTING OUTLET SHALL BE INSTALLED IN EVERY HABITABLE ROOM AND BATHROOM.
CEC 240.24	OVERCURRENT DEVICES SHALL BE READILY ACCESSIBLE AND SHALL BE INSTALLED SO THAT THE CENTER OF THE GRIP OF THE OPERATING HANDLE OF THE SWITCH OR CIRCUIT BREAKER, WHEN IN ITS HIGHEST POSITION, IS NOT MORE THAN 2.0 M (6 FT 7 IN.) ABOVE THE FLOOR. EACH OCCUPANT SHALL HAVE READY ACCESS TO ALL OVERCURRENT DEVICES PROTECTING THE CONDUCTORS SUPPLYING THAT OCCUPANCY, UNLESS OTHERWISE PERMITTED IN 240.24(B)(1) AND (B)(2).
CEC 404.2	WHERE SWITCHES CONTROL LIGHTING LOADS SUPPLIED BY A GROUNDED GENERAL PURPOSE BRANCH CIRCUIT, THE GROUNDED CIRCUIT CONDUCTOR FOR THE CONTROLLED LIGHTING CIRCUIT SHALL BE PROVIDED AT THE SWITCH LOCATION.

CPC REQUIREMENTS CONT.

CPC 313.3	SUSPENDED PIPING SHALL BE SUPPORTED AT INTERVALS NOT TO EXCEED THOSE SHOWN IN TABLE 313.3
CPC 313.6	HANGER ROD SIZES SHALL BE NOT SMALLER THAN THOSE SHOWN IN TABLE 313.6
CPC 402.2	WHERE A FIXTURE COMES IN CONTACT WITH THE WALL OR FLOOR, THE JOINT BETWEEN THE FIXTURE AND THE WALL OR FLOOR SHALL BE MADE WATERTIGHT.
CPC 402.5	NO WATER CLOSET OR BIDET SHALL BE SET CLOSER THAN 15 INCHES (381 MM) FROM ITS CENTER TO A SIDE WALL OR OBSTRUCTION NOR CLOSER THAN 30 INCHES (762 MM) CENTER TO CENTER TO A SIMILAR FIXTURE. THE CLEAR SPACE IN FRONT OF A WATER CLOSET, LAVATORY, OR BIDET SHALL BE NOT LESS THAN 1 24 INCHES (610 MM). NO URINAL SHALL BE SET CLOSER THAN 12 INCHES (305 MM) FROM ITS CENTER TO A SIDE WALL OR PARTITION NOR CLOSER THAN 24 INCHES (610 MM) CENTER TO CENTER.
CPC 407.2.1.1	THE MAXIMUM FLOW RATE OF KITCHEN FAUCETS SHALL NOT EXCEED 1.8 GALLONS (6.81 L) PER MINUTE AT 60 PSI
CPC 407.2.1.2	THE MAXIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT EXCEED 1.2 GALLONS (4.54 L) PER MINUTE AT 60 PSI. THE MINIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT BE LESS THAN 0.8 GALLONS (3.03 L) PER MINUTE AT 20 PSI.
CPC 407.2.1.3	THE MAXIMUM FLOW RATE OF LAVATORY FAUCETS, INSTALLED IN COMMON AND PUBLIC USE AREAS (OUTSIDE OF DWELLINGS OR SLEEPING UNITS) IN RESIDENTIAL BUILDINGS, SHALL NOT EXCEED 0.5 GALLONS (1.89 L) PER MINUTE AT 60 PSI.
CPC 407.3	LAVATORIES SHALL HAVE A WASTE OUTLET AND FIXTURE TAILPIECE NOT LESS THAN 1 1/4 INCHES (32 MM) IN DIAMETER.
CPC 408.2	SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF 2.0 GALLONS (7.57 L) PER MINUTE MEASURED AT 80 PSI AND MUST COMPLY WITH DIVISION 4.3 OF THE CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN).
CPC 408.4	SHOWERS SHALL HAVE A WASTE OUTLET AND FIXTURE TAILPIECE NOT LESS THAN 2 INCHES (50 MM) IN DIAMETER.
CPC 409.2	BATHTUBS AND WHIRLPOOL BATHTUBS SHALL HAVE A WASTE OUTLET AND FIXTURE TAILPIECE NOT LESS THAN 1 1/2 INCHES (40 MM) IN DIAMETER.
CPC 411.2	THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS (4.8 L) PER FLUSH WHEN TESTED IN ACCORDANCE WITH ASME A112.19.2/CSA B45.1
CPC 411.3	WATER CLOSET SEATS SHALL BE PROPERLY SIZED FOR THE WATER CLOSET BOWL TYPE, AND SHALL BE OF SMOOTH, NON-ABSORBENT MATERIAL. SEATS, FOR PUBLIC USE, SHALL BE OF THE ELONGATED TYPE AND EITHER OF THE OPEN FRONT TYPE OR HAVE AN AUTOMATIC SEAT COVER DISPENSER. PLASTIC SEATS SHALL COMPLY WITH IAPMO Z124.5.
CPC 414.2	THE WATER SUPPLY CONNECTION TO A COMMERCIAL DISH WASHING MACHINE SHALL BE PROTECTED BY AN AIR GAP OR A BACK FLOW PREVENTION DEVICE IN ACCORDANCE WITH SECTION 603.3.2, SECTION 603.3.5, SECTION 603.3.6. OR ASSE 1004.
CPC 414.3	DOMESTIC DISHWASHING MACHINES SHALL DISCHARGE INDIRECTLY THROUGH AN AIR GAP FITTING IN ACCORDANCE WITH SECTION 807.3 INTO A WASTE RECEPTOR, A WYE BRANCH FITTING ON THE TAILPIECE OF A KITCHEN SINK, OR DISHWASHER CONNECTION OF A FOOD WASTE DISPOSER. COMMERCIAL DISHWASHING MACHINES SHALL DISCHARGE INDIRECTLY THROUGH AN AIR GAP OR DIRECT CONNECTION IN ACCORDANCE WITH SECTION 704.3 WITH FLOOR DRAIN PROTECTION.
CPC 418.3	FLOOR DRAINS SHALL BE INSTALLED IN THE FOLLOWING AREAS: <ul style="list-style-type: none">TOILET ROOMS CONTAINING TWO OR MORE WATER CLOSETS OR A COMBINATION OF ONE WATER CLOSET AND ONE URINAL, EXCEPT IN A DWELLING UNIT.COMMERCIAL KITCHENS AND IN ACCORDANCE WITH SECTION 704.3.LAUNDRY ROOMS IN COMMERCIAL BUILDINGS AND COMMON LAUNDRY FACILITIES IN MULTI-FAMILY DWELLING BUILDINGS.BOILER ROOMS.
CPC 420.2	SINK FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 2.2 GPM AT 60 PSI.
CPC 420.2.1	KITCHEN FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS (6.8 L) PER MINUTE AT 60 PSI.
CPC 420.4	KITCHEN AND LAUNDRY SINKS SHALL HAVE A WASTE OUTLET AND FIXTURE TAILPIECE NOT LESS THAN 1 1/2 INCHES (40 MM) IN DIAMETER. SERVICE SINKS SHALL HAVE A WASTE OUTLET AND FIXTURE TAILPIECE NOT LESS THAN 2 INCHES (50 MM) IN DIAMETER. FIXTURE TAILPIECES SHALL BE CONSTRUCTED FROM THE MATERIALS SPECIFIED IN SECTION 701.2 FOR DRAINAGE PIPING. WASTE OUTLETS SHALL BE PROVIDED WITH AN APPROVED STRAINER.
CPC 501.1	THE MINIMUM CAPACITY FOR STORAGE WATER HEATERS SHALL BE IN ACCORDANCE WITH THE FIRST HOUR RATING LISTED IN TABLE 501.1 (1).
CPC 507.2	WATER HEATERS SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION. STRAPPING SHALL BE AT POINTS WITHIN THE UPPER ONE-THIRD (1/3) AND LOWER ONE-THIRD (1/3) OF ITS VERTICAL DIMENSIONS. AT THE LOWER POINT, A MINIMUM DISTANCE OF FOUR (4) INCHES (102 MM) SHALL BE MAINTAINED ABOVE THE CONTROLS WITH THE STRAPPING.
CPC 507.4	A WATER HEATER SUPPORTED FROM THE GROUND SHALL REST ON LEVEL CONCRETE OR OTHER APPROVED BASE EXTENDING NOT LESS THAN 3 INCHES (76 MM) ABOVE THE ADJOINING GROUND LEVEL.
CPC 507.5	WHERE A WATER HEATER IS LOCATED IN AN ATTIC, IN OR ON AN ATTIC-CEILING ASSEMBLY, FLOOR-CEILING ASSEMBLY, OR FLOOR-SUBFLOOR ASSEMBLY WHERE DAMAGE RESULTS FROM A LEAKING WATER HEATER, A WATERTIGHT PAN OF CORROSION-RESISTANT MATERIALS SHALL BE INSTALLED BENEATH THE WATER HEATER WITH NOT LESS THAN 3/4 OF AN INCH (20 MM) DIAMETER DRAIN TO AN APPROVED LOCATION. SUCH PAN SHALL BE NOT LESS THAN 1 1/2 INCHES (38 MM) IN DEPTH.
CPC 508.4	AN ATTIC OR UNDER-FLOOR SPACE IN WHICH AN APPLIANCE IS INSTALLED SHALL BE ACCESSIBLE THROUGH AN OPENING AND PASSAGEWAY NOT LESS THAN AS LARGE AS THE LARGEST COMPONENT OF THE APPLIANCE, AND NOT LESS THAN 22 INCHES BY 30 INCHES (559 MM BY 762 MM).
CPC 508.4.1	WHERE THE HEIGHT OF THE PASSAGEWAY IS LESS THAN 6 FEET (1829 MM), THE DISTANCE FROM THE PASSAGEWAY ACCESS TO THE APPLIANCE SHALL NOT EXCEED 20 FEET (6096 MM) MEASURED ALONG THE CENTERLINE OF THE PASSAGEWAY. [NFPA 54-9.5.1.1]
CPC 508.4.2	THE PASSAGEWAY SHALL BE UNOBSTRUCTED AND SHALL HAVE SOLID FLOORING NOT LESS THAN 24 INCHES (610 MM) WIDE FROM THE ENTRANCE OPENING TO THE APPLIANCE. [NFPA 54-9.5.1.2]
CPC 508.4.3	A LEVEL WORKING PLATFORM NOT LESS THAN 30 INCHES BY 30 INCHES (762 MM BY 762 MM) SHALL BE PROVIDED IN FRONT OF THE SERVICE SIDE OF THE APPLIANCE. [NFPA 54-9.5.2]
CPC 508.4.3	A PERMANENT 120-VOLT RECEPTACLE OUTLET AND A LIGHTING FIXTURE SHALL BE INSTALLED NEAR THE APPLIANCE. THE SWITCH CONTROLLING THE LIGHTING FIXTURE SHALL BE LOCATED AT THE ENTRANCE TO THE PASSAGEWAY. [NFPA 54-9.5.3]
CPC 610.3	THE QUANTITY OF WATER REQUIRED TO BE SUPPLIED TO EVERY PLUMBING FIXTURE SHALL BE REPRESENTED BY FIXTURE UNITS, AS SHOWN IN TABLE 610.3. EQUIVALENT FIXTURE VALUES SHOWN IN TABLE 610.3 INCLUDE BOTH HOT AND COLD WATER DEMAND.
CPC 702.1	THE UNIT EQUIVALENT OF PLUMBING FIXTURES SHOWN IN TABLE 702.1 SHALL BE BASED ON THE SIZE OF THE TRAP REQUIRED, AND THE UNIT EQUIVALENT OF FIXTURES AND DEVICES NOT SHOWN IN TABLE 702.1 SHALL BE BASED ON THE SIZE OF TRAP OR TRAP ARM.
CPC 703.2	TABLE 703.2 SHOWS THE MAXIMUM NUMBER OF FIXTURE UNITS ALLOWED ON A VERTICAL OR HORIZONTAL DRAINAGE PIPE, BUILDING DRAIN, OR BUILDING SEWER OF A GIVEN SIZE; THE MAXIMUM NUMBER OF FIXTURE UNITS ALLOWED ON A BRANCH INTERVAL OF A GIVEN SIZE; AND THE MAXIMUM LENGTH (IN FEET AND METERS) OF A VERTICAL DRAINAGE PIPE OF A GIVEN SIZE.
CPC 707.4	EACH HORIZONTAL DRAINAGE PIPE SHALL BE PROVIDED WITH A CLEANOUT AT ITS UPPER TERMINAL, AND EACH RUN OF PIPING THAT IS MORE THAN 100 FEET (30 480 MM) IN TOTAL DEVELOPED LENGTH, SHALL BE PROVIDED WITH A CLEAN OUT FOR EACH 100 FEET (30 480 MM), OR FRACTION THEREOF, IN LENGTH OF SUCH PIPING. AN ADDITIONAL CLEANOUT SHALL BE PROVIDED IN A DRAINAGE LINE FOR EACH AGGREGATE HORIZONTAL CHANGE IN DIRECTION EXCEEDING 135 DEGREES (2.36 RAD). A CLEANOUT SHALL BE INSTALLED ABOVE THE FIXTURE CONNECTION FITTING, SERVING EACH URINAL, REGARDLESS OF THE LOCATION OF THE URINAL IN THE DRAINAGE LINE.
CPC 708.1	HORIZONTAL DRAINAGE PIPING SHALL BE RUN IN PRACTICAL ALIGNMENT AND A UNIFORM SLOPE OF NOT LESS THAN 1/4 INCH PER FOOT (20.8 MM/M) OR 2 PERCENT TOWARD THE POINT OF DISPOSAL PROVIDED THAT, WHERE IT IS IMPRACTICAL DUE TO THE DEPTH OF THE STREET SEWER, TO THE STRUCTURAL FEATURES, OR TO THE ARRANGEMENT OF A BUILDING OR STRUCTURE TO OBTAIN A SLOPE OF 1/4 INCH PER FOOT (20.8 MM/M) OR 2 PERCENT, SUCH PIPE OR PIPING 4 INCHES (100 MM) OR LARGER IN DIAMETER SHALL BE PERMITTED TO HAVE A SLOPE OF NOT LESS THAN 1/8 INCH PER FOOT (10.4 MM/M) OR 1 PERCENT, WHERE FIRST APPROVED BY THE AUTHORITY HAVING JURISDICTION.

CPC REQUIREMENTS CONT.

CPC 901.2	EACH PLUMBING FIXTURE TRAP, EXCEPT AS OTHERWISE PROVIDED IN THIS CODE, SHALL BE PROTECTED AGAINST SIPHONAGE AND BACKPRESSURE, AND AIR CIRCULATION SHALL BE ENSURED THROUGHOUT ALL PARTS OF THE DRAINAGE SYSTEM BY MEANS OF VENT PIPES INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THIS CHAPTER AND AS OTHERWISE REQUIRED BY THIS CODE.
CPC 906.1	EACH VENT PIPE OR STACK SHALL EXTEND THROUGH ITS FLASHING AND SHALL TERMINATE VERTICALLY NOT LESS THAN 6 INCHES (152 MM) ABOVE THE ROOF NOR LESS THAN 1 FOOT (305 MM) FROM A VERTICAL SURFACE.
CPC 906.2	EACH VENT SHALL TERMINATE NOT LESS THAN 10 FEET (3048 MM) FROM, OR NOT LESS THAN 3 FEET (914 MM) ABOVE, AN OPENABLE WINDOW, DOOR, OPENING, AIR INTAKE, OR VENT SHAFT, OR NOT LESS THAN 3 FEET (914 MM) IN EVERY DIRECTION FROM A LOT LINE, ALLEY AND STREET EXCEPTED.
CPC 1001.2	EACH PLUMBING FIXTURE, SHALL BE SEPARATELY TRAPPED BY AN APPROVED TYPE OF LIQUID SEAL TRAP.

CMC REQUIREMENTS

CMC 301.4	EQUIPMENT REGULATED BY THIS CODE REQUIRING ELECTRICAL CONNECTIONS OF MORE THAN 50 VOLTS SHALL HAVE A POSITIVE MEANS OF DISCONNECT ADJACENT TO AND IN SIGHT FROM THE EQUIPMENT SERVED. A 120 VOLT RECEPTACLE SHALL BE LOCATED WITHIN 25 FEET (7620 MM) OF THE EQUIPMENT FOR SERVICE AND MAINTENANCE PURPOSES.
CMC 310.3	CONDENSATE WASTE PIPES FROM AIR-COOLING COILS SHALL BE SIZED IN ACCORDANCE WITH THE EQUIPMENT CAPACITY AS SPECIFIED IN TABLE 310.3.
CMC 311.3	OUTSIDE OR RETURN AIR FOR A HEATING OR COOLING AIR SYSTEM SHALL NOT BE TAKEN FROM THE FOLLOWING LOCATIONS: <ul style="list-style-type: none">LESS THAN 10 FEET (3048 MM) IN DISTANCE FROM AN APPLIANCE VENT OUTLET, A VENT OPENING OF A PLUMBING DRAINAGE SYSTEM, OR THE DISCHARGE OUTLET OF AN EXHAUST FAN, UNLESS THE OUTLET IS 3 FEET (914 MM) ABOVE THE OUTSIDE-AIR INLET.LESS THAN 10 FEET (3048 MM) ABOVE THE SURFACE OF AN ABUTTING PUBLIC WAY, SIDEWALK, STREET, ALLEY, OR DRIVEWAY.A HAZARDOUS OR INSANITARY LOCATION, OR A REFRIGERATION MACHINERY ROOM AS DEFINED IN THIS CODE.AN AREA, THE VOLUME OF WHICH IS LESS THAN 25 PERCENT OF THE ENTIRE VOLUME SERVED BY SUCH SYSTEM, UNLESS THERE IS A PERMANENT OPENING TO AN AREA THE VOLUME OF WHICH IS EQUAL TO 25 PERCENT OF THE ENTIRE VOLUME SERVED.<ol style="list-style-type: none">EXCEPTION: SUCH OPENINGS WHERE USED FOR A HEATING OR COOLING AIR SYSTEM IN A DWELLING UNIT SHALL BE PERMITTED TO BE REDUCED TO NOT LESS THAN 50 PERCENT OF THE REQUIRED AREA, PROVIDED THE BALANCE OF THE REQUIRED RETURN AIR IS TAKEN FROM A ROOM OR HALL HAVING NOT LESS THAN THREE DOORS LEADING TO OTHER ROOMS SERVED BY THE FURNACE.A CLOSET, BATHROOM, TOILET ROOM, OR KITCHEN.ROOMS OR SPACES CONTAINING A FUEL-BURNING APPLIANCE THEREIN. WHERE SUCH ROOM OR SPACE SERVES AS SOURCE OF RETURN-AIR.<ol style="list-style-type: none">EXCEPTIONS: THIS SHALL NOT APPLY TO FIREPLACES, FIREPLACE APPLIANCES, RESIDENTIAL COOKING APPLIANCES, DIRECT-VENT APPLIANCES, ENCLOSED FURNACES, AND DOMESTIC-TYPE CLOTHES DRYERS INSTALLED WITHIN THE ROOM OR SPACE.THIS SHALL NOT APPLY TO A GRAVITY-TYPE OR LISTED VENTED WALL HEATING OR COOLING AIR SYSTEM.THIS SHALL NOT APPLY TO A BLOWER-TYPE HEATING OR COOLING AIR SYSTEM INSTALLED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:<ol style="list-style-type: none">WHERE THE RETURN AIR IS TAKEN FROM A ROOM OR SPACE HAVING A VOLUME EXCEEDING 1 CUBIC FOOT (0.03 M³) FOR EACH 10 BTU/H (0.003 KW) FUEL INPUT RATING OF FUEL-BURNING APPLIANCES THEREIN.NOT LESS THAN 75 PERCENT OF THE SUPPLY AIR IS DISCHARGED BACK INTO THE SAME ROOM OR SPACE.RETURN-AIR INLETS SHALL NOT BE LOCATED WITHIN 10 FEET (3048 MM) FROM AN APPLIANCE FIREBOX OR DRAFT DIVERTER IN THE SAME ENCLOSED ROOM OR CONFINED SPACE.
CMC 311.4	RETURN AIR FROM ONE DWELLING UNIT SHALL NOT DISCHARGE INTO ANOTHER DWELLING UNIT THROUGH THE HEATING OR COOLING AIR SYSTEM.
CMC 314.1	HEATING, VENTILATING, AND AIR-CONDITIONING SYSTEMS (INCLUDING HYDRONIC SYSTEMS) SHALL BE BALANCED IN ACCORDANCE WITH ONE OF THE FOLLOWING METHODS: <ul style="list-style-type: none">AABC NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCEACCA MANUAL BASHRAE IIINEBB PROCEDURAL STANDARDS FOR TESTING ADJUSTING BALANCING OF ENVIRONMENTAL SYSTEMSSMACNA HVAC SYSTEMS TESTING, ADJUSTING, AND BALANCING
CMC 316.10	MECHANICAL SYSTEM SHALL BE CONSTRUCTED IN SUCH A MANNER AS TO RESTRICT RODENTS OR VERMIN FROM ENTERING A BUILDING BY FOLLOWING THE DUCTWORK FROM THE OUTSIDE INTO THE BUILDING.
CMC 402.4	REQUIRED OUTDOOR-AIR INTAKES SHALL BE COVERED WITH A SCREEN HAVING NOT LESS THAN 1/4 OF AN INCH (6.4 MM) OPENINGS, AND SHALL HAVE NOT MORE THAN 1/2 OF AN INCH (12.7 MM) OPENINGS.
CMC 402.1	OCCUPIABLE SPACES LISTED IN TABLE 402.1 SHALL BE DEFENDED TO THE VENTILATION (OUTDOOR) AIR FOR OCCUPANTS IN ACCORDANCE WITH THIS CHAPTER. VENTILATION AIR SUPPLY REQUIREMENT FOR OCCUPANCIES REGULATED BY THE CALIFORNIA ENERGY COMMISSION ARE FOUND IN THE CALIFORNIA ENERGY CODE.
CMC 402.5	EACH BATH ROOM SHALL BE MECHANICALLY VENTILATED IN ACCORDANCE WITH DIVISION 4.5 OF THE CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN).
CMC 403.7	EXHAUST AIRFLOW SHALL BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS IN TABLE 403.7. EXHAUST MAKEUP AIR SHALL BE PERMITTED TO BE A COMBINATION OF OUTDOOR AIR, RECIRCULATED AIR, AND TRANSFER AIR.
CMC 502.2.1	ENVIRONMENTAL AIR DUCT SHALL TERMINATE NOT LESS THAN 3 FEET (914 MM) FROM A PROPERTY LINE, 10 FEET (3048 MM) FROM A FORCED AIR INLET, AND 10 FEET (914 MM) FROM OPENINGS INTO THE BUILDING. ENVIRONMENTAL EXHAUST DUCTS SHALL NOT DISCHARGE ONTO A PUBLIC WALKWAY.
CMC 504.3	DUCTS USED FOR DOMESTIC KITCHEN RANGE VENTILATION SHALL BE OF METAL AND SHALL HAVE SMOOTH INTERIOR SURFACES.
CMC 504.4	A CLOTHES DRYER EXHAUST DUCT SHALL NOT BE CONNECTED TO A VENT CONNECTOR, GAS VENT, CHIMNEY, AND SHALL NOT TERMINATE INTO A CRAWL SPACE, ATTIC, OR OTHER CONCEALED SPACE. EXHAUST DUCTS SHALL NOT BE ASSEMBLED WITH SCREWS OR OTHER FASTENING METHODS THAT EXTEND INTO THE DUCT AND THAT ARE CAPABLE OF CATCHING UNITS, AND THAT REDUCE THE EFFICIENCY OF THE EXHAUST SYSTEM. EXHAUST DUCTS SHALL BE CONSTRUCTED OF RIGID METALLIC MATERIAL. TRANSITION DUCTS USED TO CONNECT THE DRYER TO THE EXHAUST DUCT SHALL BE LISTED FOR THAT APPLICATION OR INSTALLED IN ACCORDANCE WITH THE CLOTHES DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CLOTHES DRYER EXHAUST DUCTS SHALL TERMINATE TO THE OUTSIDE OF THE BUILDING IN ACCORDANCE WITH SECTION 502.2.1 AND SHALL BE EQUIPPED WITH A BACKDRAFT DAMPER. SCREENS SHALL NOT BE INSTALLED AT THE DUCT TERMINATION. DEVICES, SUCH AS FIRE OR SMOKE DAMPERS, THAT WILL OBSTRUCT THE FLOW OF THE EXHAUST SHALL NOT BE USED. WHERE JOINING OF DUCTS, THE MALE END SHALL BE INSERTED IN THE DIRECTION OF AIRFLOW.
CMC 504.4.1	TYPE 1 CLOTHES DRYER EXHAUST DUCTS SHALL BE OF RIGID METAL AND SHALL HAVE SMOOTH INTERIOR SURFACES. THE DIAMETER SHALL BE NOT LESS THAN 4 INCHES NOMINAL (100 MM) AND THE THICKNESS SHALL BE NOT LESS THAN 0.016 OF AN INCH (0.406 MM).
CMC 504.4.2.1	UNLESS OTHERWISE PERMITTED OR REQUIRED BY THE DRYER MANUFACTURER'S INSTRUCTIONS AND APPROVED BY THE AUTHORITY HAVING JURISDICTION, DOMESTIC DRYER MOISTURE EXHAUST DUCTS SHALL NOT EXCEED A TOTAL COMBINED HORIZONTAL AND VERTICAL LENGTH OF 14 FEET (4267 MM), INCLUDING TWO 90 DEGREE (1.57 RAD) ELBOWS. A LENGTH OF 2 FEET (610 MM) SHALL BE DEDUCTED FOR EACH 90 DEGREE (1.57 RAD) ELBOW IN EXCESS OF TWO.
CMC 504.4.2.2	LISTED CLOTHES DRYER TRANSITION DUCTS NOT MORE THAN 6 FEET (1829 MM) IN LENGTH SHALL BE PERMITTED TO BE USED TO CONNECT THE TYPE 1 DRYER TO THE EXHAUST DUCTS. TRANSITION DUCTS AND FLEXIBLE CLOTHES DRYER TRANSITION DUCTS SHALL NOT BE CONCEALED WITHIN CONSTRUCTION, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
CMC 506.2	EXHAUST DUCTS CONSTRUCTED OF STEEL SHALL COMPLY WITH TABLE 506.2(1) OR TABLE 506.2(2).
CMC 506.5	SUPPORTS SHALL BE OF NONCOMBUSTIBLE MATERIALS AND THE SPACING SHALL NOT EXCEED 12 FEET (3658 MM) FOR 8 INCH (203 MM) DUCTS AND 20 FEET (6096 MM) FOR LARGER DUCTS.
CMC 1105.112	REFRIGERANT SERVICE PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING-TYPE TAMPER RESISTANT CAPS



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PROJECT



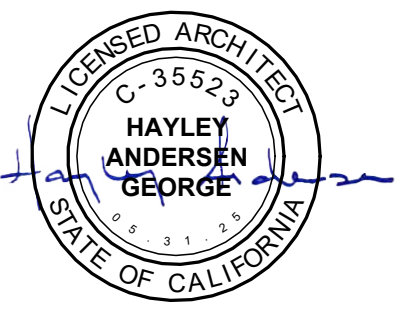
SHASTA COUNTY PRE-APPROVED
ADUS

ADU 2 - CASTELLA MODERN

REVISIONS

DATE	DESCRIPTION

LICENSE STAMP



CONSULTANT

AGENCY APPROVAL

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STIPULATION FOR REUSE
THIS DRAWING WAS PREPARED IN CONTRACT WITH SHASTA COUNTY FOR DISTRIBUTION AND USE BY THE RESIDENTS OF SHASTA COUNTY WITH A SNOW LOAD OF 70 PSF OR LESS. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON PROJECTS OUTSIDE OF SHASTA COUNTY AND WITHOUT THE PERMISSION OF THE SHASTA COUNTY BUILDING DEPARTMENT IS NOT AUTHORIZED AND IS CONTRARY TO THE LAW.

PROJ ARCH : HIMA
SET ISSUE DATE: 8/7/2023

CODE ANALYSIS - CEC, CPC & CMC

G4.1

CGBC REQUIREMENTS

STORM WATER MANAGEMENT: CGBC SEC. 4.106.2

UTILIZE 'BMP' - PROJECTS THAT DISTURB LESS THAN ONE ACRE OF SOIL SHALL MANAGER STORM WATER IN ONE OF THE FOLLOWING MEASURES TO PREVENT FLOODING OF ADJACENT PROPERTY, PREVENT EROSION AND RETAIN SOIL RUN-OFF ON THE SITE:

1. RETENTION BASINS OF SUFFICIENT SIZE SHALL BE UTILIZED TO RETAIN STORM WATER ON SITE.
2. 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.
3. COMPLIANCE WITH A LAWFULLY ENACTED STORM WATER MANAGEMENT PLAN.

ELECTRIC VEHICAL (EV) CHARGING NEW ONE AND TWO FAMILY DWELLINGS AND TOWNHOUSES WITH ATTACHED PRIVATE GARAGES CGBC 4.106.4.1
 FOR EACH DWELLING UNIT, INSTALL A LISTED RACEWAY TO ACCOMMODATE A DEDICATED 208/240 VOLT BRANCH CIRCUIT. THE RACEWAY SHALL NOT BE LESS THAN TRADE SIZE 1 (NOMINAL 1 INCH INSIDE DIAMETER). THE RACEWAY SHALL ORIGINATE AT THE MAIN SERVICE OR SUBPANEL AND SHALL TERMINATE INTO A LISTED CABINET, BOX OR OTHER ENCLOSURE IN CLOSE PROXIMITY TO THE PROPOSED LOCATION OF AN EV CHARGER. RACEWAYS ARE REQUIRED TO BE CONTINUOUS AT ENCLOSED, INACCESSIBLE OR CONCEALED AREAS AND SPACES. THE SERVICE PANEL AND OR SUBPANEL SHALL PROVIDE CAPACITY TO INSTALL A 40-AMPERE MINIMUM DEDICATED BRANCH CIRCUIT AND SPACE(S) RESERVED TO PERMIT INSTALLATION OF BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE.

IDENTIFICATION CGBC 4.106.1.1

THE SERVICE PANEL OR SUBPANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVERCURRENT PROTECTIVE DEVICE SPACE(S) RESERVED FOR FUTURE EV CHARGING AS 'EV CAPABLE'. THE RACEWAY TERMINATION LOCATION SHALL BE PERMANENTLY AND VISIBLY MARKED AS 'EV CAPABLE'.

INDOOR WATER CONSERVING PLUMBING FIXTURES AND FITTINGS CGBC 4.303.1

1. WATER CLOSETS - THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH - 4.303.1.1
2. URINALS - THE EFFECTIVE FLUSH VOLUME OF WALL MOUNTED URINALS SHALL NOT EXCEED 0.125 GALLONS PER FLUSH - 4.303.1.2
3. SINGLE SHOWER HEAD - SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 80 PSI. - 4.303.1.3
4. THE COMBINED FLOW RATE OF MULTIPLE SHOWER HEADS IN ONE SHOWER SHALL NOT EXCEED 1.8 GPM @ 80 PSI OR THE SHOWER SHALL BE DESIGNED TO ALLOW OPERATION OF ONLY ONE SHOWER HEAD AT A TIME - 4.303.1.3.2
5. FAUCETS - THE MAX. FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT EXCEED 1.2 GALLONS PER MINUTE AT 60 PSI. THE MINIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT BE LESS THAN 0.8 GALLONS PER MINUTE AT 20 PSI.
6. KITCHEN FAUCETS - THE MAX. FLOW RATE OF KITCHEN FAUCETS SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 60 PSI.

OUTDOOR WATER USE CGBC 4.304

OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. RESIDENTIAL DEVELOPMENTS SHALL COMPLY WITH A LOCAL WATER EFFICIENT LANDSCAPE ORDINANCE OR THE CURRENT CALIFORNIA DEPARTMENT OF WATER RESOURCES' MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO), WHICHEVER IS MORE STRINGENT.

ENHANCED DURABILITY AND REDUCED MAINTAINANCE - RODENT PROOFING CGBC 4.406.1

ANNULAR SPACES AROUND PIPES, ELECT. CABLES, CONDUITS OR OTHER OPENINGS IN PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONC. MASONRY OR SIM. METHOD ACCEPTABLE TO THE ENFORCING AGENCY.

CONSTRUCTION WASTE MANAGEMENT CGBC 4.408.1

RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65 PERCENT OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH EITHER SECTION 4.408.2, 4.408.3 OR 4.408.4, OR MEET A MORE STRINGENT LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE.

CONSTRUCTION WASTE MANAGEMENT PLAN CGBC 4.408.2

SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN IN CONFORMANCE WITH ITEMS 1 THRU 5. THE CONSTRUCTION WASTE MANAGEMENT PLAN SHALL BE UPDATED AS NECESSARY AND SHALL BE AVAILABLE DURING CONSTRUCTION FOR EXAMINATION BY THE ENFORCING AGENCY.

1. IDENTIFY THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL BY RECYCLING , REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE.
2. SPECIFY IF CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE SORTED ON SITE (SOURCE SEPARATED) OR BULK MIXED (SINGLE STREAM).
3. IDENTIFY DIVERSION FACILITIES WHERE THE CONSTRUCTION AND DEMOLITION WASTE MATERIAL WILL BE TAKEN.
4. IDENTIFY CONSTRUCTION METHODS EMPLOYED TO REDUCE THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE GENERATED.
5. SPECIFY THAT THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE MATERIALS DIVERTED SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BY BOTH.

WASTE MANAGEMENT COMPANY CGBC 4.408.3

UTILIZE A WASTE MANAGEMENT COMPANY, APPROVED BY THE ENFORCING AGENCY, WHICH CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERCENTAGE OF CONSTRUCTION AND DEMOLITION WASTE MATERIAL DIVERTED FROM THE LANDFILL COMPLIES WITH SECTION 4.408.1

BUILDING MAINTENANCE AND OPERATION - OPERATION AND MAINTENANCE MANUAL CGBC 4.410.1

AT THE TIME OF FINAL INSPECTION, A MANUAL, COMPACT DISK, WEB BASED REFERENCE OR OTHER MEDIA ACCEPTABLE TO THE ENFORCING AGENCY WHICH INCLUDES ALL OF THE FOLLOWING SHALL BE PLACED IN THE BUILDING:

1. DIRECTIONS TO THE OWNER OR OCCUPANT THAT THE MANUAL WILL REMAIN WITH THE BUILDING THROUGHOUT THE LIFE CYCLE OF THE STRUCTURE.
2. OPERATION AND MAINTENANCE INSTRUCTIONS FOR THE FOLLOWING:
 - a. EQUIPMENT AND APPLIANCES, INCLUDING WATER SAVING DEVICES AND SYSTEMS, HVAC SYSTEMS, PHOTOVOLTAIC SYSTEMS, ELECTRIC VEHICLE CHARGINGS, WATER HEATING SYSTEMS AND OTHER MAJOR APPLIANCES AND EQUIPMENT.
 - b. ROOF AND YARD DRAINAGE, INCLUDING GUTTERS AND DOWNSPOUTS.
 - c. SPACE CONDITIONING SYSTEMS, INCLUDING CONDENSERS AND AIR FILTERS.
 - d. LANDSCAPE IRRIGATION SYSTEMS.
 - e. WATER REUSE SYSTEMS.
3. INFORMATION FROM LOCAL UTILITY, WATER AND WASTE RECOVERY PROVIDERS ON METHODS TO FURTHER REDUCE RESOURCE CONSUMPTION, INCLUDING RECYCLE PROGRAMS AND LOCATIONS.
4. PUBLIC TRANSPORTATION AND/OR CARPOOL OPTIONS AVAILABLE IN THE AREA.
5. EDUCATIONAL MATERIAL ON THE POSITIVE IMPACTS OF AN INTERIOR RELATIVE HUMIDITY BETWEEN 30-60 PERCENT AND WHAT METHODS AN OCCUPANT MAY USE TO MAINTAIN THE RELATIVE HUMIDITY LEVEL IN THAT RANGE.
6. INFORMATION ABOUT WATER CONSERVING LANDSCAPE AND IRRIGATION DESIGN AND CONTROLLERS WHICH CONSERVE WATER.
7. INSTRUCTIONS FOR MAINTAINING GUTTERS AND DOWNSPOUTS AND THE IMPORTANCE OF DIVERTING WATER AT LEAST 5 FEET AWAY FROM THE FOUNDATION.
8. INFORMATION ON REQUIRED MAINTAINANCE MEASURES, INCLUDING BUT NOT LIMITED TO, CAULKING, PAINTING, GRADING AROUND THE BUILDING, ECT.
9. INFORMATION ABOUT SOLAR ENERGY AND INCENTIVE PROGRAMS AVAILABLE.
10. A COPY OF ALL SPECIAL INSPECTION VERIFICATIONS REQUIRED BY THE ENFORCING AGENCY OR THIS CODE.

FIREPLACES - GENERAL CGBC 4.503

ANY INSTALLED GAS FIREPLACE SHALL BE DIRECT VENT SEALED COMBUSTION TYPE. ANY INSTALLED WOOD STOVE SHALL COMPLY WITH U.S. EPA NEW SOURCE PERFORMANCE STANDARDS (NSPS) EMISSION LIMITS AS APPLICABLE, AND SHALL HAVE PERMANENT LABEL INDICATING THEY ARE CERTIFIED TO MEET THE EMISSION LIMITS. WOODSTOVES, PELLET STOVES AND FIREPLACES SHALL ALSO COMPLY WITH APPLICABLE LOCAL ORDINANCES.

POLLUTANT CONTROL:

COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION CGBC 4.504.1

AT THE TIME OF ROUGH INSTALLATION, DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATION EQUIPMENT, ALL DUCTS 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 AND DEBRIS, WHICH MAY ENTER THE SYSTEM.

CGBC REQUIREMENTS

FINISH MATERIAL POLLUTANT CONTROL CGBC 4.504.2

ADHESIVES, SEALANTS AND CAULKS CGBC 4.404.2.1

ADHESIVES, SEALANTS 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:

1. ADHESIVES, ADHESIVE BONDING PRIMERS, SEALANTS, SELANT 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 RULE 1168 PROHIBITION ON THE USE OF CERTAIN TOXIC COMPOUNDS (CHLOROFORM, ETHYLENE, DICHLORIDE, METHYLEN, CHLORIDE, PERCHLOROETHYLENE AND TRICHLOROETHYLENE), EXCEPT FOR AEROSOL PRODUCTS, AS SPECIFIED IN SUBSECTION 2 BELOW
2. AEROSOL ADHESIVES, AND SMALLER UNIT SIZES OF ADHESIVES, AND SEALANT OR CAULKING COMPOUNDS (IN UNITS OF PRODUCT, LESS PACKING, 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, OR CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94507.

PAINTS AND COATINGS CGBC 4.504.2.2

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 CATEGORY LISTED IN TABLE 4.504.3 SHALL BE DETERMINED BY CLASSIFYING THE COATING AS FLAT, NONFLAT OR NONFLAT-HIGH GLOSS COATING, BASED ON ITS GLOSS, AS DEFINED IN SUB-SECTIONS 4.21, 4.36, AND 4.37 OF THE 2007 CALIFORNIA AIR RESOURCES BOARD, SUGGESTED CONTROL MEASURES, AND CORRESPONDING FLAT, NONFLAT OR NONFLAT-HIGH GLOSS VOC LIMIT IN TABLE 4.504.3 SHALL APPLY.

AEROSOL PAINTS AND COATINGS CGBC 4.504.2.3

AEROSOL PAINTS AND COATINGS SHALL MEET THE PRODUCT-WEIGHED 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(a)(1) OF THE CALIFORNIA CODE OF REGULATIONS, 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.

VERIFICATION CGBC 4.504.2.4

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:

1. MANUFACTURES POLLUTION SPECIFICATION.
2. FIELD VERIFICATION OF ON-SITE PRODUCT CONTAINERS.

CARPET SYSTEMS CGBC 4.504.3

ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE TESTING AND PRODUCT REQUIREMENTS OF ONE OF THE FOLLOWING:

1. CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM.
2. CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS, VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350)
3. NSF/ANSI 140 AT THE GOLD LEVEL.
4. SCIENTIFIC CERTIFICATIONS SYSTEMS INDOOR ADVANTAGE GOLD.

CARPET CUSHIONS CGBC 4.504.3.1

ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CARPET AND RUG INSTITUTE'S GREEN LABEL PROGRAM.

CARPET ADHESIVE CGBC 4.504.3.2

ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE 4.504.1.

RESILIENT FLOORING SYSTEMS CGBC 4.504.4

WHERE RESILIENT FLOORING IS INSTALLED, AT LEAST 80 PERCENT OF FLOOR AREA RECEIVING RESILIENT FLOORING SHALL COMPLY WITH ONE OR MORE OF THE FOLLOWING:

1. PRODUCTS COMPLIANT WITH 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 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350), CERTIFIED AS CHPS LOW EMITTING MATERIAL IN THE COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CHPS) HIGH PERFORMANCE PRODUCTS DATABASE.
2. PRODUCTS CERTIFIED UNDER UL GREENGUARD GOLD (FORMERLY THE GREENGUARD CHILDREN AND SCHOOLS PROGRAM).
3. CERTIFICATION UNDER THE RESILIENT FLOOR COVERING INSTITUTE (RFCI) FLOORSCORE PROGRAM.
4. MEET THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, STANDARD METHOD OF TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS, VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350)

COMPOSITE WOOD PRODUCTS CGBC 4.504.5

HARDWOOD PLYWOOD, PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN ARB'S AIR TOXIC CONTROL MEASURE FOR COMPOSITE WOOD (17-CCR 93120 ET SEQ) BY OR BEFORE THE DATES SPECIFIED IN THOSE SECTIONS IN TABLE 4.504.5.

DOCUMENTATION CGBC 4.504.5.1

VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AS REQUESTED BY THE ENFORCING AGENCY. DOCUMENTATION SHALL INCLUDE AT LEAST ONE OF THE FOLLOWING:

1. PRODUCT CERTIFICATIONS AND SPECIFICATIONS.
2. CHAIN OF CUSTODY CERTIFICATIONS.
3. PRODUCT LABELED AND INVOICED AS MEETING THE COMPOSITE WOOD PRODUCTS REGULATION (SEE CCR TITLE 17, SECTION 93120, ET SEQ.)
4. EXTERIOR GRADE PRODUCTS MARKED AS MEETING THE P5-1 OR P5-2 STANDARDS OF THE ENGINEERED WOOD ASSOCIATION, THE AUSTRALIAN AS/NZS 2269, EUROPEAN 636 35, AND CANADIAN CSA O121, CSA O151, CSA O153 AND CSA O325 STANDARDS.
5. OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY.

TABLE 4.504.5

FORMALDEHYDE LIMITS
 MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSIT CORE	0.05
PARTICLEBOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD	0.13

CGBC REQUIREMENTS

FINISH MATERIAL

INTERIOR MOISTURE CONTROL CGBC 4.505

CONCRETE SLAB FOUNDATIONS CGBC 4.505.2 CAPILLARY BREAK CGBC 4.505.2.1

A CAPILLARY BREAK SHALL BE INSTALLED IN COMPLIANCE WITH AT LEAST ONE OF THE FOLLOWING:

1. A 4 INCH THICK (101.6 MM) BASE OF 1/2" (12.7 MM) OR LARGER CLEAN AGGREGATE SHALL BE PROVIDED WITH A VAPOR RETARDER 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.
2. OTHER EQUIVALENT METHODS APPROVED BY THE ENFORCING AGENCY.
3. A SLAB DESIGN SPECIFIED BY A LICENSED DESIGN PROFESSIONAL.

MOISTURE CONTENT OF BUILDING MATERIALS CGBC 4.505.3

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:

1. MOISTURE CONTENT SHALL BE DETERMINED WITH EITHER A PROBE-TYPE OR CONTENT-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 (CGBC)
2. MOISTURE READINGS SHALL BE TAKEN AT A POINT 2 FEET TO 4 FEET FROM GRADE STAMPED END OF EACH PIECE TO BE VERIFIED.
3. AT LEAST 3 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 THAT ARE VISIBLY WET OR HAVE 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 MANUFACTURES DRYING RECOMMENDATIONS PRIOR TO ENCLOSURE.

INDOOR AIR QUALITY AND EXHAUST CGBC 4.506

BATHROOM EXHAUST FANS 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 PERCENT TO A MAXIMUM OF 80 PERCENT. A HUMIDITY CONTROL MAY UTILIZE MANUAL OR AUTOMATIC MEANS OF ADJUSTMENT.
 - b. A HUMIDITY CONTROL MAY BE A SEPARATE COMPONENT TO THE EXHAUST FAN AND IS NOT REQUIRED TO BE INTEGRAL (BUILT-IN).

NOTES:

1. FOR THE PURPOSE OF THIS SECTION, A BATHROOM IS A ROOM WHICH CONTAINS BATHTUB, SHOWER, OR TUB / SHOWER COMBINATION.
2. LIGHTING INTEGRAL TO BATHROOM EXHAUST FANS SHALL COMPLY WITH THE CALIFORNIA ENERGY CODE.

ENVIRONMENTAL COMFORT CGBC 4.507

HEATING AND AIR CONDITION SYSTEM DESIGN CGBC 4.507.2

HEATING AND AIR CONDITIONING SYSTEMS SHALL BE SIZED, DESIGNED AND HAVE THEIR EQUIPMENT SELECTED USING THE FOLLOWING METHODS:

1. THE HEAT LOSS AND HEAT GAIN IS ESTABLISHED ACCORDING TO ANSI/ACCA 2 MANUAL J - 2011 (RESIDENTIAL LOAD CALCULATION), ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
2. DUCT SYSTEMS ARE SIZED ACCORDING TO ANSI/ACCA 1 MANUAL D - 2014 (RESIDENTIAL DUCT SYSTEMS), ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
3. SELECT HEATING AND COOLING EQUIPMENT ACCORDING TO ANSI/ACCA 3 MANUAL S - 2011 (RESIDENTIAL EQUIPMENT SELECTION) OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.

EXCEPTION: USE OF ALTERNATE DESIGN TEMPERATURES NECESSARY TO ENSURE THE SYSTEMS FUNCTION ARE ACCEPTABLE.



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PROJECT



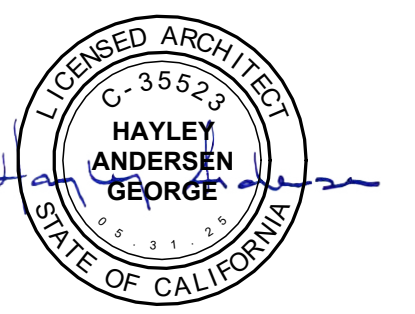
SHASTA COUNTY PRE-APPROVED ADUS

ADU 2 - CASTELLA MODERN

REVISIONS

DATE	DESCRIPTION

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STIPULATION FOR REUSE

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PROJ ARCH : HMA
 SET ISSUE DATE: 8/7/2023

CODE ANALYSIS - CGBC

G5.1

NOT FOR CONSTRUCTION

OPTION 1

WUI COMPLIANT FIBER CEMENT LAP SIDING (HARDIE OR EQUAL)
 COLOR BY OWNER



OPTION 2

CEMENT PLASTER FINISH - COLOR TO BE SELECTED BY OWNER
 1-COAT WUI-COMPLIANT CEMENT PLASTER SYSTEM (STO POWERWALL OR EQUAL) O/ RIGID INSULATION
 COLOR BY OWNER



OPTION 3

WUI COMPLIANT FIBER CEMENT PANELING (HARDIE OR EQUAL)
 COLOR BY OWNER



Plot Date: 8/17/2023 10:19:24 AM
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PROJECT



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 ADUS

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PROJ ARCH : HMA
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DESIGN OPTIONS

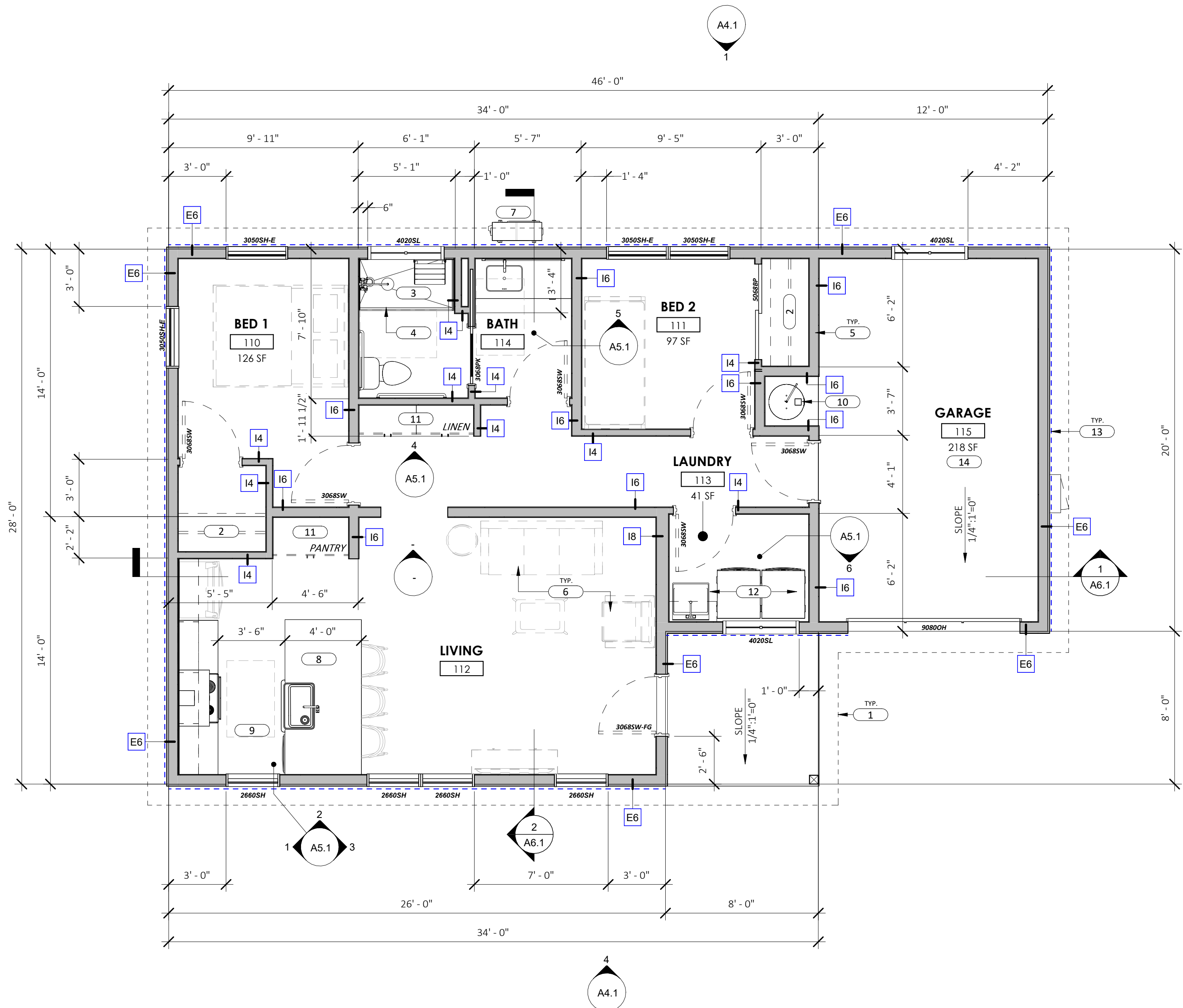
A1.1

NOT FOR CONSTRUCTION

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1 FLOOR PLAN

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



SHEET NOTES

- A. EGRESS WINDOWS TO BE 20" WIDE MIN., 24" HIGH MIN., 5.7 SQ FT MIN., AND 44" MAX. BETWEEN FINISH FLOOR AND FINISHED SILL HEIGHT.
- B. COORDINATE ALL FURNITURE, EQUIPMENT, CASEWORK LAYOUTS AND DESIGN W/ OWNER.
- C. RE: G2.1, G3.1, G4.1 AND G5.1 FOR ADDITIONAL APPLICABLE CODES
- D. RE: A7.1 AND A8.1 FOR WINDOW AND DOOR DETAILS
- E. EXTERIOR WINDOWS AND EXTERIOR DOOR ASSEMBLIES SHALL COMPLY WITH ONE OF THE FOLLOWING REQUIREMENTS:
 - A. BE CONSTRUCTED OF MULTI-PANE GLAZING WITH A MINIMUM OF ONE TEMPERED PANE MEETING THE REQUIREMENTS OF SECTION R308 SAFETY GLAZING, OR
 - B. BE CONSTRUCTED OF GLASS BLOCK, OR
 - C. HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED ACCORDING TO NFPA 257, OR
 - D. BE TESTED TO MEET THE PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-2
- F. EXTERIOR DOORS SHALL COMPLY WITH ONE OF THE FOLLOWING:
 - A. THE EXTERIOR SURFACE OR CLADDING SHALL BE OF NON-COMBUSTIBLE OR
 - B. THE EXTERIOR SURFACE OR CLADDING SHALL BE OF IGNITION-RESISTANCE MATERIAL, OR
 - C. THE EXTERIOR DOOR SHALL BE CONSTRUCTED OF SOLID CORE WOOD THAT COMPLY WITH THE FOLLOWING REQUIREMENTS:
 - STILES AND RAILS SHALL BE NOT LESS THAN 1 3/8" THICK.
 - PANELS SHALL NOT BE LESS THAN 1 1/4" THICK, EXCEPT FOR THE EXTERIOR PERIMETER OF THE RAISED PANEL THAT MAY TAPER TO A TONGUE NOT LESS THAN 3/8" THICK.
 - D. THE EXTERIOR DOOR SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED ACCORDING TO NFPA 252.
 - E. THE EXTERIOR SURFACE OR CLADDING SHALL BE TESTED TO MEET THE PERFORMANCE REQUIREMENTS OF ASTM E2707.
 - F. THE EXTERIOR SURFACE OR CLADDING SHALL BE TESTED TO MEET THE PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-1
- G. EXTERIOR GARAGE DOORS SHALL BE PROVIDED WITH WEATHER STRIPPING TO RESIST THE INTRUSION OF EMBERS FROM ENTERING THROUGH GAPS BETWEEN DOORS AND DOOR OPENINGS WHEN VISIBLE GAPS EXCEED 1/8". WEATHER STRIPPING OR SEALS SHALL BE INSTALLED ON THE BOTTOM, SIDES AND TOPS OF DOORS TO REDUCE GAPS BETWEEN DOORS AND DOOR OPENINGS TO 1/8" OR LESS.
- H. PROVIDE RESIDENTIAL SPRINKLER SYSTEM WHERE (E) MAIN RESIDENCE IS EQUIPPED.
- I. FOR BATHROOM EXHAUST FANS, PROVIDE 50 CFM MIN AND 3 SONES MAXIMUM, WITH A 6" DUCT VENTED DIRECTLY THROUGH THE ROOF. SEE LIGHTING PLAN FOR LOCATION
- J. FOR THE KITCHEN EXHAUST HOOD, PROVIDE 100 CFM MINIMUM AND 3 SONES MAXIMUM, WITH 6" DUCT VENTED DIRECTLY THROUGH THE ROOF.
- K. A SHOWER COMPARTMENT SHALL HAVE A MINIMUM OF 6'-8" CEILING HEIGHT, SHALL HAVE A MINIMUM FINISHED INTERIOR OF 1024 SQUARE INCHES, AND SHALL ALSO BE CAPABLE OF ENCOMPASSING A 30" CIRCLE. [CPC 408.6]

KEYNOTES

NOTE: NOT ALL KEYNOTES MAY BE USED

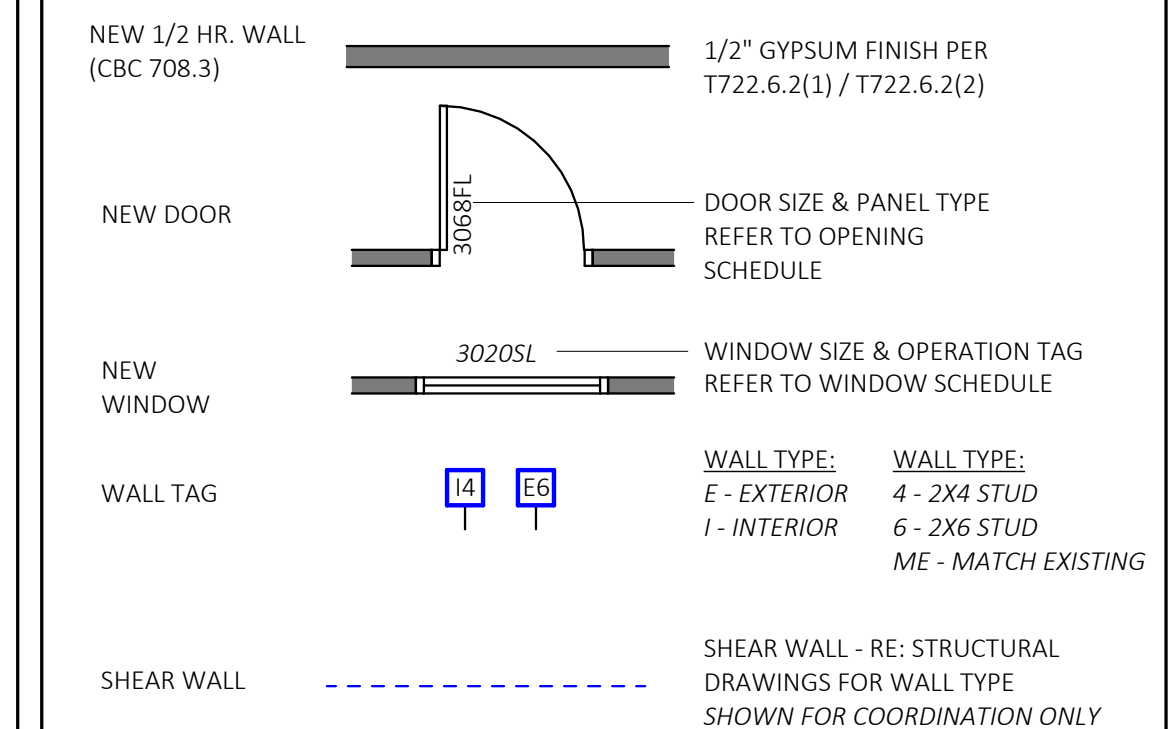
1. LINE OF ROOF OVERHANG ABOVE
2. CLOSET STORAGE VERIFY LAYOUT AND DESIGN W/ OWNER.
3. VERIFY SHOWER HEAD LOCATION W/ OWNER. INSTALL BLOCKING IN ALL WALLS FOR FUTURE GRAB BARS AND SHOWER SEAT INSTALLATION (SEE AGING IN PLACE NOTES)
4. RECESSED SLAB FOR ROLL-IN SHOWER - OWNER OPTION BETWEEN SHOWER AND TUB, CONTRACTOR TO VERIFY REQ'D DIMENSIONS
5. INSTALL ONE LAYER OF 1/2" GYP. BD. TO BOTH SIDES OF WALL FULL HEIGHT OF FRAMING AND WRAP TO CEILING PER CRC R302.6
6. FURNITURE PROVIDED BY OWNER
7. MECHANICAL UNIT, RE: ENERGY DOCUMENTS
8. KITCHEN ISLAND / PENINSULA
9. 30"x42" CLEAR SPACE FOR REFERENCE
10. HYBRID ELECTRIC TANK WATER HEATER - RE: ENERGY DOCUMENTS
11. BUILT-IN STORAGE CASEWORK
12. UTILITY CASEWORK AS SELECTED BY OWNER - VERIFY HEIGHT CLEARANCES AND TYPES WITH EQUIPMENT TO BE INSTALLED
13. SHEAR WALL - TYPICAL WHERE BLUE DASHED LINE SHOWN - RE: STRUCTURAL DRAWINGS FOR WALL TYPE, MAY VARY BY SNOW LOAD
14. SLOPE GARAGE FLOOR TO OPENING, 1/4":1'-0"

AGING IN PLACE NOTES

SEE 2022 CRC SECTION R327 FOR FULL REQUIREMENTS

- A. PROVIDE REINFORCEMENT OF NO LESS THAN 2X8 LUMBER BETWEEN 32" AND 39-1/4" ABOVE FINISHED FLOOR AT THE FOLLOWING LOCATIONS:
 - a. WATER CLOSET - AT EITHER BOTH SIDE WALLS, OR A SIDE WALL AND AN BACK WALL
 - b. SHOWER - CONTINUOUS ABOVE HEIGHTS
 - c. BATHTUB (OR TUB/SHOWER) - CONTINUOUS AT EACH END OF TUB AND AT THE BACK WALL
- B. RECORDS / DOCUMENTATION OF AREAS OF REINFORCEMENT SHALL BE MAINTAINED
- C. ALL NON-DEDICATED ELECTRICAL RECEPTACLES, SWITCHES, DOORBELLS AND CONTROLS SHALL BE LOCATED NO MORE THAN 48" TO TOP OF OUTLET BOX AND NOT LESS THAN 12" FROM BOTTOM OF OUTLET BOX A.F.F.
- D. AT LEAST ONE BATHROOM AND (1) BEDROOM ON ENTRY LEVEL (OR SECOND LEVEL WHERE PERMITTED ON ENTRY LEVEL) SHALL PROVIDE A DOORWAY WITH A NET CLEAR OPENING OF NOT LESS THAN 32"

LEGEND



DOOR AND FRAME SCHEDULE - ADU 2

MARK	QTY	DOOR PANEL					DOOR FRAME					NOTES
		TYPE	MATERIAL	FINISH	PAIR	NOMINAL DIMENSIONS (W x H)	GLASS	TYPE	MATERIAL	FINISH		
3068PK	1	FLUSH	WD	PT	-	3'-0" x 6'-8"	-	POCKET	WD	PT		
3068SW	6	FLUSH	WD	PT	-	3'-0" x 6'-8"	-	SWING	WD	PT		SOLID CORE AT GARAGE
3068SW-FG	1	FULL GLASS	OO	FF	-	3'-0" x 6'-8"	TEMP	SWING	OO	FF		SOLID CORE
5068BP	1	FLUSH	WD	PT	YES	5'-0" x 8'-0"	-	BI-PASS	WD	PT		
9080OH	1	OO	OO	FF	-	9'-0" x 7'-0"	TEMP	OVERHEAD	OO	FF		

WINDOW SCHEDULE - ADU 2

#	QTY.	WIDTH	HEIGHT	SILL HEIGHT	USED FOR EGRESS?	EGRESS AREA	TYPE	GLAZING TYPE	REMARKS
2660SH	4	2'-6"	5'-0"	1'-6"			SINGLE-HUNG	TEMP	
3050SH-E	4	2'-11"	5'-0"	1'-0"	Yes	7 SF	SINGLE-HUNG	TEMP	
4020SL	3	4'-0"	2'-0"	4'-6"			SLIDER	TEMP	SAFETY GLAZING @ SHOWER/TUB

ABBREVIATIONS

3040	3'-0" WIDE BY 4'-0" HIGH	PC	PICTURE WINDOW
AW	AWNING WINDOW	PK	POCKET DOOR
BP	BI-PASS DOOR	PT	PAINT
DH	DOUBLE-HUNG	SC	SOLID CORE
(E)	EXISTING	SH	SINGLE-HUNG
FF	FACTORY FINISH	SL	SLIDER / SLIDING
FG	FULL GLASS	SW	SWING
FL	FLUSH PANEL	TBD	TO BE DETERMINED
HL	HALF LITE	TEMP	TEMPERED GLAZING
HM	HOLLOW METAL	WD	WOOD
MTL	METAL		
OO	OWNER OPTION		



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PROJECT



SHASTA COUNTY PRE-APPROVED
ADUS

ADU 2 - CASTELLA MODERN

REVISIONS

DATE	DESCRIPTION
8/29/23	A SC Remarks

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PROJ ARCH: HMA
 SET ISSUE DATE: 8/7/2023

FLOOR PLAN

A2.1



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PROJ ARCH: HMA SET ISSUE DATE: 8/7/2023

FLOOR PLAN - MIRRORED

A2.1M

SHEET NOTES

- A. EGRESS WINDOWS TO BE 20" WIDE MIN., 24" HIGH MIN., 5.7 SQ FT MIN., AND 44" MAX. BETWEEN FINISH FLOOR AND FINISHED SILL HEIGHT.
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 - B. BE CONSTRUCTED OF GLASS BLOCK, OR
 - C. HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED ACCORDING TO NFPA 257, OR
 - D. BE TESTED TO MEET THE PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-2
- F. EXTERIOR DOORS SHALL COMPLY WITH ONE OF THE FOLLOWING:
 - A. THE EXTERIOR SURFACE OR CLADDING SHALL BE OF NON-COMBUSTIBLE OR
 - B. THE EXTERIOR SURFACE OR CLADDING SHALL BE OF IGNITION-RESISTANCE MATERIAL, OR
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 - PANELS SHALL NOT BE LESS THAN 1 1/4" THICK, EXCEPT FOR THE EXTERIOR PERIMETER OF THE RAISED PANEL THAT MAY TAPER TO A TONGUE NOT LESS THAN 3/8" THICK.
 - D. THE EXTERIOR DOOR SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED ACCORDING TO NFPA 252.
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- K. A SHOWER COMPARTMENT SHALL HAVE A MINIMUM OF 6'-8" CEILING HEIGHT, SHALL HAVE A MINIMUM FINISHED INTERIOR OF 1024 SQUARE INCHES, AND SHALL ALSO BE CAPABLE OF ENCOMPASSING A 30" CIRCLE. [CPC 408.6]

KEYNOTES

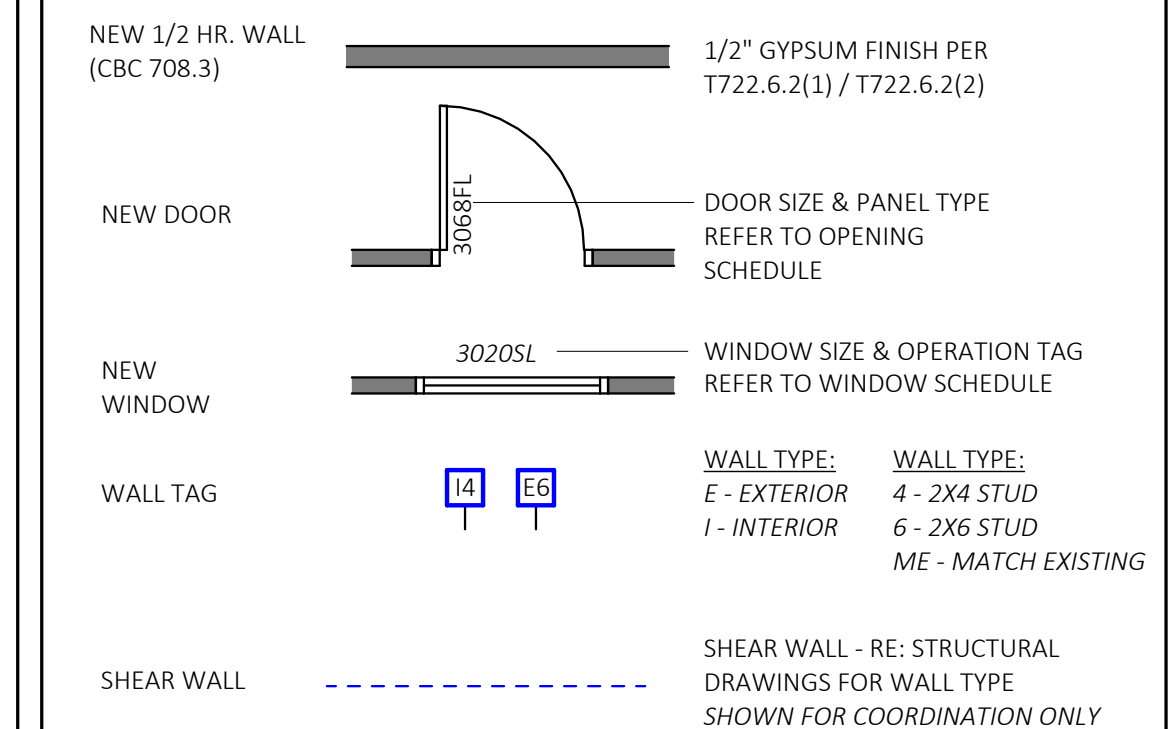
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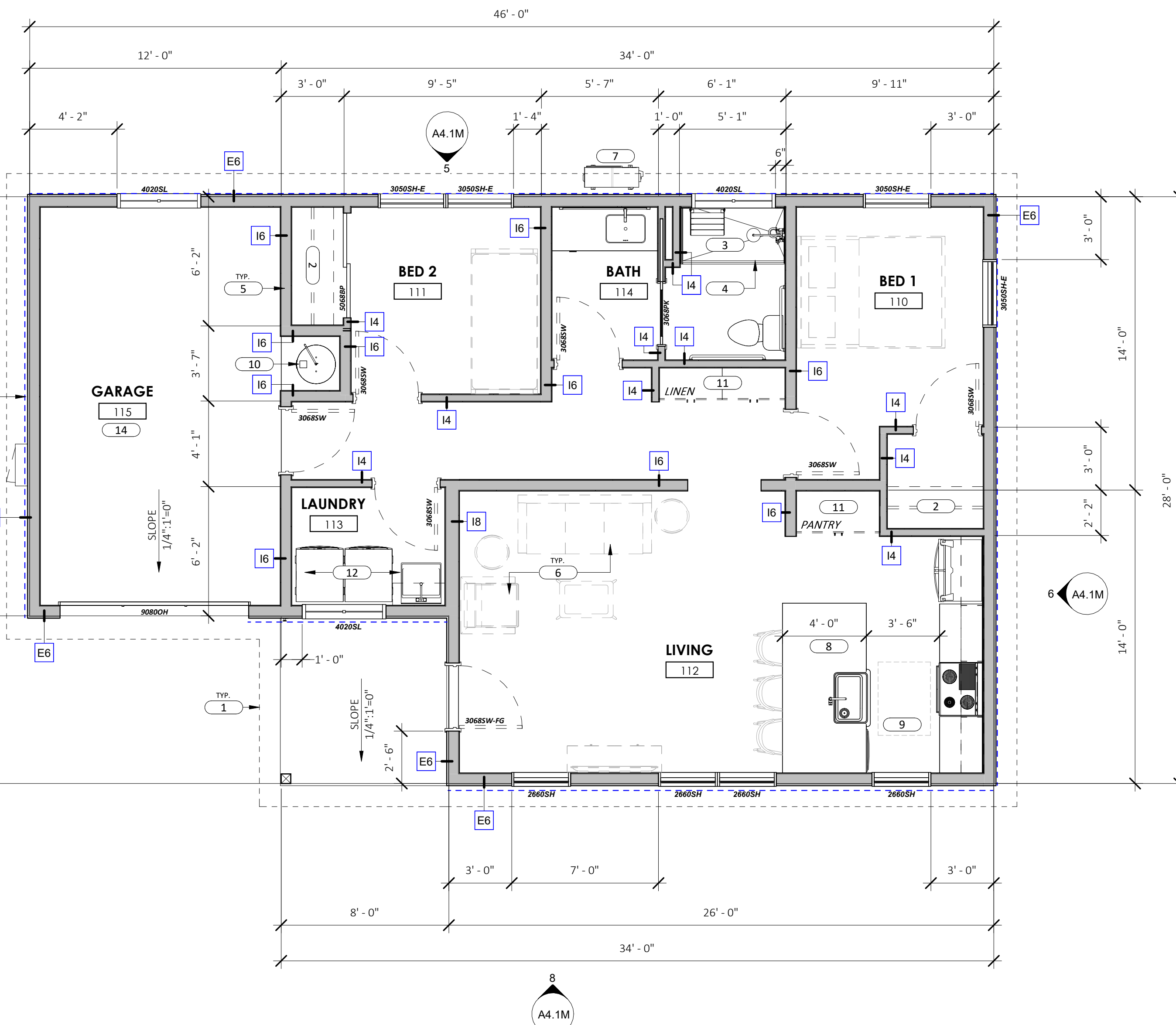
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 - C. ALL NON-DEDICATED ELECTRICAL RECEPTACLES, SWITCHES, DOORBELLS AND CONTROLS SHALL BE LOCATED NO MORE THAN 48" TO TOP OF OUTLET BOX AND NOT LESS THAN 12" FROM BOTTOM OF OUTLET BOX A.F.F.
 - D. AT LEAST ONE BATHROOM AND (1) BEDROOM ON ENTRY LEVEL (OR SECOND LEVEL) SHALL PROVIDE A DOORWAY WITH A NET CLEAR OPENING OF NOT LESS THAN 32"

LEGEND



ABBREVIATIONS

3040	3'-0" WIDE BY 4'-0" HIGH	PC	PICTURE WINDOW
AW	AWNING WINDOW	PK	POCKET DOOR
BP	BI-PASS DOOR	PT	PAINT
DH	DOUBLE-HUNG	SC	SOLID CORE
(E)	EXISTING	SH	SINGLE-HUNG
FF	FACTORY FINISH	SL	SLIDER / SLIDING
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FL	FLUSH PANEL	TBD	TO BE DETERMINED
HL	HALF LITE	TEMP	TEMPERED GLAZING
HM	HOLLOW METAL	WD	WOOD
MTL	METAL		
OO	OWNER OPTION		



1 FLOOR PLAN - MIRRORED

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

DOOR AND FRAME SCHEDULE - ADU 2

MARK	QTY	DOOR PANEL				DOOR FRAME				NOTES		
		TYPE	MATERIAL	FINISH	PAIR	NOMINAL DIMENSIONS (W x H)	GLASS	TYPE	MATERIAL		FINISH	
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3068SW-FG	1	FULL GLASS	OO	FF	-	3'-0"	6'-8"	TEMP	SWING	OO	FF	SOLID CORE
5068BP	1	FLUSH	WD	PT	YES	5'-0"	8'-0"	-	BI-PASS	WD	PT	
9080OH	1	OO	OO	FF	-	9'-0"	7'-0"	TEMP	OVERHEAD	OO	FF	

WINDOW SCHEDULE - ADU 2

#	QTY.	WIDTH	HEIGHT	SILL HEIGHT	USED FOR EGRESS?	EGRESS AREA	TYPE	GLAZING TYPE	REMARKS
2660SH	4	2'-6"	5'-0"	1'-6"			SINGLE-HUNG	TEMP	
3050SH-E	4	2'-11"	5'-0"	1'-0"	Yes	7 SF	SINGLE-HUNG	TEMP	
4020SL	3	4'-0"	2'-0"	4'-6"			SLIDER	TEMP	SAFETY GLAZING @ SHOWER/TUB

DATE	DESCRIPTION



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STIPULATION FOR REUSE
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PROJ ARCH : HMA
SET ISSUE DATE: 8/7/2023

SHEET NOTES

- A. REFER TO STRUCTURAL SCHEDULES AND DETAILS ON STRUCTURAL SHEETS
- B. ALL ROOF OVERHANGS TO BE 1'-6" U.O.N.
- C. PLATE HEIGHTS ARE FROM FINISHED FLOOR AT MAIN HOUSE 0'-0"
- D. FACE OF SLAB TO ALIGN WITH FACE OF STUD
- E. STRUCTURE WILL BE BUILT ON SLOPES LESS THAN 33%
- F. SETBACKS TO SLOPES COMPLY WITH R403.1.7 AND ARE GREATER THAN H/3 OR 40' AT THE TOP OF A SLOPE OR H/2 OR 15' TO THE TOE OF A SLOPE
- G. SOILS REPORT TO BE REQUIRED IF ANY FILL OVER 12" IS USED OR IF ANY KNOWN SOILD CONDITIONS EXIST.
- H. ATTIC VENT, PER CRC SECTION 806.2 THE MIN. NET FREE VENTILATING AREA SHALL BE 1/150 OF THE AREA OF THE VENTED SPACE.
- I. PROVIDE CONTINUOUS 4" FASCIA GUTTERS WITH LEAF GUARDS.
- J. ROOF TO BE CONSTRUCTED PER CRC R902
- K. RE: G2.0, G3.0, G4.0 AND G5.0 FOR ADDITIONAL APPLICABLE CODES
- L. 6:12 SLOPE ASPHALT SHINGLE ROOFING. MANUFACTURER, MODEL, AND COLOR TO BE SELECTED BY OWNER. ROOFING TO BE CLASS 'A' RATED IN ALL W.U.I. LOCATIONS AND INSTALLED PER MFG'S SFM APPROVED DETAILS.
- M. VALLEY FLASHING SHALL BE NOT LESS THAN 0.019 IN NO 26 GA GALVANIZED SHEET SORROSION-RESISTANT METAL INSTALLED OVER ONE LAYER MINIMUM 72 LB MINERAL-SURFACED NONPERFORATED CAP SHEET COMPLYING WITH ASTM D 3909. SEE SHEET G5.0, SECTION R337.5 FOR ADDITIONAL WILDLAND URBAN INTERFACE CODE REQUIREMENTS.
- N. THE EXTERIOR WALL COVERING AND EXPOSED UNDERSIDE OF THE EAVE SHALL BE OF NON-COMBUSTIBLE OR IGNITION RESISTANT MATERIALS. SEE SHEET G5.0, SECTION R337.6.3 FOR ADDITIONAL WILDLAND URBAN INTERFACE CODE REQUIREMENTS.
- O. ROOF FRAMING TO BE PRE-FAB TRUSSES AT 24" O.C. TYP. TRUSS MFG TO PROVIDE TRUSS LAYOUT PLAN

KEYNOTES

- 1. MINI-SPLIT MECHANICAL SYSTEM PER ENERGY DOCUMENTS, TYPICAL OF (3) HEAD UNITS
- 2. CENTER LIGHT(S) IN SPACE, TYPICAL
- 3. PENDANT LIGHT, TYP. OF (3), CENTER OVER ISLAND
- 4. CENTER CEILING FAN IN SPACE, TYPICAL
- 5. PHOTOVOLTAIC ARRAY - RE: ENERGY DOCUMENTS FOR SIZING AND ADJUST LOCATION FOR OPTIMAL SOLAR EXPOSURE PER SITE
- 6. 4" GUTTER W/ LEAF GUARD @ 2X12 FASCIA BOARD
- 7. DOWNSPOUT, INDICATED BY (S), TYPICAL OF (4)
- 8. LINE OF WALL BELOW
- 9. VANITY LIGHT CENTER OVER SINK
- 10. OFF-RIDGE VENT, LOCATION TO BE FINALIZED BY CONTRACTOR. VENTS TO BE SFM APPROVED AND EMBER RESISTANT PER HIGH FIRE SEVERITY HAZARD ZONE (WUI) REQUIREMENTS. TYPICAL OF (7)
- 11. EXTERIOR DOOR FITTING TO BE WUI COMPLIANT FIBER CEMENT PANELING OR EQUAL
- 12. TONGUE AND GROOVE WOOD CEILING FINISH, OWNER'S OPTION
- 13. STRUCTURAL BEAM - RE: STRUCTURAL DRAWINGS
- 14. LOCATION OF GABLE VENT IN WALL BELOW. VENTS TO BE SFM APPROVED AND EMBER RESISTANT PER HIGH FIRE SEVERITY HAZARD ZONE (WUI) REQUIREMENTS TYPICAL OF (3)

ATTIC VENTILATION CALCS

AREA: CONDITIONED SPACE
1450 SF (ATTIC AREA) / 150 = 9.7 SF REQ'D ATTIC VENTILATION (1,392 SQ IN)

PROVIDED RIDGE VENTING:
(BRANDGUARD OR EQUAL, 17 SQ IN NFVA/LF MIN.)
> 31 LINEAR FT * 17 SQ IN
> 527 SQ IN / 144 SQ IN PER SF
> 3.7 SF

PROVIDED OFF-RIDGE VENTING TO MATCH ROOFING MATERIAL:
(O'HAGIN FIRE & ICE OR EQUAL, 72 SQ IN NFVA MIN.)
> 7 UNITS * 72 SQ IN
> 504 SQ IN / 144
> 3.5 SF

PROVIDED GABLE VENTING:
(BRANDGUARD OR EQUAL, 127 SQ IN NFVA MIN.)
> 3 UNITS * 72 SQ IN
> 381 SQ IN / 144
> 2.7 SF

TOTAL AREA OF VENTILATION PROVIDED: APPROX. 9.9 SF

STORM DRAINAGE NOTES

(PER 2022 CPC)

60-MINUTE DURATION, 100-YEAR RETURN PERIOD = 3.1 (IN/H) AND .016 GPM/SF

ROOF AREA = 1,450 SF
FLOW (GPM) = 1450 * 0.016 = 23.2 GPM

4" PIPE = 12.6 SQ IN.
4" RECTANGLE GUTTER = 16 SQ IN.

PER TABLE 101.8
4" HORIZONTAL GUTTER = 8 GPM; 1.5 (IN/H) = 7,020 ALLOWABLE SF (4" GUTTER ON 4" LEADER)

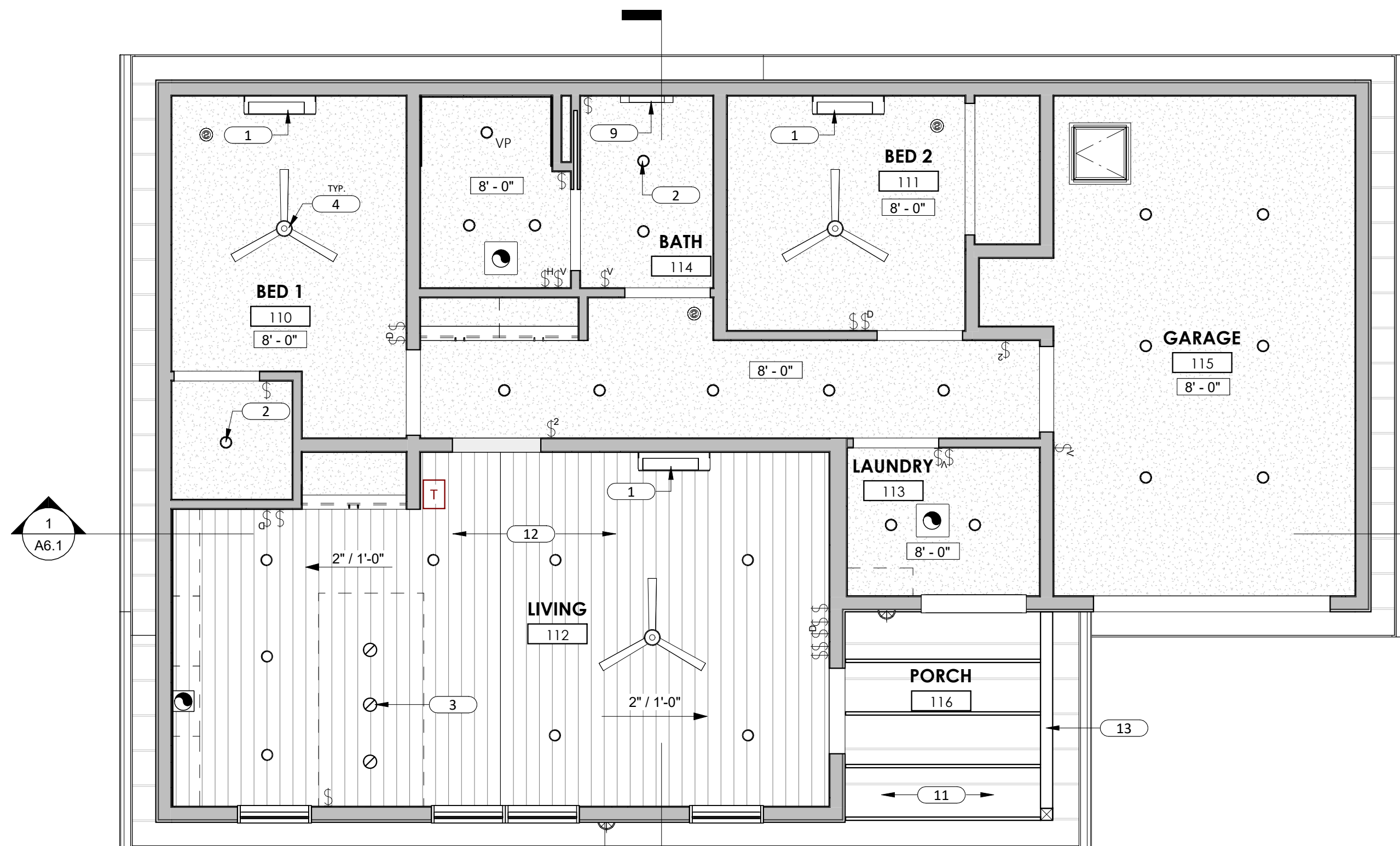
PER TABLE 101.12
2" VERTICAL LEADER: 30 GPM; 1.5 (IN/H) = 2700 SF / LEADER

1450SF/2700SF = 1 LEADER REQ'D
4 PROVIDED FOR (3) SEPARATE GUTTER RUNS

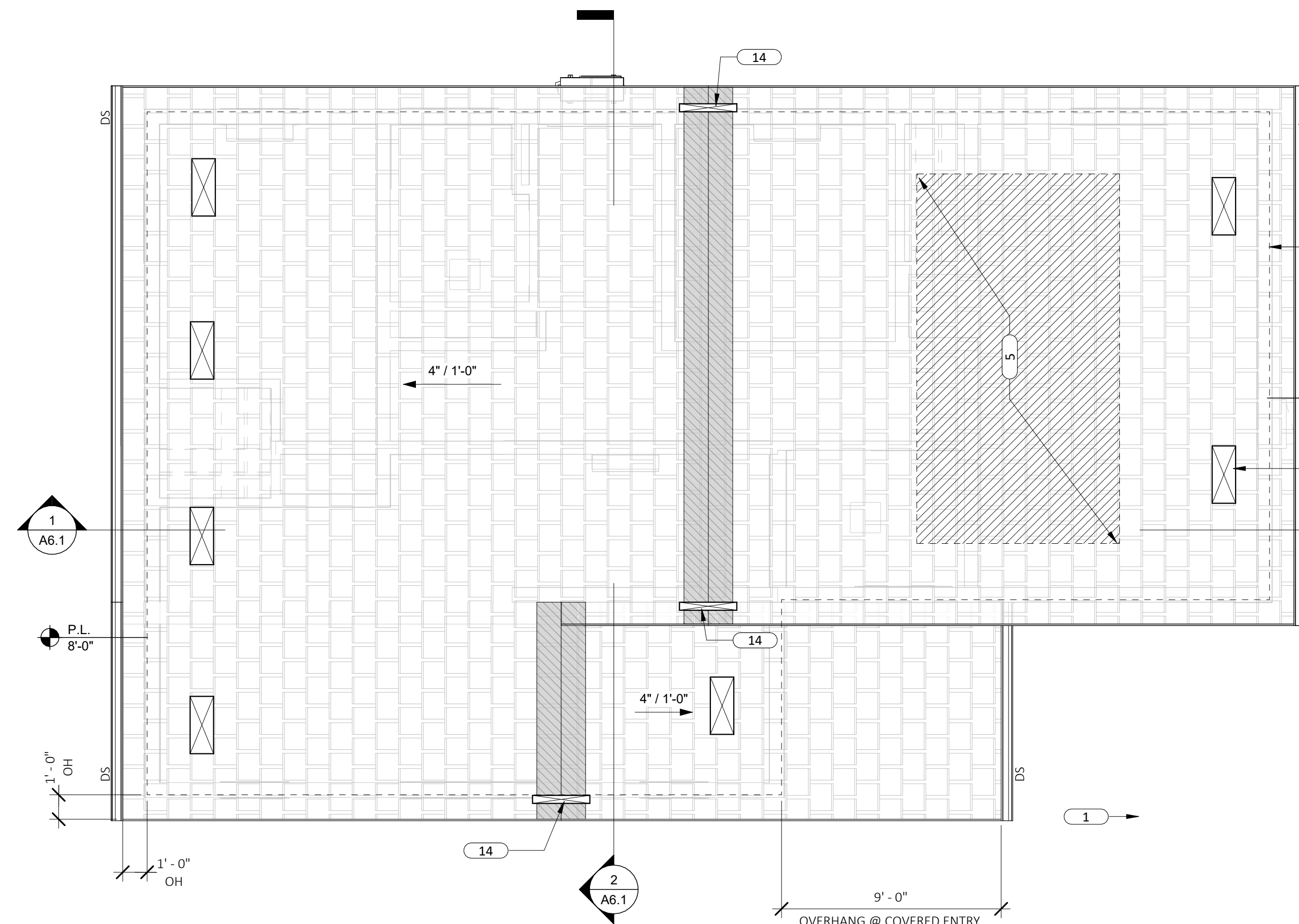
- 1. USE 1 LEADER OR (1) EVERY 50' MAX OF GUTTER LENGTH WHICH EVER IS GREATER
- 2. SLOPE GUTTER 1/8" PER FOOT TOWARDS DOWNSPOUTS
- 3. DOWNSPOUTS (ABBREVIATED AS "DS") SHOWN ON PLAN FOR APPROXIMATE LOCATIONS

LEGEND

- WALL SCONCE
- 6" RECESSED CAN LIGHT
- WEATHER-PROOF WHEN SHOWN @ PATIOS VAPOR-PROOF IN BATHROOM LOCATIONS
- UNDERCABINET LIGHTING
- SWITCH
- COMBINATION SMOKE / CARBON MONOXIDE DETECTOR
TO BE HARDWIRED AND INTERCONNECTED
- PENDANT LIGHT FIXTURE
- CEILING FAN WITH LIGHT
- WUI COMPLIANT TONGUE & GROOVE SOFFIT
- GYP. BD. CEILING
- 30" x 30" (MIN.) ATTIC ACCESS HATCH PER 2022 CRC 807.1
- EXHAUST FAN - SHALL BE LISTED AT 3 SONES OR LESS FOR NOISE AND RATED BASED ON W.C. OF 0.25 OR GREATER



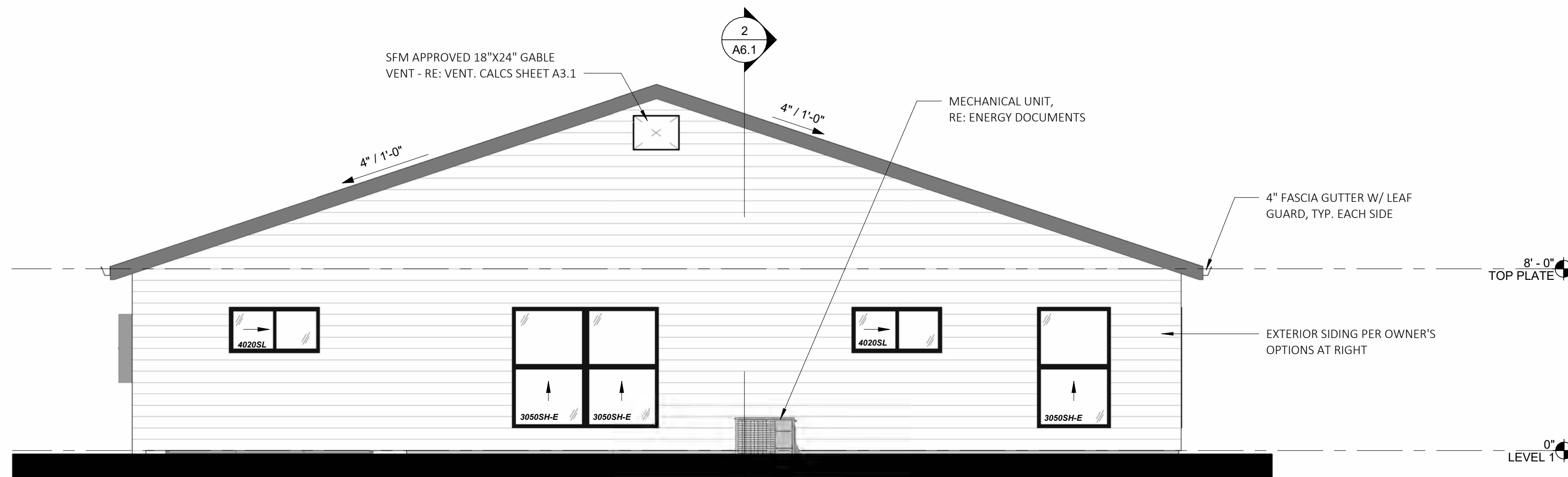
1 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



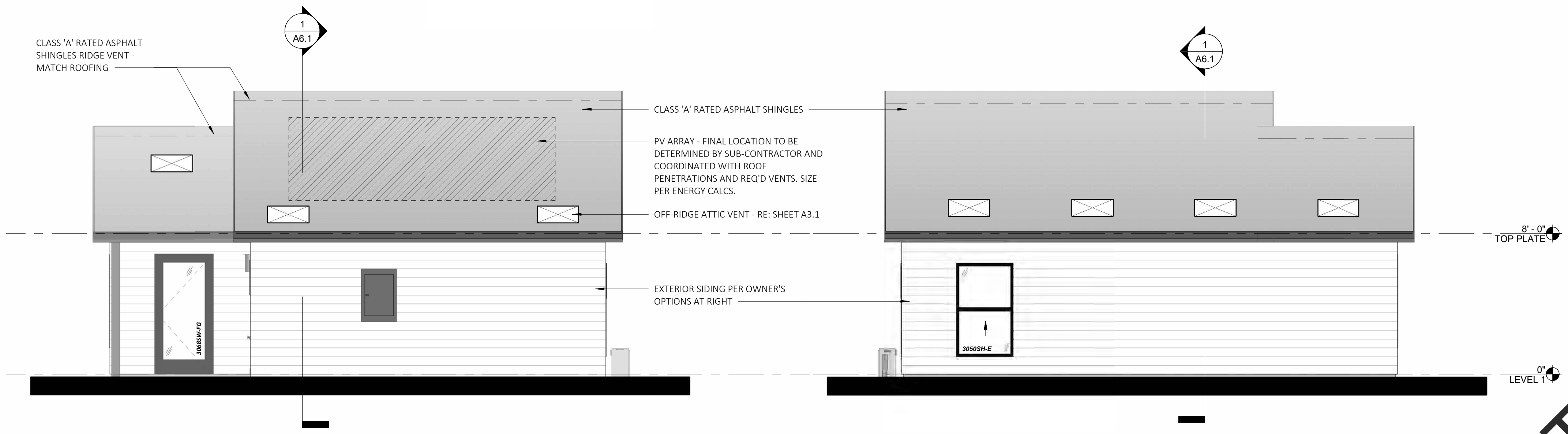
2 ROOF PLAN
SCALE: 1/4" = 1'-0"

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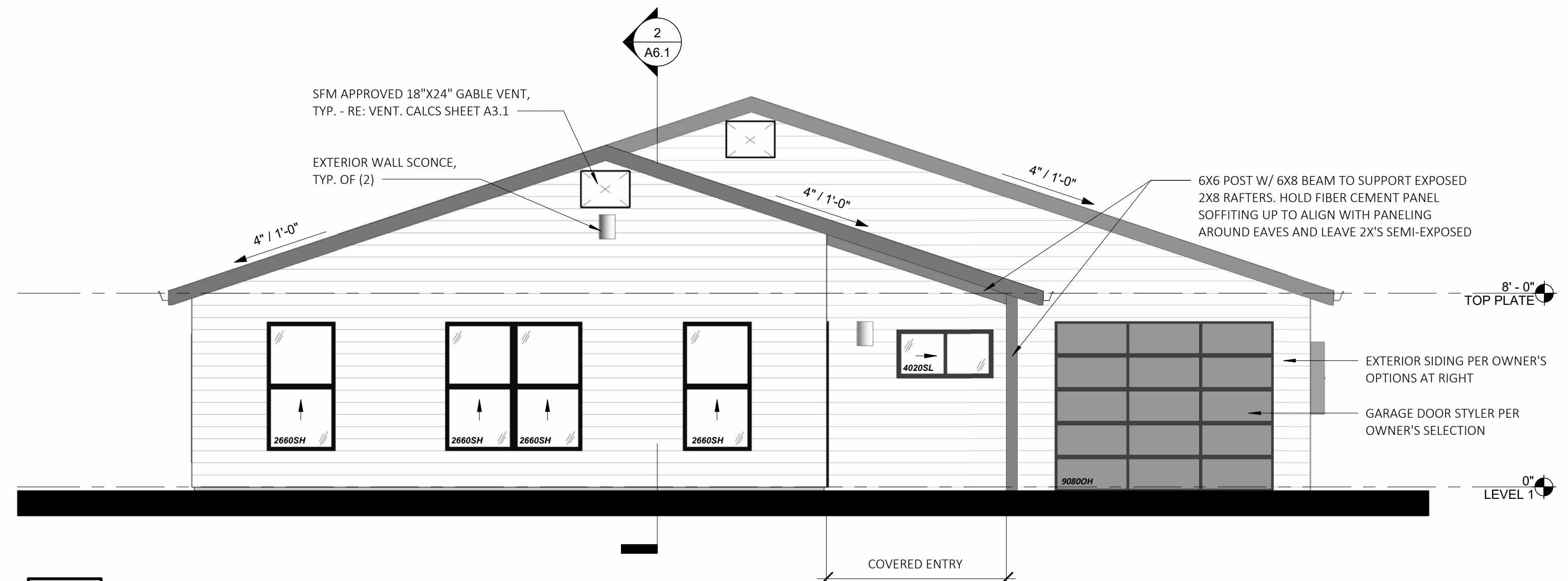


1 PLAN NORTH ELEVATION
 SCALE: 1/4" = 1'-0"



2 PLAN EAST ELEVATION
 SCALE: 1/4" = 1'-0"

3 PLAN WEST ELEVATION
 SCALE: 1/4" = 1'-0"



4 PLAN SOUTH ELEVATION
 SCALE: 1/4" = 1'-0"

SHEET NOTES

- A. EGRESS WINDOWS TO BE 20" WIDE MIN., 24" HIGH MIN., 5.7 SQ FT MIN., AND 44" MAX. BETWEEN FINISH FLOOR AND FINISHED SILL HEIGHT.
- B. RE: G2.0, G3.0 AND G4.0 FOR ADDITIONAL APPLICABLE CODES
- C. RE: A7.1 & A8.1 FOR WINDOW AND DOOR DETAILS
- D. EXTERIOR WINDOWS AND EXTERIOR DOOR ASSEMBLIES SHALL COMPLY WITH ONE OF THE FOLLOWING REQUIREMENTS:
 - A. BE CONSTRUCTED OF MULTI-PANE GLAZING WITH A MINIMUM OF ONE TEMPERED PANE MEETING THE REQUIREMENTS OF SECTION R308 SAFETY GLAZING, OR
 - B. BE CONSTRUCTED OF GLASS BLOCK, OR
 - C. HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED ACCORDING TO NFPA 257, OR
 - d. BE TESTED TO MEET THE PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-2
- E. EXTERIOR DOORS SHALL COMPLY WITH ONE OF THE FOLLOWING:
 - A. THE EXTERIOR SURFACE OR CLADDING SHALL BE OF NON-COMBUSTIBLE OR
 - B. THE EXTERIOR SURFACE OR CLADDING SHALL BE OF IGNITION-RESISTANCE MATERIAL, OR
 - C. THE EXTERIOR DOOR SHALL BE CONSTRUCTED OF SOLID CORE WOOD THAT COMPLY WITH THE FOLLOWING REQUIREMENTS:
 - STILES AND RAILS SHALL BE NOT LESS THAN 1 3/8" THICK.
 - PANELS SHALL NOT BE LESS THAN 1 1/4" THICK, EXCEPT FOR THE EXTERIOR PERIMETER OF THE RAISED PANEL THAT MAY TAPER TO A TONGUE NOT LESS THAN 3/8" THICK.
 - D. THE EXTERIOR DOOR SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED ACCORDING TO NFPA 252.
 - E. THE EXTERIOR SURFACE OR CLADDING SHALL BE TESTED TO MEET THE PERFORMANCE REQUIREMENTS OF ASTM E2707.
 - f. THE EXTERIOR SURFACE OR CLADDING SHALL BE TESTED TO MEET THE PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-1
- F. EXTERIOR GARAGE DOORS SHALL BE PROVIDED WITH WEATHER STRIPPING TO RESIST THE INTRUSION OF EMBERS FROM ENTERING THROUGH GAPS BETWEEN DOORS AND DOOR OPENINGS WHEN VISIBLE GAPS EXCEED 1/8". WEATHER STRIPPING OR SEALS SHALL BE INSTALLED ON THE BOTTOM, SIDES AND TOPS OF DOORS TO REDUCE GAPS BETWEEN DOORS AND DOOR OPENINGS TO 1/8" OR LESS.

EXTERIOR SIDING OPTIONS

- OPTION 1:** (SHOWN IN ELEVATIONS IN DARK COLORWAY)
 WUI COMPLIANT FIBER CEMENT LAP SIDING (HARDIE OR EQUAL)
- OPTION 2:**
 CEMENT PLASTER FINISH - COLOR TO BE SELECTED BY OWNER
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 WUI COMPLIANT FIBER CEMENT PANELING (HARDIE OR EQUAL)

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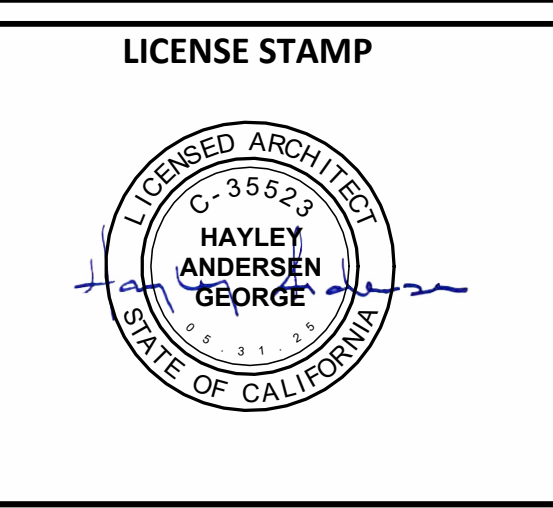


PROJECT

SHASTA COUNTY PRE-APPROVED
 ADUS
ADU 2 - CASTELLA MODERN

REVISIONS

DATE	DESCRIPTION



CONSULTANT

AGENCY APPROVAL

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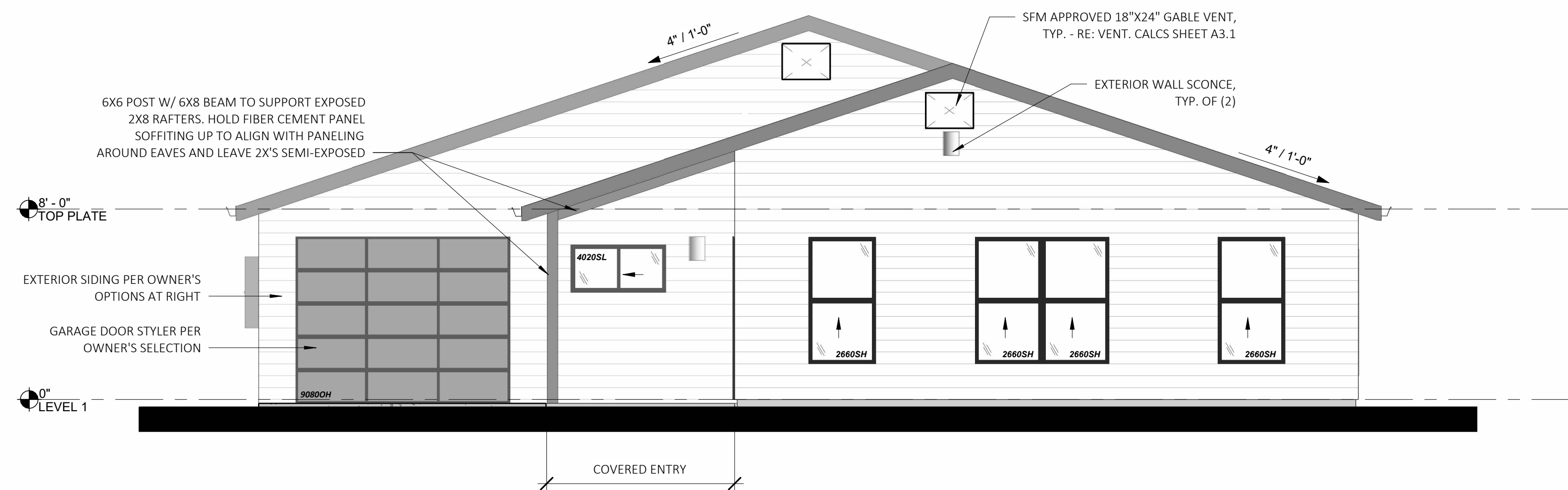
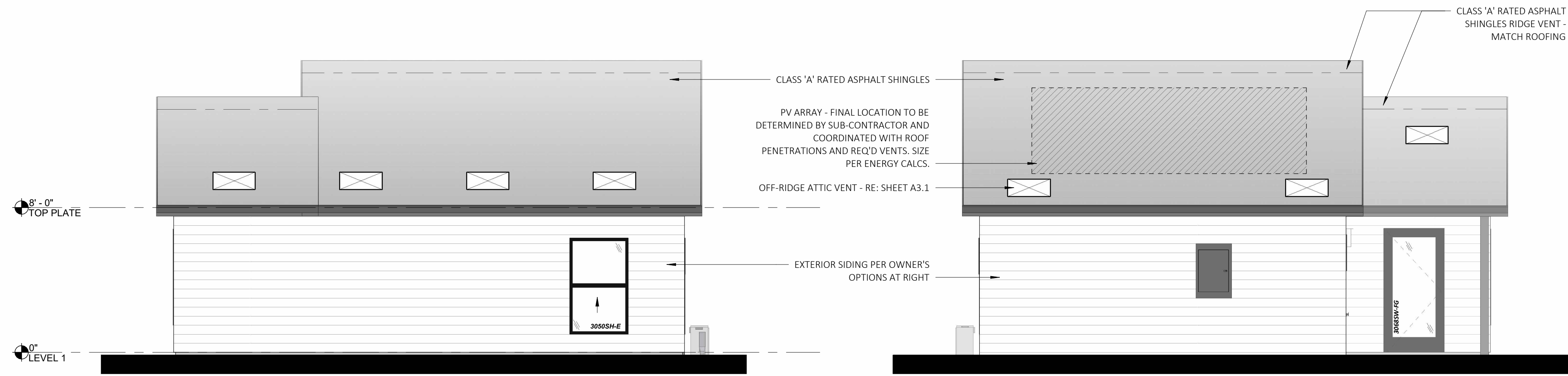
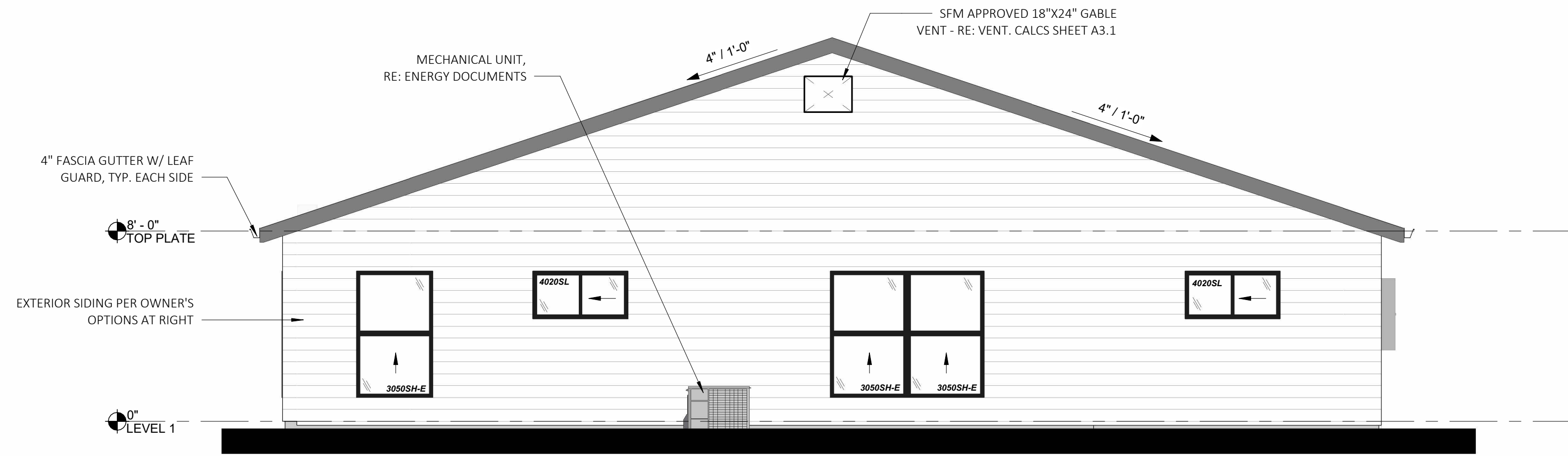
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 SET ISSUE DATE: 8/7/2023

EXTERIOR ELEVATIONS

A4.1

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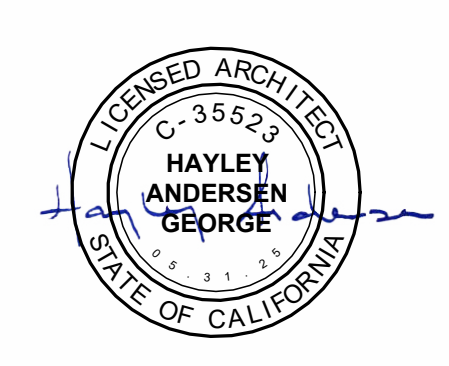
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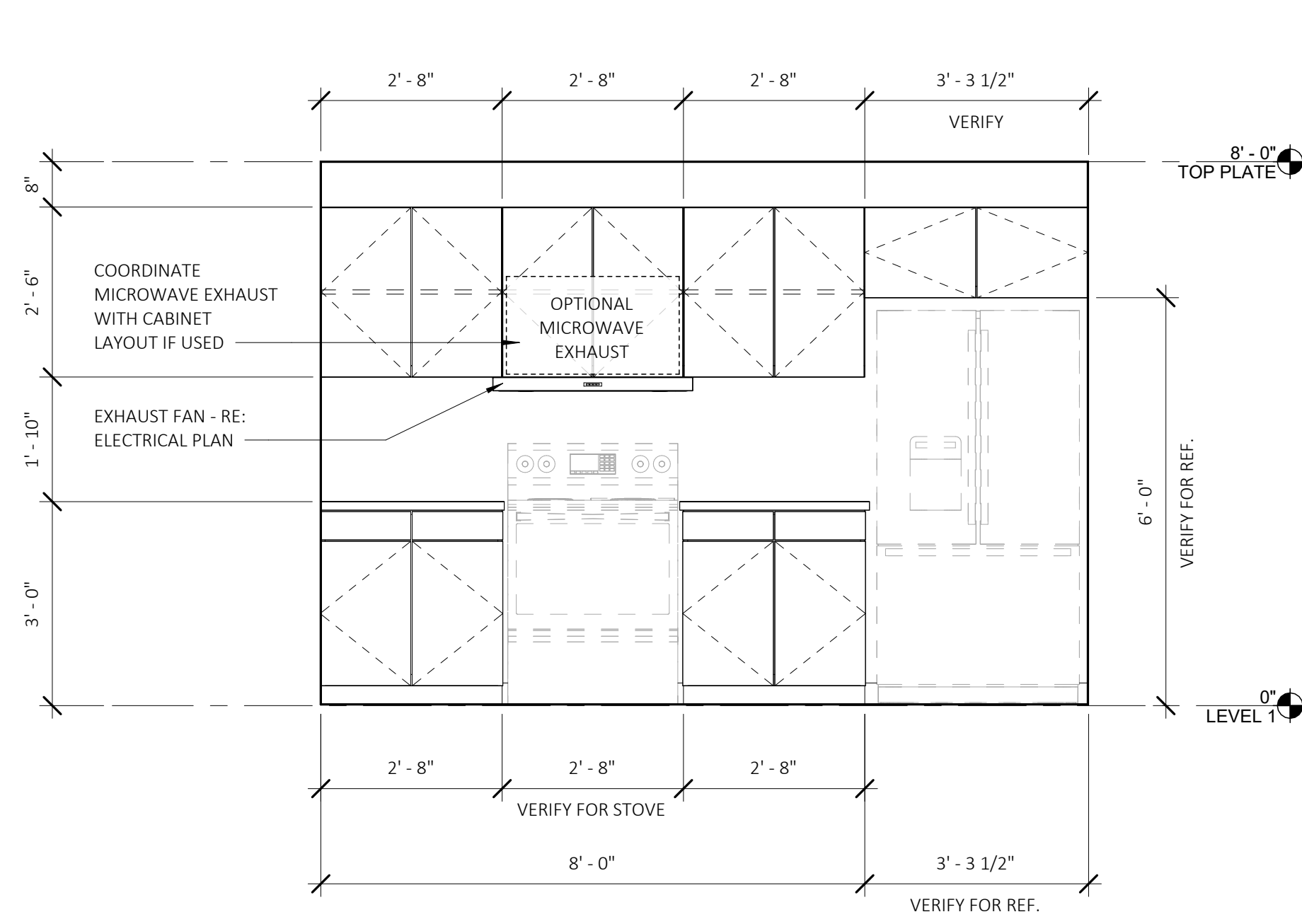
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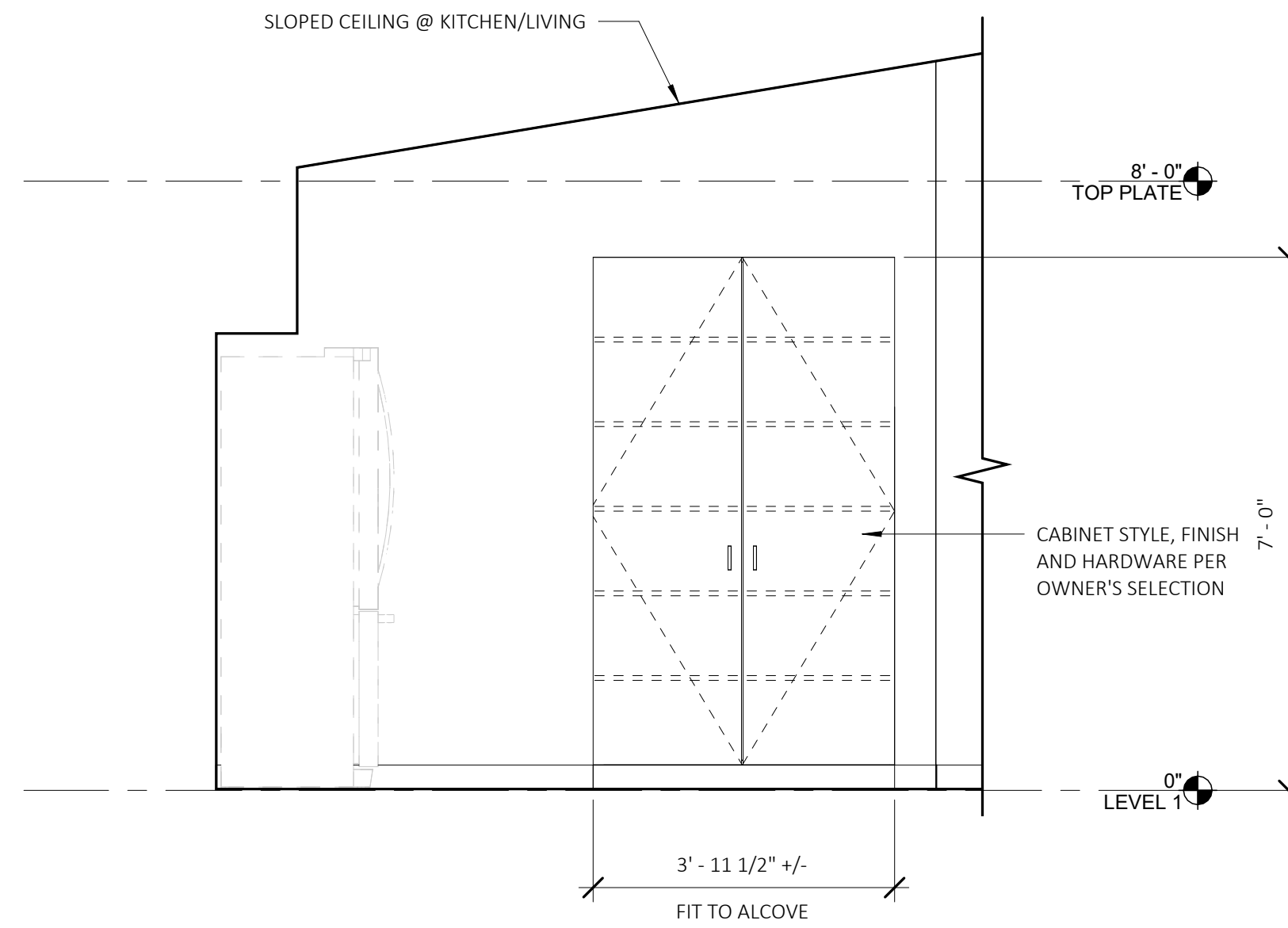
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EXTERIOR ELEVATIONS -
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A4.1M

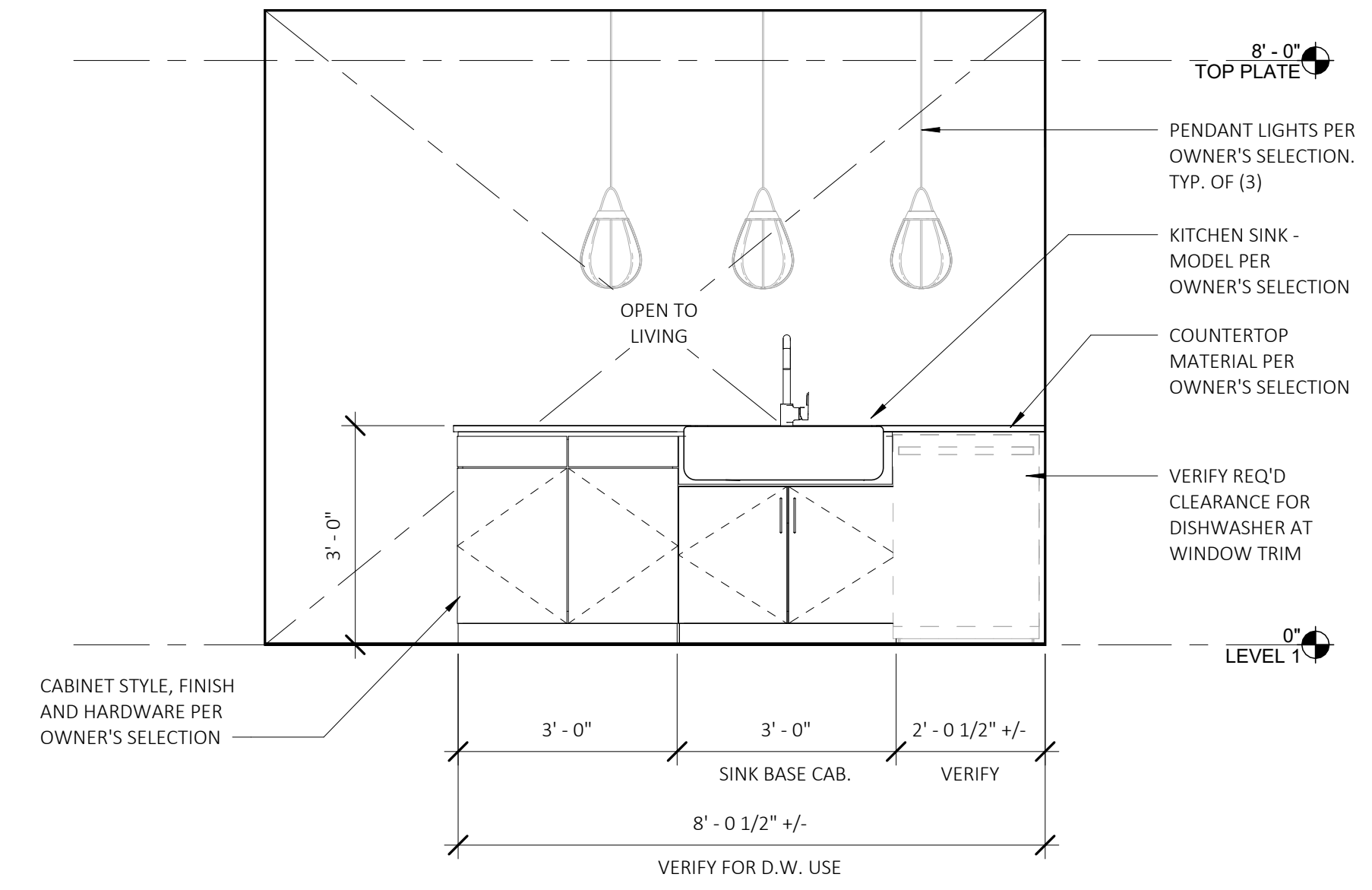
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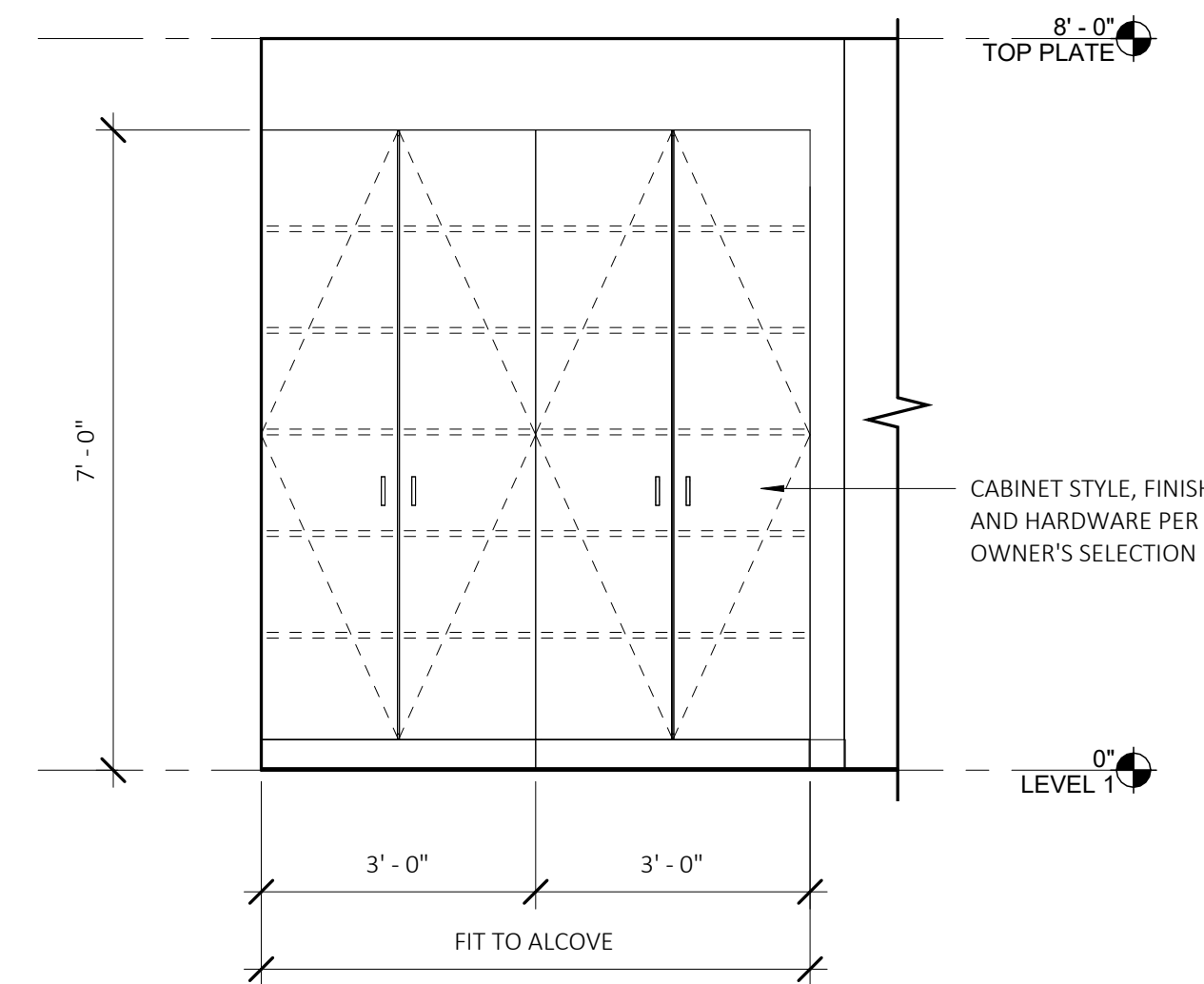
1 KITCHEN CABINET ELEVATION (WEST)
SCALE: 1/2" = 1'-0"



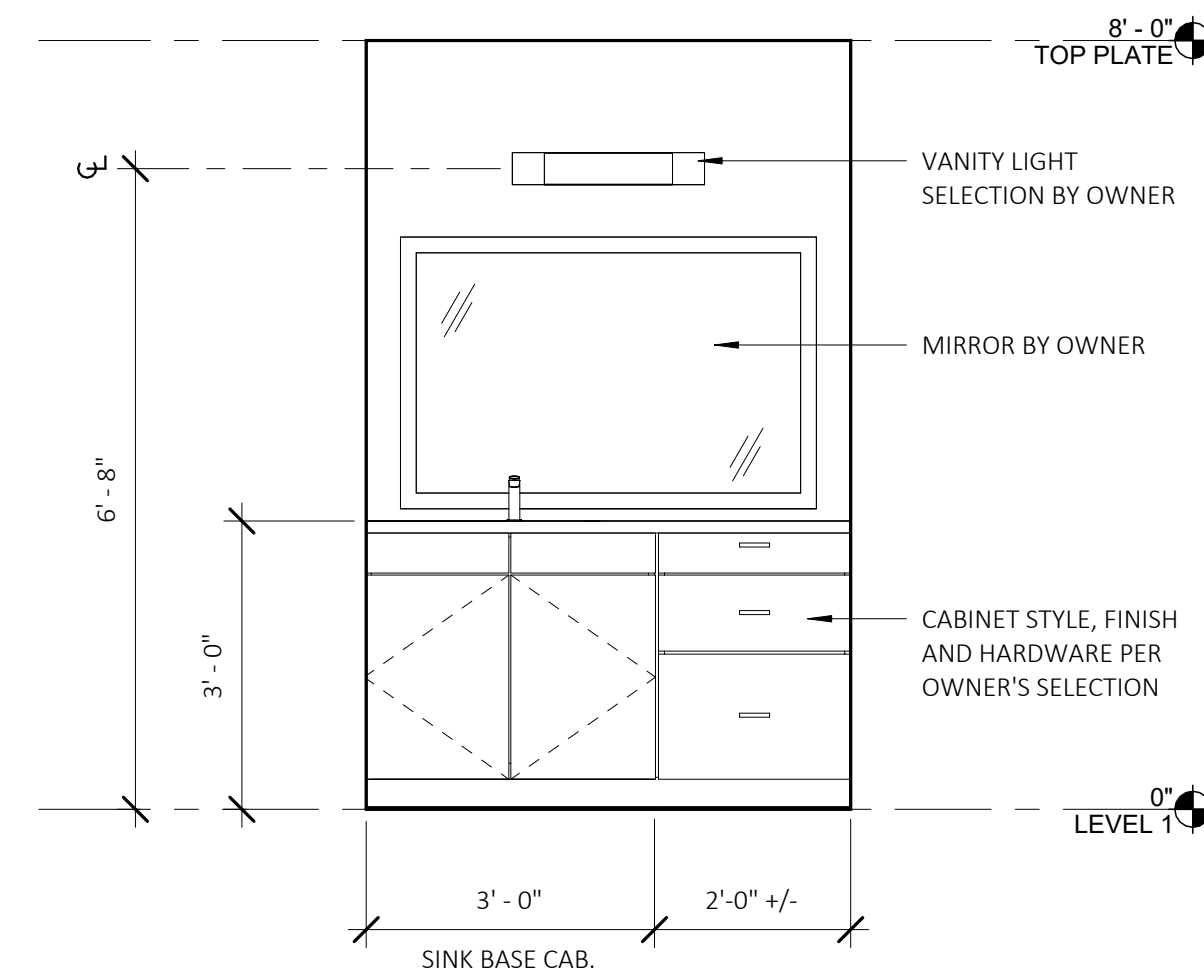
2 KITCHEN PANTRY CABINET ELEVATION (NORTH)
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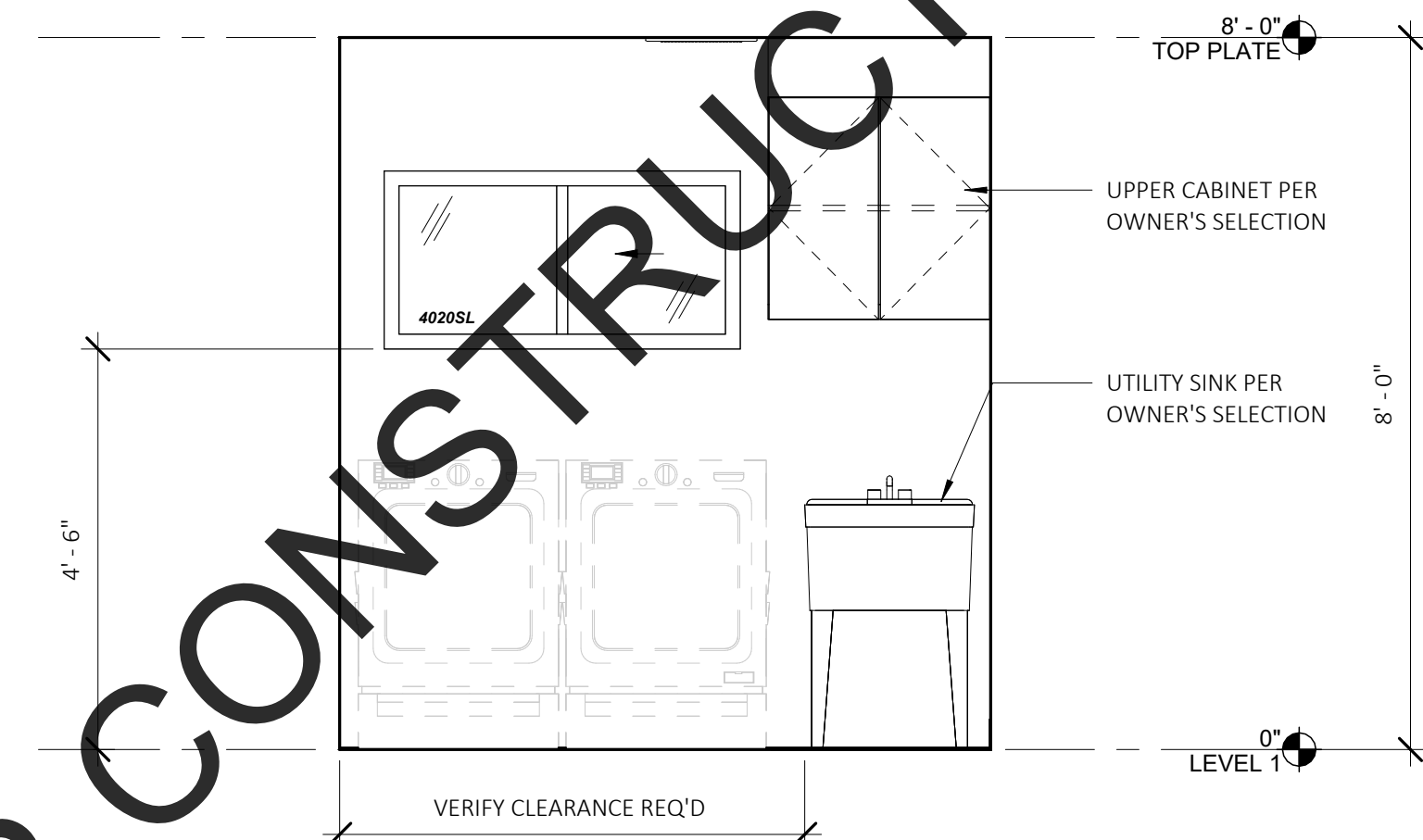
3 KITCHEN PENINSULA CABINET ELEVATION (EAST)
SCALE: 1/2" = 1'-0"



4 HALL CABINET ELEVATION
SCALE: 1/2" = 1'-0"



5 BATHROOM CABINET ELEVATION
SCALE: 1/2" = 1'-0"



6 LAUNDRY ROOM ELEVATION
SCALE: 1/2" = 1'-0"

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PROJECT

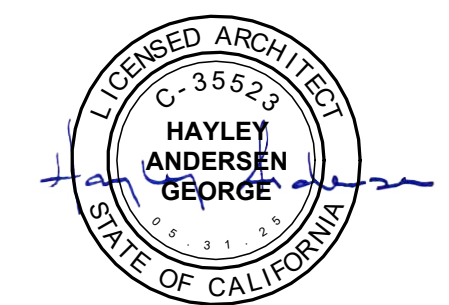


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PROJ ARCH : HMA
 SET ISSUE DATE: 8/7/2023

INTERIOR ELEVATIONS

A5.1

PROJECT



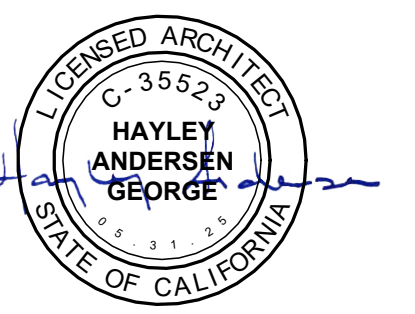
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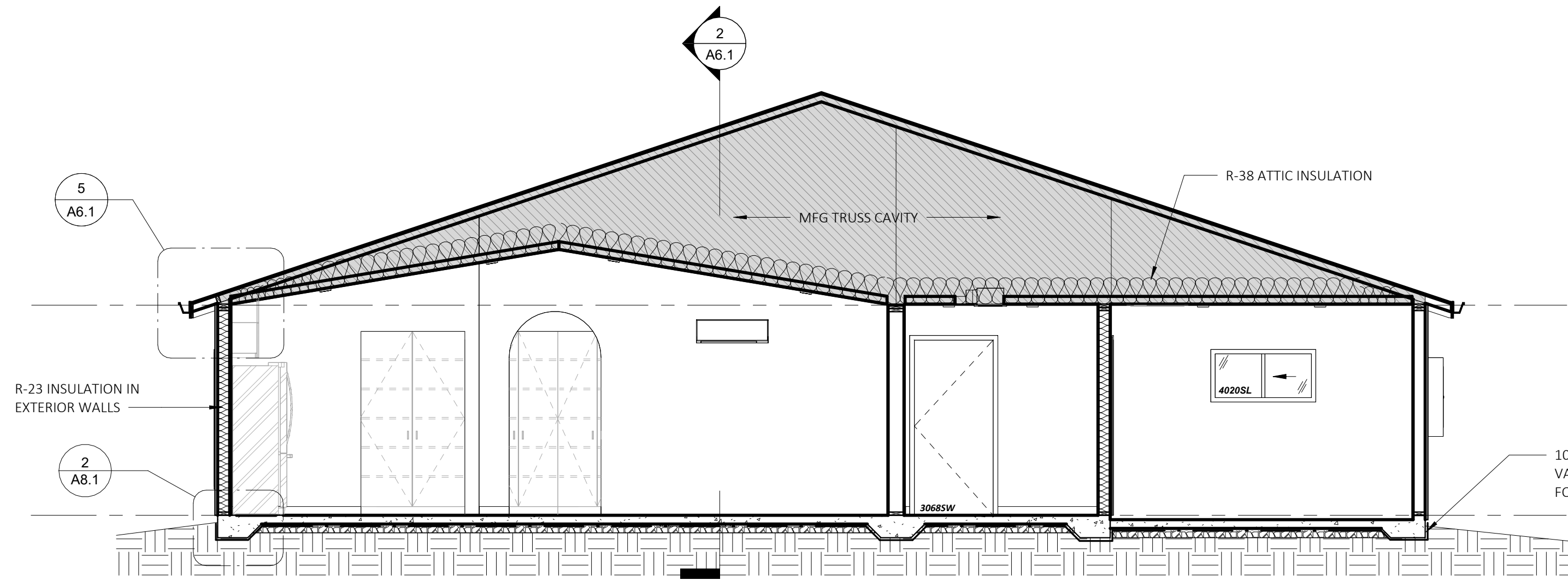
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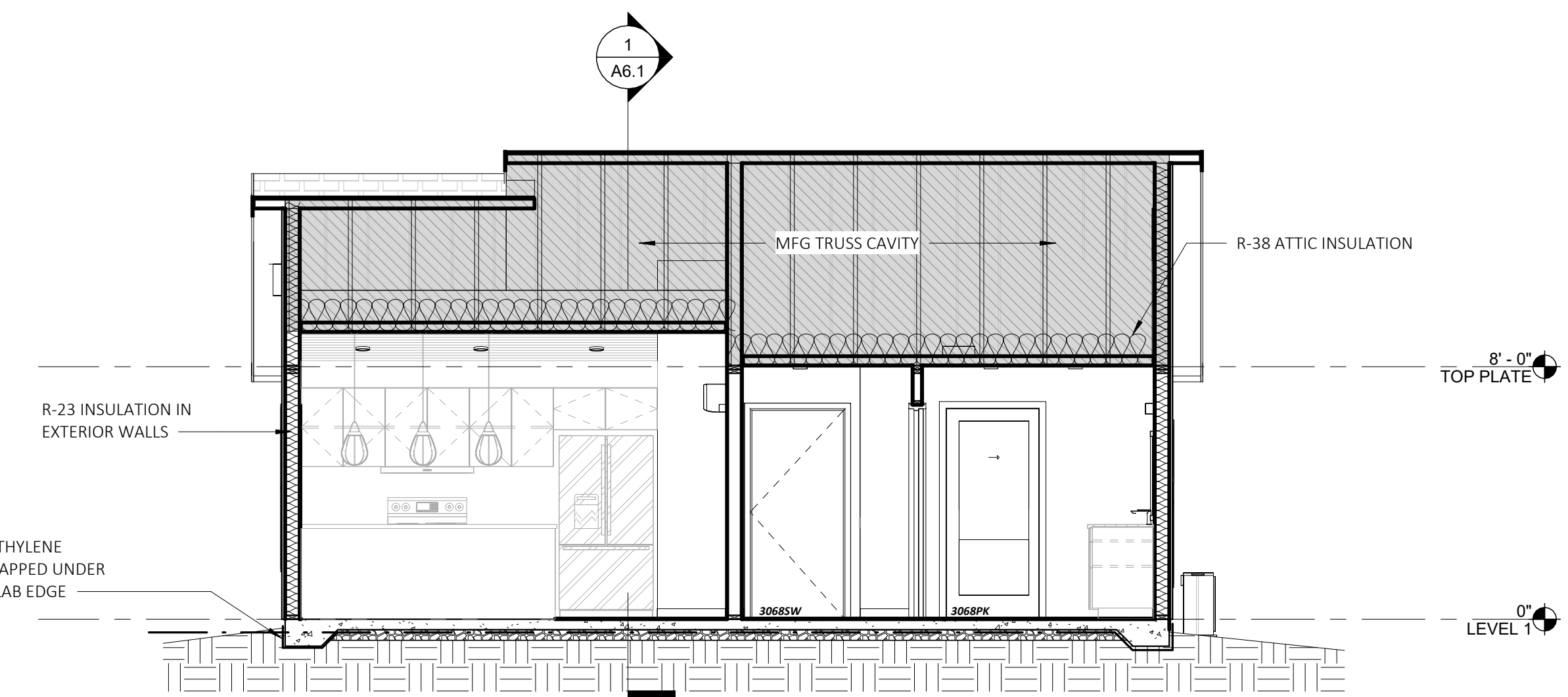
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SECTIONS & EXTERIOR DETAILS

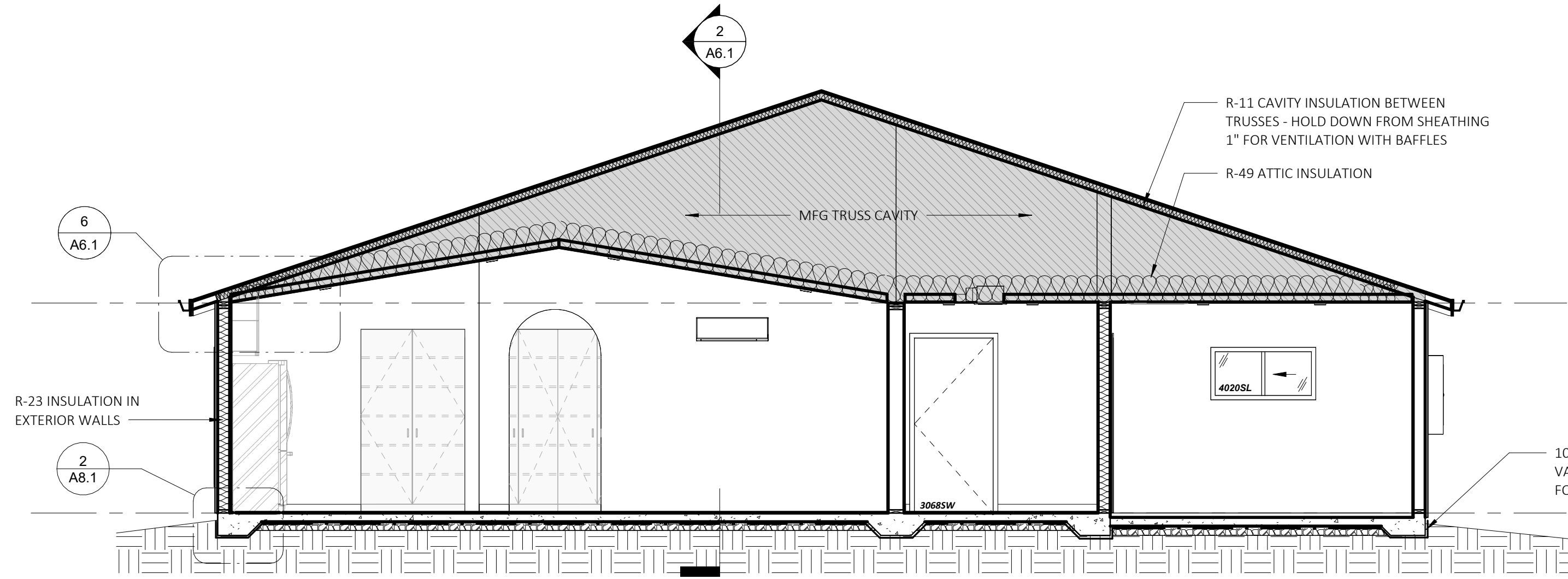
A6.1



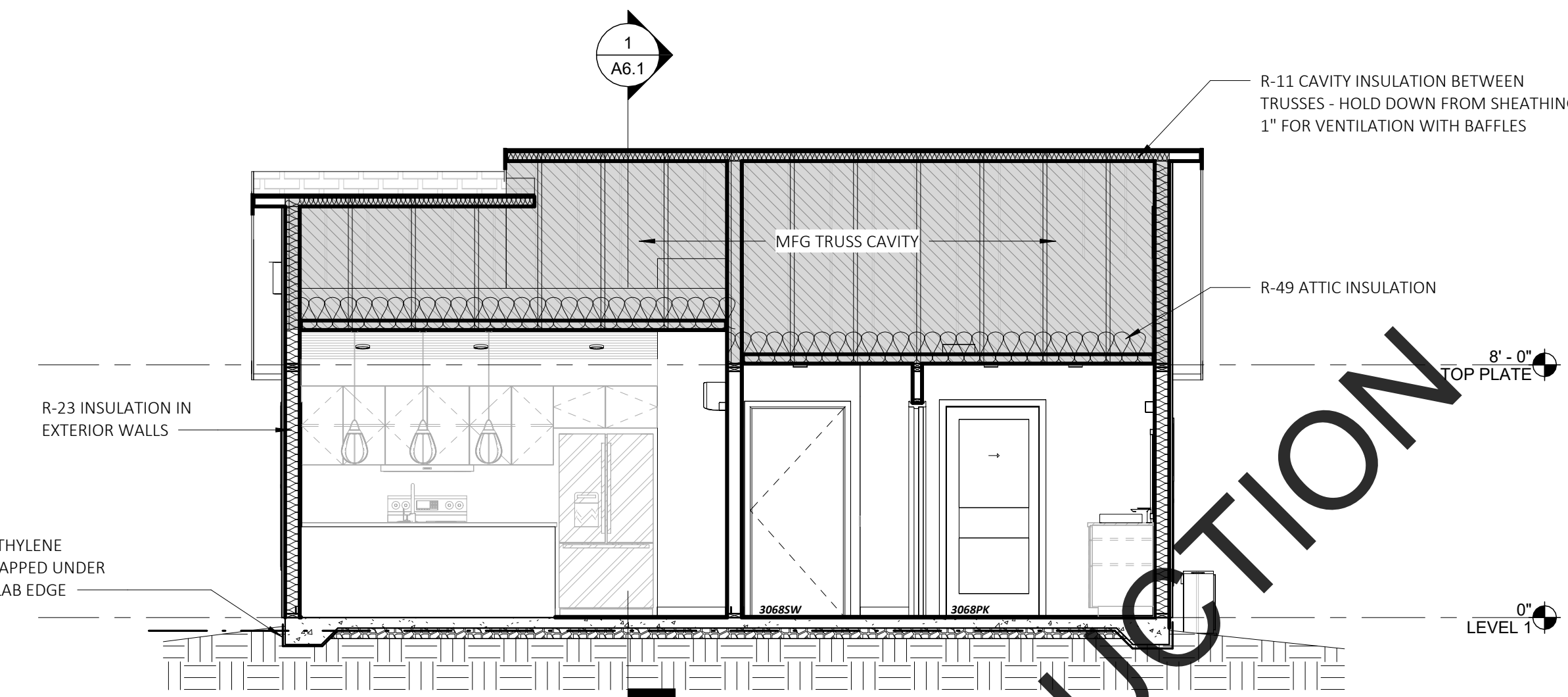
1 E-W SECTION - CLIMATE ZONE 11
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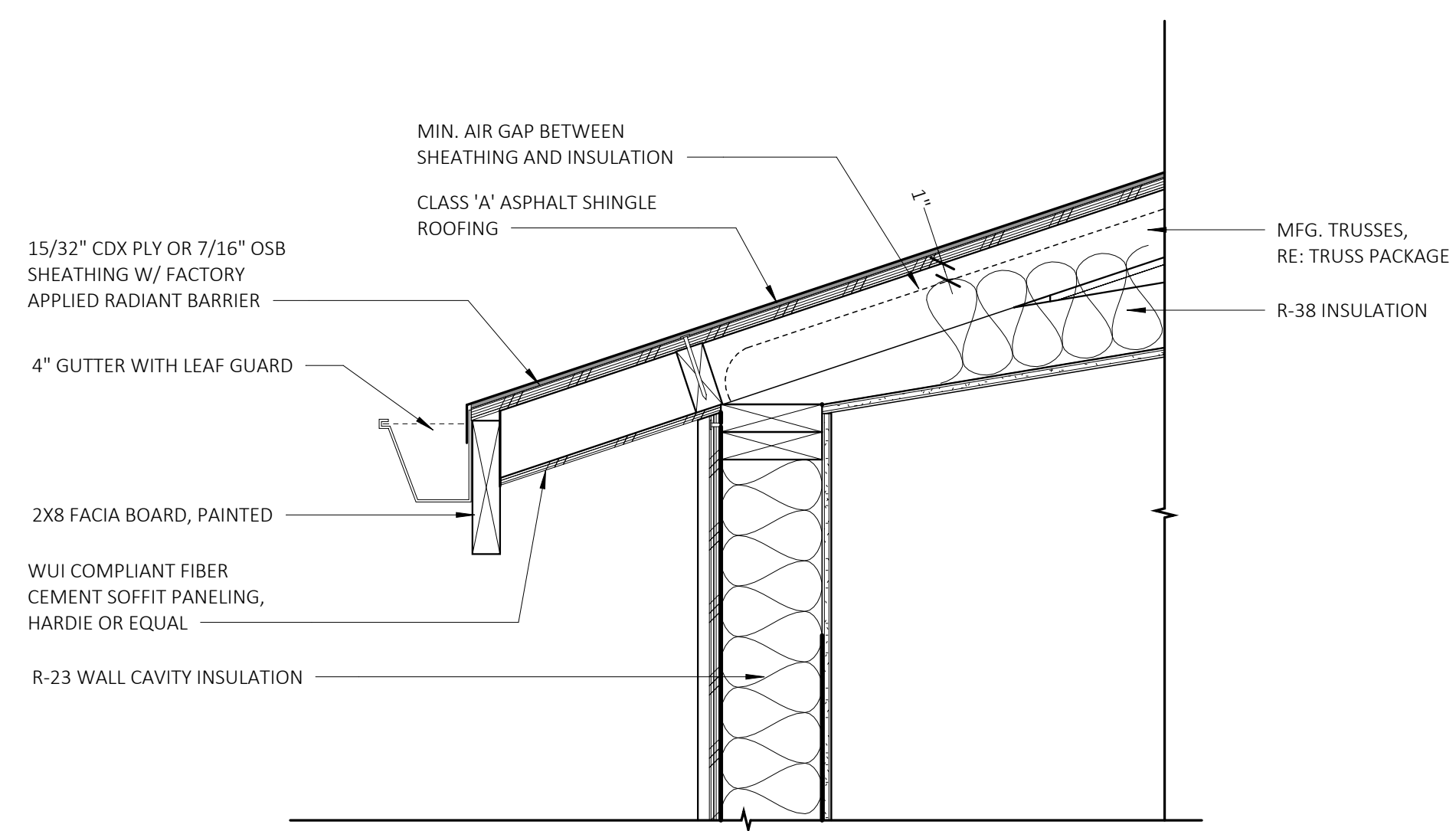
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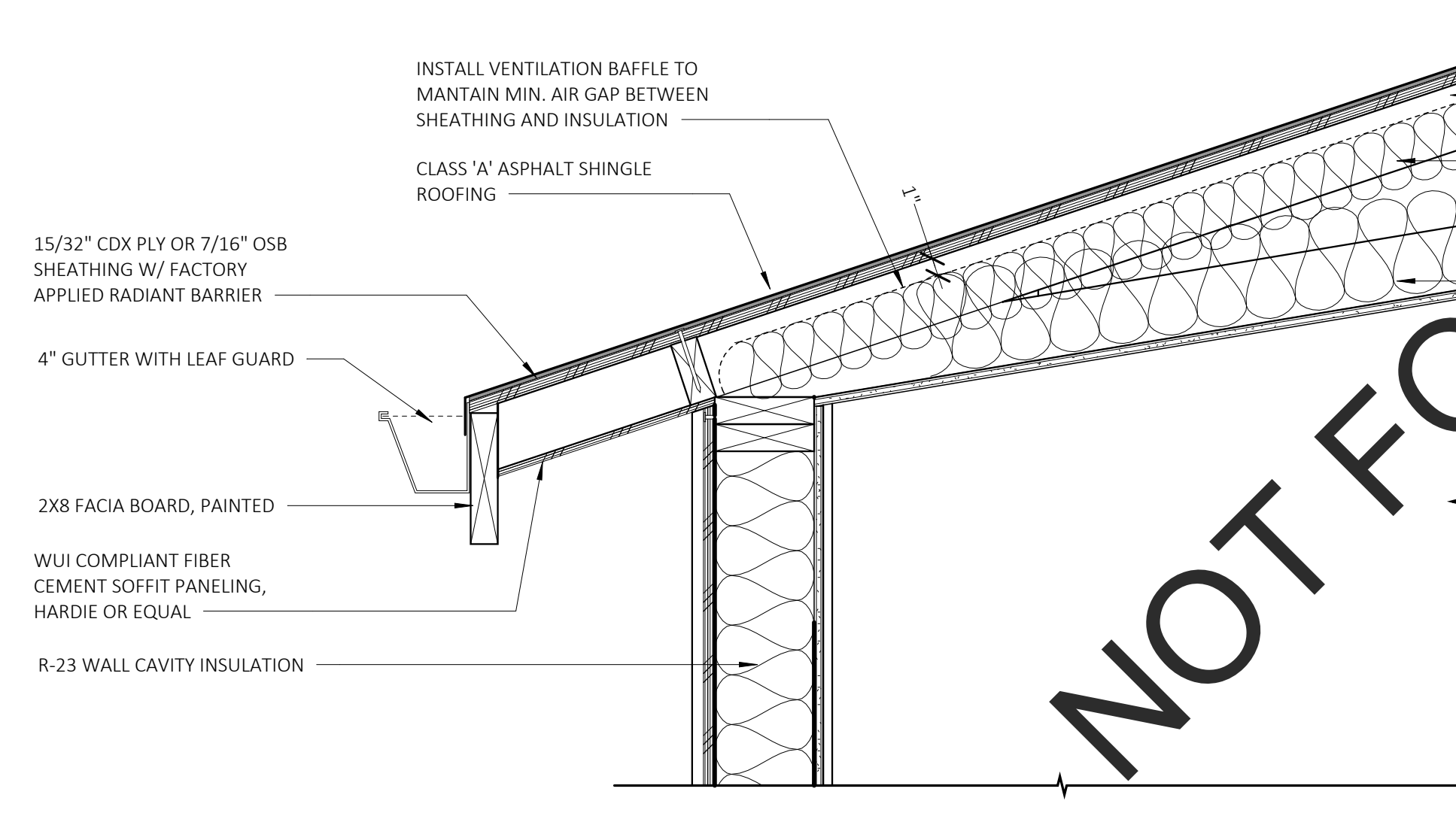
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4 N-S SECTION - CLIMATE ZONE 16
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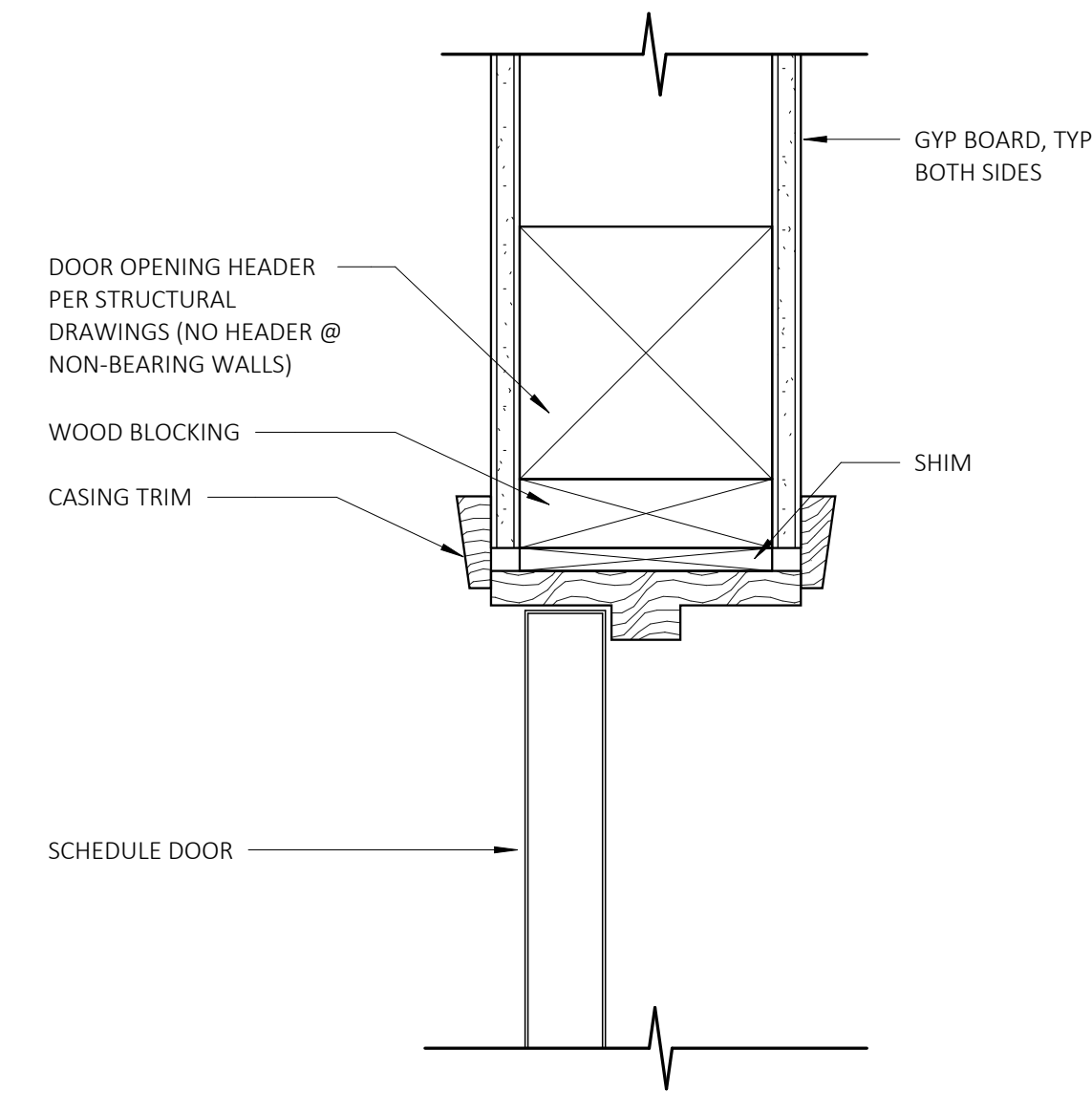


5 EAVE DETAIL - CZ 11
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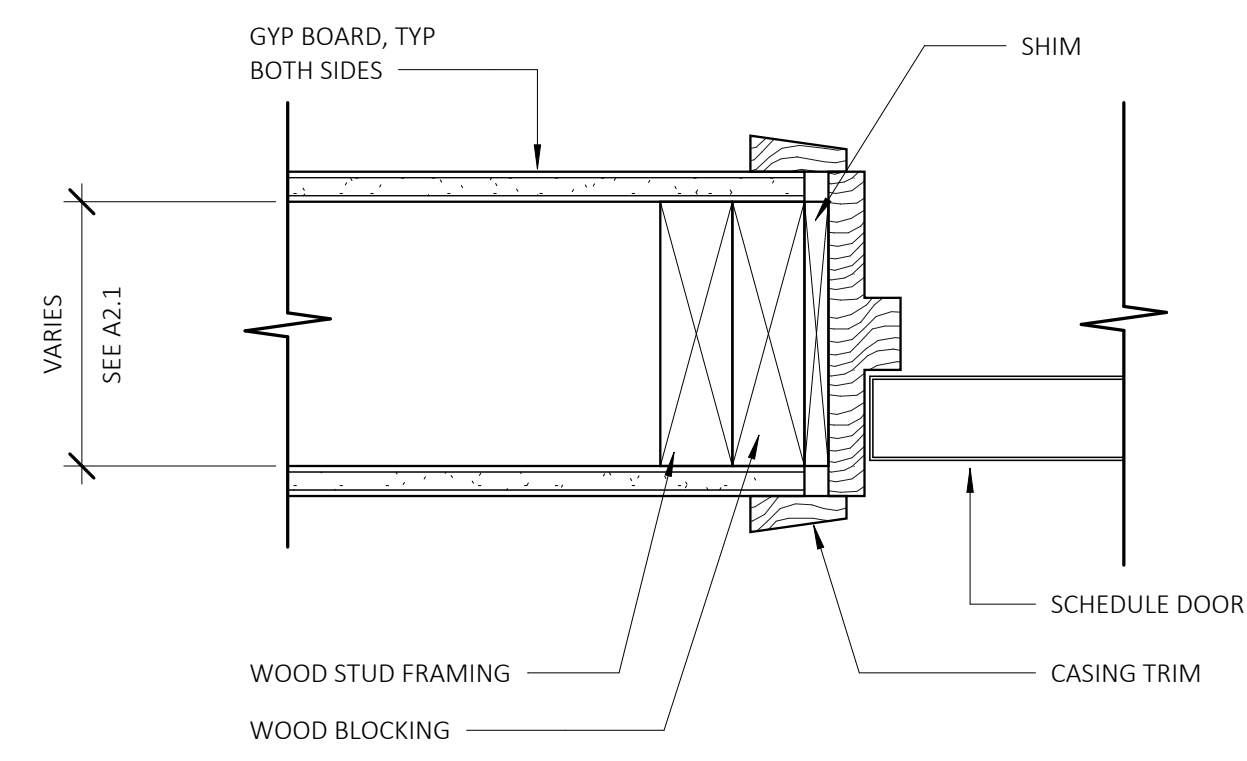


6 EAVE DETAIL - CZ 16
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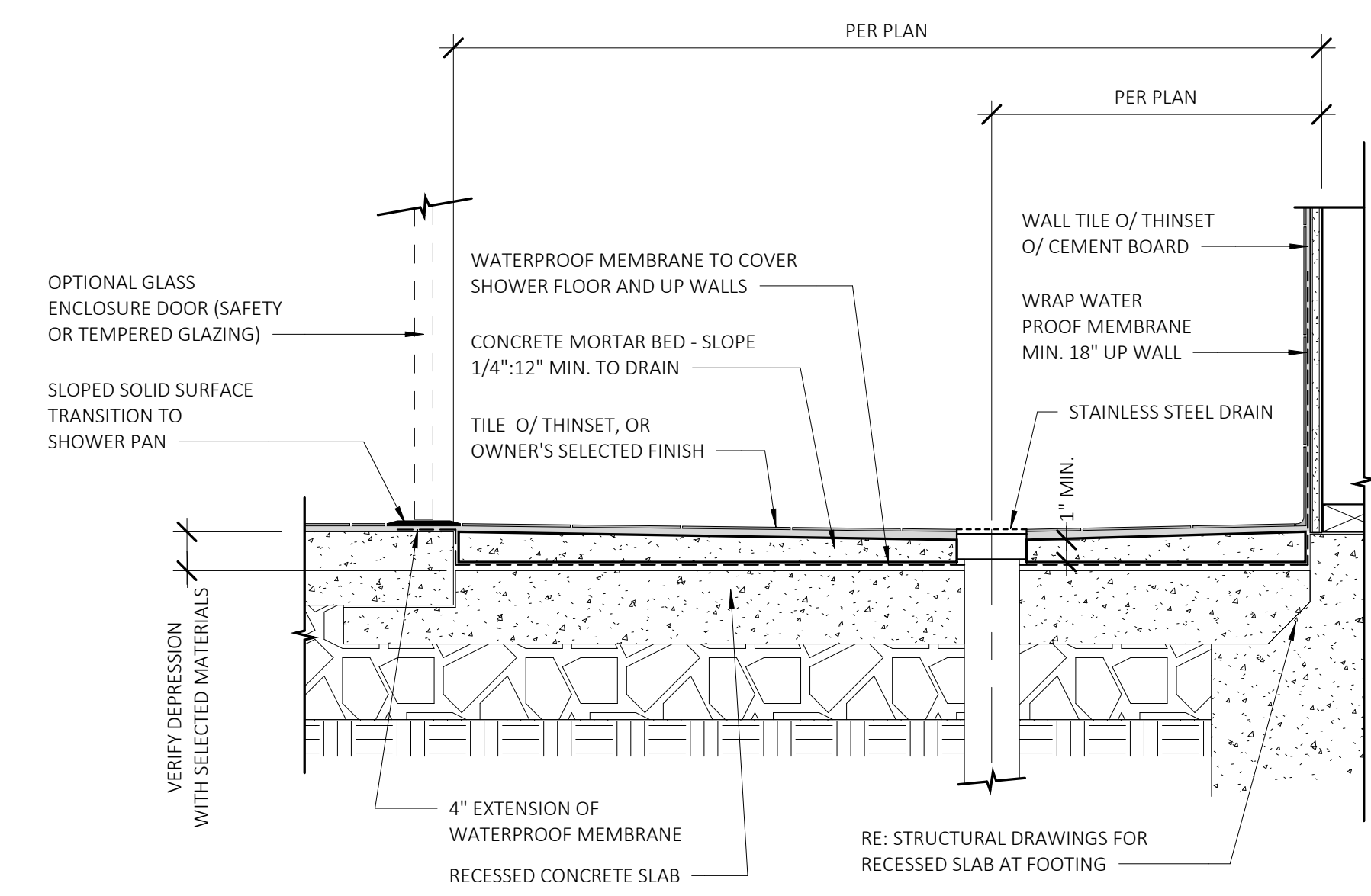
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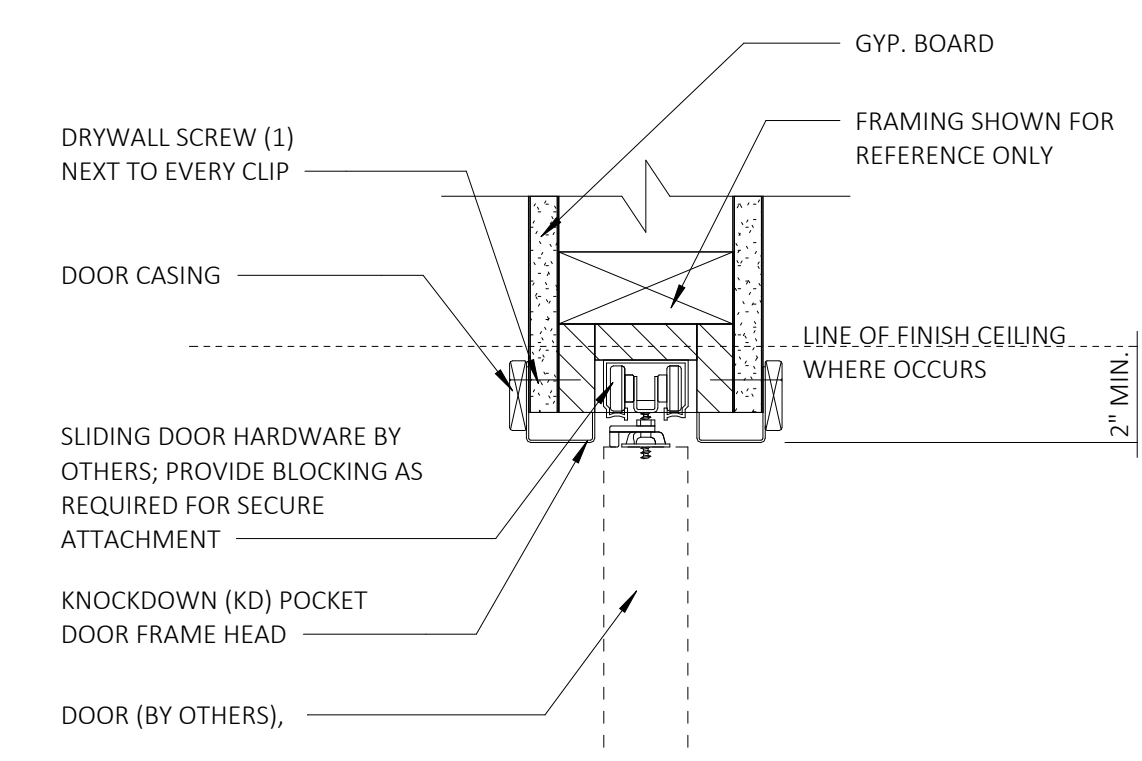
7 INTERIOR DOOR HEAD - PRE-HUNG FRAME
SCALE: 3" = 1'-0"



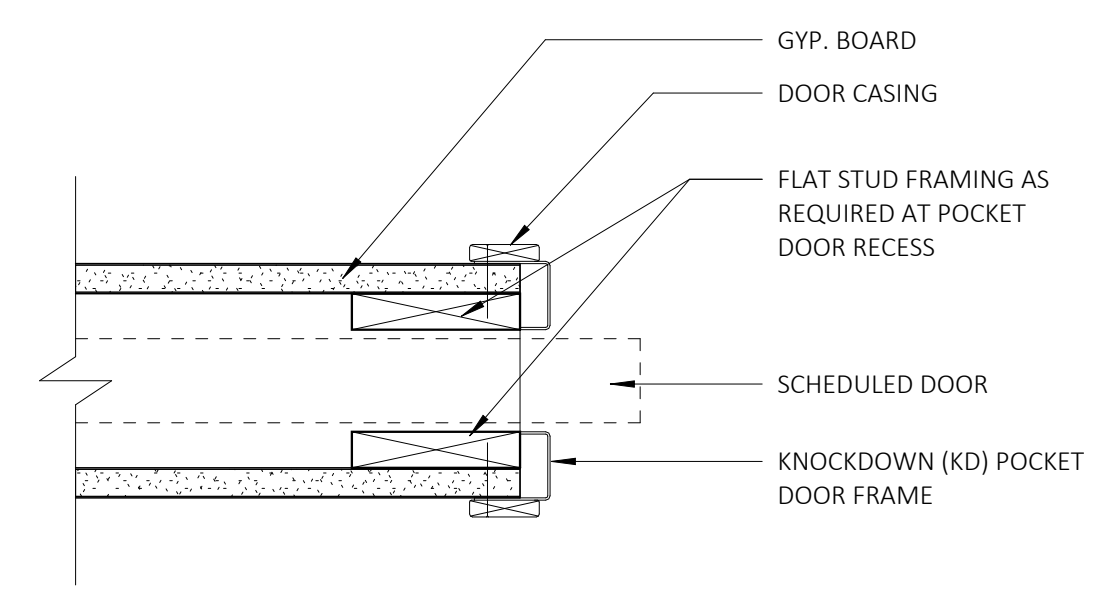
8 INTERIOR DOOR JAMB - PRE-HUNG FRAME
SCALE: 3" = 1'-0"



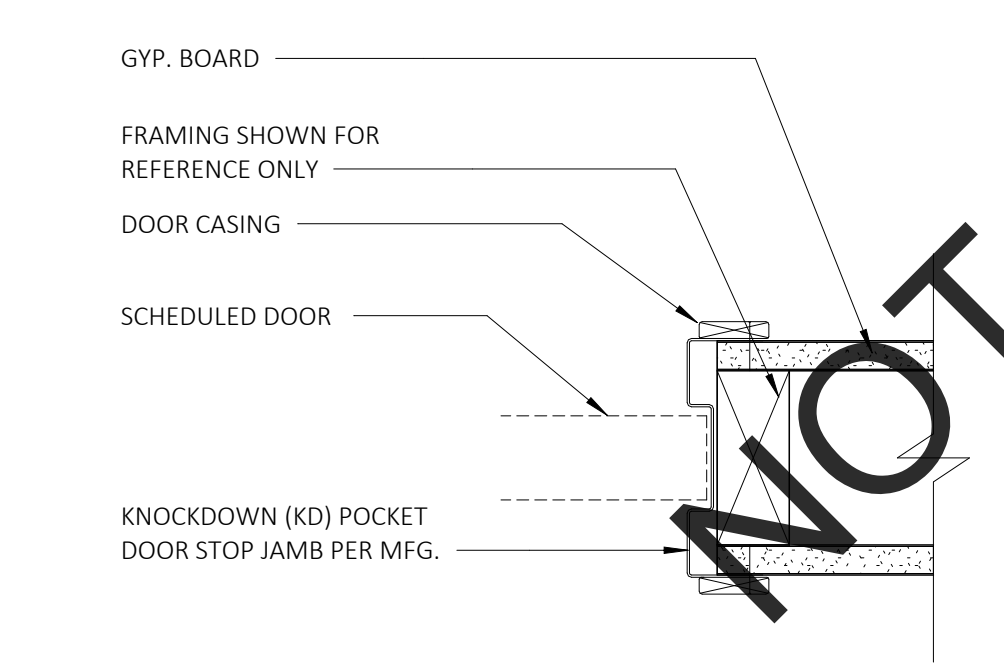
9 RECESSED SHOWER DETAIL
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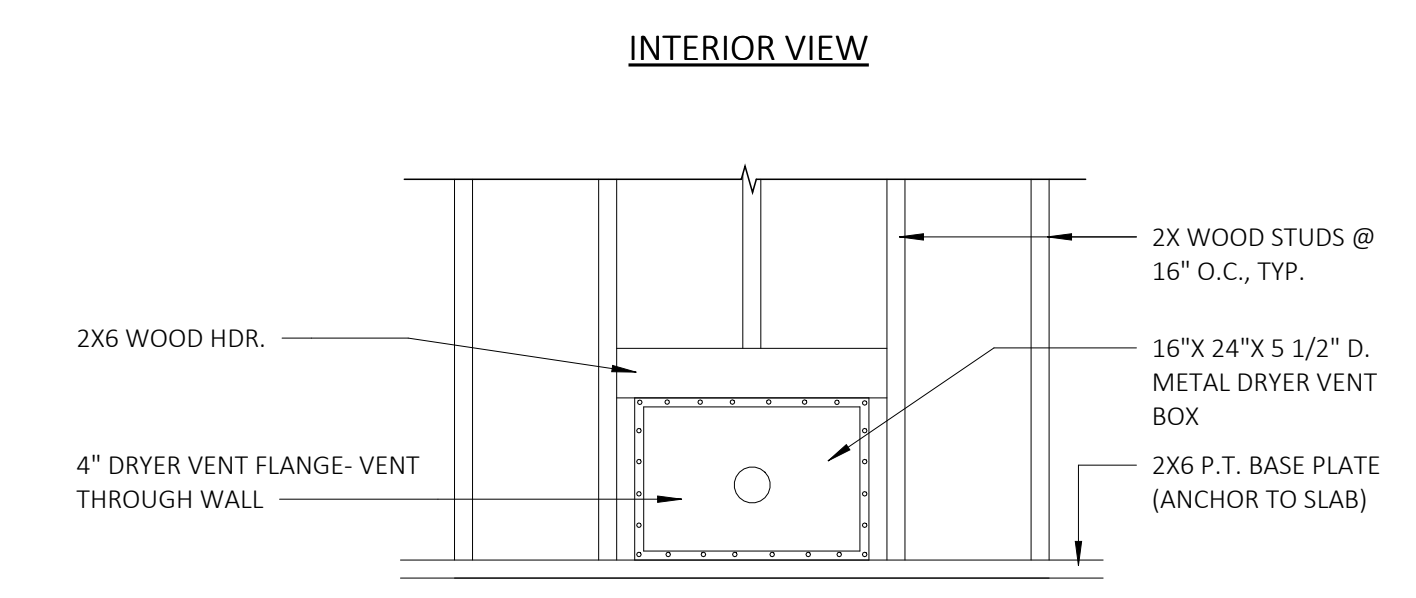
4 INTERIOR POCKET DOOR HEAD
SCALE: 3" = 1'-0"



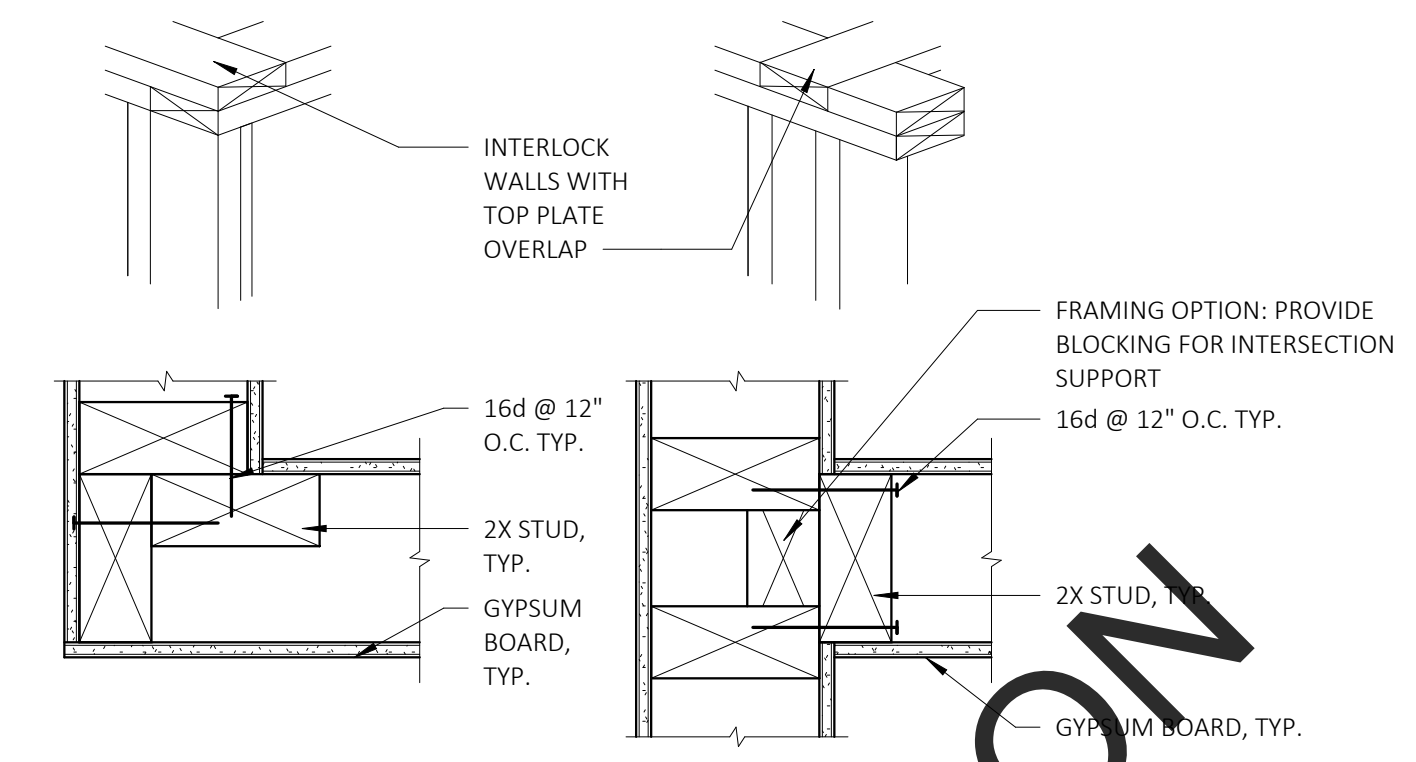
5 INTERIOR POCKET DOOR JAMB
SCALE: 3" = 1'-0"



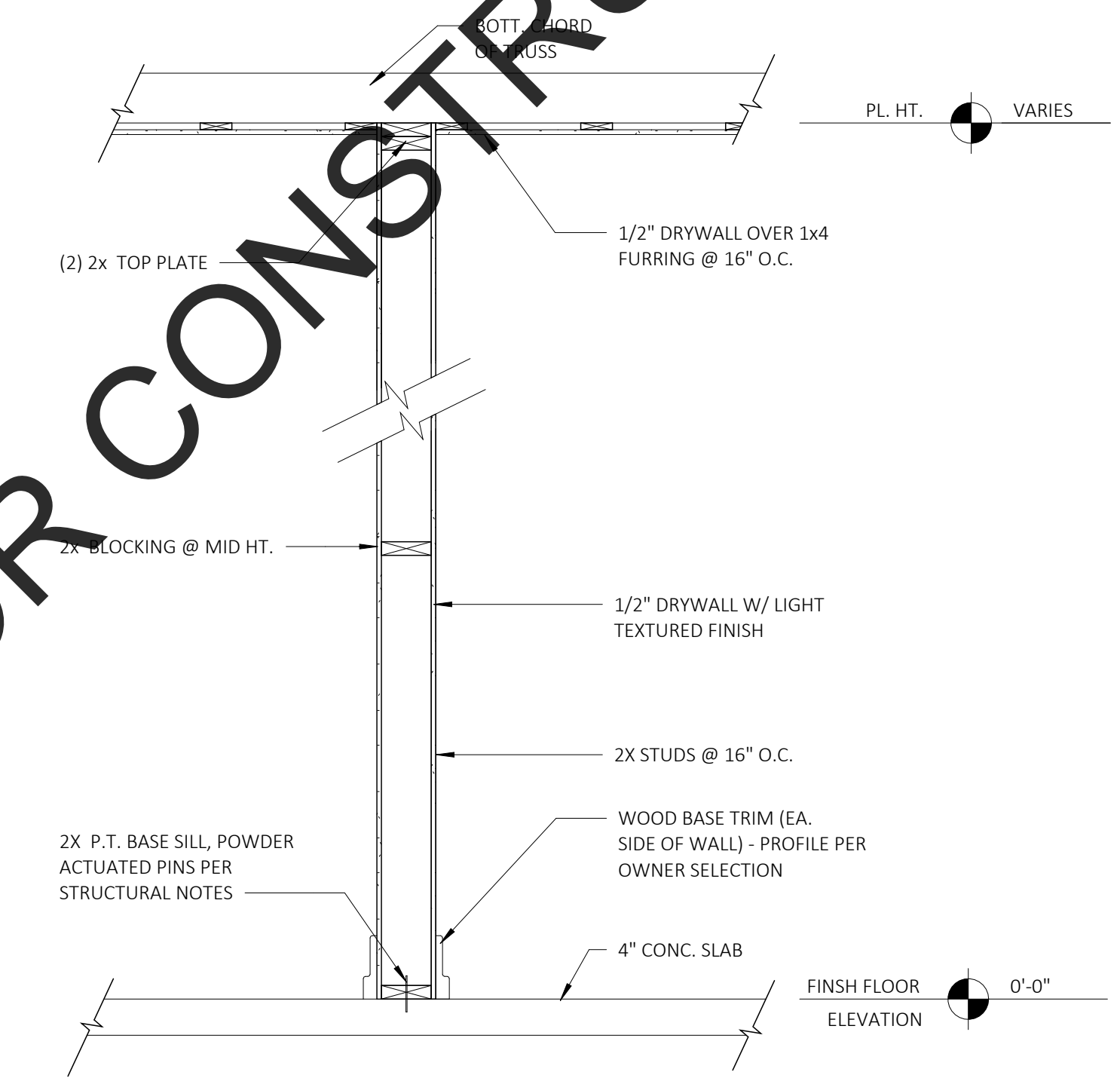
6 INTERIOR POCKET DOOR STOP
SCALE: 3" = 1'-0"



1 DRYER VENT DETAIL
SCALE: 3/4" = 1'-0"



2 CORNER FRAMING DETAIL
SCALE: 3" = 1'-0"



3 TYPICAL INTERIOR PARTITION SECTION
SCALE: 3/4" = 1'-0"

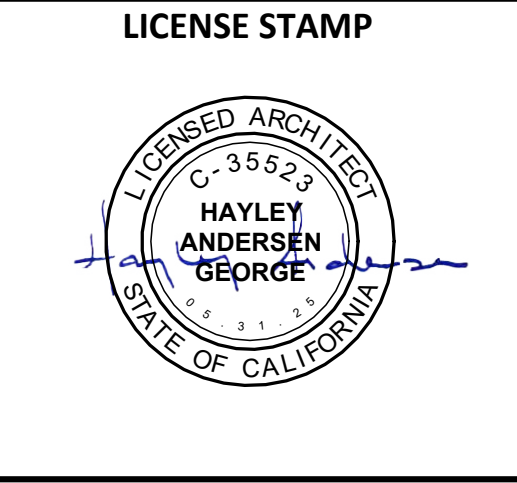


PROJECT

SHASTA COUNTY PRE-APPROVED ADUS
ADU 2 - CASTELLA MODERN

REVISIONS

DATE	DESCRIPTION



CONSULTANT

AGENCY APPROVAL

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PROJ ARCH: HMA
SET ISSUE DATE: 8/7/2023

INTERIOR DETAILS
A7.1

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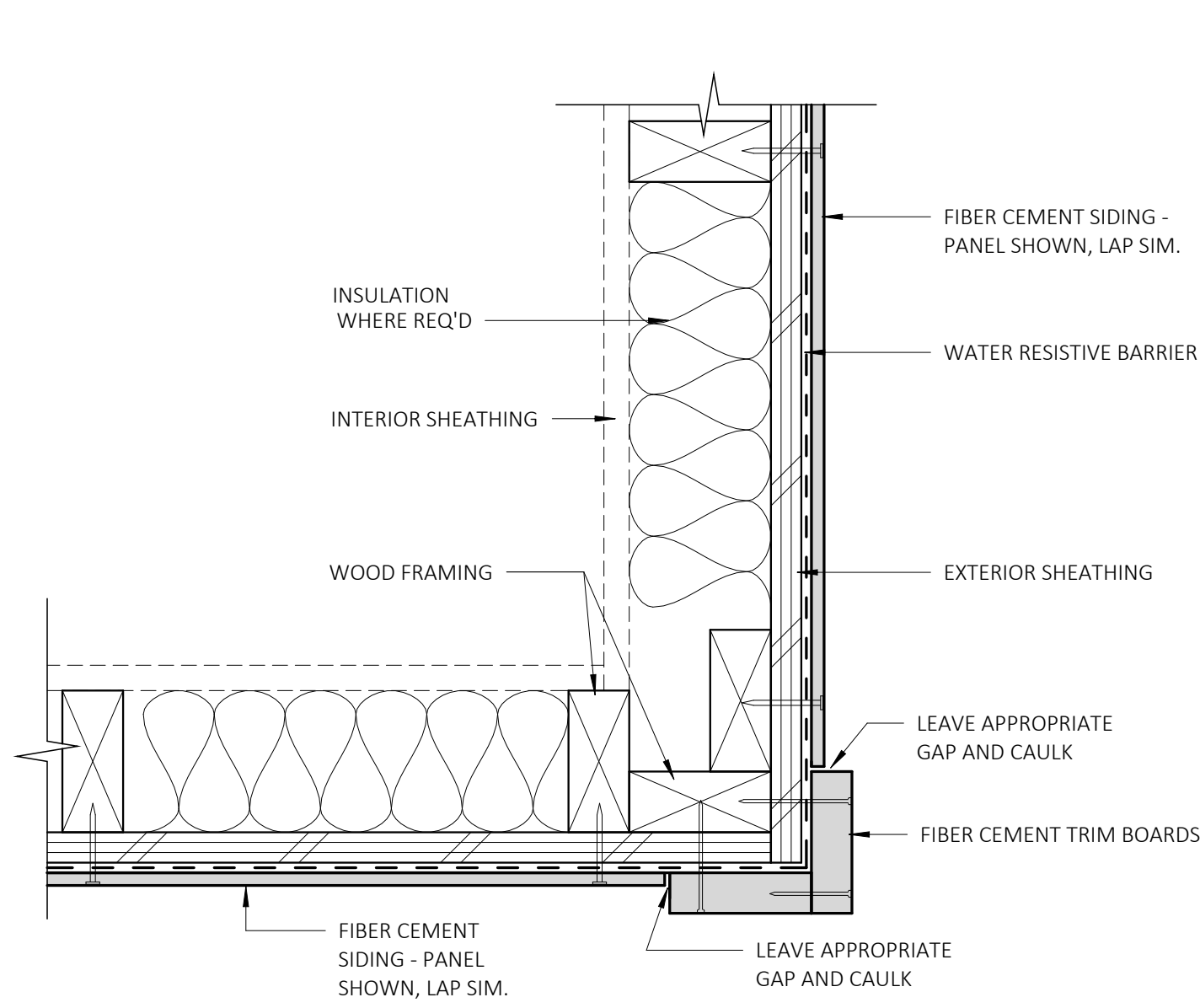
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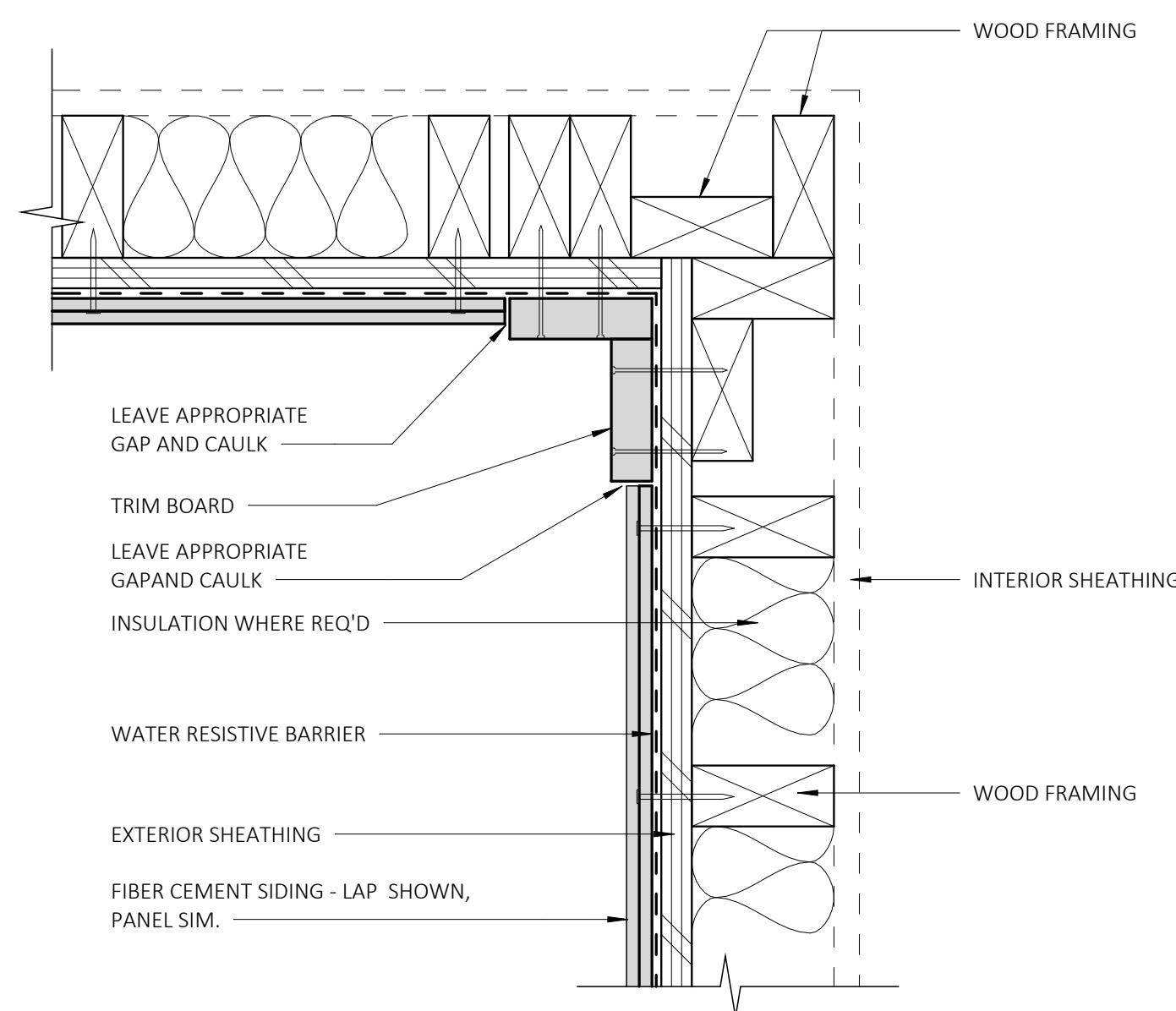
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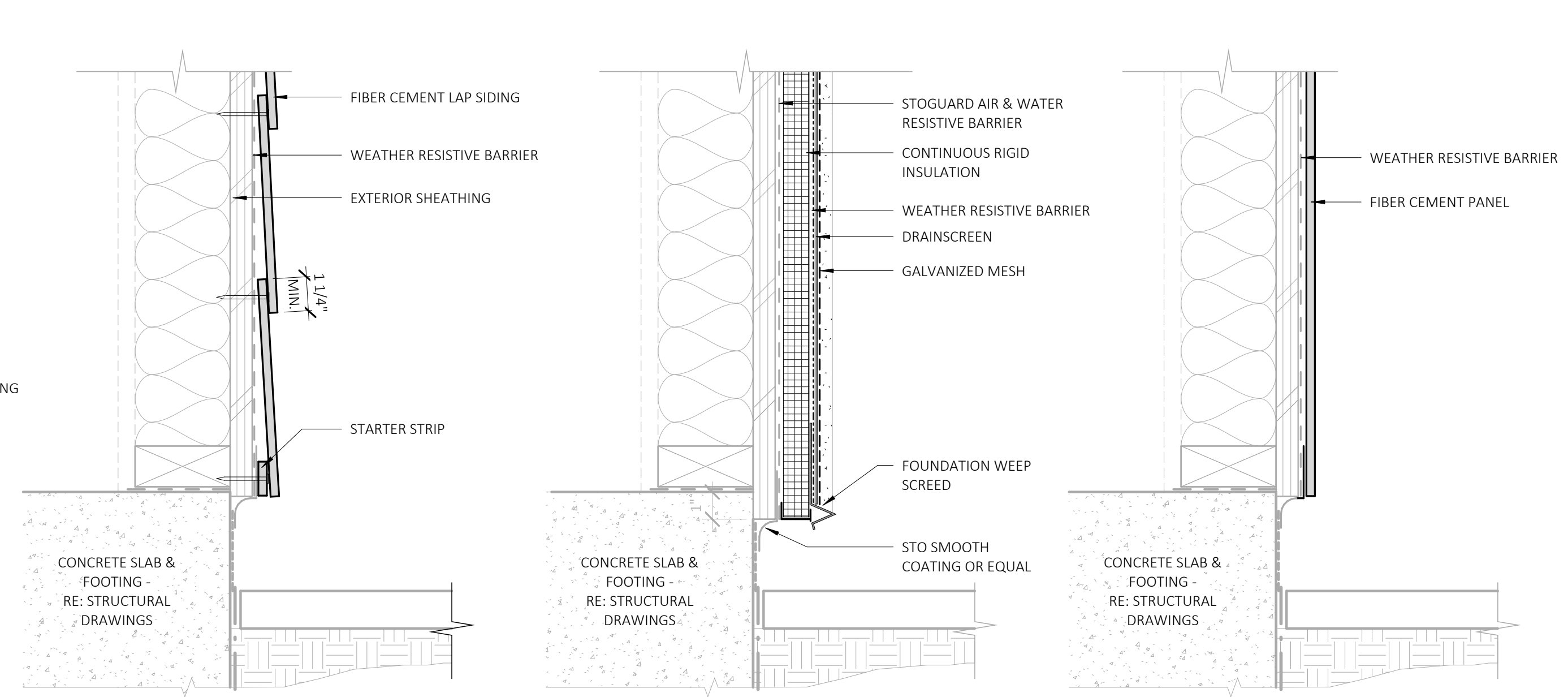
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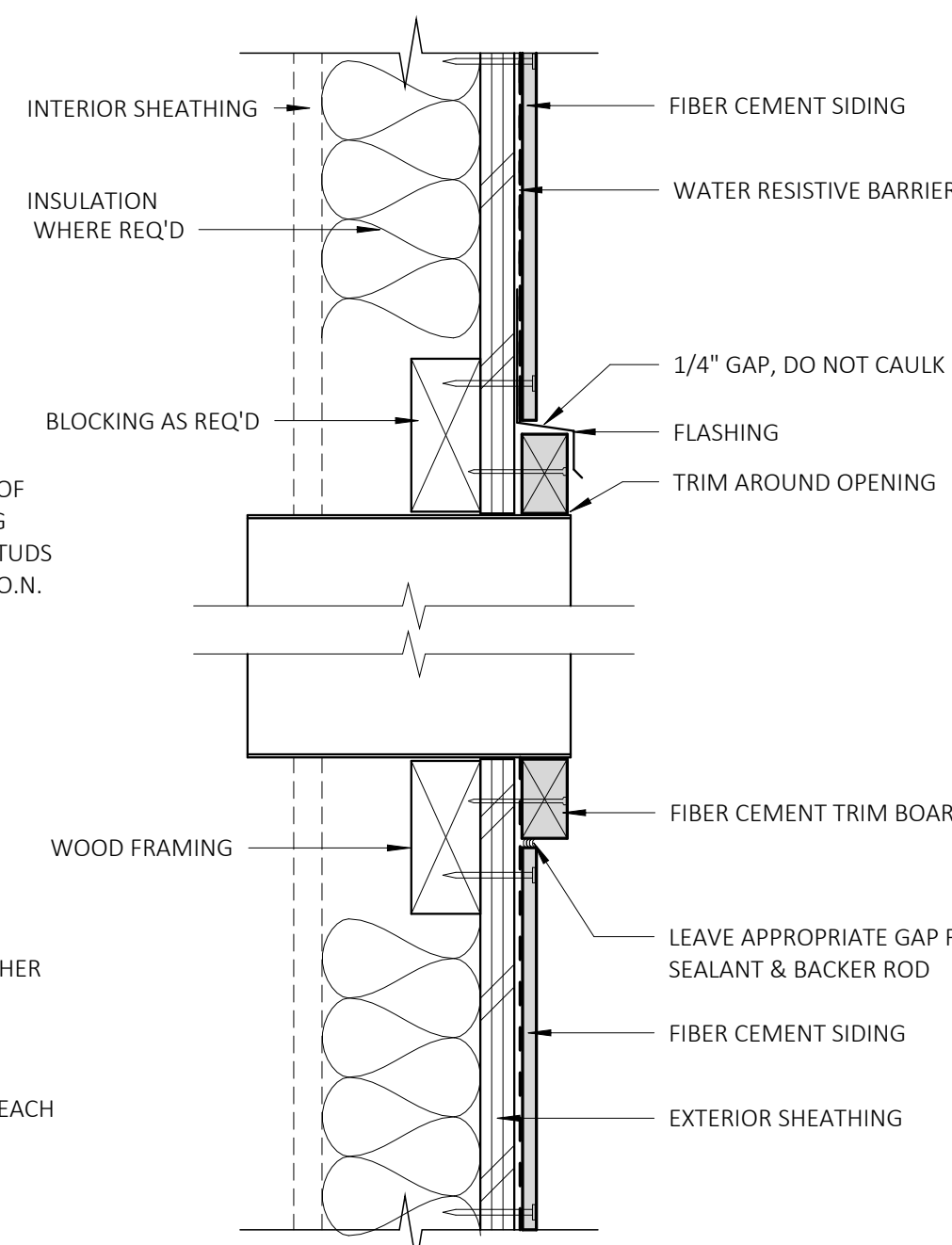
5 FIBER CEMENT SIDING OUTSIDE CORNER
 SCALE: 3" = 1'-0"



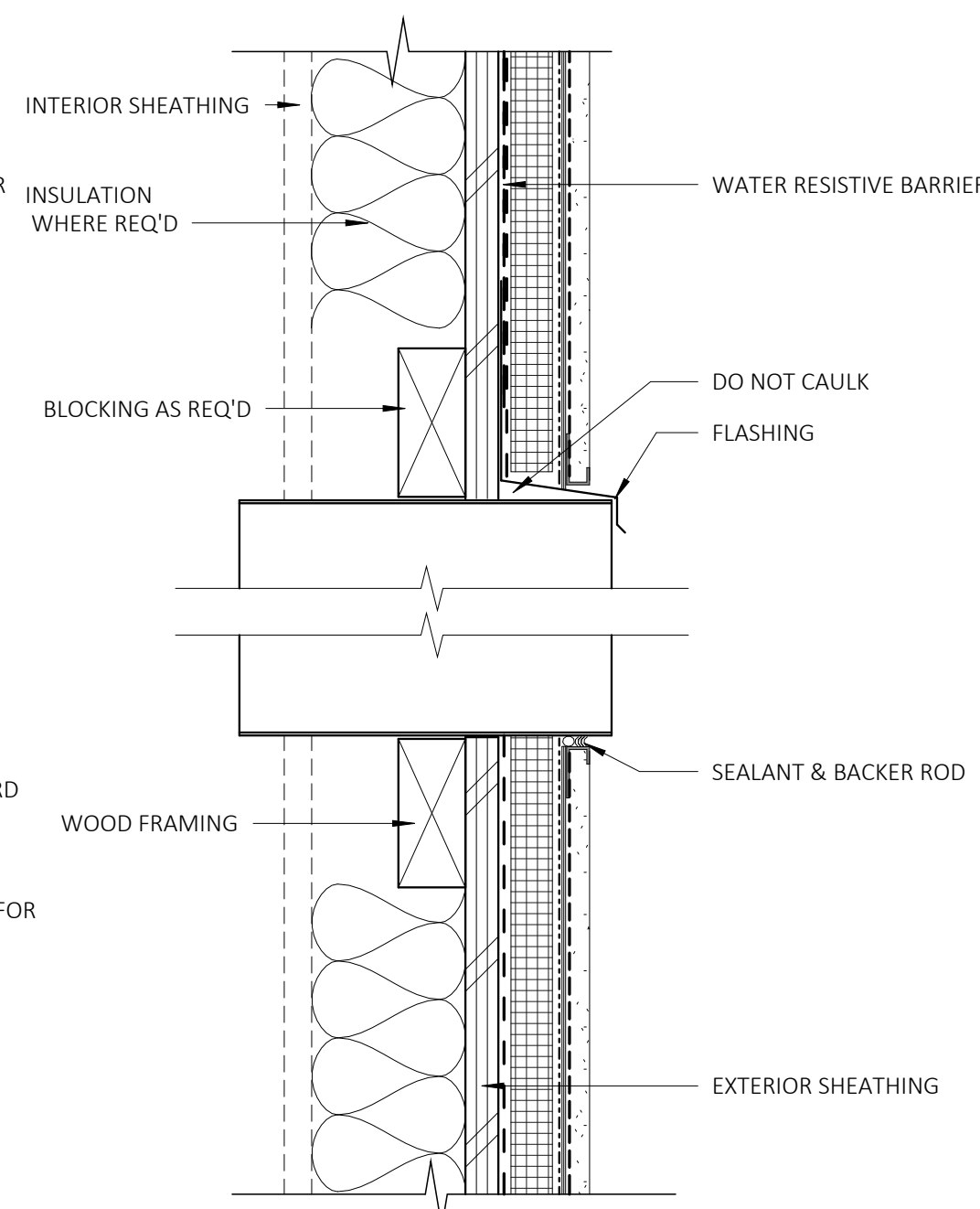
3 FIBER CEMENT LAP SIDING - INSIDE CORNER
 SCALE: 3" = 1'-0"



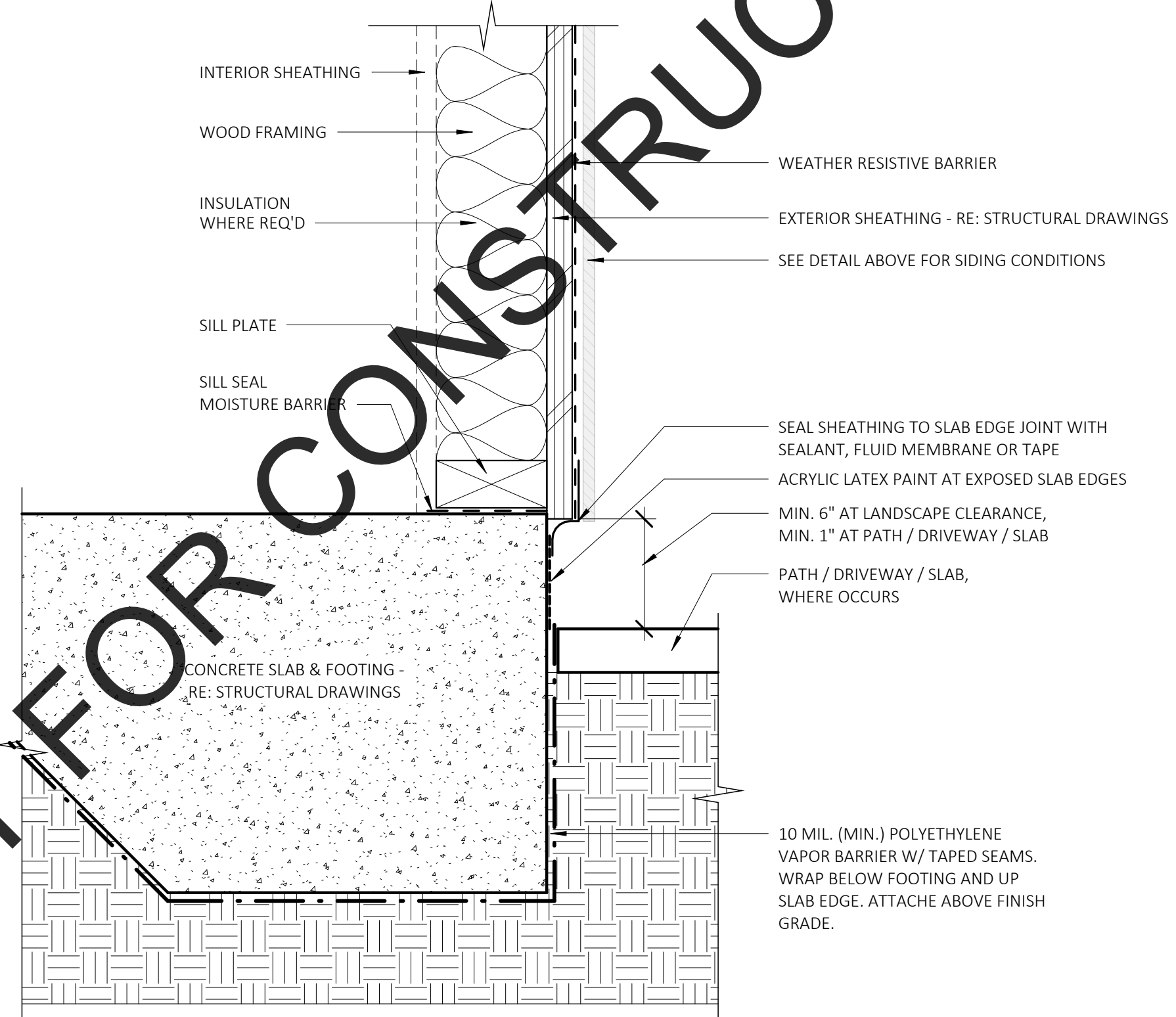
1 SIDING OPTIONS @ SILL
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OPTION 1: (OPTION 3 SIM.) FIBER CEMENT LAP SIDING
 HARDIE LAP SIDING OR EQUAL
 SFM APPROVED FOR WUI

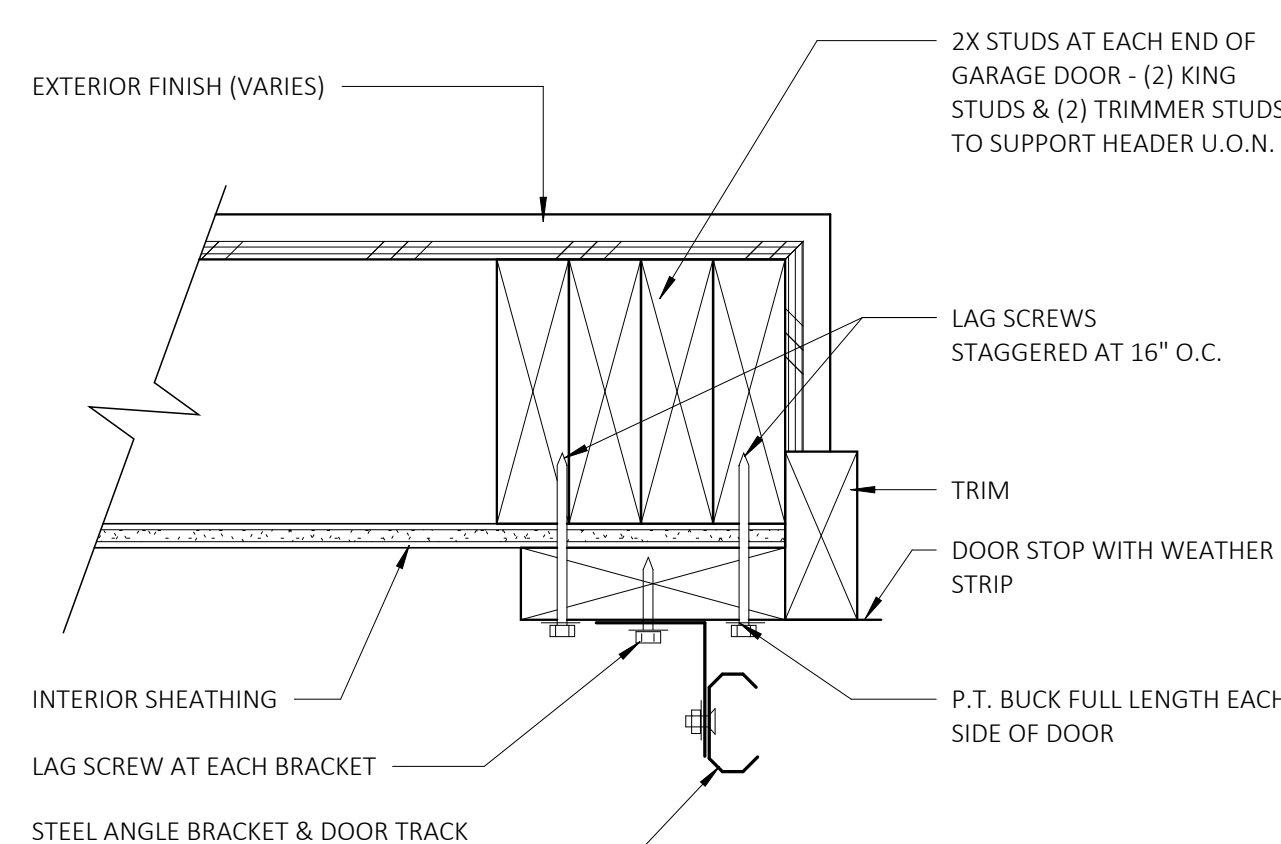


OPTION 2: CEMENT PLASTER
 STO POWERWALL CI SYSTEM OR EQUAL
 SFM APPROVED FOR WUI



2 SILL CONDITION
 SCALE: 3" = 1'-0"

NOT FOR CONSTRUCTION



6 GARAGE DOOR BUCK DETAIL
 SCALE: 3" = 1'-0"

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GENERAL NOTES

- ALL CONSTRUCTION SHALL COMPLY WITH THE CURRENTLY ACCEPTED EDITION OF THE CALIFORNIA BUILDING CODE (CBC) AND CBC STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION AND SHALL PROVIDE ADEQUATE SHORING AND BRACING DURING CONSTRUCTION. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS.
- DETAILS NOT SPECIFICALLY SHOWN SHALL BE SIMILAR TO DETAILS FOR SIMILAR CONSTRUCTION SHOWN ON PLAN.
- TYPICAL DETAILS SHALL APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- ALL PREFABRICATED CONNECTING HARDWARE SPECIFIED IS SIMPSON PRODUCTS OR APPROVED EQUAL SUCH AS USB. INSTALL PER MANUFACTURERS SPECIFICATIONS FOR MAX LOADING.
- THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF HUMMER CONSULTING ENGINEERING AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK AFFECTED.
- NO STRUCTURAL MEMBERS SHALL BE CUT, NOTCHED, OR OTHERWISE PENETRATED UNLESS SPECIFICALLY APPROVED BY THE ENGINEER IN ADVANCE OR AS SHOWN ON THESE DRAWINGS.
- PROVIDE OPENINGS, CURBS, FRAMING AND/OR SUPPORTS FOR ITEMS INDICATED ON ANY OF THESE DRAWINGS.
- DO NOT SCALE DRAWINGS. THESE DRAWINGS ARE NOT MEANT TO BE SCALED. CALL ENGINEER FOR ANY NEEDED CLARIFICATIONS.

DESIGN CRITERIA

- THE STRUCTURE HAS BEEN DESIGNED FOR THE FOLLOWING CRITERIA:
 - SEISMIC:
 - SEISMIC IMPORTANCE FACTOR: 1
 - MAPPED SPECTRAL RESPONSE ACCELERATIONS:
 - $S_s = 1.270, S_1 = 0.430$
 - SEISMIC SITE CLASS: D
 - SEISMIC RESPONSE COEFFICIENTS:
 - $SDS = 1.020, SD1 = 0.650, Cs = 0.130$
 - SEISMIC DESIGN CATEGORY: D
 - BASIC SEISMIC FORCE RESISTING SYSTEM:
 - LIGHT FRAMED SHEAR WALLS
 - RESPONSE MODIFICATION FACTOR:
 - $R = 6.5$
 - ANALYSIS PROCEDURE:
 - EQUIVALENT STATIC FORCE PROCEDURE
 - WIND:
 - WIND SPEED: 94 MPH
 - WIND EXPOSURE: C
 - LIVE LOADS:
 - ROOF SNOW LOAD: 50 PSF
 - SITE SOIL:
 - BEARING CAPACITY: 1500 PSF

SITE WORK AND FOUNDATION

- FOUNDATION SOIL SHALL BE NATIVE UNDISTURBED SOIL OR ENGINEERED FILL AS PER THE PROJECT SOILS REPORT WHERE APPLICABLE. ALL ENGINEERED FILL SHALL BE SPECIAL INSPECTED AND A PAD CERTIFICATION FROM THE TESTING AGENCY SHALL BE PROVIDED.
- IF NO GEOTECHNICAL REPORT WAS PROVIDED, DESIGN IS BASED ON LOCAL JURISDICTION ALLOWABLES AND RECOMMENDATIONS.
- GRADING SHALL BE PROVIDED TO ACCOMPLISH A 5% SLOPE AWAY FROM STRUCTURE FOR A MINIMUM OF 10'.
- NO UTILITY TRENCHES SHALL BE ALLOWED NEAR THE BUILDING TRENCHES WHICH EXTEND DEEPER THAN A 45 DEGREE LINE PROJECTED DOWN AND AWAY FROM THE BOTTOM OUTSIDE CORNER OF ANY FOOTING.
- PLACE 20" REBAR IN FOUNDATION AND STUB UP ABOVE FINISHED CONCRETE AT POWER METER LOCATION.

CONCRETE

- THE MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 2500 PSI PER CBC.
- ALL CEMENT USED SHALL CONFORM TO ASTM C-150 STANDARDS.
- HORIZONTAL REINFORCING (FOOTING AND STEM WALL); MIN. (1) #4 REBAR 2" BELOW TOP OF STEM WALL AND 3" CLEAR ABOVE BOTTOM OF THE FOOTING AND AT 18" O.C. MAXIMUM HORIZONTAL SPACING.
- CONCRETE SLABS SHALL BE A MINIMUM OF 3.5" THICK PER CBC. SLABS UNDER LIVING AREAS AND IN GARAGE SHALL BE REINFORCED WITH REINFORCING BAR OR WIRE MESH. PROVIDE WATERPROOF MEMBRANE BETWEEN SLAB AND ROCK BASE AT ALL LIVING AREAS OR AS RECOMMENDED BY SOILS REPORT.
- FINE AND COARSE AGGREGATE SHALL CONFORM TO ASTM C-33 FOR STANDARD WEIGHT CONCRETE AND ASTM C-330 FOR LIGHT WEIGHT CONCRETE.
- DRY PACK SHALL BE COMPOSED OF ONE PART PORTLAND CEMENT TO NOT MORE THAN THREE PARTS SAND.
- CONCRETE SHALL BE CURED BY KEEPING CONTINUOUSLY WET FOR 10 DAYS OR BY AN APPROVED CURING COMPOUND.
- REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR MISCELLANEOUS ITEMS TO BE CAST INTO CONCRETE AND FLOOR DEPRESSIONS, ETC.
- SEE ARCHITECTURAL PLANS FOR LOCATIONS OF EXPANSION JOINTS, SCORING, ETC. FOR CONCRETE WALKS, SLABS, AND OTHER FLAT WORK.
- CONCRETE FOR SLAB ON GRADE SHALL HAVE A MAXIMUM OF 4" SLUMP PER ASTM C-134. 5 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE. CEMENT TO BE PER ASTM C-150 TYPE 1 OR TYPE 2.

HOLD-DOWNS

- ALL HOLD-DOWNS ARE SIMPSON STRONG-TIE OR EQUIVALENT. LOCATION OF HOLD-DOWNS ON PLAN ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE ACTUAL LOCATIONS BASED ON THE LENGTH OF SHEAR WALLS, TYPE OF HOLD-DOWN AND THE MANUFACTURERS RECOMMENDED INSTALLATION.
- ALL HOLD-DOWNS ARE TO BE INSTALLED IN PLACE PRIOR TO POURING CONCRETE.

REINFORCING STEEL

- ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 40 FOR #4 BARS AND SMALLER. ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60 FOR #5 BARS AND LARGER. WELDED EIRE FABRIC IS TO BE ASTM A185 WITH LAPPING OF 1 1/2 SPACES.
- ALL BARS SHALL BE DEFORMED PER ASTM A305.
- ALL BARS SHALL BE CLEAN AND FREE OF LOOSE FLAKY RUST, GREASE OR OTHER BOND IMPAIRING MATERIALS.
- ALL BENDS SHALL BE MADE COLD.
- SPLICING OF BARS IN CONCRETE SHALL HAVE LAPPING OF 30 BAR DIAMETERS OR 24" WHICH EVER IS GREATER. SPLICING OF BARS IN MASONRY SHALL HAVE LAPPING OF 40 BAR DIAMETERS OR 24" WHICH EVER IS GREATER.
- ALL BARS SHALL BE ACCURATELY AND SECURELY PLACED BEFORE POURING CONCRETE. NO WET SETTING WILL BE ALLOWED.

ANCHOR BOLTS

- TYPICAL SIZE AND SPACING SHALL BE 1/2" Ø WITH A MINIMUM OF 7" EMBED INTO THE FIRST CONCRETE POUR. BOLTS SHALL BE SPACED AT 72" O.C. MAX FOR SINGLE STORY AND 48" O.C. MAX FOR TWO STORY BUILDINGS.
- PLATE WASHERS A MINIMUM SIZE OF 3"x3"x0.229" SHALL BE USED ON EA. BOLT.
- FOUNDATION SILL SHALL BE BOLTED TO THE FOUNDATION OR FOUNDATION WALL AT ALL HOUSE AND GARAGE PERIMETER WALLS AND AT ALL INTERIOR SHEAR WALLS.
- FOUNDATION SILL AT INTERIOR NON-SHEAR WALLS MAY USE SHOT PINS FOR CONNECTION TO SLAB. SHOT PINS MUST BE 0.140" SHANK DIAMETER WITH 0.300" HEAD DIAMETER AND WASHER AND A MINIMUM OF 2.5" LONG.
- ALL SILL PLATES MUST HAVE A MINIMUM OF ONE ANCHOR BOLT WITHIN 12" OF EACH END, OR TWO BOLTS BETWEEN HOLD-DOWNS.
- AS A REPAIR FOR MISPLACED OR MISSING ANCHOR BOLTS SIMPSON TITEN HD (THD50600H) CONCRETE SCREW ANCHOR MAY BE USED. INSTALL ANCHORS PER MANUFACTURERS SPECIFICATIONS.

TYPICAL LUMBER GRADES

- 2X, 4X BEAMS, HEADERS AND POSTS DF#2 OR BETTER.
- 6X BEAMS, HEADERS AND POSTS DF#1 OR BETTER.
- 2X JOISTS AND RAFTERS DF#2 OR BETTER.
- 2X STUDS 10' MAX HEIGHT DF#3 OR BETTER.
- 2X4 STUDS 14' NONBEARING DF#2 OR BETTER.
- 2X6 STUDS 15' MAX HEIGHT STUD GRADE OR BETTER.
- 2X6 STUDS 20' NONBEARING DF#2 OR BETTER.
- GLUE LAMINATED BEAMS 24F-V4 WITH 2000' RADIUS.
- PARALLEL STRAND LUMBER (PSL)
 - Fb=2900 PSI Fv=290 PSI E=2.0X10⁶ PSI
- LAMINATED STRAND LUMBER (LVL)
 - Fb=2600 PSI Fv=285 PSI E=1.8X10⁶ PSI
- ROOF PLY. TO BE 15/32" CDX (32/16) OR 7/16" (40/20) OSB STAGGER JOINTS & RUN PERPENDICULAR TO ROOF FRAMING. NAIL WITH 8d's 6" O.C. @ EDGES AND BOUNDARY 12" O.C. FIELD UNO. IF OSB IS USED, TERMINATE @ EAVES AND SHEATH EAVES IN EXTERIOR RATED PLYWOOD.
- FLOOR PLY. TO BE 3/4" T/G (48/24) OR EQUIVALENT OSB STAGGER JOINTS & RUN PERPENDICULAR TO FLOOR FRAMING. GLUE AND FASTEN WITH 8d's O.C. @ EDGES AND BOUNDARY, 12" O.C. FIELD UNO.

MANUFACTURED WOOD TRUSS

- DESIGN AND FABRICATION SHALL BE PER CBC STANDARDS AND ALL ICBO RESEARCH REPORTS.
- INCREASES IN ALLOWABLE STRESSES FOR ASSEMBLIES OF REPETITIVE FRAMING SHALL NOT BE ALLOWED.
- WHERE TRUSSES ARE INSTALLED AS BLOCKING, TRUSSES MUST BE DESIGNED TO TRANSMIT DIRECT AXIAL WALL LOADS.
- PROVIDE TRUSS DRAWINGS SHOWING TRUSSES, REQUIRED BLOCKING, BRACING AND HANGERS. CALCULATIONS WITH SIGNATURE OF RESPONSIBLE LICENSED ENGINEER ON ALL PAGES.
- INSTALL TRUSSES PER MANUFACTURERS RECOMMENDATIONS AND THESE DRAWINGS.
- ALL GABLE END TRUSSES SHALL BE STRUCTURAL TRUSSES WITH INFILL.
- ALL LATERAL WEB BRACING IS REQUIRED TO TERMINATE AT AN EXTERIOR BEARING WALL.
- DO NOT ATTACH TRUSSES TO NONBEARING WALLS UNLESS USING SIMPSON STC CLIPS, UNLESS NOTED OTHERWISE ON PLAN.
- IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY SITE DIMENSIONS TO THOSE OF THE TRUSS CALCULATIONS PRIOR TO ORDERING TRUSSES FOR THE PROJECT.

TYP. SHEAR WALL NOTES

- WHEN T-1-11 SIDING IS USED FOR SHEAR PLY. INSTALL DOUBLE STUDS STITCH NAILED W/ 16d's @ 12" O.C. OR 3X MEMBER AT ALL PANEL JOINTS AND EDGE NAIL EACH PANEL AT JOINTS.
- 8d COMMON OR HOT DIPPED GALVANIZED NAILS TO BE (2 1/2" X 0.1331")
- ALL NAILS FASTENED TO PRESSURE TREATED LUMBER TO BE HOT DIPPED GALVANIZED.
- FOR SHEAR WALL TYPE D & E, FOUNDATION SILL PLATES AND ALL FRAMING RECEIVING EDGE NAILING FROM ABUTTING PANELS SHALL NOT BE LESS THAN A SINGLE 3x MEMBER. NAILING TO 3x MEMBERS SHALL BE STAGGERED.

LUMBER AND CARPENTRY

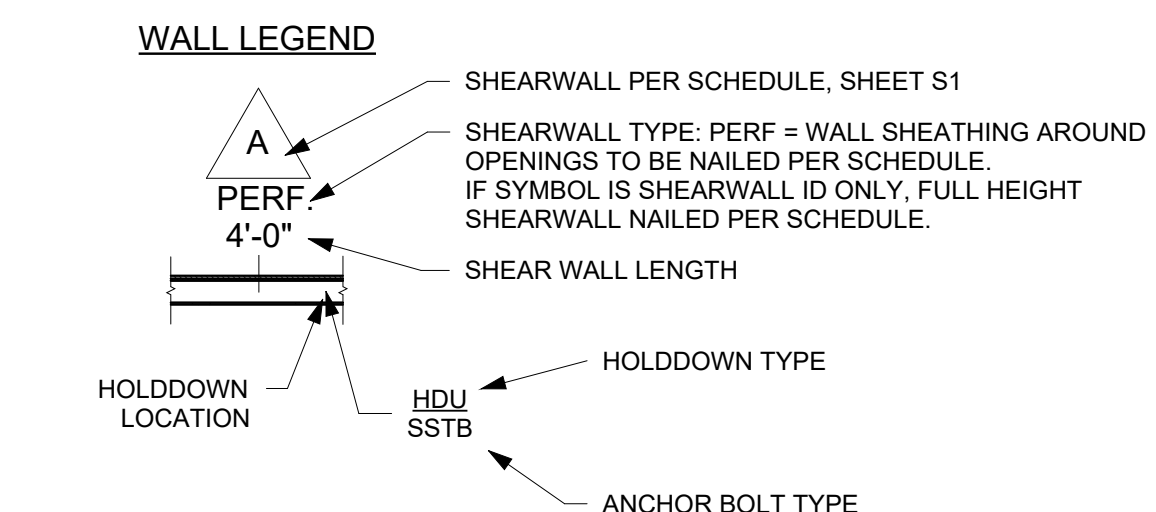
- ALL STRUCTURAL LUMBER SHALL BE GRADED IN ACCORDANCE WITH THE STANDARD GRADING RULES NO. 16 FOR WEST COAST LUMBER AND SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19%.
- ALL STRUCTURAL PLYWOOD SHALL BE STRUCTURAL II OR C-D GRADE WITH EXTERIOR GLUE UNLESS NOTED OTHERWISE ON THE ARCHITECTURAL PLANS.
- STRUCTURAL PLYWOOD MAY BE SUBSTITUTED WITH AN EQUIVALENT APA RATED ORIENTED STRAND BOARD (OSB).
- ALL WOOD BEARING ON CONCRETE OR MASONRY SHALL BE PRESSURE TREATED DOUGLAS FIR, REDWOOD OR OTHER APPROVED DECAY RESISTANT MATERIAL.
- STRUCTURAL MEMBERS SHALL NOT BE CUT OR NOTCHED UNLESS SPECIFICALLY NOTED OR DETAILED OR IS IN ACCORDANCE WITH THE CBC. SOLID BLOCKING SHALL BE PLACED BETWEEN JOISTS OR RAFTERS AT ALL SUPPORTS, EXCEPT WHEN LEDGERED.
- ALL NAILING TO BE PER CBC TABLE 2304.10.1, UNLESS OTHERWISE NOTED.
- PLYWOOD FLOOR AND ROOF SHEATHING SHALL BE LAID CONTINUOUS OVER TWO OR MORE SPANS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. STAGGER ALL PLYWOOD PANELS A MINIMUM OF 4'.
- FRAMING CONTRACTOR SHALL PROVIDE BACKING AS REQUIRED FOR ALL LIGHT FIXTURES CABINETS, WARDROBES, TOWEL BARS, HANDRAILS, ETC. AS REQUIRED AND REQUESTED BY THE GENERAL CONTRACTOR.
- PROVIDE A 2X4 HEADER FOR ALL INTERIOR NONBEARING OPENINGS UP TO 36" IN WIDTH. PROVIDE A 4X4 HEADER FOR ALL INTERIOR NONBEARING OPENINGS 3' TO 6' IN WIDTH. USE A 4X6 HEADER FOR OPENINGS GREATER THAN 6'.
- PROVIDE SOLID BLOCKING FOR ALL FRAMING MEMBERS AT ALL SUPPORTS.
- BOLTS FOR TIMBER CONNECTIONS SHALL BE ASTM A307 MACHINE BOLTS UNLESS OTHERWISE NOTED. BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION. BOLT HOLES SHALL BE 1/16" SMALLER THAN THE BOLT DIAMETER.
- HOLES FOR LAG SCREW SHANK SHALL BE THE SAME DIAMETER AND LENGTH AS THE SHANK. THE REMAINING DEPTH OF THE PENETRATION SHALL BE 70% OF THE SHANK DIAMETER.
- PROVIDE MALLEABLE IRON WASHERS OR CUT PLATE WASHERS UNDER NUTS AND BOLT OR LAG SCREW HEADS THAT BEAR ON WOOD.
- WHEN REQUIRED NAILING TENDS TO SPLIT WOOD PRE DRILL NAIL HOLES TO 75% OF THE NAIL SHANK DIAMETER.
- ALL BEAMS AND GIRDER TRUSSES TO BE SUPPORTED WITH FULL BEARING TO FOUNDATION UNLESS OTHERWISE NOTED.
- PROVIDE FURRING AS NECESSARY TO ALIGN NON-SHEAR WALLS WITH SHEAR WALLS AS REQUIRED.
- PROVIDE SOLID BLOCKING BETWEEN JOISTS AT BEARING WALLS AND AT SHEAR WALLS.
- EXCEPT WHERE PLANS SHOW SPECIFIC FRAMING ALL FRAMING SHALL COMPLY WITH THE CBC CHAPTER 23, CONVENTIONAL CONSTRUCTION PROVISIONS, AS A MINIMUM.

TYPICAL FRAMING NOTES

- ALL HEADERS @ INTERIOR BEARING WALLS & EXTERIOR WALLS ARE 4X12 OR 6X8 UNO.
- MULTIPLE 2X MEMBERS JOISTS, HEADERS AND BEAMS SHALL BE NAILED TOGETHER WITH 2 ROWS 16d's @ 12" O.C.
- WHERE RAKED WALLS OCCUR ALL STUDS SHALL BE BALLOON FRAMED TO BOTTOM CORD OF TRUSS, RAFTER, ROOF SHEATHING OR CEILING JOIST.
- PROVIDE SOLID BLOCKING IN FLOOR CAVITY UNDER STRUCTURAL POSTS. PROVIDE MATCHING POSTS EXTENDING TO SUPPORTING BEAM OR FOUNDATION BELOW.
- ALL METAL HARDWARE NOTED ON THE PLANS ARE PRODUCTS OF SIMPSON STRONG-TIE COMPANY, INC. OR EQUIVALENT.
- RAFTERS SHALL BE NAILED TO ADJACENT CEILING JOISTS TO FORM A CONTINUOUS TIE. WHERE RAFTERS ARE NOT PARALLEL TO JOISTS, RAFTERS SHALL BE TIED TO MIN. 1X4 CROSS TIES AT 48" O.C. MAX.
- WHERE GIRDER TRUSS OCCURS PROVIDED (2) 2X STUDS UNDER BEARING, UNLESS NOTED OTHERWISE.
- AT CALIFORNIA OVERFRAMING THE LOWER ROOF SHEATHING SHALL BE CONTINUOUS EXCEPT WHERE 22"x30" ACCESS IS REQ'D.
- ALL FASTENERS PENETRATING PRESSURE TREATED LUMBER TO BE HOT DIPPED GALVANIZED.
- SHEATHING NAILS OR OTHER APPROVED SHEATHING CONNECTORS SHALL BE DRIVEN SO THAT THEIR HEAD OR CROWN IS FLUSH WITH THE SURFACE OF THE SHEATHING IN ACCORDANCE WITH CBC2304.10.3.

SHEAR WALL SCHEDULE

A	WALL SYSTEM STRENGTH: 173 PLF SEISMIC 242 PLF WIND
	3/8" STRUCTURAL WOOD PANELS (BLOCKED) NAILING: 8d (COMMON OR HOT DIPPED GALVANIZED) 6" O.C. @ EDGES 12" O.C. @ FIELD 1/2" Ø ANCHOR BOLT SPACING 72" W/ 2X P.T. SILL SILL SHEAR TRANSFER NAILING 16d @ 6" O.C. (COMMON, BOX OR SINKER)
B	WALL SYSTEM STRENGTH: 260 PLF SEISMIC 364 PLF WIND
	3/8" STRUCTURAL WOOD PANELS (BLOCKED) NAILING: 8d (COMMON OR HOT DIPPED GALVANIZED) 6" O.C. @ EDGES 12" O.C. @ FIELD 1/2" Ø ANCHOR BOLT SPACING 48" W/ 2X P.T. SILL SILL SHEAR TRANSFER NAILING 16d @ 4" O.C. (COMMON, BOX OR SINKER)
C	WALL SYSTEM STRENGTH: 361 PLF SEISMIC 505 PLF WIND
	3/8" STRUCTURAL WOOD PANELS (BLOCKED) NAILING: 8d (COMMON OR HOT DIPPED GALVANIZED) 6" O.C. @ EDGES 12" O.C. @ FIELD 1/2" Ø ANCHOR BOLT SPACING 24" W/ 2X P.T. SILL SILL SHEAR TRANSFER NAILING 16d @ 3" O.C. (COMMON, BOX OR SINKER)
D	WALL SYSTEM STRENGTH: 520 PLF SEISMIC 743 PLF WIND
	3/8" STRUCTURAL WOOD PANELS (BLOCKED) NAILING: 8d (COMMON OR HOT DIPPED GALVANIZED) 4" O.C. @ EDGES 12" O.C. @ FIELD 1/2" Ø ANCHOR BOLT SPACING 16" W/ 3X P.T. SILL 5/8" Ø ANCHOR BOLT SPACING 24" W/ 3X P.T. SILL SILL SHEAR TRANSFER NAILING (2) ROWS 16d @ 4" O.C. (COMMON, BOX OR SINKER)
E	WALL SYSTEM STRENGTH: 960 PLF SEISMIC 1344 WIND
	3/8" STRUCTURAL WOOD PANELS (BLOCKED) (2) SIDES NAILING: 10d (COMMON OR HOT DIPPED GALVANIZED) 3" O.C. @ EDGES 12" O.C. @ FIELD 1/2" Ø ANCHOR BOLT SPACING 13" W/ 3X P.T. SILL 5/8" Ø ANCHOR BOLT SPACING 18" W/ 3X P.T. SILL SILL SHEAR TRANSFER NAILING (2) ROWS 16d @ 3" O.C. (COMMON, BOX OR SINKER)



PROJECT

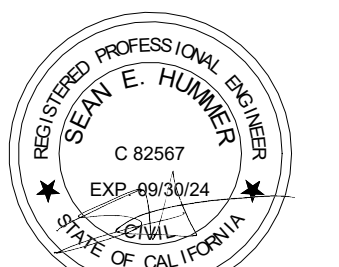


SHASTA COUNTY PRE-APPROVED
ADUS
ADU 2 - 50 PSF SNOW LOAD

REVISIONS

DATE	DESCRIPTION

LICENSE STAMP



CONSULTANT



AGENCY APPROVAL

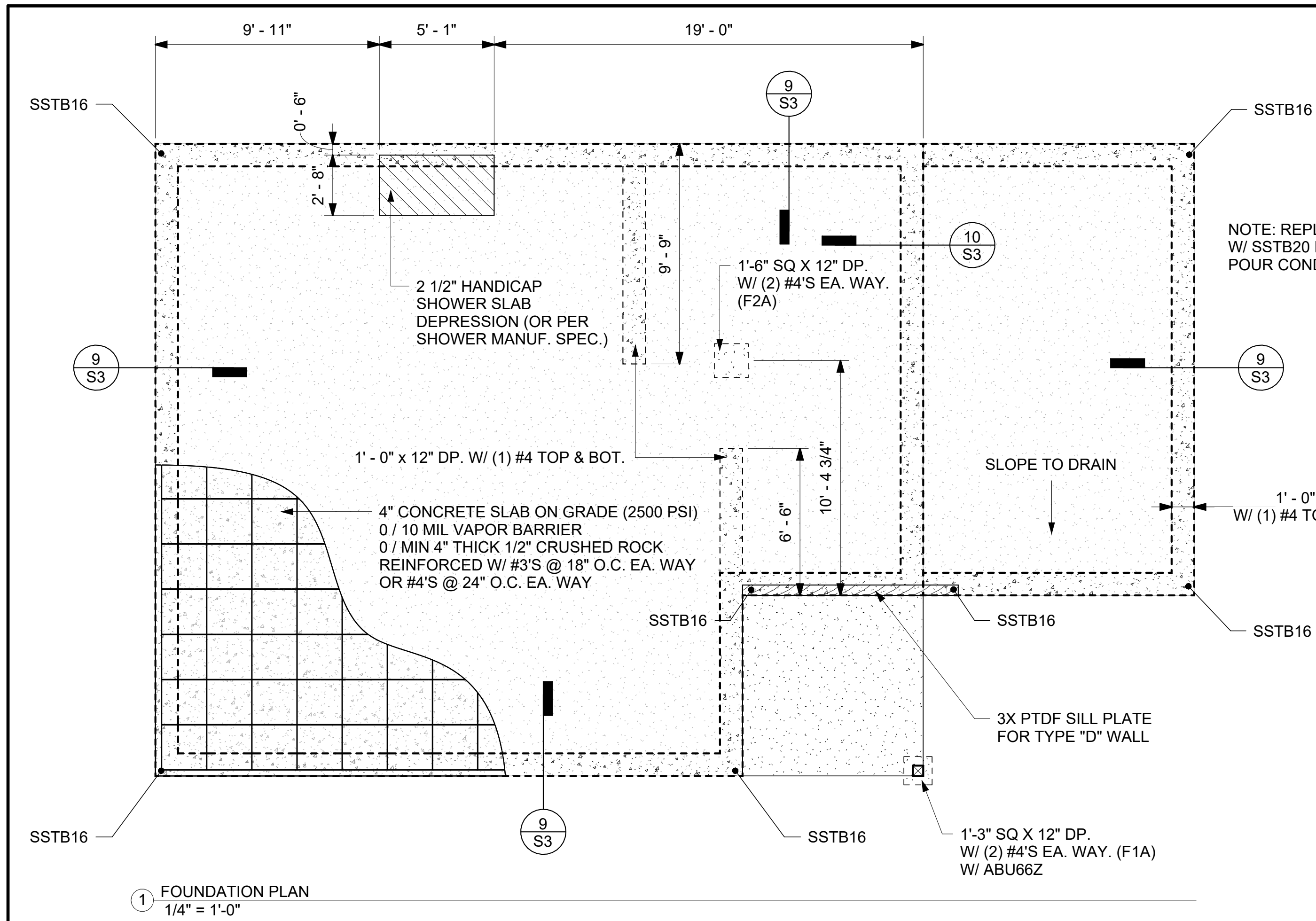
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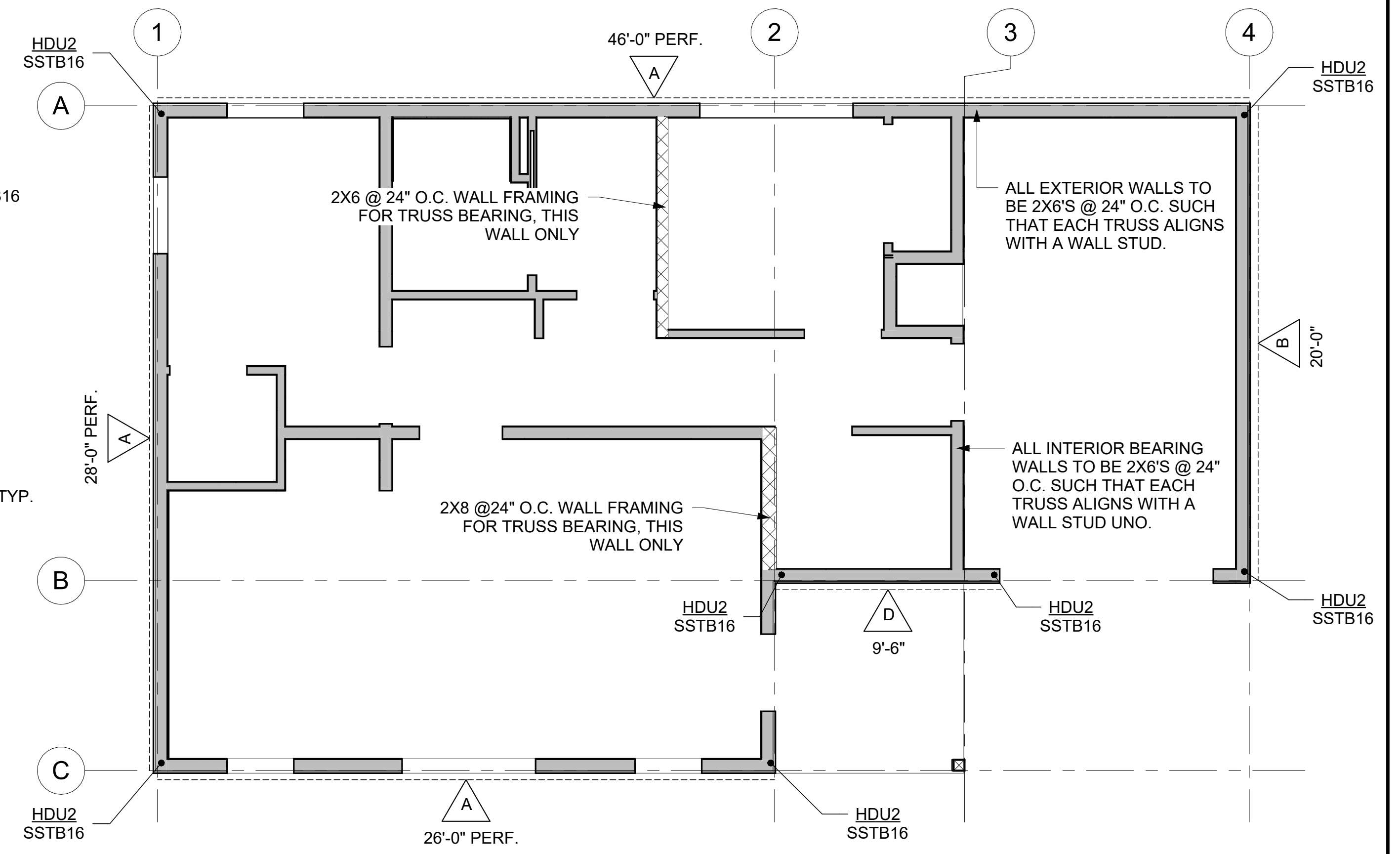
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STRUCTURAL NOTES

S1

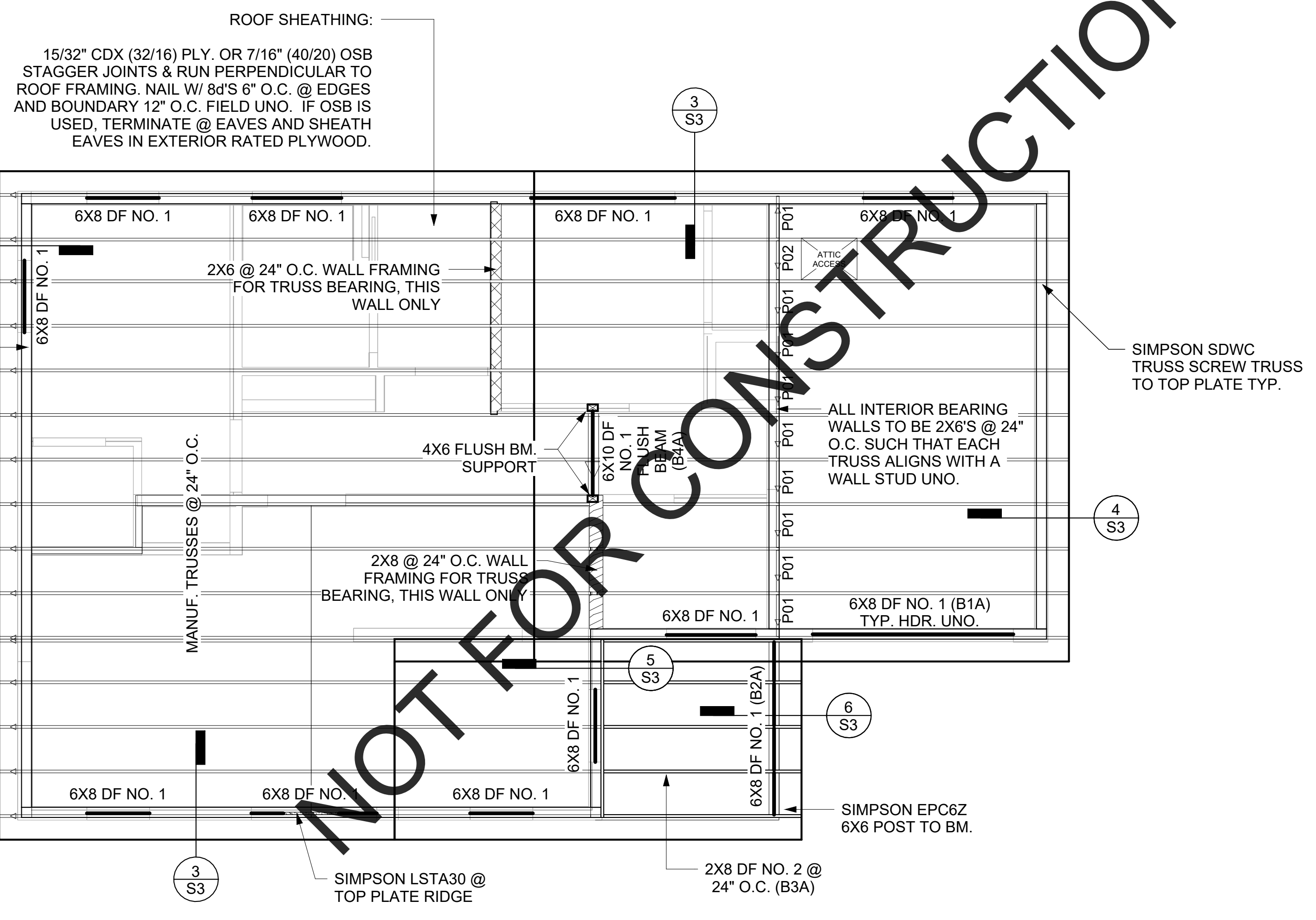


1 FOUNDATION PLAN
1/4" = 1'-0"



3 SHEAR WALL PLAN
1/4" = 1'-0"

SHEAR WALL SCHEDULE	
<p>A WALL SYSTEM STRENGTH: 173 PLF SEISMIC 242 PLF WIND</p> <p>3/8" STRUCTURAL WOOD PANELS (BLOCKED)</p> <p>NAILING: 8d (COMMON OR HOT DIPPED GALVANIZED)</p> <p>6" O.C. @ EDGES 12" O.C. @ FIELD</p> <p>1/2" Ø ANCHOR BOLT SPACING 72" W/ 2X P.T. SILL</p> <p>SILL SHEAR TRANSFER NAILING 16d @ 6" O.C. (COMMON, BOX OR SINKER)</p>	<p>D WALL SYSTEM STRENGTH: 530 PLF SEISMIC 743 PLF WIND</p> <p>3/8" STRUCTURAL WOOD PANELS (BLOCKED)</p> <p>NAILING: 8d (COMMON OR HOT DIPPED GALVANIZED)</p> <p>4" O.C. @ EDGES 12" O.C. @ FIELD</p> <p>1/2" Ø ANCHOR BOLT SPACING 16" W/ 3X P.T. SILL 5/8" Ø ANCHOR BOLT SPACING 24" W/ 3X P.T. SILL</p> <p>SILL SHEAR TRANSFER NAILING (2) ROWS 16d @ 4" O.C. (COMMON, BOX OR SINKER)</p>
<p>B WALL SYSTEM STRENGTH: 260 PLF SEISMIC 364 PLF WIND</p> <p>3/8" STRUCTURAL WOOD PANELS (BLOCKED)</p> <p>NAILING: 8d (COMMON OR HOT DIPPED GALVANIZED)</p> <p>6" O.C. @ EDGES 12" O.C. @ FIELD</p> <p>1/2" Ø ANCHOR BOLT SPACING 48" W/ 2X P.T. SILL</p> <p>SILL SHEAR TRANSFER NAILING 16d @ 4" O.C. (COMMON, BOX OR SINKER)</p>	<p>E WALL SYSTEM STRENGTH: 960 PLF SEISMIC 1344 WIND</p> <p>3/8" STRUCTURAL WOOD PANELS (BLOCKED) (2) SIDES</p> <p>NAILING: 10d (COMMON OR HOT DIPPED GALVANIZED)</p> <p>3" O.C. @ EDGES 12" O.C. @ FIELD</p> <p>1/2" Ø ANCHOR BOLT SPACING 13" W/ 3X P.T. SILL 5/8" Ø ANCHOR BOLT SPACING 18" W/ 3X P.T. SILL</p> <p>SILL SHEAR TRANSFER NAILING (2) ROWS 16d @ 3" O.C. (COMMON, BOX OR SINKER)</p>
<p>C WALL SYSTEM STRENGTH: 361 PLF SEISMIC 505 PLF WIND</p> <p>3/8" STRUCTURAL WOOD PANELS (BLOCKED)</p> <p>NAILING: 8d (COMMON OR HOT DIPPED GALVANIZED)</p> <p>6" O.C. @ EDGES 12" O.C. @ FIELD</p> <p>1/2" Ø ANCHOR BOLT SPACING 24" W/ 2X P.T. SILL</p> <p>SILL SHEAR TRANSFER NAILING 16d @ 3" O.C. (COMMON, BOX OR SINKER)</p>	



2 ROOF FRAMING PLAN
1/4" = 1'-0"



PROJECT



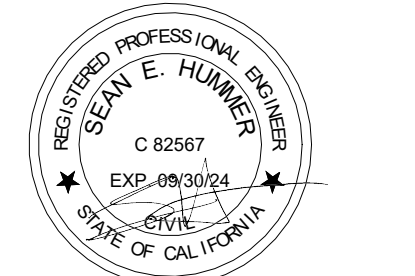
SHASTA COUNTY PRE-APPROVED
ADUS

ADU 2 - 50 PSF SNOW LOAD

REVISIONS

DATE	DESCRIPTION

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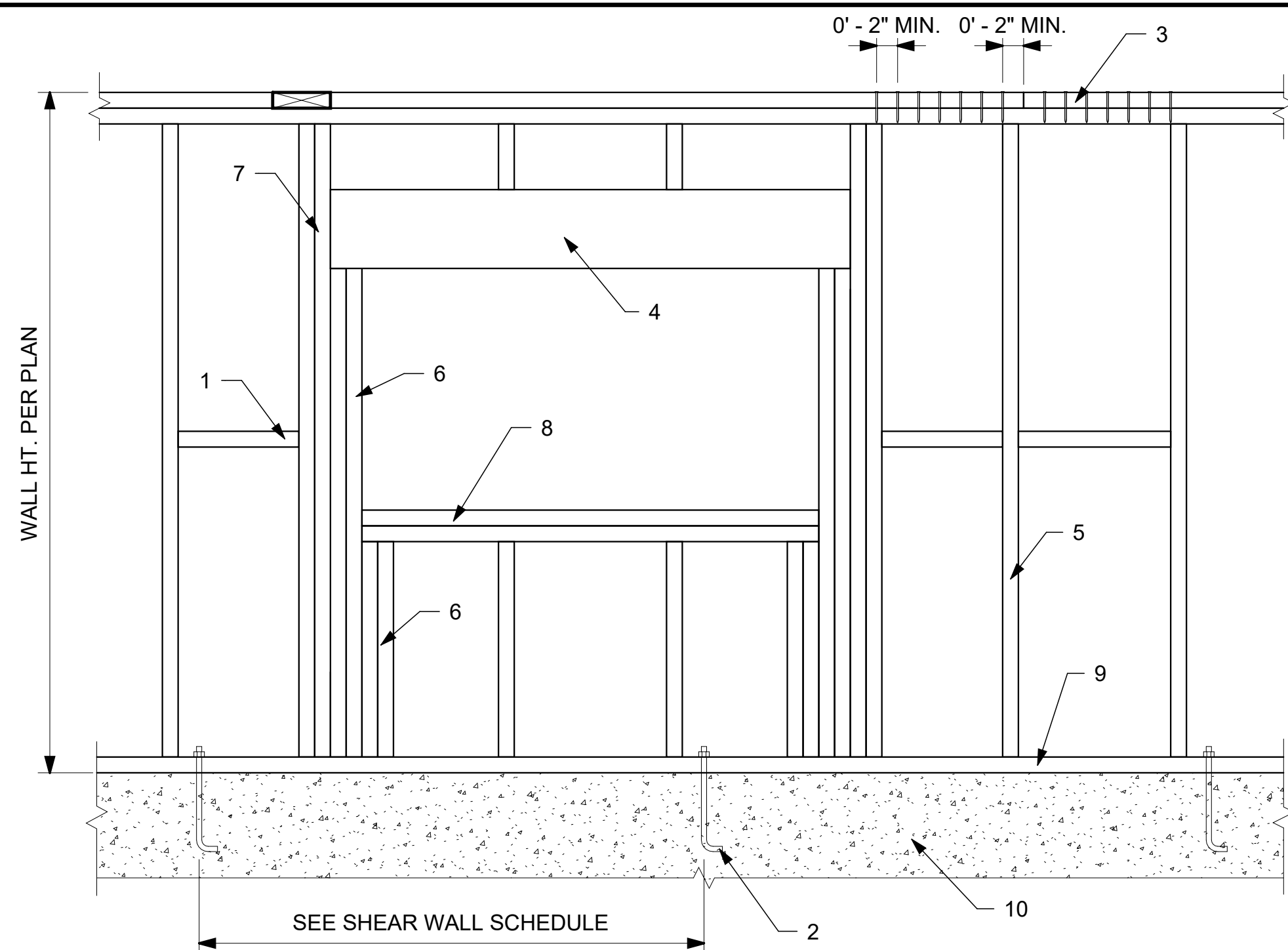
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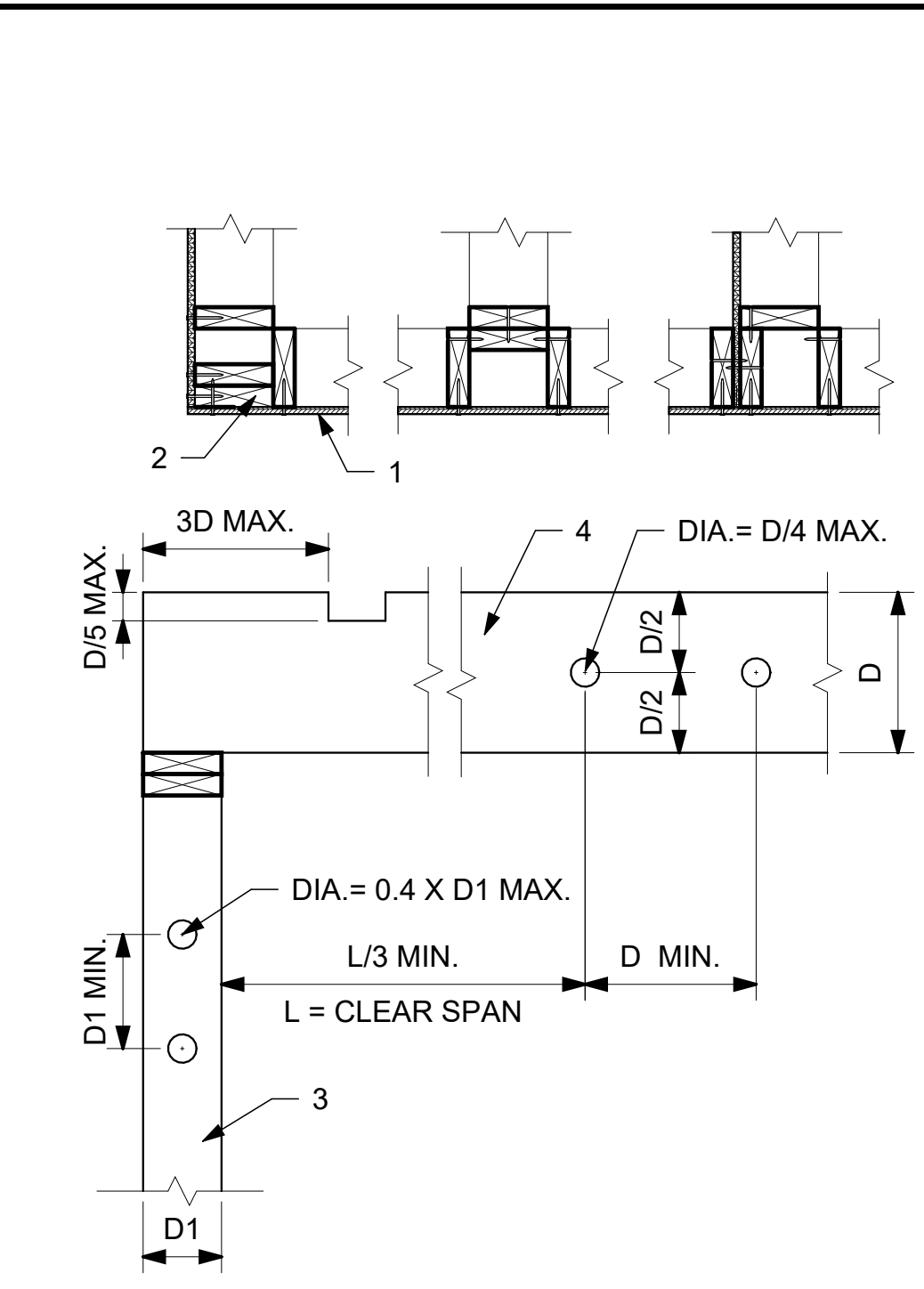
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FOUNDATION, ROOF FRAMING &
SHEAR WALL PLAN

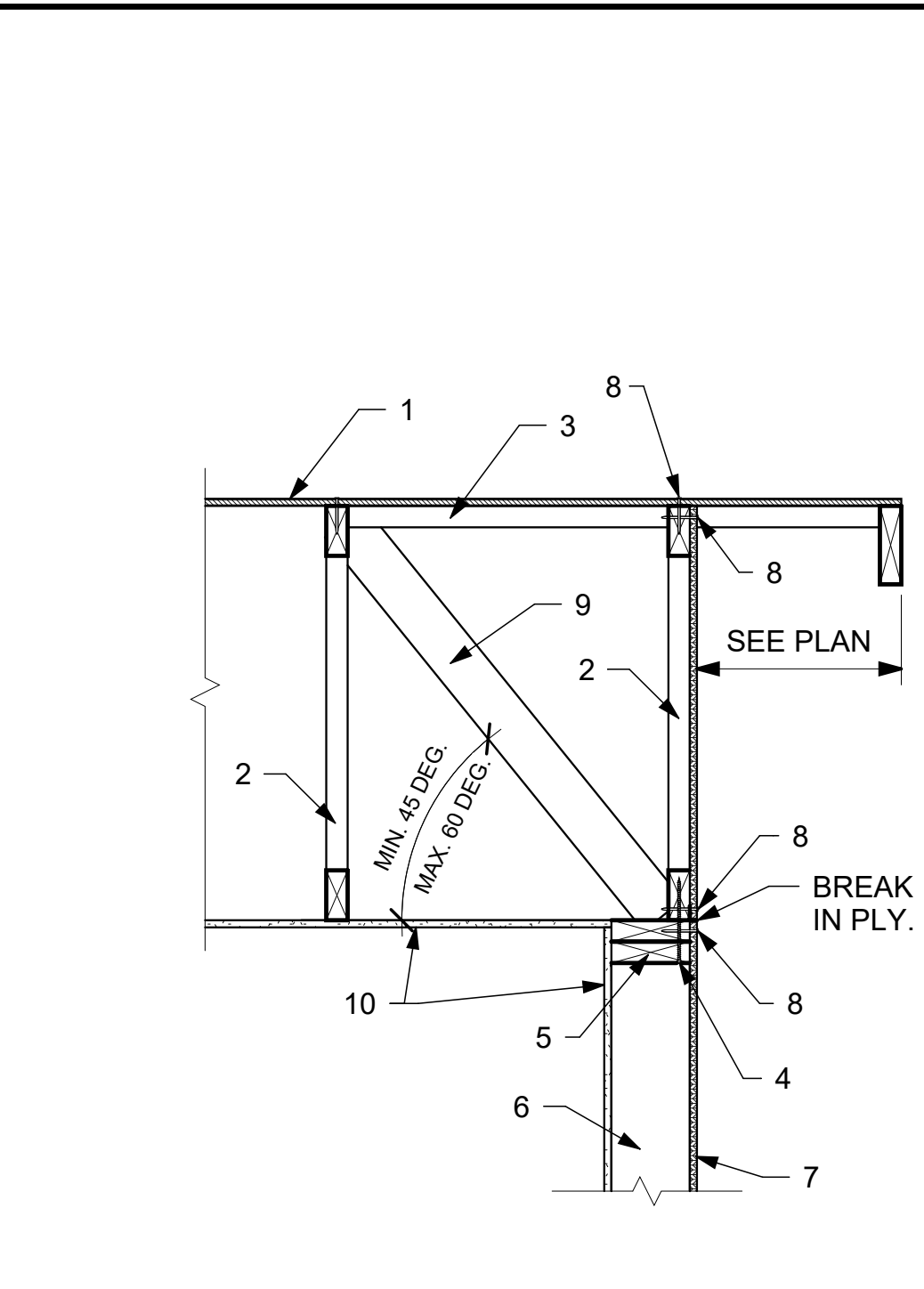
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- 2X BLOCKING AS REQ'D FOR PLY EDGE NAILING.
- ANCHOR BOLTS SEE PLAN.
- DOUBLE 2X TOP PLATE WITH 4'-0" MIN SPLICE. LOWER AND UPPER PLATE SPLICES MUST OCCUR WITH A MINIMUM OF 4'-0" SEPARATION. (14) 16d SINKERS REQUIRED EACH SIDE OF SPLICE OR PLATE BREAK. REQ'D @ ALL EXT. AND INT. SHEAR WALL LINES.
- HEADER PER PLAN.
- 2X STUDS @ 24" O.C. TYP.
- (2) TRIMMERS REQ'D @ OPENINGS 8'-0" OR LARGER.
- (2) KING STUDS REQ'D @ OPENINGS 6'-0" OR LARGER.
- (2) SILLS REQ'D @ OPENINGS 6'-0" OR LARGER.
- 2X PTFD SILL PLATE, OR SOLE PLATE PER PLAN.
- FND. PER PLAN (OR FLOOR FRAMING, SEE PLAN).



- 2X FRAMING OR POST AS REQUIRED FOR HOLDDOWN, SEE PLAN.
- PLY. SEE PLAN FOR REQUIREMENTS.
- 2X WALL FRAMING.
- 2X FLOOR FRAMING, REFER TO MANUFACTURERS RECOMMENDATIONS FOR MANUFACTURED FLOOR JOIST PRODUCTS.

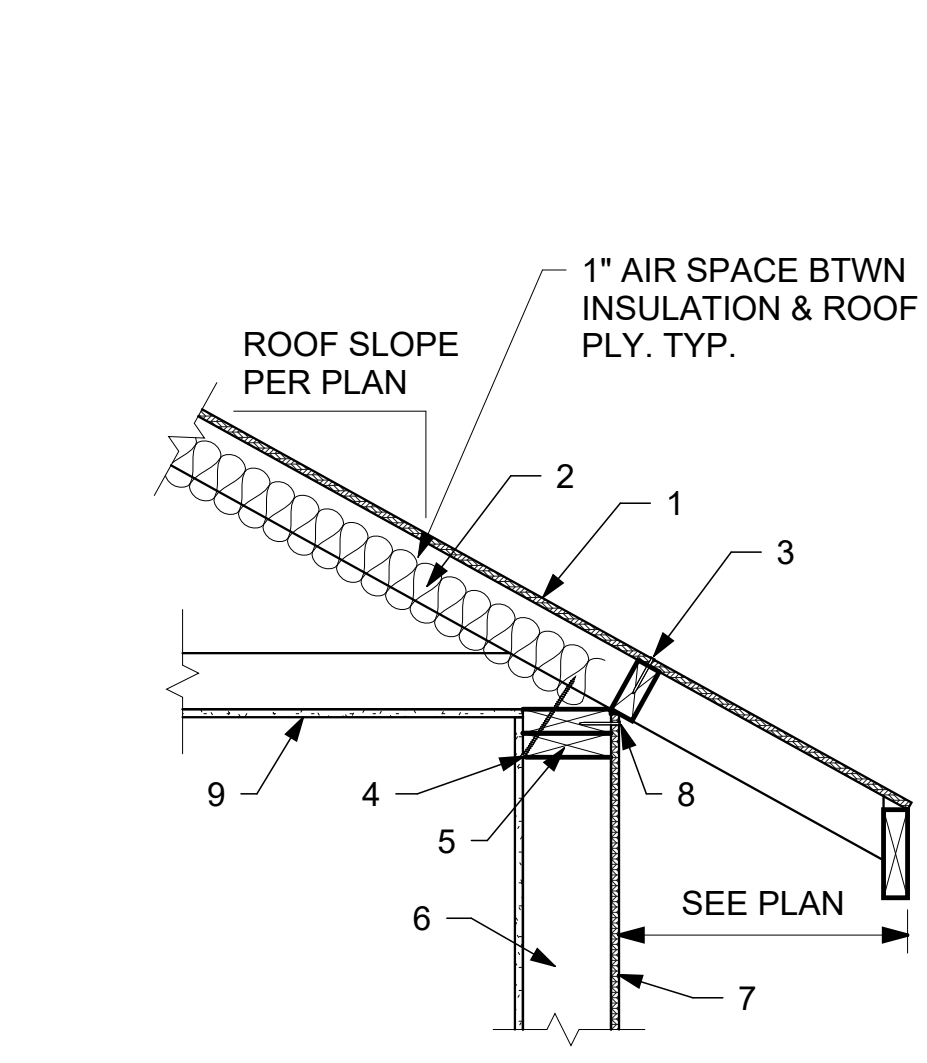


- ROOF PLY.
- MANUFACTURED TRUSS.
- FLAT OUTLOOKER @ 24" O.C.
- SIMPSON SDWC15600 TRUSS TO TOP PLATE @ 24" O.C. CAN BE SUBSTITUTED W/ TLOK06.
- DOUBLE TOP PLATES.
- 2X STUDS @ 24" O.C.
- SHEAR PLY AS REQ'D SEE SHEAR WALL SCHEDULE FOR PLY. NAILING.
- EDGE NAILING.
- 2X KICKER @ 8" O.C. ATTACHED AT EA. END WITH SIMPSON A35 CLIP. MAX 2X4 UNBRACED LENGTH IS 6'-0" MAX 2X6 UNBRACED LENGTH IS 8'-0".
- GYP. PER PLAN.

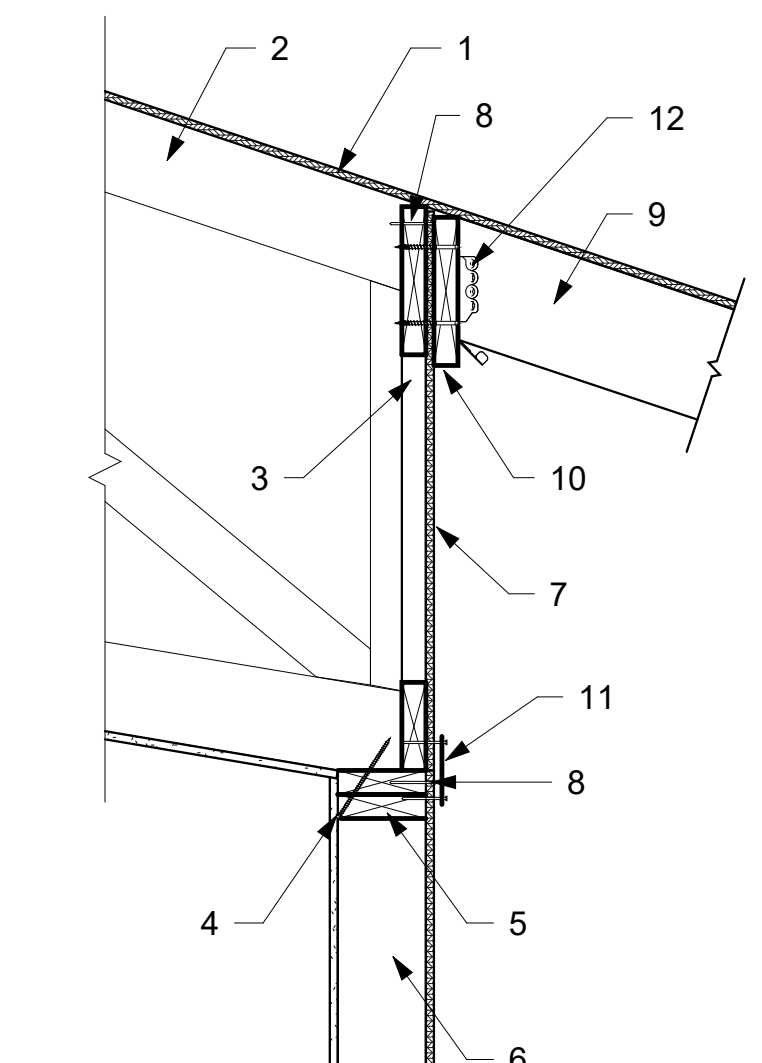
1 TYP. WALL FRAMING
1" = 1'-0"

2 TYP. CORNERS/NOTCHES/HOLES
1" = 1'-0"

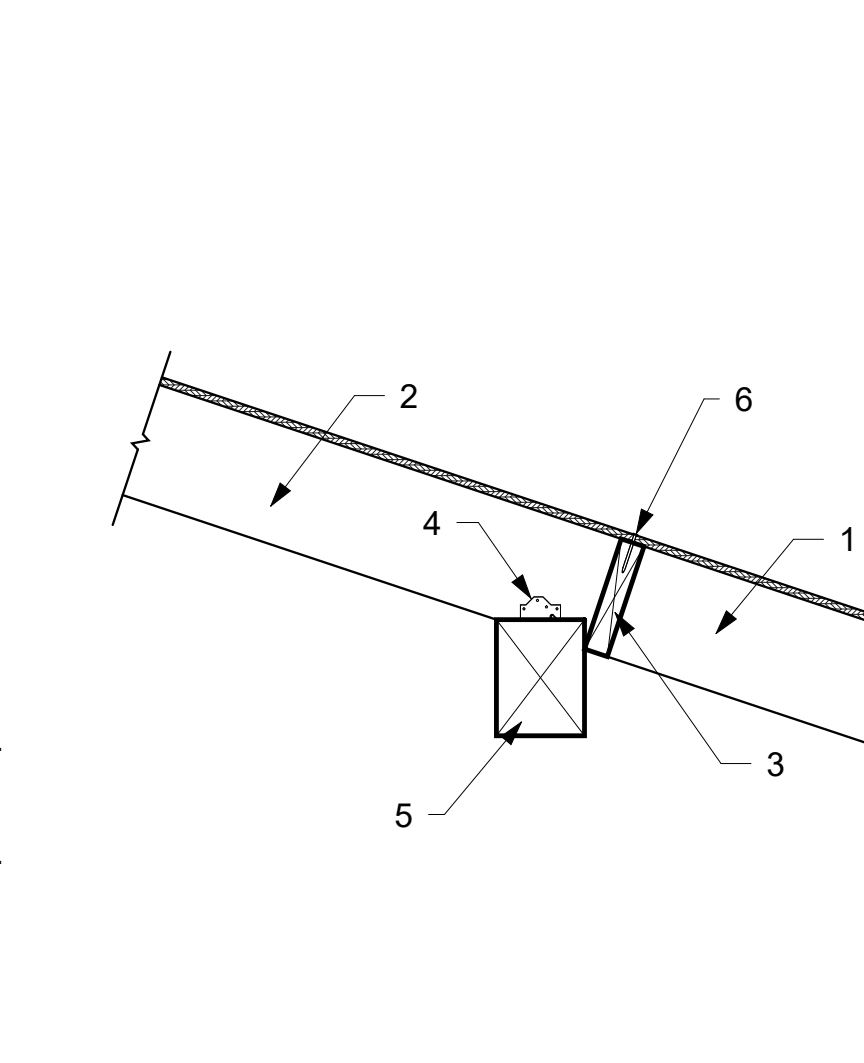
3 SHEAR CONN. @ GABLE
1" = 1'-0"



- ROOF PLY.
- MANUFACTURED TRUSS.
- 2X BLOCKING W/ (2) 8d TO TRUSS @ EA. END.
- SIMPSON SDWC15600 TRUSS SCREW EA TRUSS TYP.
- DOUBLE TOP PLATES.
- 2X STUDS @ 24" O.C.
- SHEAR PLY AS REQ'D SEE SHEAR WALL SCHEDULE FOR PLY. NAILING.
- EDGE NAILING.
- GYP. PER PLAN.



- ROOF PLY.
- MANUFACTURED TRUSS.
- TRUSS BLOCKING.
- SIMPSON SDWC15600 TRUSS TO TOP PLATE @ 24" O.C. CAN BE SUBSTITUTED W/ TLOK06.
- DOUBLE TOP PLATES.
- 2X STUDS @ 24" O.C.
- PLY. OR OSB BELOW SIDING TYP.
- EDGE NAILING.
- ROOF JOIST PER PLAN.
- 2X10 LEDGER W/ (2) SDWS22400 @ 12" O.C.
- LTP4 @ 24" O.C. @ PLY. BREAK.
- LRU26Z EA. JOIST TO LEDGER TYP.

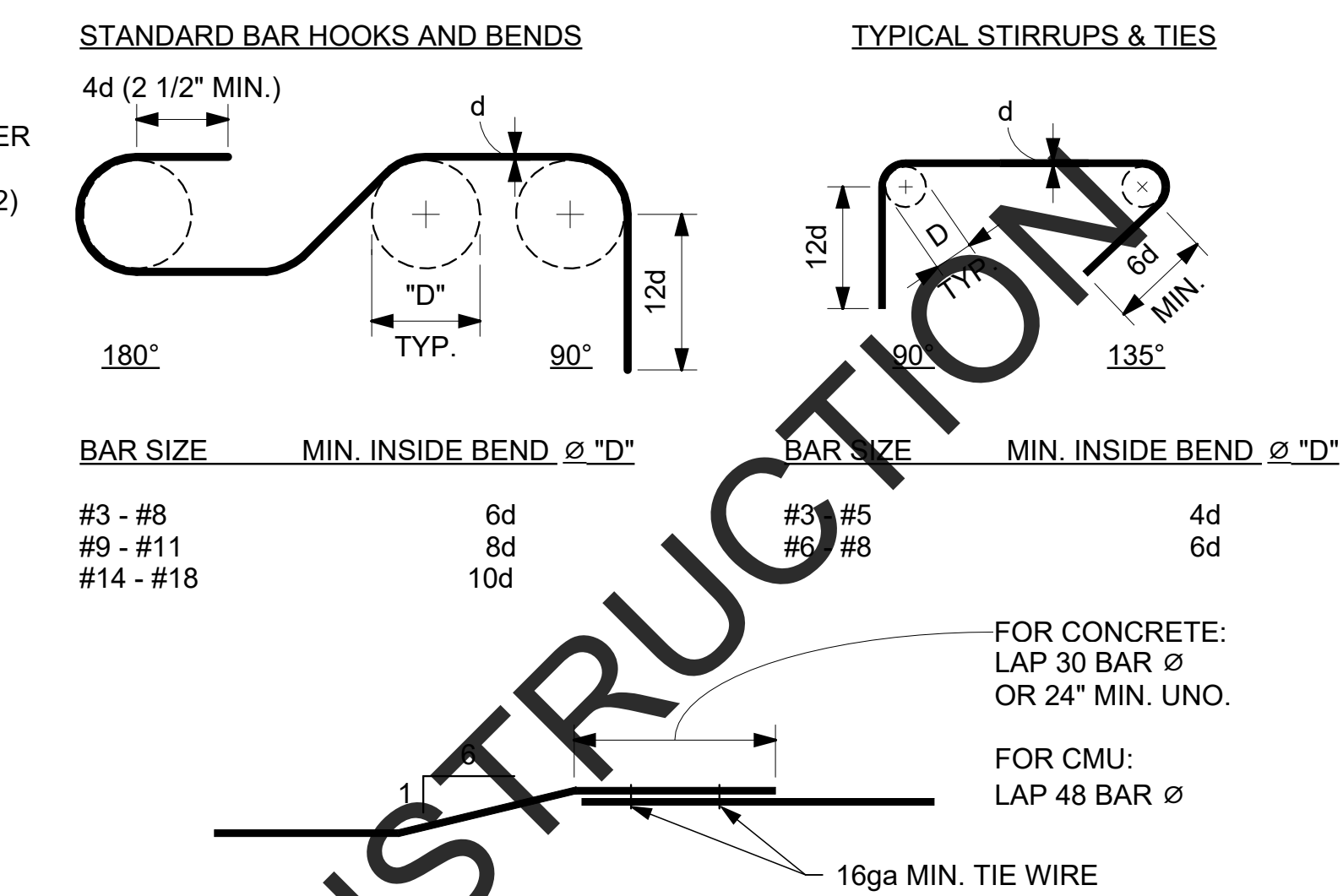


- ROOF PLY.
- ROOF FRAMING PER PLAN.
- 2X BLOCKING W/ (2) 8d TO JOIST @ EA. END.
- SIMPSON A34 EA. SIDE OF JOIST TO TOP BEAM TYP.
- BEAM PER PLAN.
- EDGE NAILING.

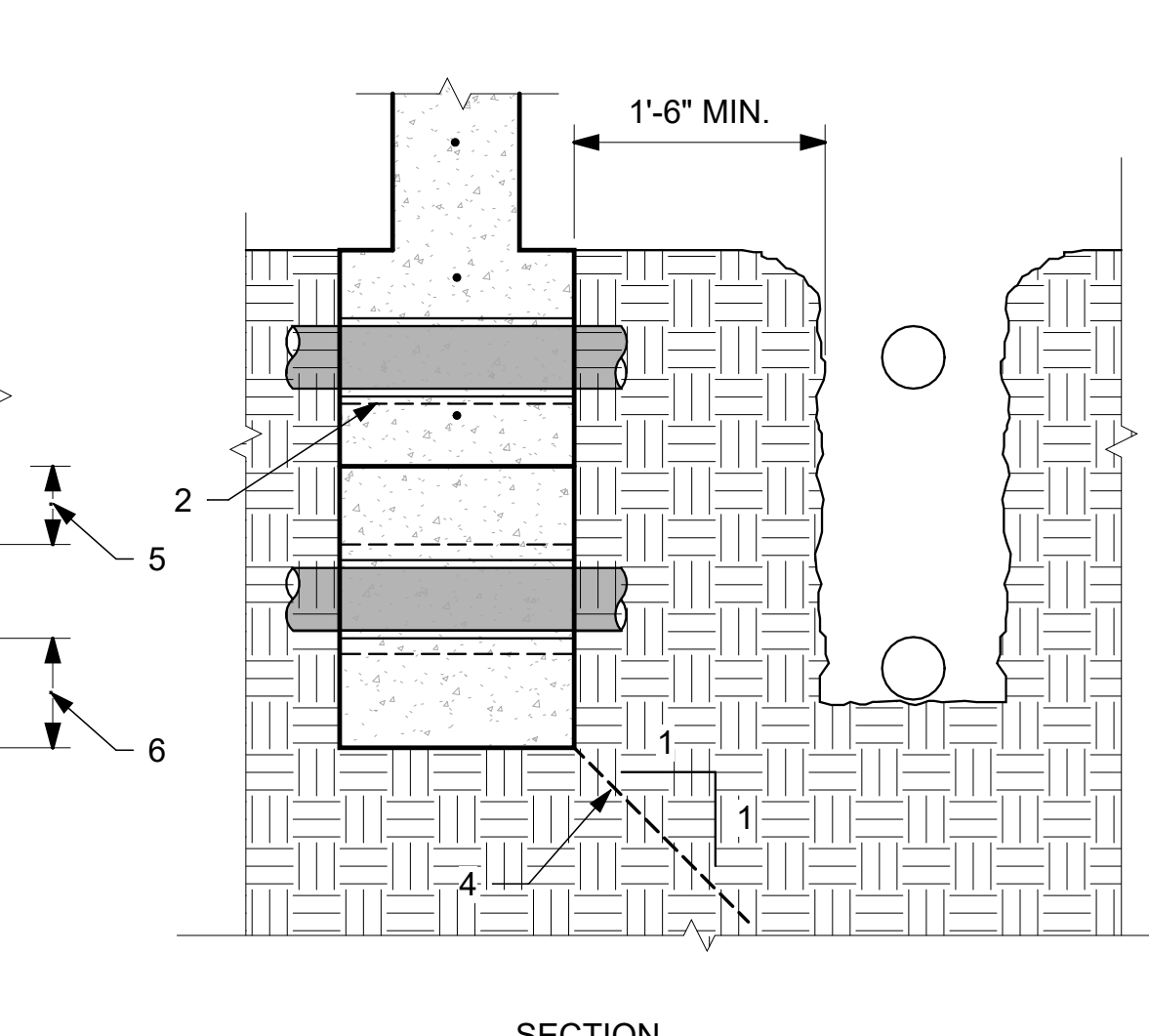
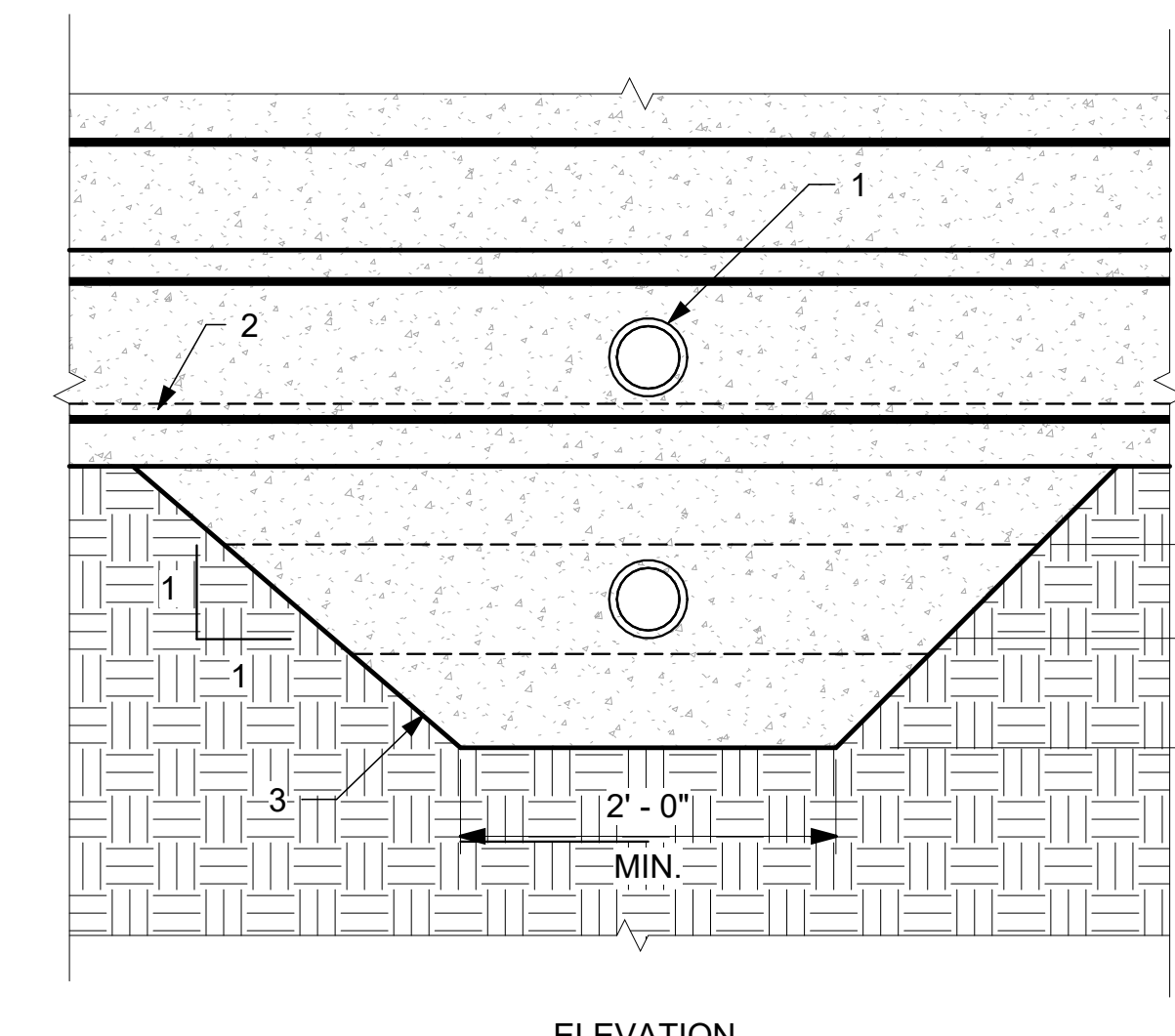
4 SHEAR CONN. @ EAVE
1" = 1'-0"

5 ROOF FRAMING CONN. @ PORCH
1" = 1'-0"

6 SHEAR TRANSFER @ PORCH BEAM
1" = 1'-0"

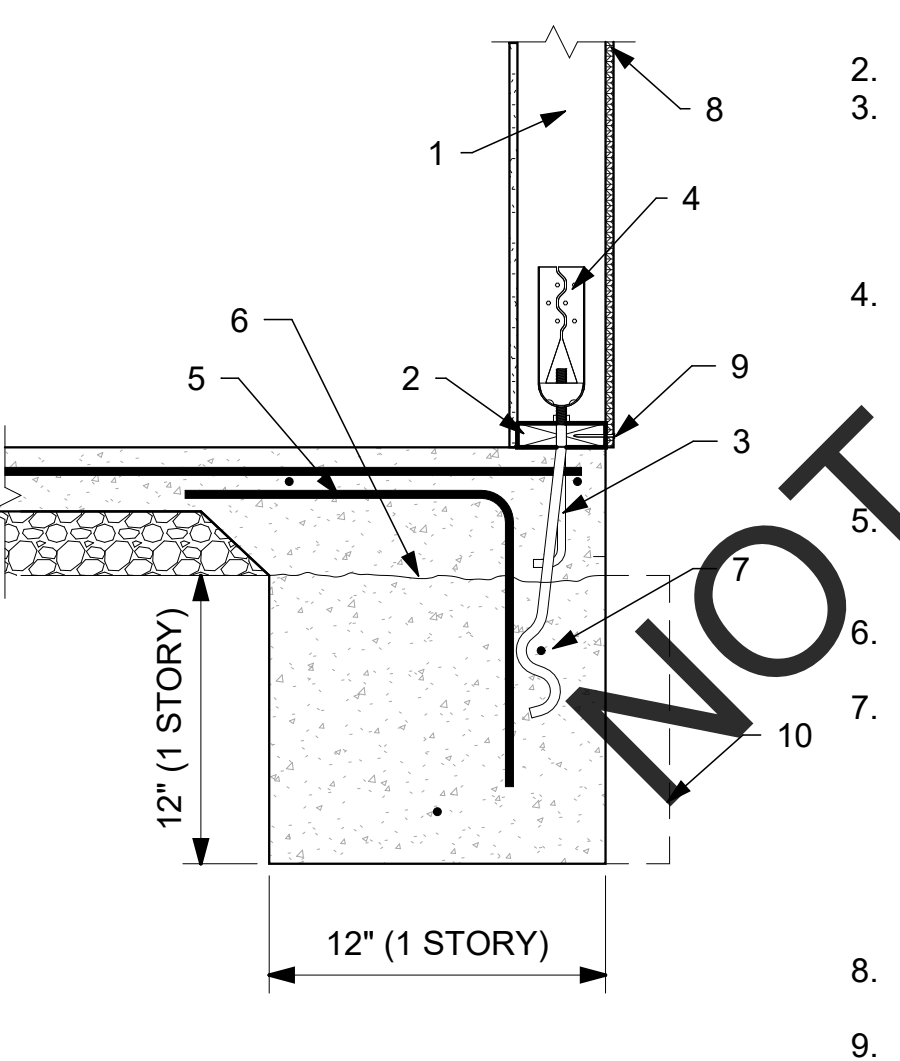


7 TYP. HOOKS & BENDS
1" = 1'-0"



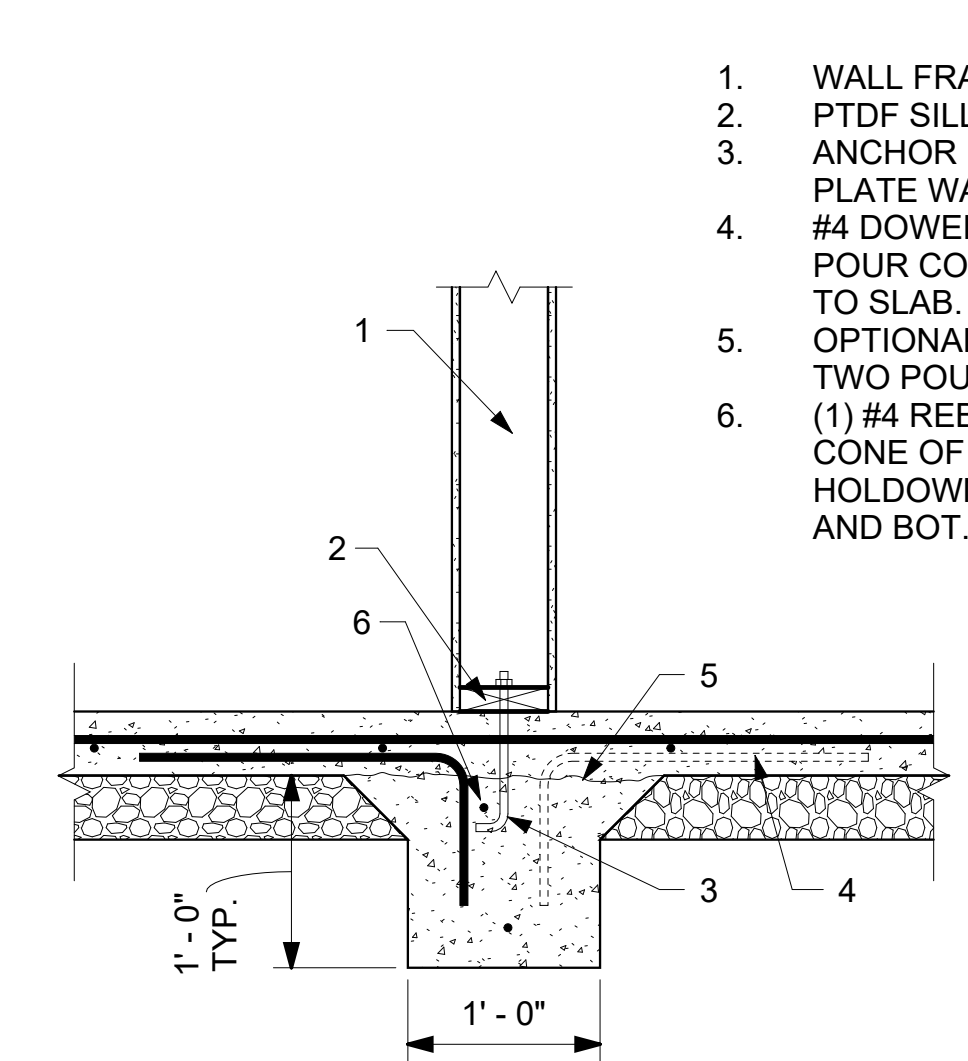
- INSIDE SLEEVE DIA. IS PIPE DIA. +1" MIN.
- NO PENETRATION ALLOWED WITH IN BOTTOM 1/3 OF FTG. DEEPEN FOOTING IF PIPE IS TO RUN BELOW BOTTOM OF FOOTING.
- NO EXCAVATION ALLOWED BELOW THIS LINE.
- 4" MIN BELOW BOT. OF FOUNDATION.
- 6" MIN COVER BELOW PIPE SLEEVE.

8 TYP. PIPE PENETRATION
1" = 1'-0"



- DOUBLE 2X FRAMING OR 4x POST FOR HOLDDOWN.
- PTDF SILL PLATE.
- ANCHOR BOLT W/ 3x3x229 PLATE WASHER. SEE SHEAR SCHEDULE FOR SIZE AND SPACING.
- SIMPSON HOLDDOWN, SEE PLAN FOR SIZE AND LOCATION.
- INSTALL PER MANUFACTURER'S SPECIFICATIONS.
- #4 DOWEL @ 32" O.C. @ TWO POUR CONDITION.
- OPTIONAL COLD JOINT FOR TWO POUR.
- (1) #4 REBAR WITHIN SHEAR CONE OF A.B.'S AND HOLDDOWN, (1) #4 REBAR TOP AND BOT. REPLACE SSTB16 W/ SSTB20 AT TWO POUR CONDITION TYP.
- SHEAR PLY. PER PLANS.
- EDGE NAILING.
- OPTIONAL "T" SHAPED FOOTING.

9 SHEAR & HOLD DOWN CONN. @ FND
1" = 1'-0"



- WALL FRAMING @ 24" O.C.
- PTDF SILL PLATE.
- ANCHOR BOLT W/ 3x3x229 PLATE WASHER @ 72" O.C.
- #4 DOWEL @ 32" O.C. @ TWO POUR CONDITION, ALT. DIR. TO SLAB.
- OPTIONAL COLD JOINT FOR TWO POUR.
- (1) #4 REBAR WITHIN SHEAR CONE OF A.B.'S AND HOLDDOWN, (1) #4 REBAR TOP AND BOT.

10 SHEAR TRANSFER @ INT. SLAB FTG.
1" = 1'-0"

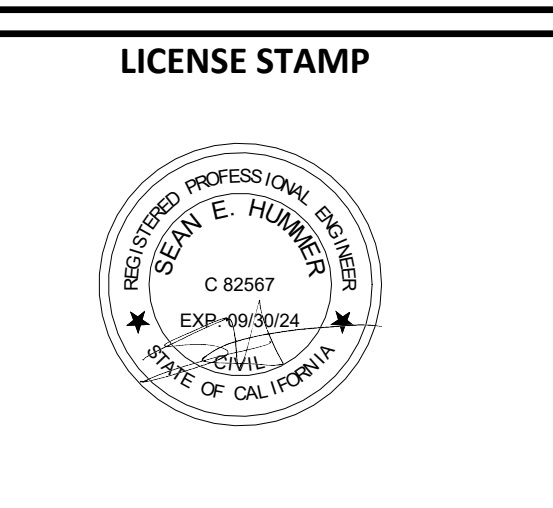
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PROJECT
COUNTY OF SHASTA
CALIFORNIA
SHASTA COUNTY PRE-APPROVED
ADUS
ADU 2 - 50 PSF SNOW LOAD

REVISIONS

DATE	DESCRIPTION



AGENCY APPROVAL

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FOUNDATION & FRAMING
DETAILS
S3

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GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL COMPLY WITH THE CURRENTLY ACCEPTED EDITION OF THE CALIFORNIA BUILDING CODE (CBC) AND CBC STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION AND SHALL PROVIDE ADEQUATE SHORING AND BRACING DURING CONSTRUCTION. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS.
- 2. DETAILS NOT SPECIFICALLY SHOWN SHALL BE SIMILAR TO DETAILS FOR SIMILAR CONSTRUCTION SHOWN ON PLAN.
- 3. TYPICAL DETAILS SHALL APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- 4. ALL PREFABRICATED CONNECTING HARDWARE SPECIFIED IS SIMPSON PRODUCTS OR APPROVED EQUAL SUCH AS USB. INSTALL PER MANUFACTURERS SPECIFICATIONS FOR MAX LOADING.
- 5. THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF HUMMER CONSULTING ENGINEERING AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK AFFECTED.
- 6. NO STRUCTURAL MEMBERS SHALL BE CUT, NOTCHED, OR OTHERWISE PENETRATED UNLESS SPECIFICALLY APPROVED BY THE ENGINEER IN ADVANCE OR AS SHOWN ON THESE DRAWINGS.
- 7. PROVIDE OPENINGS, CURBS, FRAMING AND/OR SUPPORTS FOR ITEMS INDICATED ON ANY OF THESE DRAWINGS.
- 8. DO NOT SCALE DRAWINGS. THESE DRAWINGS ARE NOT MEANT TO BE SCALED. CALL ENGINEER FOR ANY NEEDED CLARIFICATIONS.

DESIGN CRITERIA

- 1. THE STRUCTURE HAS BEEN DESIGNED FOR THE FOLLOWING CRITERIA:
A. SEISMIC:
a. SEISMIC IMPORTANCE FACTOR: 1
b. MAPPED SPECTRAL RESPONSE ACCELERATIONS:
• Ss = 1.270, S1 = 0.430
c. SEISMIC SITE CLASS: D
d. SEISMIC RESPONSE COEFFICIENTS:
• SDS = 1.020, SD1 = 0.650, Cs = 0.130
e. SEISMIC DESIGN CATEGORY: D
f. BASIC SEISMIC FORCE RESISTING SYSTEM:
• LIGHT FRAMED SHEAR WALLS
g. RESPONSE MODIFICATION FACTOR:
• R = 6.5
h. ANALYSIS PROCEDURE:
• EQUIVALENT STATIC FORCE PROCEDURE
B. WIND:
a. WIND SPEED: 94 MPH
b. WIND EXPOSURE: C
C. LIVE LOADS:
a. ROOF SNOW LOAD: 70 PSF
D. SITE SOIL:
a. BEARING CAPACITY: 1500 PSF

SITE WORK AND FOUNDATION

- 1. FOUNDATION SOIL SHALL BE NATIVE UNDISTURBED SOIL OR ENGINEERED FILL AS PER THE PROJECT SOILS REPORT WHERE APPLICABLE. ALL ENGINEERED FILL SHALL BE SPECIAL INSPECTED AND A PAD CERTIFICATION FROM THE TESTING AGENCY SHALL BE PROVIDED.
- 2. IF NO GEOTECHNICAL REPORT WAS PROVIDED, DESIGN IS BASED ON LOCAL JURISDICTION ALLOWABLES AND RECOMMENDATIONS.
- 3. GRADING SHALL BE PROVIDED TO ACCOMPLISH A 5% SLOPE AWAY FROM STRUCTURE FOR A MINIMUM OF 10'.
- 4. NO UTILITY TRENCHES SHALL BE ALLOWED NEAR THE BUILDING TRENCHES WHICH EXTEND DEEPER THAN A 45 DEGREE LINE PROJECTED DOWN AND AWAY FROM THE BOTTOM OUTSIDE CORNER OF ANY FOOTING.
- 5. PLACE 20" REBAR IN FOUNDATION AND STUB UP ABOVE FINISHED CONCRETE AT POWER METER LOCATION.

CONCRETE

- 1. THE MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 2500 PSI PER CBC.
- 2. ALL CEMENT USED SHALL CONFORM TO ASTM C-150 STANDARDS.
- 3. HORIZONTAL REINFORCING (FOOTING AND STEM WALL); MIN. (1) #4 REBAR 2" BELOW TOP OF STEM WALL AND 3" CLEAR ABOVE BOTTOM OF THE FOOTING AND AT 18" O.C. MAXIMUM HORIZONTAL SPACING.
- 4. CONCRETE SLABS SHALL BE A MINIMUM OF 3.5" THICK PER CBC. SLABS UNDER LIVING AREAS AND IN GARAGE SHALL BE REINFORCED WITH REINFORCING BAR OR WIRE MESH. PROVIDE WATERPROOF MEMBRANE BETWEEN SLAB AND ROCK BASE AT ALL LIVING AREAS OR AS RECOMMENDED BY SOILS REPORT.
- 5. FINE AND COARSE AGGREGATE SHALL CONFORM TO ASTM C-33 FOR STANDARD WEIGHT CONCRETE AND ASTM C-330 FOR LIGHT WEIGHT CONCRETE.
- 6. DRY PACK SHALL BE COMPOSED OF ONE PART PORTLAND CEMENT TO NOT MORE THAN THREE PARTS SAND.
- 7. CONCRETE SHALL BE CURED BY KEEPING CONTINUOUSLY WET FOR 10 DAYS OR BY AN APPROVED CURING COMPOUND.
- 8. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR MISCELLANEOUS ITEMS TO BE CAST INTO CONCRETE AND FLOOR DEPRESSIONS, ETC.
- 9. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF EXPANSION JOINTS, SCORING, ETC. FOR CONCRETE WALKS, SLABS, AND OTHER FLAT WORK.
- 10. CONCRETE FOR SLAB ON GRADE SHALL HAVE A MAXIMUM OF 4" SLUMP PER ASTM C-134. 5 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE. CEMENT TO BE PER ASTM C-150 TYPE 1 OR TYPE 2.

HOLD-DOWNS

- 1. ALL HOLD-DOWNS ARE SIMPSON STRONG-TIE OR EQUIVALENT. LOCATION OF HOLD-DOWNS ON PLAN ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE ACTUAL LOCATIONS BASED ON THE LENGTH OF SHEAR WALLS, TYPE OF HOLD-DOWN AND THE MANUFACTURERS RECOMMENDED INSTALLATION.
- 2. ALL HOLD-DOWNS ARE TO BE INSTALLED IN PLACE PRIOR TO POURING CONCRETE.

REINFORCING STEEL

- 1. ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 40 FOR #4 BARS AND SMALLER. ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60 FOR #5 BARS AND LARGER. WELDED EIRE FABRIC IS TO BE ASTM A185 WITH LAPPING OF 1 1/2 SPACES.
- 2. ALL BARS SHALL BE DEFORMED PER ASTM A305.
- 3. ALL BARS SHALL BE CLEAN AND FREE OF LOOSE FLAKY RUST, GREASE OR OTHER BOND IMPAIRING MATERIALS.
- 4. ALL BENDS SHALL BE MADE COLD.
- 5. SPLICING OF BARS IN CONCRETE SHALL HAVE LAPPING OF 30 BAR DIAMETERS OR 24" WHICH EVER IS GREATER. SPLICING OF BARS IN MASONRY SHALL HAVE LAPPING OF 40 BAR DIAMETERS OR 24" WHICH EVER IS GREATER.
- 6. ALL BARS SHALL BE ACCURATELY AND SECURELY PLACED BEFORE POURING CONCRETE. NO WET SETTING WILL BE ALLOWED.

ANCHOR BOLTS

- 1. TYPICAL SIZE AND SPACING SHALL BE 1/2" Ø WITH A MINIMUM OF 7" EMBED INTO THE FIRST CONCRETE POUR. BOLTS SHALL BE SPACED AT 72" O.C. MAX FOR SINGLE STORY AND 48" O.C. MAX FOR TWO STORY BUILDINGS.
- 2. PLATE WASHERS A MINIMUM SIZE OF 3"x3"x0.229" SHALL BE USED ON EA. BOLT.
- 3. FOUNDATION SILL SHALL BE BOLTED TO THE FOUNDATION OR FOUNDATION WALL AT ALL HOUSE AND GARAGE PERIMETER WALLS AND AT ALL INTERIOR SHEAR WALLS.
- 4. FOUNDATION SILL AT INTERIOR NON-SHEAR WALLS MAY USE SHOT PINS FOR CONNECTION TO SLAB. SHOT PINS MUST BE 0.140" SHANK DIAMETER WITH 0.300" HEAD DIAMETER AND WASHER AND A MINIMUM OF 2.5" LONG.
- 5. ALL SILL PLATES MUST HAVE A MINIMUM OF ONE ANCHOR BOLT WITHIN 12" OF EACH END, OR TWO BOLTS BETWEEN HOLD-DOWNS.
- 6. AS A REPAIR FOR MISPLACED OR MISSING ANCHOR BOLTS SIMPSON TITEN HD (THD50600H) CONCRETE SCREW ANCHOR MAY BE USED. INSTALL ANCHORS PER MANUFACTURERS SPECIFICATIONS.

TYPICAL LUMBER GRADES

- 1. 2X, 4X BEAMS, HEADERS AND POSTS DF#2 OR BETTER.
- 2. 6X BEAMS, HEADERS AND POSTS DF#1 OR BETTER.
- 3. 2X JOISTS AND RAFTERS DF#2 OR BETTER.
- 4. 2X STUDS 10' MAX HEIGHT DF#3 OR BETTER.
- 5. 2X4 STUDS 14' NONBEARING DF#2 OR BETTER.
- 6. 2X6 STUDS 15' MAX HEIGHT STUD GRADE OR BETTER.
- 7. 2X6 STUDS 20' NONBEARING DF#2 OR BETTER.
- 8. GLUE LAMINATED BEAMS 24F-V4 WITH 2000' RADIUS.
- 9. PARALLEL STRAND LUMBER (PSL)
Fb=2900 PSI Fv=290 PSI E=2.0X10⁶ PSI
- 10. LAMINATED STRAND LUMBER (LVL)
Fb=2600 PSI Fv=285 PSI E=1.8X10⁶ PSI
- 11. ROOF PLY. TO BE 15/32" CDX (32/16) OR 7/16" (40/20) OSB STAGGER JOINTS & RUN PERPENDICULAR TO ROOF FRAMING. NAIL WITH 8d's 6" O.C. @ EDGES AND BOUNDARY 12" O.C. FIELD UNO. IF OSB IS USED, TERMINATE @ EAVES AND SHEATH EAVES IN EXTERIOR RATED PLYWOOD.
- 12. FLOOR PLY. TO BE 3/4" T/G (48/24) OR EQUIVALENT OSB STAGGER JOINTS & RUN PERPENDICULAR TO FLOOR FRAMING. GLUE AND FASTEN WITH 8d's O.C. @ EDGES AND BOUNDARY, 12" O.C. FIELD UNO.

MANUFACTURED WOOD TRUSS

- 1. DESIGN AND FABRICATION SHALL BE PER CBC STANDARDS AND ALL ICBO RESEARCH REPORTS.
- 2. INCREASES IN ALLOWABLE STRESSES FOR ASSEMBLIES OF REPETITIVE FRAMING SHALL NOT BE ALLOWED.
- 3. WHERE TRUSSES ARE INSTALLED AS BLOCKING, TRUSSES MUST BE DESIGNED TO TRANSMIT DIRECT AXIAL WALL LOADS.
- 4. PROVIDE TRUSS DRAWINGS SHOWING TRUSSES, REQUIRED BLOCKING, BRACING AND HANGERS. CALCULATIONS WITH SIGNATURE OF RESPONSIBLE LICENSED ENGINEER ON ALL PAGES.
- 5. INSTALL TRUSSES PER MANUFACTURERS RECOMMENDATIONS AND THESE DRAWINGS.
- 6. ALL GABLE END TRUSSES SHALL BE STRUCTURAL TRUSSES WITH INFILL.
- 7. ALL LATERAL WEB BRACING IS REQUIRED TO TERMINATE AT AN EXTERIOR BEARING WALL.
- 8. DO NOT ATTACH TRUSSES TO NONBEARING WALLS UNLESS USING SIMPSON STC CLIPS, UNLESS NOTED OTHERWISE ON PLAN.
- 9. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY SITE DIMENSIONS TO THOSE OF THE TRUSS CALCULATIONS PRIOR TO ORDERING TRUSSES FOR THE PROJECT.

TYP. SHEAR WALL NOTES

- 1. WHEN T-1-11 SIDING IS USED FOR SHEAR PLY. INSTALL DOUBLE STUDS STITCH NAILED W/ 16d's @ 12" O.C. OR 3X MEMBER AT ALL PANEL JOINTS AND EDGE NAIL EACH PANEL AT JOINTS.
- 2. 8d COMMON OR HOT DIPPED GALVANIZED NAILS TO BE (2 1/2" X 0.1331")
- 3. ALL NAILS FASTENED TO PRESSURE TREATED LUMBER TO BE HOT DIPPED GALVANIZED.
- 4. FOR SHEAR WALL TYPE D & E, FOUNDATION SILL PLATES AND ALL FRAMING RECEIVING EDGE NAILING FROM ABUTTING PANELS SHALL NOT BE LESS THAN A SINGLE 3x MEMBER. NAILING TO 3x MEMBERS SHALL BE STAGGERED.

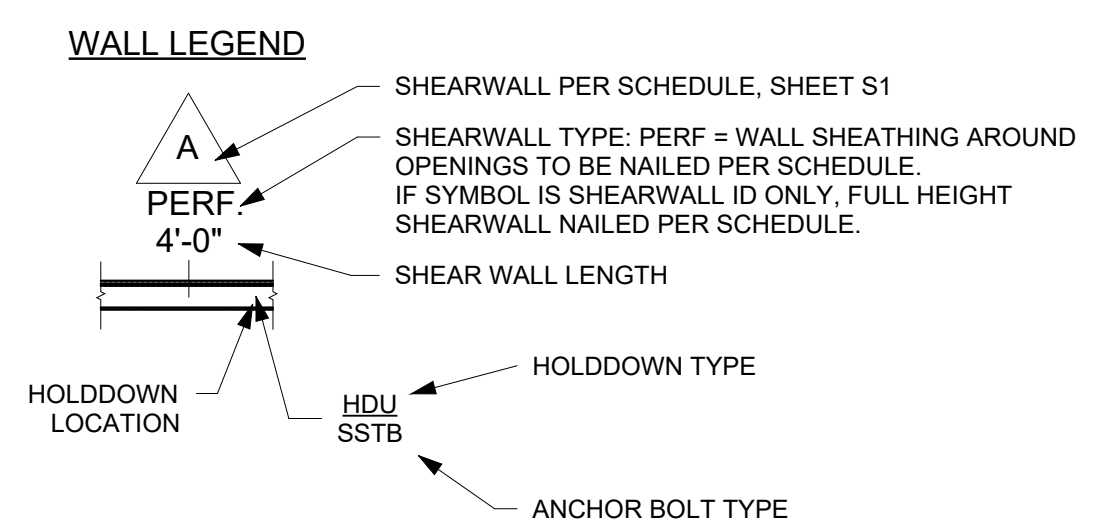
LUMBER AND CARPENTRY

- 1. ALL STRUCTURAL LUMBER SHALL BE GRADED IN ACCORDANCE WITH THE STANDARD GRADING RULES NO. 16 FOR WEST COAST LUMBER AND SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19%.
- 2. ALL STRUCTURAL PLYWOOD SHALL BE STRUCTURAL II OR C-D GRADE WITH EXTERIOR GLUE UNLESS NOTED OTHERWISE ON THE ARCHITECTURAL PLANS.
- 3. STRUCTURAL PLYWOOD MAY BE SUBSTITUTED WITH AN EQUIVALENT APA RATED ORIENTED STRAND BOARD (OSB).
- 4. ALL WOOD BEARING ON CONCRETE OR MASONRY SHALL BE PRESSURE TREATED DOUGLAS FIR, REDWOOD OR OTHER APPROVED DECAY RESISTANT MATERIAL.
- 5. STRUCTURAL MEMBERS SHALL NOT BE CUT OR NOTCHED UNLESS SPECIFICALLY NOTED OR DETAILED OR IS IN ACCORDANCE WITH THE CBC. SOLID BLOCKING SHALL BE PLACED BETWEEN JOISTS OR RAFTERS AT ALL SUPPORTS, EXCEPT WHEN LEDGERED.
- 6. ALL NAILING TO BE PER CBC TABLE 2304.10.1, UNLESS OTHERWISE NOTED.
- 7. PLYWOOD FLOOR AND ROOF SHEATHING SHALL BE LAID CONTINUOUS OVER TWO OR MORE SPANS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. STAGGER ALL PLYWOOD PANELS A MINIMUM OF 4'.
- 9. FRAMING CONTRACTOR SHALL PROVIDE BACKING AS REQUIRED FOR ALL LIGHT FIXTURES CABINETS, WARDROBES, TOWEL BARS, HANDRAILS, ETC. AS REQUIRED AND REQUESTED BY THE GENERAL CONTRACTOR.
- 10. PROVIDE A 2X4 HEADER FOR ALL INTERIOR NONBEARING OPENINGS UP TO 36" IN WIDTH. PROVIDE A 4X4 HEADER FOR ALL INTERIOR NONBEARING OPENINGS 3' TO 6' IN WIDTH. USE A 4X6 HEADER FOR OPENINGS GREATER THAN 6'.
- 11. PROVIDE SOLID BLOCKING FOR ALL FRAMING MEMBERS AT ALL SUPPORTS.
- 12. BOLTS FOR TIMBER CONNECTIONS SHALL BE ASTM A307 MACHINE BOLTS UNLESS OTHERWISE NOTED. BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION. BOLT HOLES SHALL BE 1/16" SMALLER THAN THE BOLT DIAMETER.
- 13. HOLES FOR LAG SCREW SHANK SHALL BE THE SAME DIAMETER AND LENGTH AS THE SHANK. THE REMAINING DEPTH OF THE PENETRATION SHALL BE 70% OF THE SHANK DIAMETER.
- 14. PROVIDE MALLEABLE IRON WASHERS OR CUT PLATE WASHERS UNDER NUTS AND BOLT OR LAG SCREW HEADS THAT BEAR ON WOOD.
- 15. WHEN REQUIRED NAILING TENDS TO SPLIT WOOD PRE DRILL NAIL HOLES TO 75% OF THE NAIL SHANK DIAMETER.
- 16. ALL BEAMS AND GIRDER TRUSSES TO BE SUPPORTED WITH FULL BEARING TO FOUNDATION UNLESS OTHERWISE NOTED.
- 17. PROVIDE FURRING AS NECESSARY TO ALIGN NON-SHEAR WALLS WITH SHEAR WALLS AS REQUIRED.
- 18. PROVIDE SOLID BLOCKING BETWEEN JOISTS AT BEARING WALLS AND AT SHEAR WALLS.
- 19. EXCEPT WHERE PLANS SHOW SPECIFIC FRAMING ALL FRAMING SHALL COMPLY WITH THE CBC CHAPTER 23, CONVENTIONAL CONSTRUCTION PROVISIONS, AS A MINIMUM.

TYPICAL FRAMING NOTES

- 1. ALL HEADERS @ INTERIOR BEARING WALLS & EXTERIOR WALLS ARE 4X12 OR 6X8 UNO.
- 2. MULTIPLE 2X MEMBERS JOISTS, HEADERS AND BEAMS SHALL BE NAILED TOGETHER WITH 2 ROWS 16d's @ 12" O.C.
- 3. WHERE RAKED WALLS OCCUR ALL STUDS SHALL BE BALLOON FRAMED TO BOTTOM CORD OF TRUSS, RAFTER, ROOF SHEATHING OR CEILING JOIST.
- 4. PROVIDE SOLID BLOCKING IN FLOOR CAVITY UNDER STRUCTURAL POSTS. PROVIDE MATCHING POSTS EXTENDING TO SUPPORTING BEAM OR FOUNDATION BELOW.
- 5. ALL METAL HARDWARE NOTED ON THE PLANS ARE PRODUCTS OF SIMPSON STRONG-TIE COMPANY, INC. OR EQUIVALENT.
- 6. RAFTERS SHALL BE NAILED TO ADJACENT CEILING JOISTS TO FORM A CONTINUOUS TIE. WHERE RAFTERS ARE NOT PARALLEL TO JOISTS, RAFTERS SHALL BE TIED TO MIN. 1X4 CROSS TIES AT 48" O.C. MAX.
- 7. WHERE GIRDER TRUSS OCCURS PROVIDED (2) 2X STUDS UNDER BEARING, UNLESS NOTED OTHERWISE.
- 8. AT CALIFORNIA OVERFRAMING THE LOWER ROOF SHEATHING SHALL BE CONTINUOUS EXCEPT WHERE 22"x30" ACCESS IS REQ'D.
- 9. ALL FASTENERS PENETRATING PRESSURE TREATED LUMBER TO BE HOT DIPPED GALVANIZED.
- 10. SHEATHING NAILS OR OTHER APPROVED SHEATHING CONNECTORS SHALL BE DRIVEN SO THAT THEIR HEAD OR CROWN IS FLUSH WITH THE SURFACE OF THE SHEATHING IN ACCORDANCE WITH CBC2304.10.3.

SHEAR WALL SCHEDULE	
A	WALL SYSTEM STRENGTH: 173 PLF SEISMIC 242 PLF WIND
	3/8" STRUCTURAL WOOD PANELS (BLOCKED) NAILING: 8d (COMMON OR HOT DIPPED GALVANIZED) 6" O.C. @ EDGES 12" O.C. @ FIELD 1/2"Ø ANCHOR BOLT SPACING 72" W/ 2X P.T. SILL SILL SHEAR TRANSFER NAILING 16d @ 6" O.C. (COMMON, BOX OR SINKER)
B	WALL SYSTEM STRENGTH: 260 PLF SEISMIC 364 PLF WIND
	3/8" STRUCTURAL WOOD PANELS (BLOCKED) NAILING: 8d (COMMON OR HOT DIPPED GALVANIZED) 6" O.C. @ EDGES 12" O.C. @ FIELD 1/2"Ø ANCHOR BOLT SPACING 48" W/ 2X P.T. SILL SILL SHEAR TRANSFER NAILING 16d @ 4" O.C. (COMMON, BOX OR SINKER)
C	WALL SYSTEM STRENGTH: 361 PLF SEISMIC 505 PLF WIND
	3/8" STRUCTURAL WOOD PANELS (BLOCKED) NAILING: 8d (COMMON OR HOT DIPPED GALVANIZED) 6" O.C. @ EDGES 12" O.C. @ FIELD 1/2"Ø ANCHOR BOLT SPACING 24" W/ 2X P.T. SILL SILL SHEAR TRANSFER NAILING 16d @ 3" O.C. (COMMON, BOX OR SINKER)
D	WALL SYSTEM STRENGTH: 520 PLF SEISMIC 743 PLF WIND
	3/8" STRUCTURAL WOOD PANELS (BLOCKED) NAILING: 8d (COMMON OR HOT DIPPED GALVANIZED) 4" O.C. @ EDGES 12" O.C. @ FIELD 1/2"Ø ANCHOR BOLT SPACING 16" W/ 3X P.T. SILL 5/8"Ø ANCHOR BOLT SPACING 24" W/ 3X P.T. SILL SILL SHEAR TRANSFER NAILING (2) ROWS 16d @ 4" O.C. (COMMON, BOX OR SINKER)
E	WALL SYSTEM STRENGTH: 960 PLF SEISMIC 1344 WIND
	3/8" STRUCTURAL WOOD PANELS (BLOCKED) (2) SIDES NAILING: 10d (COMMON OR HOT DIPPED GALVANIZED) 3" O.C. @ EDGES 12" O.C. @ FIELD 1/2"Ø ANCHOR BOLT SPACING 13" W/ 3X P.T. SILL 5/8"Ø ANCHOR BOLT SPACING 18" W/ 3X P.T. SILL SILL SHEAR TRANSFER NAILING (2) ROWS 16d @ 3" O.C. (COMMON, BOX OR SINKER)



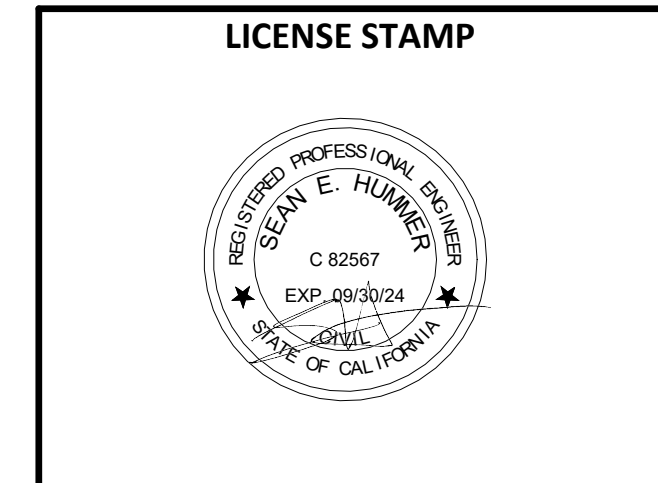
1 WALL LEGEND
1/4" = 1'-0"



PROJECT
COUNTY OF SHASTA
CALIFORNIA
SHASTA COUNTY PRE-APPROVED
ADUS
ADU 2 - 70PSF SNOW LOAD

REVISIONS

DATE	DESCRIPTION



CONSULTANT
HUMMER CONSULTING
ENGINEERING
CIVIL | STRUCTURAL

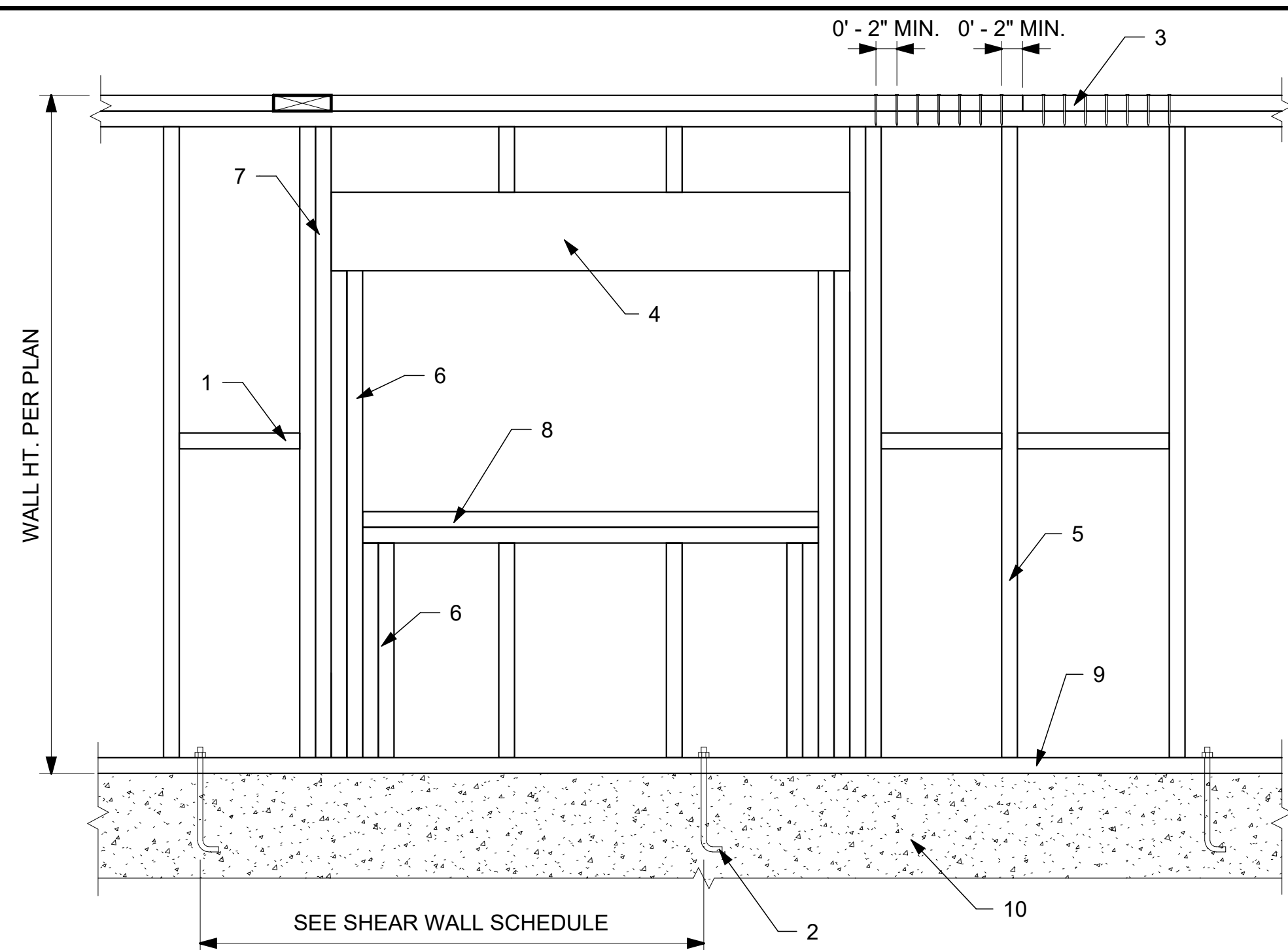
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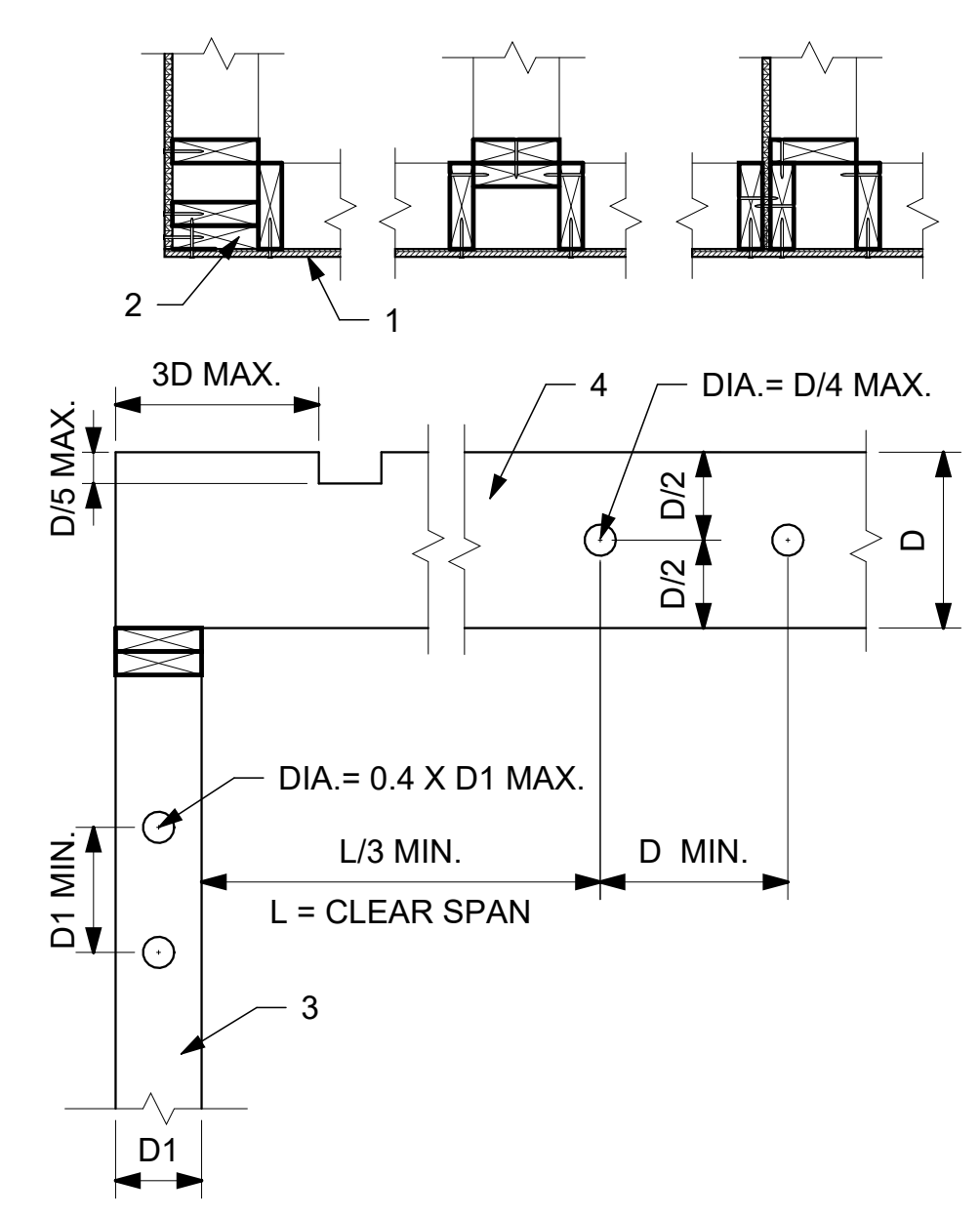
STRUCTURAL NOTES
S1

NOT FOR CONSTRUCTION



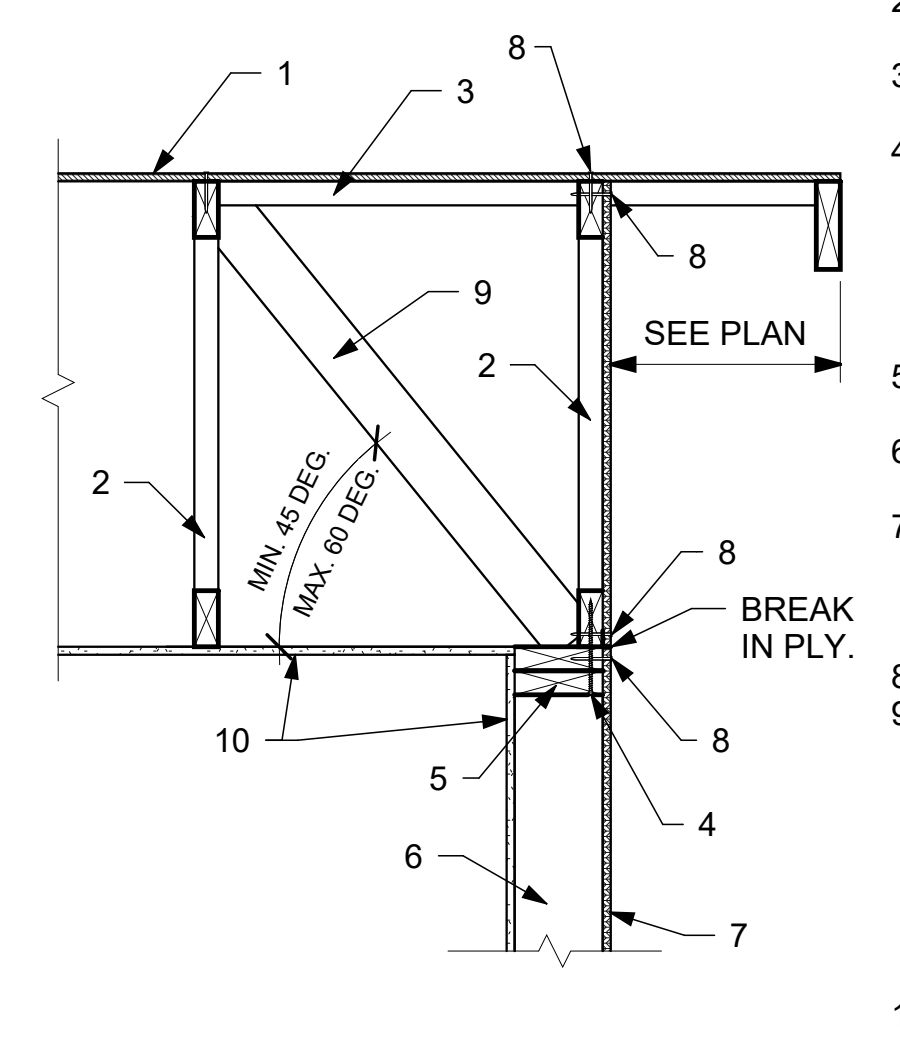
- 2X BLOCKING AS REQ'D FOR PLY EDGE NAILING.
- ANCHOR BOLTS SEE PLAN.
- DOUBLE 2X TOP PLATE WITH 4'-0" MIN SPLICE. LOWER AND UPPER PLATE SPLICES MUST OCCUR WITH A MINIMUM OF 4'-0" SEPARATION. (14) 16d SINKERS REQUIRED EACH SIDE OF SPLICE OR PLATE BREAK. REQ'D @ ALL EXT. AND INT. SHEAR WALL LINES.
- HEADER PER PLAN.
- 2X STUDS @ 24" O.C. TYP.
- (2) TRIMMERS REQ'D @ OPENINGS 8'-0" OR LARGER.
- (2) KING STUDS REQ'D @ OPENINGS 6'-0" OR LARGER.
- (2) SILLS REQ'D @ OPENINGS 6'-0" OR LARGER.
- 2X PTDF SILL PLATE, OR SOLE PLATE PER PLAN.
- FND. PER PLAN (OR FLOOR FRAMING, SEE PLAN).

1 TYP. WALL FRAMING
1" = 1'-0"



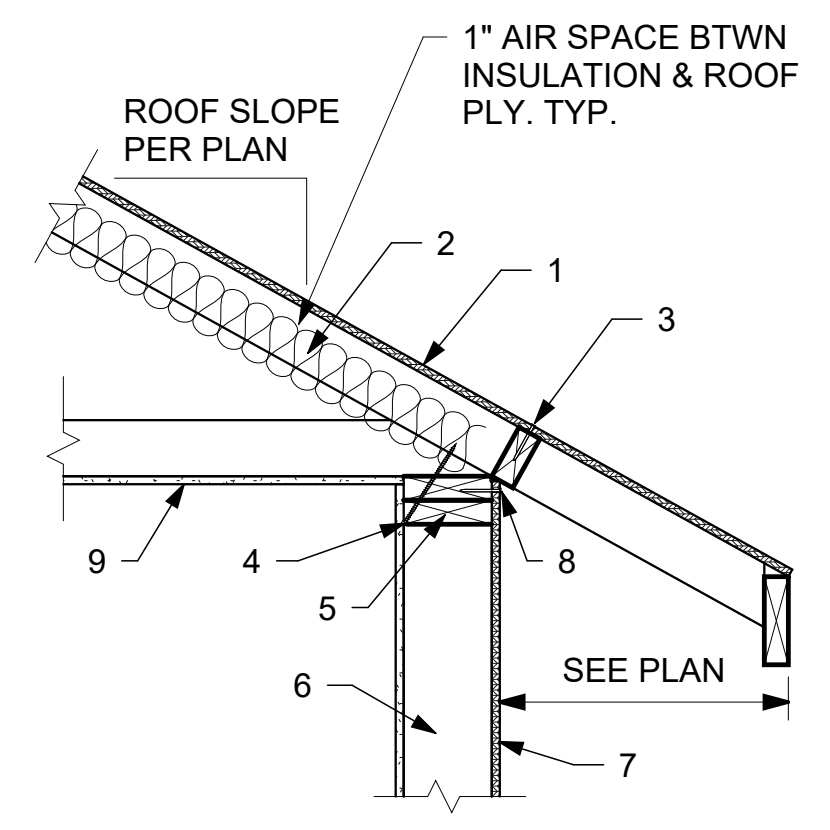
- 2X FRAMING OR POST AS REQUIRED FOR HOLDOWN. SEE PLAN.
- PLY. SEE PLAN FOR REQUIREMENTS. 2X WALL FRAMING. 2X FLOOR FRAMING. REFER TO MANUFACTURERS RECOMMENDATIONS FOR MANUFACTURED FLOOR JOIST PRODUCTS.

2 TYP. CORNERS/NOTCHES/HOLES
1" = 1'-0"



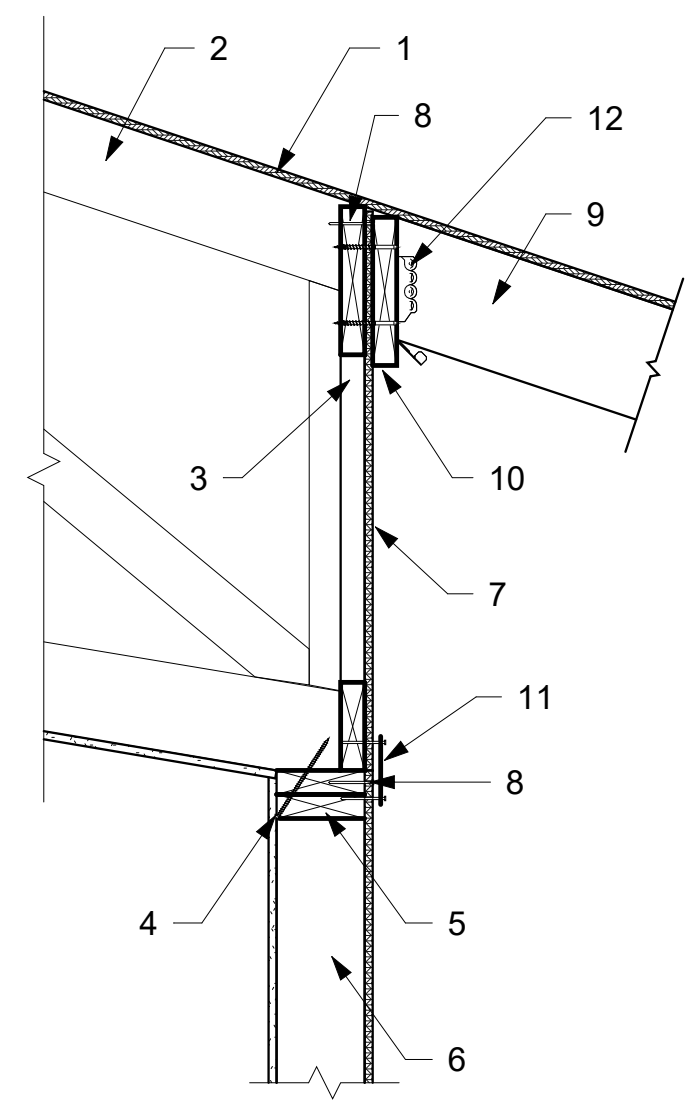
- ROOF PLY.
- MANUFACTURED TRUSS.
- FLAT OUTLOOKER @ 24" O.C.
- SIMPSON SDWC15600 TRUSS TO TOP PLATE @ 24" O.C. CAN BE SUBSTITUTED W/ TLOK06.
- DOUBLE TOP PLATES.
- 2X STUDS @ 24" O.C.
- SHEAR PLY AS REQ'D SEE SHEAR WALL SCHEDULE FOR PLY. NAILING.
- EDGE NAILING
- 2X KICKER @ 8" O.C. ATTACHED AT EA. END WITH SIMPSON A35 CLIP. MAX 2X4 UNBRACED LENGTH IS 6'-0" MAX 2X6 UNBRACED LENGTH IS 8'-0".
- GYP. PER PLAN.

3 SHEAR CONN. @ GABLE
1" = 1'-0"



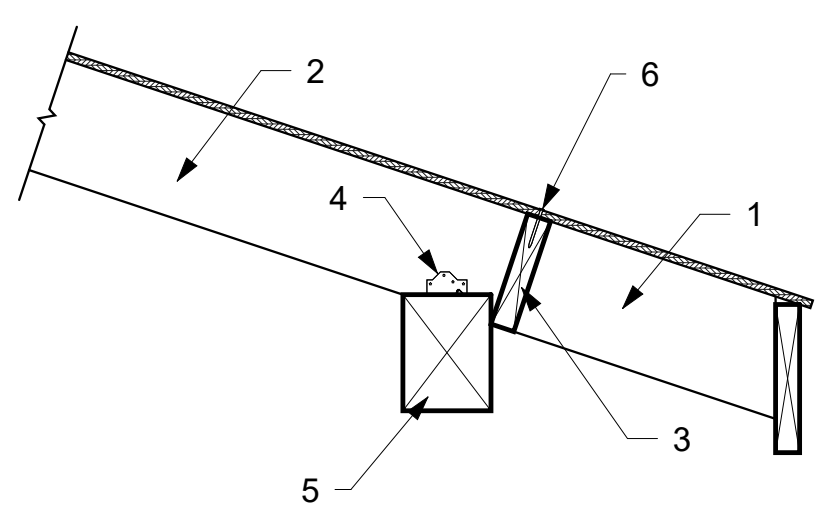
- ROOF PLY.
- MANUFACTURED TRUSS.
- 2X BLOCKING W/ (2) 8d TO TRUSS @ EA. END.
- SIMPSON SDWC15600 TRUSS SCREW EA TRUSS TYP.
- DOUBLE TOP PLATES.
- 2X STUDS @ 24" O.C.
- SHEAR PLY AS REQ'D SEE SHEAR WALL SCHEDULE FOR PLY. NAILING.
- EDGE NAILING.
- GYP. PER PLAN.

4 SHEAR CONN. @ EAVE
1" = 1'-0"

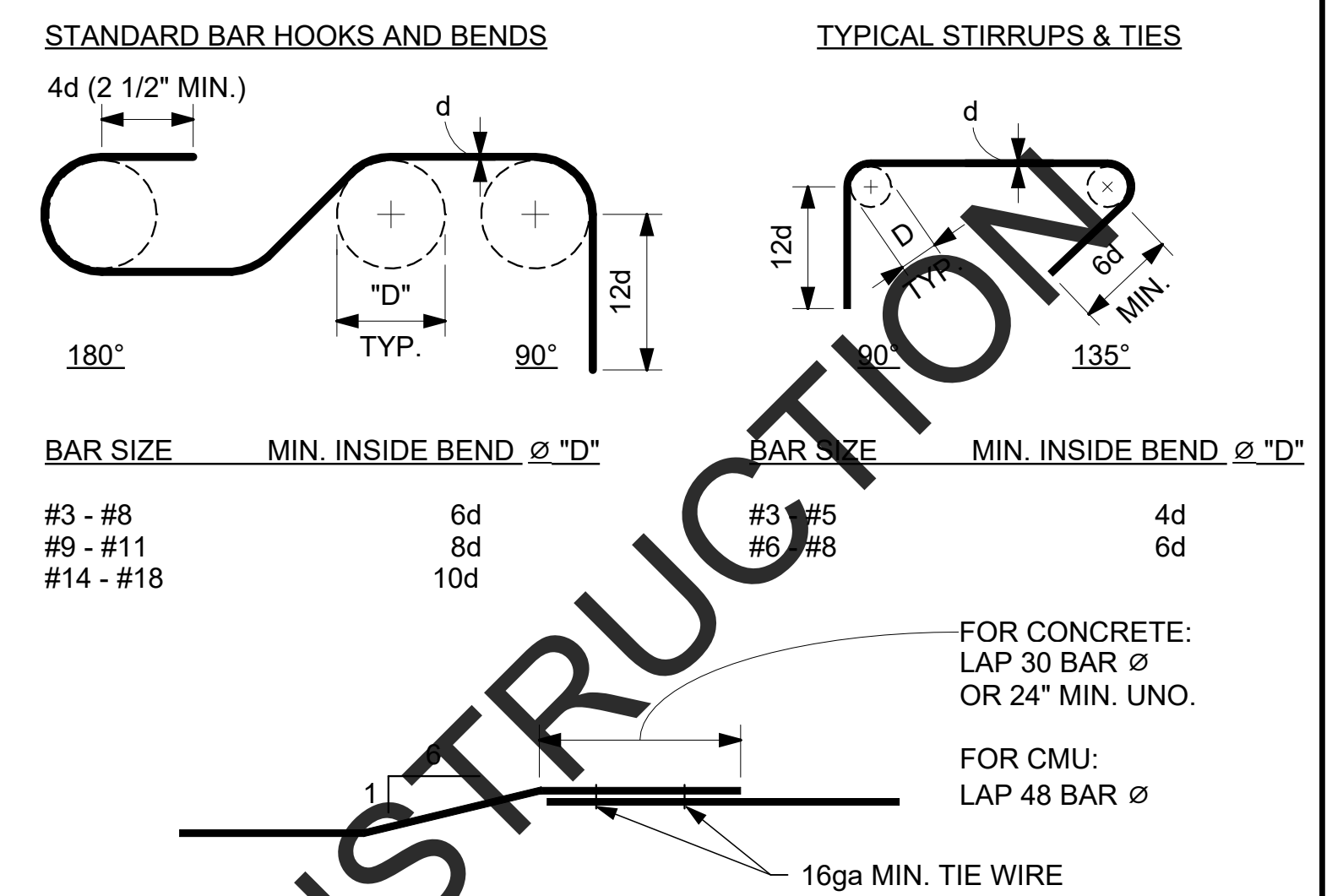


- ROOF PLY.
- MANUFACTURED TRUSS.
- TRUSS BLOCKING.
- SIMPSON SDWC15600 TRUSS TO TOP PLATE @ 24" O.C. CAN BE SUBSTITUTED W/ TLOK06.
- DOUBLE TOP PLATES.
- 2X STUDS @ 24" O.C.
- PLY. OR OSB BELOW SIDING TYP.
- EDGE NAILING
- ROOF JOIST PER PLAN.
- 2X10 LEDGER W/ (2) SDWS22400 @ 12" O.C.
- LTP4 @ 24" O.C. @ PLY. BREAK.
- LRU26Z EA. JOIST TO LEDGER TYP.

5 ROOF FRAMING CONN. @ PORCH
1" = 1'-0"



6 SHEAR TRANSFER @ PORCH BEAM
1" = 1'-0"



STANDARD BAR HOOKS AND BENDS

4d (2 1/2" MIN.)

180° TYP. 90°

BAR SIZE	MIN. INSIDE BEND Ø "D"
#3 - #8	6d
#9 - #11	8d
#14 - #18	10d

TYPICAL STIRRUPS & TIES

12d 6d 6d 135°

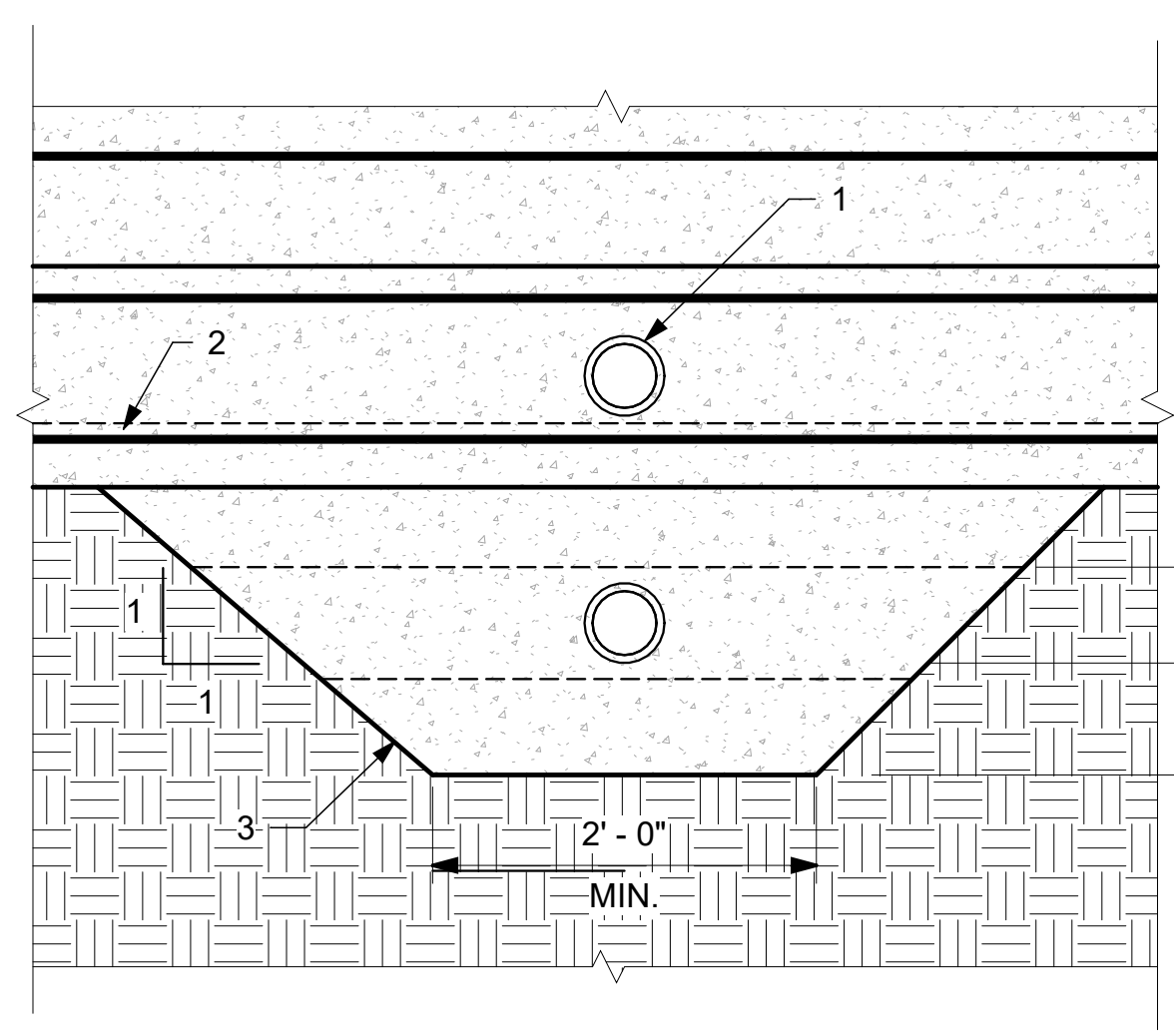
BAR SIZE	MIN. INSIDE BEND Ø "D"
#3 - #5	4d
#6 - #8	6d

FOR CONCRETE:
LAP 30 BAR Ø
OR 24" MIN. UNO.

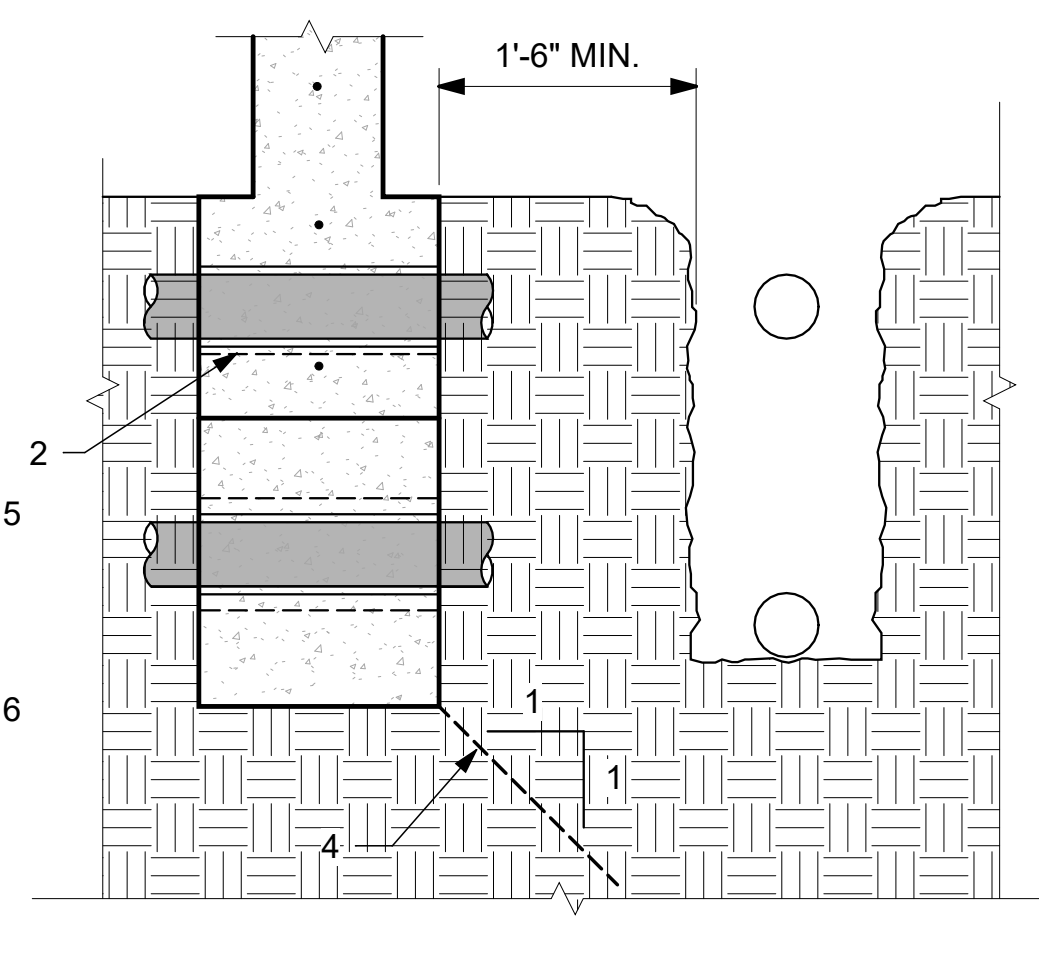
FOR CMU:
LAP 48 BAR Ø

16ga MIN. TIE WIRE

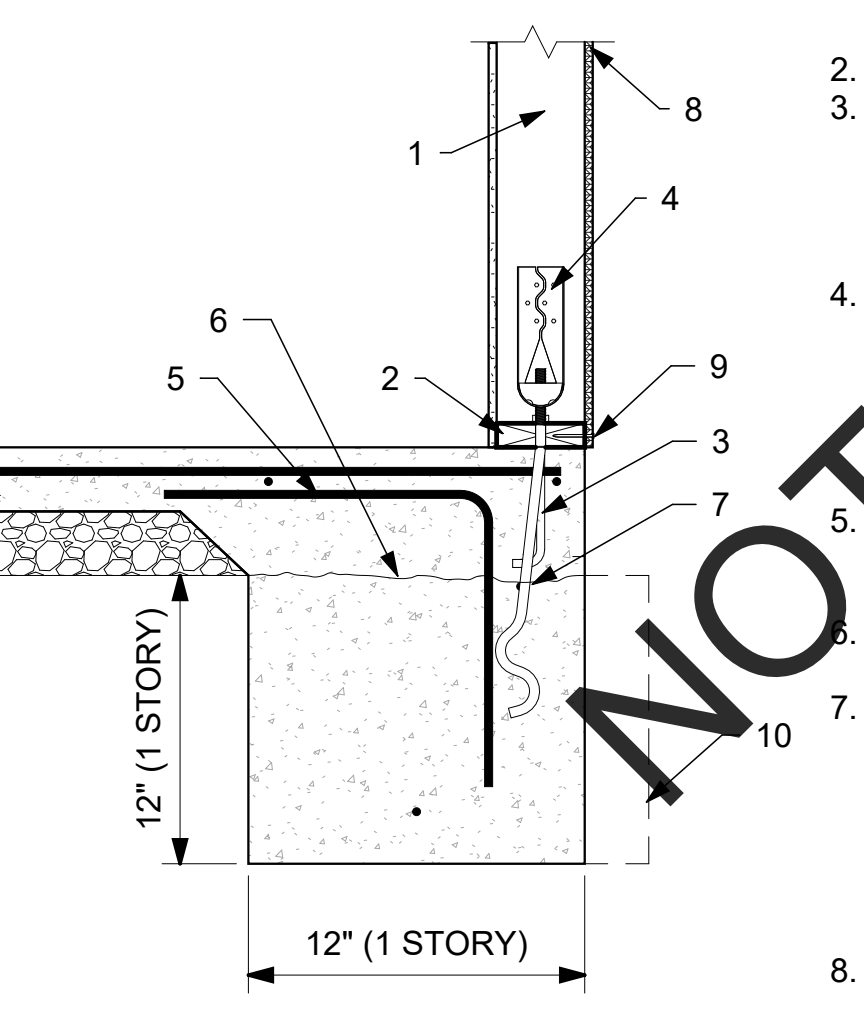
7 TYP. HOOKS & BENDS
1" = 1'-0"



8 TYP. PIPE PENETRATION
1" = 1'-0"

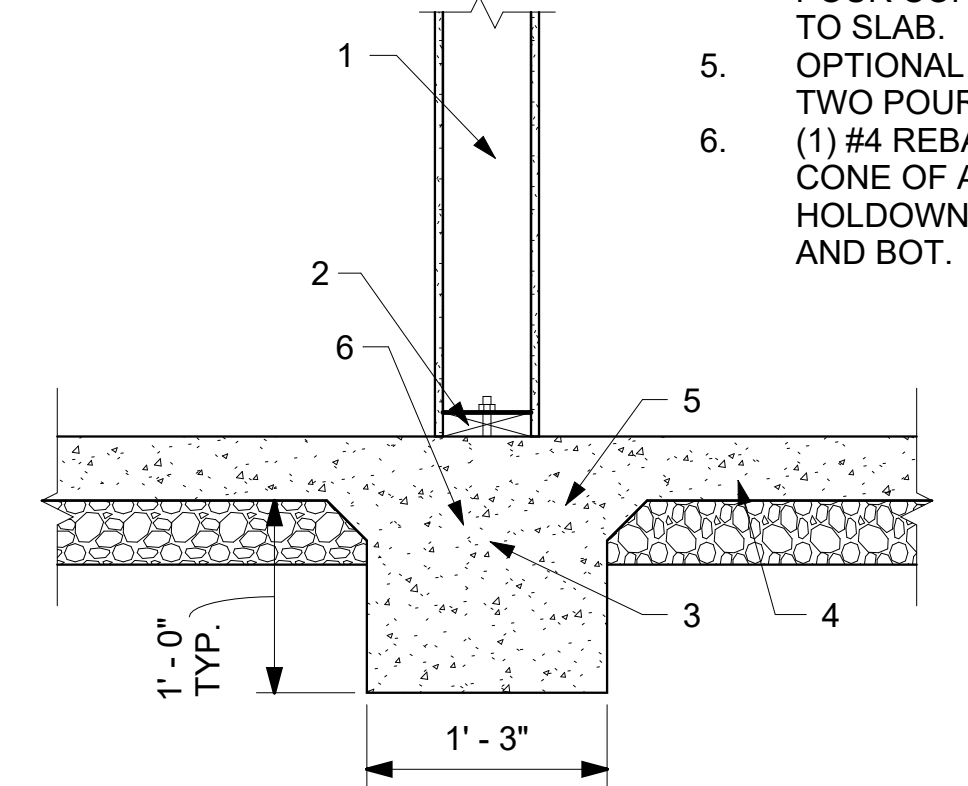


- INSIDE SLEEVE DIA. IS PIPE DIA. +1" MIN.
- NO PENETRATION ALLOWED WITH IN BOTTOM 1/3 OF FTG.
- DEEPEEN FOOTING IF PIPE IS TO RUN BELOW BOTTOM OF FOOTING.
- NO EXCAVATION ALLOWED BELOW THIS LINE.
- 4" MIN BELOW BOT. OF FOUNDATION.
- 6" MIN COVER BELOW PIPE SLEEVE.



9 SHEAR & HOLD DOWN CONN. @ FND
1" = 1'-0"

- DOUBLE 2X FRAMING OR 4x POST FOR HOLDOWN.
- PTDF SILL PLATE
- ANCHOR BOLT W/ 3x3x229 PLATE WASHER. SEE SHEAR SCHEDULE FOR SIZE AND SPACING.
- SIMPSON HOLDOWN, SEE PLAN FOR SIZE AND LOCATION.
- INS ALL PER MANUFACTURER'S SPECIFICATIONS.
- #4 DOWEL @ 32" O.C. @ TWO POUR CONDITION. OPTIONAL COLD JOINT FOR TWO POUR.
- (1) #4 REBAR WITHIN SHEAR CONE OF A.B.'S AND HOLDOWN, (1) #4 REBAR TOP AND BOT. REPLACE SSTB16 W/ SSTB20 AT TWO POUR CONDITION TYP.
- SHEAR PLY. PER PLANS.
- EDGE NAILING.
- OPTIONAL "T" SHAPED FOOTING.



10 SHEAR TRANSFER @ INT. SLAB FTG.
1" = 1'-0"

- WALL FRAMING @ 24" O.C.
- PTDF SILL PLATE.
- ANCHOR BOLT W/ 3x3x229 PLATE WASHER @ 72" O.C.
- #4 DOWEL @ 32" O.C. @ TWO POUR CONDITION, ALT. DIR. TO SLAB.
- OPTIONAL COLD JOINT FOR TWO POUR.
- (1) #4 REBAR WITHIN SHEAR CONE OF A.B.'S AND HOLDOWN, (1) #4 REBAR TOP AND BOT.



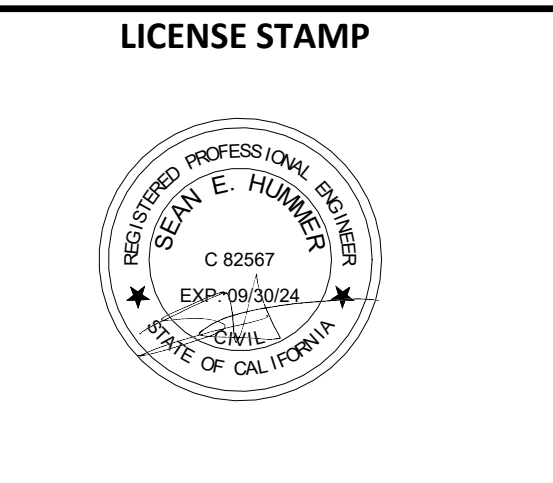
PROJECT

SHASTA COUNTY PRE-APPROVED ADUS

ADU 2 - 70PSF SNOW LOAD

REVISIONS

DATE	DESCRIPTION



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SET ISSUE DATE: 8/28/2023

FOUNDATION & FRAMING DETAILS

S3

Plot Date: 8/12/2023 1:05:03 PM
File Name: C:\Users\sean\Desktop\2023\03-20 Shasta County ADU\Plans\prelim\ADU 2 70PSF.rvt



PROJECT



SHASTA COUNTY PRE-APPROVED ADUS

ADU 2 - CASTELLA MODERN

REVISIONS

DATE	DESCRIPTION

LICENSE STAMP



CONSULTANT

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 SET ISSUE DATE: 8/7/2023

PLUMBING PLAN

P2.1

HOT WATER DIST. SYSTEMS

MANDATORY REQUIREMENTS FOR HOT WATER DISTRIBUTION SYSTEMS

PIPE INSULATION FOR ALL BUILDINGS

- ALL DOMESTIC HOT WATER SYSTEM PIPING CONDITIONS LISTED BELOW, WHETHER BURIED OR UNBURIED, MUST BE INSULATED PER CNC TABLE 120.3-A.
 - THE FIRST 5 FEET (1.5 METERS) OF HOT AND COLD WATER PIPES FROM THE STORAGE TANK.
 - ALL PIPING WITH A NOMINAL DIA. OF 3/4" (19 MILLIMETERS) OR LARGER.
 - ALL PIPING ASSOCIATED WITH A DOMESTIC HOT WATER RE-CIRCULATION SYSTEM REGARDLESS OF THE PIPE DIA.
 - PIPING FROM THE HEATING SOURCE TO THE STORAGE TANK OR BETWEEN TANKS.
 - PIPING BURIED BELOW GRADE.
 - ALL HOT WATER PIPES FROM THE HEATING SOURCE TO THE KITCHEN SINK.

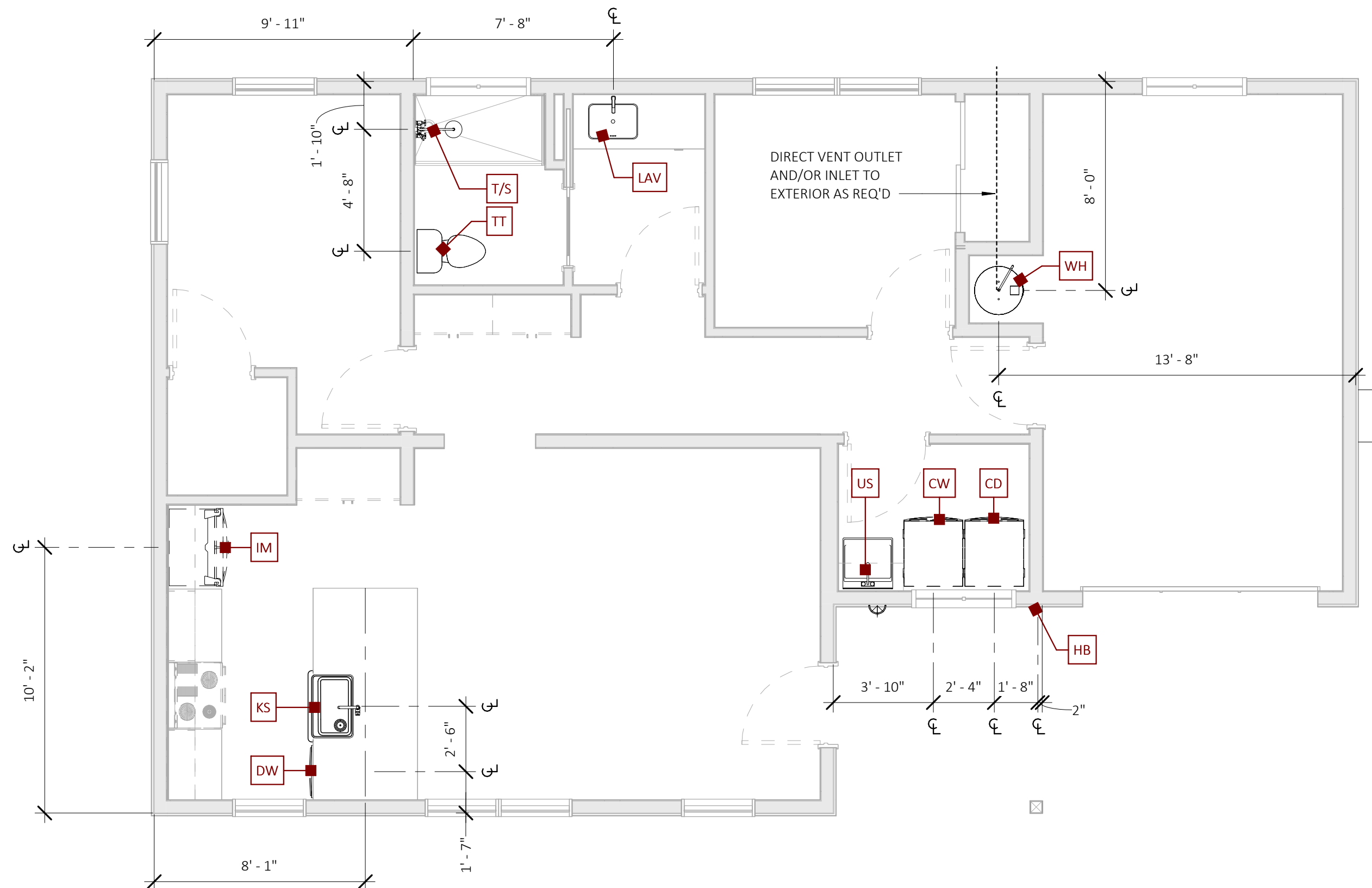
IN ADDITION TO INSULATION REQUIREMENTS, ALL DOMESTIC HOT WATER PIPES THAT ARE BURIED BELOW GRADE MUST BE INSTALLED IN A WATERPROOF AND NONCRUSHABLE CASING OR SLEEVE.

SHEET NOTES

- PLUMBING CODE ANALYSIS REFER SHEETS G4.0.
- ALL DIMENSIONS ARE FROM THE EXTERIOR FACE OF THE FOUNDATION OR FACE OF STUD.
- ANCHOR OR STRAP WATER HEATER TO RESIST EARTHQUAKE MOTION. CPC SECTION 507.2
- WATER OUTLETS WITH HOSE ATTACHMENTS AND HOSE BIBS MUST HAVE APPROVED NONREMOVABLE TYPE BACK FLOW PREVENTION DEVICES INSTALLED. CPC SECTION 603.5.7.
- PROVIDE MINIMUM OF 1/4" PER FT. SLOPE FOR HORIZONTAL DRAINAGE PIPE. CPC SECTION 708.
- NO VENT FROM INDIRECT WASTE PIPING SHALL COMBINE WITH A SEWER CONNECTED VENT, BUT SHALL EXTEND SEPARATELY TO OUTSIDE AIR. CPC SECTION 803.
- CLOTHES WASHER STANDPIPE RECEPTOR SHALL EXTEND BETWEEN 18 AND 30 INCHES ABOVE ITS TRAP. THE TRAP SHALL BE BETWEEN 6 AND 18 INCHES ABOVE THE FLOOR. PER CPC 804
- PRESSURE TEMPERATURE RELIEF VALVES SHALL TERMINATE OUTSIDE THE BUILDING WITHIN 6 TO 24 INCHES OF THE GROUND AND POINTING DOWN. SUCH DRAIN MAY TERMINATE AT OTHER APPROVED LOCATIONS. CPC SECTION 608.5(3).
- CLEAN OUTS SHALL BE PLACED INSIDE THE BUILDING NEAR THE CONNECTION BETWEEN THE BUILDING DRAIN AND THE BUILDING SEWER OR INSTALLED OUTSIDE THE BUILDING AT THE LOWER END OF THE BUILDING DRAIN AND BELOW GRADE. CPC SECTION 719.
- PROVIDE BONDING FROM COLD TO HOT WATER PIPING TO COMPLY WITH NEC SECTION 250.90.
- NO DOMESTIC DISHWASHER SHALL BE CONNECTED TO A DRAINAGE SYSTEM OR FOOD WASTE DISPOSER WITHOUT THE USE OF AN APPROVED DISHWASHER AIR GAP FITTING. CPC SECTION 807.3.
- SHOWER VALVES SHALL BE AN INDIVIDUAL CONTROL VALVE OF THE PRESSURE BALANCE OR THERMOSTATIC MIXING VALVE TYPE. HANDLE POSITION STOPS SHALL BE PROVIDED ON SUCH VALVES TO LIMIT MIXED WATER TO A MAXIMUM TEMPERATURE OF 120 DEGREES FAHRENHEIT. CPC SECTION 408.3.
- WATER CLOSET SHALL BE MAXIMUM 1.28 GALLONS PER FLUSH. CPC 411.2
- SHOWERS AND TUB-SHOWER COMBINATIONS SHALL HAVE INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE OR THE THERMOSTATIC MIXING VALVE TYPE. CPC 408.3
- FIRST HOUR RATING (GALLONS) OF THE WATER HEATER AS SHOWN IN CPC TABLE 501.1
- WATER HEATERS (GENERATING A GLOW, SPARK OR FLAME CAPABLE OF IGNITING FLAMMABLE VAPORS) SHALL BE INSTALLED 18 INCHES MINIMUM ABOVE THE GARAGE FLOOR. CPC 507.13
- PROVIDE PROTECTION FOR WATER HEATER IN GARAGE TO PREVENT FROM VEHICLE IMPACT (e.g., BOLLARD) CPC 507.13.1
- PRIOR TO FINAL PERMIT APPROVAL THE PERMIT APPLICANT SHALL REPLACE ALL NON COMPLIANT PLUMBING FIXTURES WITH WATER-CONSERVING PLUMBING FIXTURES. SEC 1101.1-1101.9 CALIFORNIA CIVIL CODE

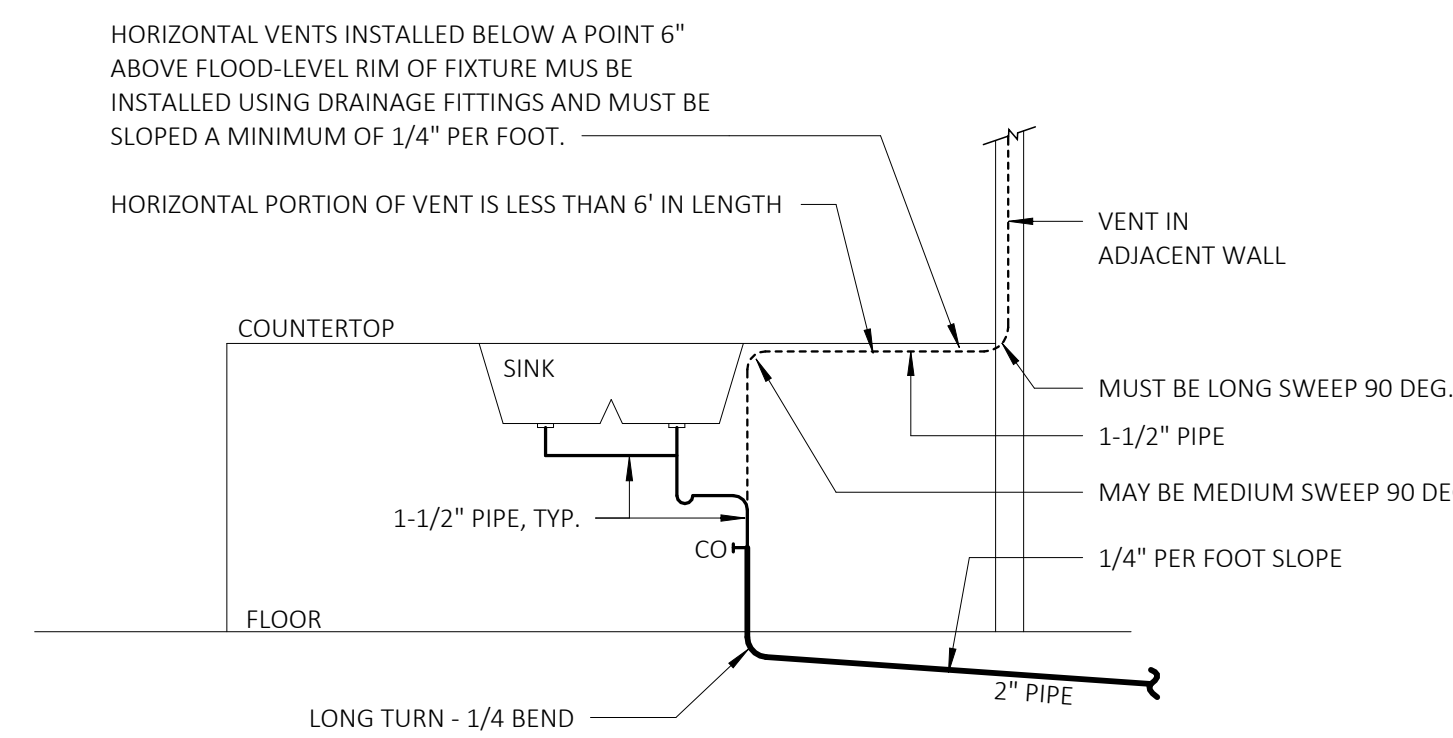
PIPING EQUIPMENT SCHEDULE

TAG	FIXTURE	REQUIREMENT
TT	TOILETS	OWNER OPTION - CERAMIC GRAVITY TANK TOILET 1.28 GALLONS PER FLUSH MAXIMUM
LAV	LAVATORIES	OWNER OPTION - FAUCET - 1.2 GPM AT 60 PSI MAXIMUM / 0.8 GPM AT 20 PSI MIN
T/S	TUB / SHOWER	OWNER OPTION - SHOWER HEAD - 1.8 GPM AT 80 PSI MAXIMUM (TUB & SHOWER VALVES WITH SCAULD GUARD AND PRESSURE BALANCE)
KS	KITCHEN SINK	OWNER OPTION - FAUCET - 1.8 GPM AT 60 PSI
IM	ICE MAKER VALVE BOX	OWNER OPTION RECESSED BOX WITH 1/4 TURN BALL VALVE
CW	CLOTHES WASHER OUTLET BOX	GUY GREY FR-12 FIRE-RATED METAL BOX (OR EQUAL) WITH WATER HAMMER ARRESTORS RECESSED BOX WITH 1/4 TURN BALL VALVE CONNECTIONS 2" DRAIN OUTLET SET 48" A.F.F.
CD	CLOTHES DRYER	OWNER OPTION - --
WH	WATER HEATER	HYBRID ELECTRIC TANK - RE: ENERGY DOCUMENTS 40 GALLON RHEEM HPLD401RH DIRECT VENT INLET & OUTLET THROUGH EXTERIOR WALL
HB	HOSE BIB	OWNER OPTION - FROST-FREE, SELF-DRAINING
FS	FIRE PROTECTION BACKFLOW PREVENTOR	WILKINS 975 (OR EQUAL) REDUCED PRESSURE PRINCIPAL DETECTOR, SIZE - 2" WITH STRAINER
BF	DOMESTIC WATER BACKFLOW PREVENTOR	WILKINS 975XL (OR EQUAL) REDUCED PRESSURE PRINCIPAL BACKFLOW PREVENTOR, SIZE - 1 1/2" WITH STRAINER
WP	WATER PURIFIER	OWNER OPTION TO ADD, RECOMMENDED-NOT SHOWN
FSR	FIRE SPRINKLER RISER	MINIMUM 1-1/2" DIAMETER FIRE SPINKLER RISER RE: DEFERRED APPROVAL WHERE REQUIRED
DW	DISHWASHER	OWNER OPTION - INSTALL DISHWASHER ON SHEET METAL PAN WITH 1-1/2" DRAIN TO EXTERIOR. PRIME DRAIN TRAP W/ MINERAL OIL & TAPE PAN ON (3) SIDES TO WALL AND CABINETS
US	UTILITY SINK	OWNER OPTION - FAUCET - 1.8 GPM AT 60 PSI
CO	CLEAN-OUT	PLUMBER OPTION - --

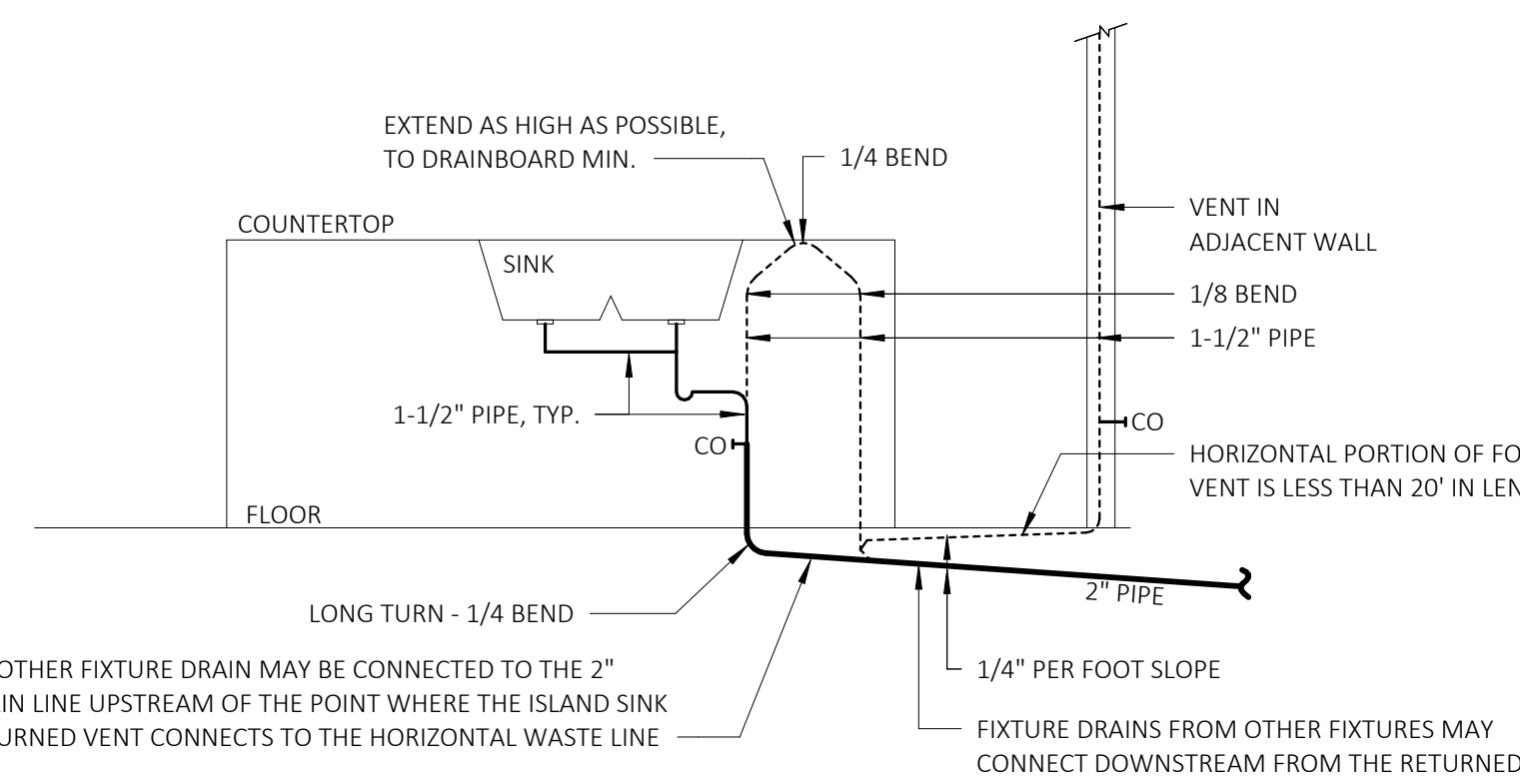


1 PLUMBING FLOOR PLAN

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

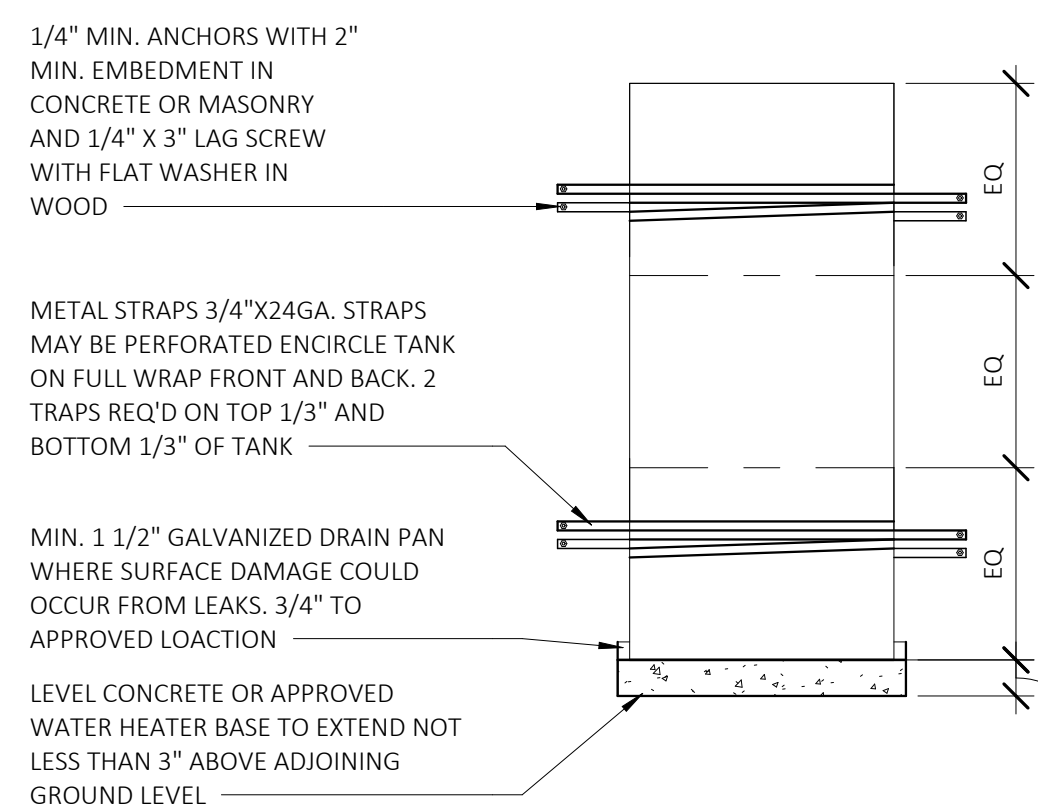


PENINSULA SINK INSTALLATION



ISLAND SINK INSTALLATION

PER 2022 CPC SECTION 909.0, DETAILS FROM IAPMO REFERENCE GUIDE, FIGURED 909.1A AND 909.1B



2 WATER HEATER STRAP DETAIL

SCALE: 3/4" = 1'-0"

3 ISLAND LOOP VENT DETAIL

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

NOT FOR CONSTRUCTION

PIPING MATERIAL SCHEDULE

LABEL	FIXTURE	WASTE	VENT	CW	HW	CLEANOUT
WC	WATER CLOSET	3"	2"	1/2"	-	YES
LAV	LAVATORY	2"	1 1/2"	1/2"	1/2"	YES
T/S	TUB/SHOWER	2"	1 1/2"	1/2"	1/2"	YES
S	SINK	2"	1 1/2"	1/2"	1/2"	YES
D.W.	DISHWASHER	2"	1 1/2"	1/2"	1/2"	NO
CW	CLOTHES WASHER	2"	1 1/2"	1/2"	1/2"	NO
WH	WATER HEATER	-	1 1/2"	3/4"	3/4"	NO
HB	HOSE BIB	-	-	3/4"	-	NO

NOTE:
 NOT ALL ITEMS MAY BE USED

ELECTRICAL NOTES

- GROUND-FAULT CIRCUIT-INTERRUPTION PROTECTION FOR PERSONNEL SHALL BE PROVIDED AS REQUIRED IN CEC 210.8(A) THROUGH (C). THE GROUND-FAULT CIRCUIT INTERRUPTER SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION.
 - BATHROOMS
 - GARAGES, ACCESSORY STORAGE OR SIM. BUILDINGS
 - OUTDOORS & ROOFTOPS
 - CRAWL SPACES
 - UNFINISHED BASEMENTS
 - ALL RECEPTACLES WITHIN 6' OF A TUB, SHOWER, OR SINK
 - KITCHENS RECEPTACLES SERVING COUNTERTOP SURFACES
 - LAUNDRY/UTILITY ROOM
 - DISHWASHERS
- BRANCH CIRCUITS FOR LIGHTING AND FOR APPLIANCES SHALL BE PROVIDED TO SUPPLY THE LOADS CALCULATED IN ACCORDANCE WITH CEC 220.10 IN ADDITION BRANCH CIRCUITS SHALL BE PROVIDED FOR SPECIFIC LOADS NOT COVERED BY CEC 220.10 WHERE REQUIRED ELSEWHERE IN THIS CODE AND FOR DWELLING UNIT LOADS AS SPECIFIED IN CEC 210.11(C)
- IN ADDITION TO THE NUMBER OF BRANCH CIRCUITS REQUIRED BY OTHER PARTS OF SECTION 210, TWO OR MORE 20-AMPERE SMALL APPLIANCE BRANCH CIRCUITS SHALL BE PROVIDED FOR ALL RECEPTACLE OUTLETS SPECIFIED BY CEC 210.52(B). AT LEAST ONE ADDITIONAL 20-AMP CIRCUIT SHALL BE PROVIDED TO SUPPLY THE LAUNDRY OUTLETS REQUIRED BY CEC 210.52(F). AT LEAST ONE 120 VOLT, 20 AMPERE CIRCUIT SHALL BE PROVIDED TO SUPPLY BATHROOM OUTLETS. THESE CIRCUIT SHALL HAVE NO OTHER OUTLETS.
- IN EA. ATTACHED GARAGE AND EA. DETACHED GARAGE RECEPTACLE OUTLETS MUST HAVE A SEPARATE BRANCH CIRCUIT WITH AT LEAST ONE RECEPTACLE FOR EACH CAR PARKING SPACE. CEC 210.52(G) OUTDOOR WEATHER PROOF 15 OR 20 AMP, 125 OR 250 VOLT RECEPTACLES MUST BE LISTED AS WEATHER-RESISTANT TYPE WHEN THE PLUG IS INSERTED. CEC 406.9 (B)
- ARC-FAULT CIRCUIT-INTERRUPTER PROTECTION PER CEC 210.12 SHALL BE PROVIDED AS REQUIRED IN CEC 210.12(A)(B) AND (C). THE ARC FAULT DEVICE SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION. ALL 120-VOLT, SINGLE PHASE, 15 AND 20 AMPERE BRANCH CIRCUITS SUPPLY OUTLETS OR DEVICES INSTALLED IN KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, REC ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY MEANS DESCRIBED IN CEC 210.12(A)(1)-(6).
- THE MAXIMUM LENGTH OF THE BRANCH CIRCUIT TO THE AFCI IS 50' FOR 14 AWG CONDUCTORS OR 70' FOR 12 AWG CONDUCTOR CEC 210.12
- GROUND FAULT PROTECTION OF BRANCH CIRCUIT(S) 1000 AMPS OR MORE AND OVER 150V TO GROUND IS REQUIRED CEC 210.13.
- AN OUTLET INSTALLED FOR THE PURPOSE OF CHARGING ELECTRIC VEHICLES SHALL BE SUPPLIED BY A SEPARATE BRANCH CIRCUIT. THIS CIRCUIT SHALL HAVE NO OTHER OUTLETS.
- BRANCH CIRCUIT CONDUCTORS MIN. AMPACITY AND SIZE PER CEC 210.19(A) & (B). 210.19 (A) (1) GENERAL. BRANCH CIRCUIT CONDUCTORS SHALL HAVE AN AMPACITY NOT LESS THAN THE MAXIMUM LOAD TO BE SERVED. CONDUCTORS SHALL BE SIZED TO CARRY NOT LESS THAN THE LARGER OF CEC 210.19(A)(1)(a) OR (b).
- OVERCURRENT PROTECTION PER CEC 210.20 BRANCH-CIRCUIT CONDUCTORS AND EQUIPMENT SHALL BE PROTECTED BY OVERCURRENT PROTECTIVE DEVICES THAT HAVE A RATING OR SETTING THAT COMPLIES WITH CEC 210.20(A)-(D).
- OUTLET DEVICES SHALL HAVE AN AMPERE RATING THAT IS NOT LESS THAN THE LOAD TO BE SERVED AND SHALL COMPLY WITH CEC 210.21(A) & (B).
- AN INDIVIDUAL BRANCH CIRCUIT SHALL BE PERMITTED TO SUPPLY ANY LOAD FOR WHICH IT IS RATED, BUT IN NO CASE SHALL THE LOAD EXCEED THE BRANCH-CIRCUIT AMPERE RATING. CEC 210.22 MULTIPLE-OUTLET PERMISSIBLE LOADS PER CEC 210.23.
- RECEPTACLE OUTLETS PER CEC 210.52 (A)(1) SPACING. RECEPTACLES SHALL BE INSTALLED SUCH THAT NO POINT MEASURED HORIZONTALLY ALONG THE FLOOR LINE OF ANY WALL SPACE IS MORE THAN 6' FROM AN OUTLET IN EVERY KITCHEN, FAMILY ROOM, DINING ROOM, LIVING ROOM, PARLOR, LIBRARY, DEN, SUNROOM, BEDROOM, REC. ROOM, OR SIM.
- KITCHEN RECEPTACLES PER CEC 210.52 (3)(C)(1) A RECEPTACLE OUTLET SHALL BE INSTALLED AT EA. WALL COUNTERTOP SPACE THAT IS 12" OR WIDER. (3)(C)(2) AT LEAST ONE RECEPTACLE SHALL BE INSTALLED AT EACH ISLAND COUNTERTOP SPACE WITH A DIMENSION OF 24" OR GREATER AND A SHORT DIMENSION OF 12" OR GREATER. (3)(C)(3) AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED AT EA. PENINSULAR COUNTERTOP SPACE WITH A LONG DIMENSION OF 24" OR GREATER AND A SHORT DIMENSION OF 12" OR GREATER.
- BATHROOMS TO HAVE AT LEAST ONE RECEPTACLE OUTLET INSTALLED IN WITHIN 3 FEET OF THE OUTSIDE EDGE OF EACH BASIN ADJACENT TO THE BASIN OR BASIN COUNTERTOP CEC 210.52 (D).
- OUTDOOR RECEPTACLE OUTLETS SHALL BE INSTALLED IN ACCORDANCE WITH CEC 210.52(E)(1)-(E)(3) AT LEAST ONE RECEPTACLE READILY ACCESSIBLE FROM GRADE AND NOT MORE THAN 6 1/2' ABOVE GRADE LEVEL SHALL BE INSTALLED IN THE FRONT AND BACK OF THE DWELLING.
- PROVIDE AN OUTDOOR WEATHER PROOF GFI RECEPTACLE WITHIN 25' OF EXTERIOR MECHANICAL EQUIPMENT PER CEC 210.63.
- PROVIDE DISCONNECT WITHIN SIGHT OF AIR CONDITIONING EQUIPMENT PER CEC 440.14. PROVIDE 30" WIDE X 36" DEEP WORKING CLEARANCE AT AC DISCONNECT PER CEC110-26.(A)
- SMOKE DETECTORS REQUIRED IN ALL BEDROOMS, HALLWAYS LEADING TO BEDROOMS AND VAULTED CEILING MORE THAN 24" HIGHER THAN HALLWAY PER CRC R314
- SMOKE DETECTORS SHALL BE HARD WIRED, INTERCONNECTED, W/ BATTERY BACKUP, & AUDIBLE IN ALL BEDROOMS PER CRC R314
- AN APPROVED CARBON MONOXIDE ALARM SHALL BE INSTALLED IN DWELLING UNITS AND IN SLEEPING UNITS WITHIN WHICH FUEL-BURNING APPLIANCES ARE INSTALLED AND IN DWELLING UNITS THAT HAVE ATTACHED GARAGES. PER CRC SECTION R315.
- CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM ELECTRICAL MAIN & SHALL BE EQUIPPED WITH BATTERY BACKUP.
- PROVIDE LIGHT & PLUG IN ATTIC TO ACCESS AND SERVICE MECHANICAL EQUIPMENT. LIGHT MUST BE FLOURESCENT OR HAVE A DIMMER SWITCH.
- VENTILATION SYSTEM CONTROLS SHALL BE LABELED "TO MAINTAIN MIN. LEVELS OF OUTSIDE AIR VENTILATION REQUIRED FOR GOOD HEALTH THE FAN SHOULD BE ON AT ALL TIMES WHEN THE BUILDING IS OCCUPIED, UNLESS THERE IS SEVERE OUTDOOR AIR CONTAMINATION" AND THE HOME OWNER SHALL BE PROVIDED WITH WITH INSTRUCTIONS ON HOW TO OPERATE THE SYSTEM.
- NEWLY CONSTRUCTED ONE AND TWO FAMILY DWELLINGS WITH AN ATTACHED PRIVATE GARAGE(S) SHALL COMPLY WITH ELECTRIC VEHICLE CHARGING INFRASTRUCTURE REQUIREMENTS IN ACCORDANCE WITH THE CGBC, CHAPER 4, SECTION 4.106
- PROVIDE AN INTERSYSTEM BONDING ELECTRODE WHICH INCLUDES TREE GROUNDING OR BONDING CONDUCTORS REQUIRED FOR COMMUNICATIONS SYSTEMS. SHALL BE INSTALLED EXTERNALLY AT THE SERVICE ENTRANCE PANEL AS SPECIFIED IN CEC 800.100(B) AND 250.94
- PROVIDE UFER OR OTHER APPROVED GROUND [CEC 250.50]

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	VACANCY SENSOR
	SINGLE POLE SWITCH
	3 WAY SWITCH
	4 WAY SWITCH
	DIMMER SWITCH
	FAN SWITCH WITH INTEGRAL HUMIDISTAT
	110V OUTLET
	110V HALF HOT OUTLET
	220V OUTLET
	DUPLEX
	DEDICATED OUTLET
	PHONE OUTLET
	TELEVISION OUTLET
	CEILING MOUNT PENDANT FIXTURE
	WALL MOUNT BRACKETS
	RECESSED CAN FIXTURE
	RECESSED CAN FIXTURE - VAPOR PROOF
	AIMABLE RECESSED CAN FIXTURE
	EXHAUST FAN
	EXHAUST FAN WITH LIGHT
	DECORATIVE WALL FIXTURE (HIGH EFFICIENCY)
	FLOURESCENT FIXTURE (HIGH EFFICIENCY)
	OVER OR UNDERCOUNTER LIGHTING (HIGH EFFICIENCY)
	GARBAGE DISPOSAL
	GARAGE DOOR OPENER
	DOOR BELL
	DOOR CHIME
	SMOKE/CARBON DETECTOR
	MOTION DETECTOR
	DISCONNECT SWITCH
	CEILING FAN
	FAN WITH LIGHT
	STRUCTURED WIRING
	STEP LIGHT
	ELECTRICAL METER
	ELECTRICAL DISCONNECT
	ELECTRICAL PANEL
	SPEAKER
	VP VAPOR PROOF
	WP WEATHER PROOF
	GFI GROUND FAULT INTERCEPTOR
	LV LOW VOLTAGE
	OS OUTSIDE
	GD GARAGE DISPOSAL
	DW DIRECT WIRE

ENERGY CODE REQUIREMENTS

- 150.0(K) RESIDENTIAL LIGHTING.
 - LUMINAIRE REQUIREMENTS.
 - LUMINAIRE EFFICACY. ALL INSTALLED LUMINAIRES SHALL BE HIGH-EFFICACY IN ACCORDANCE WITH TABLE 150.0-A.
 - BLANK ELECTRICAL BOXES. THE NUMBER OF ELECTRICAL BOXES THAT ARE MORE THAN 5 FEET ABOVE THE FINISHED FLOOR AND DO NOT CONTAIN A LUMINAIRE OR OTHER DEVICE SHALL BE NO GREATER THAN THE NUMBER OF BEDROOMS. THESE ELECTRICAL BOXES MUST BE SERVED BY A DIMMER, VACANCY SENSOR CONTROL, OR FAN SPEED CONTROL.
 - RECESSED DOWNLIGHT LUMINAIRES IN CEILINGS. LUMINAIRES RECESSED INTO CEILINGS SHALL MEET ALL OF THE FOLLOWING REQUIREMENTS:
 - BE LISTED, AS DEFINED IN SECTION 100.1, FOR ZERO LABORATORIES OR OTHER NATIONALLY RECOGNIZED TESTING/ RATING LABORATORY; AND
 - HAVE A LABEL THAT CERTIFIES THE LUMINAIRE IS PASCALS WHEN TESTED IN ACCORDANCE WITH REQUIRE TO BE CERTIFIED AIRTIGHT; AND
 - BE SEALED WITH A GASKET OR CAULK BETWEEN ALL AIR LEAK PATHS BETWEEN CONDITIONED AND CAULK; AND
 - FOR LUMINAIRES WITH HARDWIRED BALLASTS OR DRIVERS, ALLOW BALLAST OR DRIVER MAINTENANCE AND REPLACEMENT TO BE READILY CEILING WITHOUT REQUIRING THE CUTTING OF HOLES INT THE CEILING; AND
 - SHALL NOT CONTAIN SCREW BASE SOCKETS; AND
 - SHALL CONTAIN LIGHT SOURCES THAT COMPLY WITH REFERENCES JOINT APPENDIX JA8, INCLUDING THE ELEVATED TEMPERATURE REQUIREMENTS, AND THAT ARE MARKED "JA8-2016-E" AS SPECIFIED IN REFERENCE JOINT APPENDIX JA8.
 - ELECTRONIC BALLASTS. BALLASTS FOR FLOURESCENT LAMPS RATED 13 WATTS OR GREATER SHALL BE ELECTRONIC AND SHALL HAVE AN OUTPUT FREQUENCY NO LESS THAN 20 KHZ.
 - NIGHT LIGHTS. PERMANENTLY INSTALLED NIGHT LIGHTS AND NIGHT LIGHTS INTEGRAL TO INSTALLED LUMINAIRES OR EXHAUST FANS SHALL BE RATED TO CONSUME NO MORE THAN FIVE WATTS OF POWER PER LUMINAIRE OR EXHAUST FAN AS DETERMINED IN ACCORDANCE WITH SECTION 130.0(C). NIGHT LIGHTS SHALL NOT BE REQUIRED TO BE CONTROLLED BY VACANCY SENSORS.
 - LIGHTING INTEGRAL TO EXHAUST FANS. LIGHTING INTEGRAL TO EXHAUST FANS SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 150.0(K).
 - EXCEPTION TO SECTION 150.0(K)1F: LIGHTING INSTALLED BY THE MANUFACTURER IN KITCHEN EXHAUST HOODS.
 - SCREW BASED LUMINAIRES. SCREW BASED LUMINAIRES SHALL MEET ALL OF THE FOLLOWING REQUIREMENTS.
 - THE LUMINAIRES SHALL NOT BE RECESSED DOWNLIGHT LUMINAIRES IN CEILINGS; AND
 - THE LUMINAIRES SHALL CONTAIN LAMPS THAT
 - THE INSTALLED LAMPS SHALL BE MARKED WITH REFERENCE JOINT APPENDIX JA8.
 - EXCEPTION TO SECTION 150.0(K)1G: LUMINAIRES WITH HARD-WIRED BALLASTS FOR HIGH INTENSITY DISCHARGE LAMPS.
 - ENCLOSED LUMINAIRES. LIGHT SOURCES THAT ARE NOT MARKED "JA8-2016-E" SHALL NOT BE INSTALLED IN ENCLOSED LUMINAIRES.
- INTERIOR LIGHTING SWITCHING DEVICES AND CONTROLS.
 - ALL FORWARD PHASE CUT DIMMERS USED WITH LED LIGHT SOURCES SHALL COMPLY WITH NEMA SSL 7A.
 - EXHAUST FANS SHALL BE SWITCHED SEPARATELY FROM LIGHTING SYSTEM.
 - EXCEPTION TO SECTION 150.0(K)2B: LIGHTING INTEGRAL TO AN EXHAUST FAN MAY BE ON THE SAME SWITCH AS THE FAN PROVIDED THE LIGHTING CAN BE SWITCHED OFF IN ACCORDANCE WITH THE APPLICABLE PROVISIONS IN SECTION 150.0(K)2 WHILE ALLOWING THE FAN TO CONTINUE TO OPERATE FOR AN EXTENDED PERIOD OF TIME.
 - LUMINAIRES SHALL BE SWITCHED WITH READILY ACCESSIBLE CONTROLS THAT PERMIT THE LUMINAIRES TO BE MANUALLY SWITCHED ON AND OFF.
 - LIGHTING CONTROLS AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
 - NO CONTROLS SHALL BYPASS A DIMMER OR VACANCY SENSOR FUNCTION WHERE THAT DIMMER OR VACANCY SENSOR HAS BEEN INSTALLED TO COMPLY WITH SECTION 150.0(K).
 - LIGHTING CONTROLS SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF SECTION 110.9.
 - AN ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) MAY BE USED TO COMPLY WITH DIMMER REQUIREMENTS IN SECTION 150.0(K) IF AT A MINIMUM IT PROVIDES THE FUNCTIONALITY OF A DIMMER IN ACCORDANCE WITH SECTION 110.9, MEETS THE INSTALLATION CERTIFICATE REQUIREMENTS IN SECTION 130.4, THE EMCS REQUIREMENTS IN SECTION 130.5(F), AND COMPLIES WITH ALL OTHER APPLICABLE REQUIREMENTS IN SECTION 150.0(K)2.
 - AN ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) MAY BE USED TO COMPLY WITH VACANCY SENSOR REQUIREMENTS IN SECTION 150.0(K) IF AT A MINIMUM IT PROVIDES THE FUNCTIONALITY OF A VACANCY SENSOR IN ACCORDANCE WITH SECTION 110.9, MEETS THE INSTALLATION CERTIFICATE REQUIREMENTS IN SECTION 130.4, THE EMCS REQUIREMENTS IN SECTION 130.5(F), AND COMPLIES WITH ALL OTHER APPLICABLE REQUIREMENTS IN SECTION 150.0(K)2.
 - A MULTISCENE PROGRAMMABLE CONTROLLER MAY BE USED TO COMPLY WITH DIMMER REQUIREMENTS IN SECTION 150.0(K) IF AT A MINIMUM IT PROVIDES THE FUNCTIONALITY OF A DIMMER IN ACCORDANCE WITH SECTION 110.9, MEETS THE INSTALLATION CERTIFICATE REQUIREMENTS IN SECTION 130.4, THE EMCS REQUIREMENTS IN SECTION 130.5(F), AND COMPLIES WITH ALL OTHER APPLICABLE REQUIREMENTS IN SECTION 150.0(K)2.
 - IN BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS, AT LEAST ONE LUMINAIRE IN EACH OF THESE SPACES SHALL BE CONTROLLED BY A VACANCY SENSOR.
 - DIMMERS OR VACANCY SENSORS SHALL CONTROL ALL LUMINAIRES REQUIRED TO HAVE LIGHT SOURCES COMPLIANT WITH REFERENCE JOINT APPENDIX JA8.
 - EXCEPTION 1 TO SECTION 150.0(K)2K: LUMINAIRES IN CEILING LESS THAN 70 SQUARE FEET.
 - EXCEPTION 2 TO SECTION 150.0(K)2K: LUMINAIRES IN HALLWAYS.
 - UNDERCABINET LIGHTING SHALL BE SWITCHED SEPARATELY FROM OTHER LIGHTING SYSTEMS.

MECHANICAL NOTES

- FUEL BURNING APPLIANCES, INSTALLATION, TESTING, AND REPAIR PER 2022 CALIFORNIA MECHANICAL CODE. ALL APPLIANCES, FIXTURES AND EQUIPMENT TO BE INSTALLED AS PER CODE AND MANUFACTURER'S SPECIFICATIONS.
- BATHROOMS ARE TO BE MECHANICALLY VENTILATED PER CMC TABLE 403.7. MIN. 20 CFM FOR CONTINUOUS OPERATION OR 50 CFM FOR INTERMITTENT. CRC R303.3
- EQUIPMENT AND APPLIANCES SHALL BE ACCESSIBLE FOR INSPECTION, SERVICE, REPAIR, AND REPLACEMENT WITHOUT REMOVING PERMANENT CONSTRUCTION. NOT LESS THAN 30" IN DEPTH, WIDTH, AND HEIGHT OF WORKING SPACE SHALL BE PROVIDED
- TERMINATE DRYER EXHAUST DUCT TO THE OUTSIDE OF BUILDING, DRYER TO BE EQUIPPED WITH A BACKDRAFT DAMPER WITH NO SCREEN. DUCT RUN 14" MAX WITH (2) 90° ELBOWS FROM CLOTHES DRYER TO POINT OF TERMINATION, LENGTH TO BE REDUCED 2" FOR EVERY ADDITIONAL ELBOW OR PROVIDE MANUFACTURERS INSTALLATION DATA. CLOTHES DRYERS EXHAUST DUCTS SHALL BE CONSTRUCTED OF RIGID METALLIC MATERIAL. WHERE JOINING OF DUCTS, THE MALE END SHALL BE INSERTED IN THE DIRECTION OF AIRFLOW, NO SCREWS OR OTHER FASTENING MEANS THAT ARE CAPABLE OF CATCHING LINT SHALL BE USED.
- TERMINATION OF ENVIRONMENTAL AIR DUCTS SHALL BE A MIN. 3' AWAY FROM OPENINGS INTO THE BUILDING.
- EXHAUST FANS LOCATED IN A ROOM WITH A SINK, BATHTUB, OR SHOWER ARE REQUIRED TO BE ENERGY STAR COMPLIANT. UNLESS FUNCTIONING AS A WHOLE HOUSE FAN, FAN MUST BE CONTROLLED BY A READILY ACCESSIBLE HUMIDISTAT CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF 50-80% AND BE DUCTED TO TERMINATE OUTSIDE BUILDING.
- WHEN COOLING COILS ARE LOCATED IN THE ATTIC, A SECONDARY OR OVERFLOW SHALL BE PROVIDED (IN ADDITION TO THE PRIMARY CONDENSATE DRAINS) THE REQUIRED OVERFLOW LINE SHALL BE SEPARATE FROM THE PRIMARY AND SHALL TERMINATE WHERE IT IS READILY OBSERVABLE (ABOVE WINDOWS OR DOORS). CMC 309.2
- AIR CONDITIONING REFRIGERANT ACCESS PORTS LOCATED OUTDOORS SHALL BE PROTECTED WITH LOCKING TYPE TAMPER-RESISTANT CAPS.
- DUCT INSTALLATION SHALL COMPLY WITH CMC SECTION 603.10. TAPES AND MASTICS USED TO SEAL SHEET METAL DUCTS MUST BE LISTED TO UL 181 B. SNAP LOCK AND BUTTON LOCK SEAMS MUST BE SEALED.
- WHERE PIPING WILL BE CONCEALED WITHIN LIGHT-FRAME CONSTRUCTION ASSEMBLIES THE PIPING SHALL BE PROTECTED AGAINST PENETRATION BY FASTENERS.
- SEE 2022 GREEN BUILDING CODE & ENERGY CODE MANDATORY MEASURES FOR OTHER REQUIREMENTS NOT LISTED HERE.
- ALL HVAC INSTALLERS SHALL BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS

ENERGY COMPLIANCE MANUAL

FOR ADDITIONAL INFORMATION ON THE 2022 CALIFORNIA ENERGY CODE, ELECTRICAL CODE AND MECHANICAL AS APPLIES TO RESIDENTIAL CONSTRUCTION, REFER TO THE 2022 RESIDENTIAL ENERGY COMPLIANCE MANUAL. THIS GUIDE PROVIDES INTERPRETATION ON THE REQUIREMENTS OF ALL 2022 CALIFORNIA BUILDING STANDARDS COMMISSION VOLUMES AS APPLY TO RESIDENTIAL CONSTRUCTION.

TABLE 7.1 PRESCRIPTIVE DUCT SIZING REQUIRMENTS

ASHRAE TABLE 7.1 PRESCRIPTIVE DUCT SIZING REQUIREMENTS								
DUCT TYPE	FLEX DUCT				SMOOTH DUCT			
	50	80	100	125	50	80	100	125
FAN RATING PERMANENT AT 0.25 IN. W.G.)								
MAXIMUM ALLOWABLE DUCT LENGTH (FT.)								
DIAMETER IN.	FLEX DUCT				SMOOTH DUCT			
	X	X	X	X	5	X	X	X
4	70	3	X	X	105	35	5	X
5	NL	70	35	20	NL	135	85	55
6	NL	NL	125	95	NL	NL	NL	145
7 AND ABOVE	NL	NL	NL	NL	NL	NL	NL	NL

THIS TABLE ASSUMES NO ELBOWS. DEDUCT 15 FT OF ALLOWABLE DUCT LENGTH FOR EACH TURN, ELBOW, OR FITTING. INTERPOLATION AND EXTRAPOLATION IN TABLE 7.1 IS NOT ALLOWED. FOR AIRFLOW VALUES NOT LISTED, USE THE NEXT HIGHER VALUE. THIS TABLE IS NOT APPLICABLE FOR AIRFLOW > 125 CFM.

NL = NO LIMIT ON DUCT LENGTH OF THIS SIZE.
 X = NOT ALLOWED, ANY LENGTH OF DUCT OF THIS SIZE WITH ASSUMED TURNS, ELBOWS, FITTINGS WILL EXCEED THE RATED PRESSURE DROP. (0.25 IN W.G.)
 NOTE: WATER GAUGE (W.G.) IS THE SAME AS WATER COLUMN (W.C.)



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PROJECT



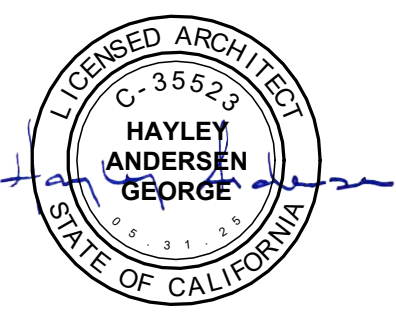
SHASTA COUNTY PRE-APPROVED
ADUS

ADU 2 - CASTELLA MODERN

REVISIONS

DATE	DESCRIPTION

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MECHANICAL & ELECTRICAL NOTES & LEGEND

E1.1



PROJECT

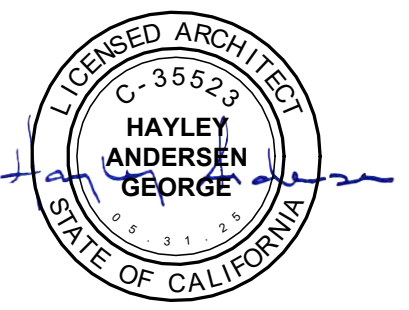


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POWER & LIGHTING PLAN

E2.1

SHEET NOTES

- A. FOR CODE ANALYSIS IN ELECTRICAL AND MECHANICAL REFER SHEETS G4.0 AND G5.0
- B. RE: E1.0 FOR ADDITIONAL INFORMATION
- C. ALL OUTLETS LABELED "EAVE" TO BE INSTALLED 6" FROM UNDERSIDE OF SOFFIT AND ON TIMER SWITCH IN GARAGE
- D. ALL LIGHTING TO CONFORM TO TITLE 24, PART 6 (CALIFORNIA ENERGY CODE) LIGHTING REQUIREMENTS.
- E. HIGH EFFICACY LIGHTS ARE TO BE INSTALLED. IF THE LIGHTS ARE NOT HIGH EFFICACY, THEN THEY ARE TO BE CONTROLLED BY A VACANCY SENSOR. OUTDOOR LIGHTS MOUNTED TO THE BUILDING OR ON THE SAME PROPERTY ARE TO BE HIGH EFFICACY AND CONTROLLED BY A MOTION SENSOR IN COMBINATION WITH A PHOTOCELL CONTROL, ASTRONOMICAL TIME CLOCK, OR ENERGY MANAGEMENT SYSTEM.
- F. COMBINATION CARBON MONOXIDE / SMOKE ALARMS SHALL BE HARDWIRED WITH BATTERY BACKUP AND INTERCONNECTED.
- G. ALL EXTERIOR LIGHTING TO BE EXTERIOR GRADE AND WUI COMPLIANT
- H. ALL CEILING FANS TO BE CENTERED IN ROOMS U.N.O.
- I. VANITY LIGHTS TO BE CENTERED OVER SINKS
- J. ALL LIGHTS TO BE DIMMER SWITCHES U.N.O.
- K. ALL 15 OR 20 AMP, 125- OR 250-VOLT RECEPTACLES INSTALLED OUTDOORS IN WET LOCATIONS MUST BE A LISTED WEATHER-RESISTANT TYPE WHEN THE PLUG IS INSERTED PER CEC 406.9(B).
- L. ALL 125 VOLT, 15- AND 20-AMP RECEPTACLES INSTALLED IN A RESIDENCE OR ACCESSORY STRUCTURE SHALL BE LISTED TAMPER RESISTANT RECEPTACLES. NO EXCEPTIONS FOR RECEPTACLES ON CEILINGS, ABOVE COUNTERS OR BEHIND APPLIANCES. CEC 406.12
- M. ALL OUTLETS IN BATHROOMS ARE TO BE GFI PROTECTED
- N. ALL EXTERIOR OUTLETS ARE TO BE GFI PROTECTED

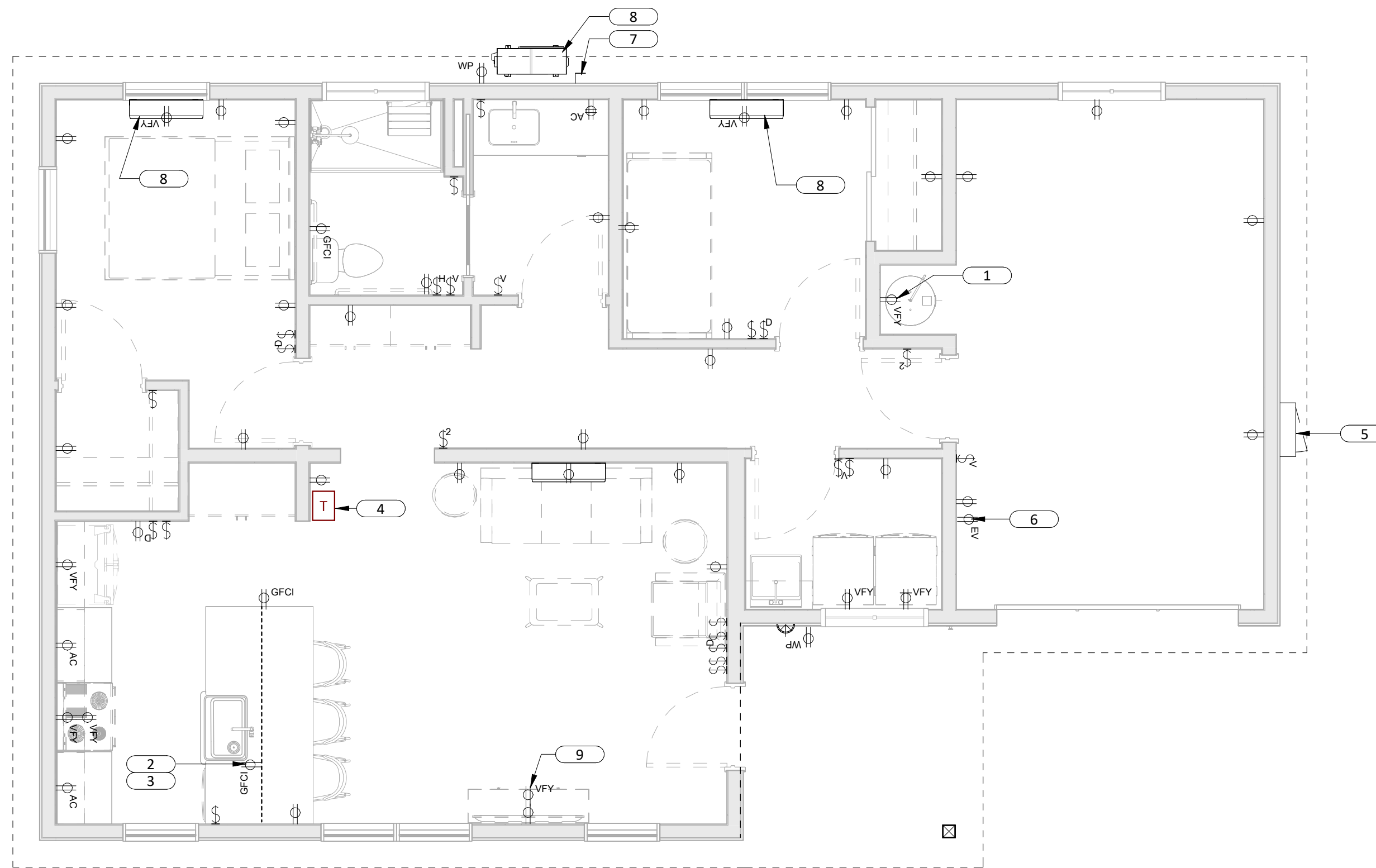
KEY NOTES

- 1. RECEPTACLE FOR HYBRID WATER HEATER, VERIFY WITH MFG.
- 2. RECEPTACLE FOR DISHWASHER
- 3. RECEPTACLE FOR GARBAGE DISPOSAL
- 4. THERMOSTAT - CONFIRM LOCATION WITH OWNER
- 5. 200A PANEL
- 6. ELECTRIC VEHICLE CHARGING ROUGH-IN. ALTERNATIVELY, PROVIDE A DEDICATED BRANCH CIRCUIT FOR FUTURE E.V. CHARGING DEVICE.
- 7. A/C DISCONNECT
- 8. MECHANICAL UNIT - RE: ENERGY CALCS
- 9. LOCATION OF TELEVISION - VERIFY UTILITY/CABLE REQUIREMENT AND RECEPTACLE HEIGHT WITH OWNER
- 10. OUTLINE OF ISLAND/PENINSULA BELOW
- 11. SWITCH FOR GARBAGE DISPOSAL

SYMBOL LEGEND

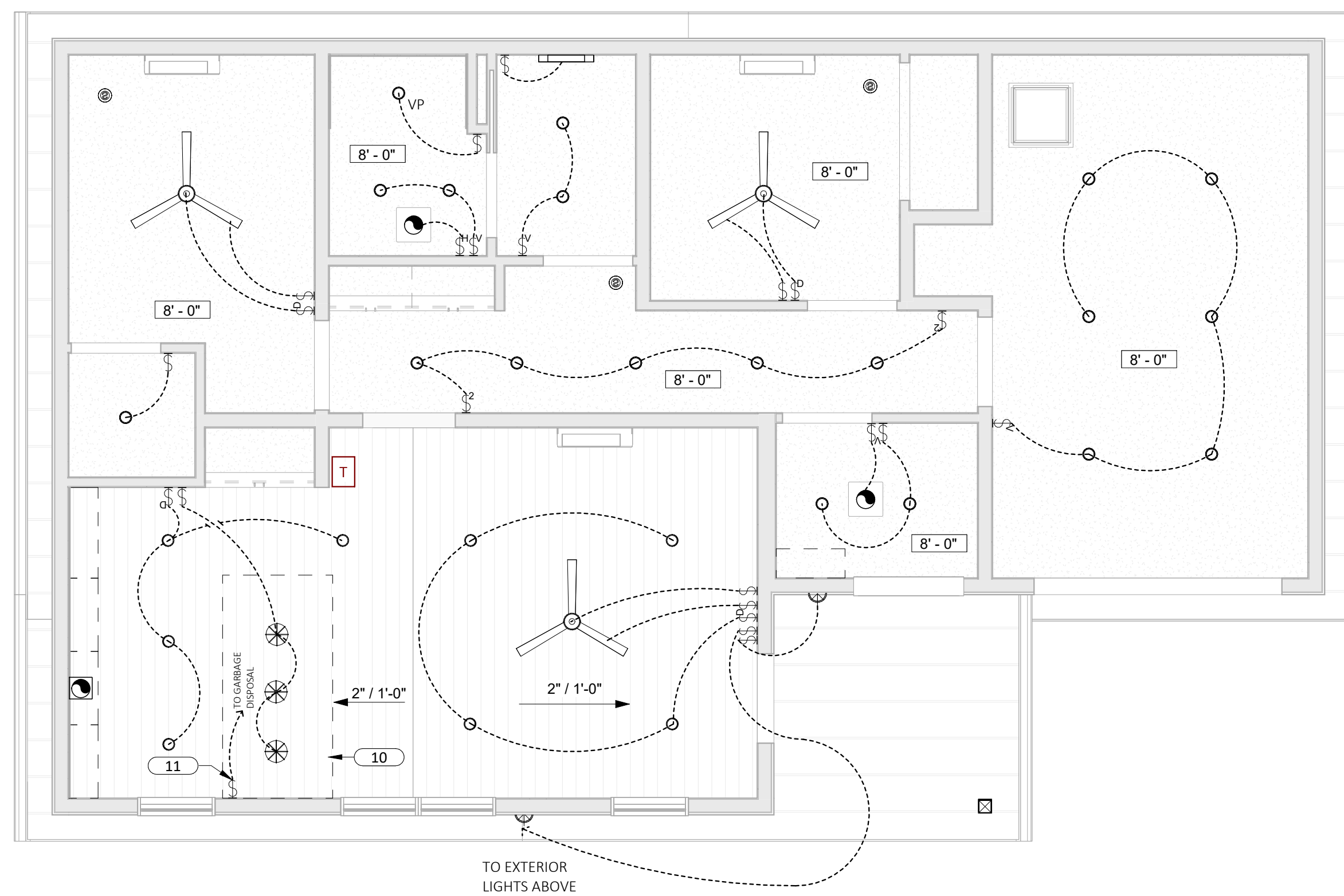
RE: E1.0 FOR FULL LIST

	DUPLIX POWER RECEPTACLE - GFCI WHERE INDICATED OR NOTED BELOW - RE: E1.0 FOR REQ'D LOCATIONS
	DUPLIX POWER RECEPTACLE - HEIGHT AS INDICATED, +18" WHERE U.O.N
	DUPLIX POWER RECEPTACLE - ABOVE COUNTER, GFCI REQUIRED
	DUPLIX POWER RECEPTACLE - VERIFY HEIGHT WITH EQUIPMENT
	DUPLIX POWER RECEPTACLE - WEATHER PROOF W/ EXTRA-DUTY BOX HOOD
	QUAD POWER RECEPTACLE - GFCI REQUIRED
	SWITCH - NUMBER INDICATES MULTI-SWITCHING
	TIMER SWITCH
	DIMMER SWITCH
	VACANCY SWITCH - "M" MAY BE INDICATED FOR MOTION
	SWITCH WITH INTEGRAL HUMIDISTAT
	DOOR-ACTIVATED LIGHT SWITCH
	IN-FLOOR POWER RECEPTACLE - VERIFY LOCATION W/ OWNER (RECEPTACLE TYPE VARIES)
	EXTERIOR WALL SCONCE - TO BE CONTROLLED WITH MANUAL ON/OFF SWITCH PLUS AN ASTRONOMICAL TIME CLOCK OR PHOTOCELL AND MOTION SENSOR OR PHOTOCELL AND TIME SWITCH



1 POWER PLAN

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



2 LIGHTING PLAN

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

NOT FOR CONSTRUCTION