

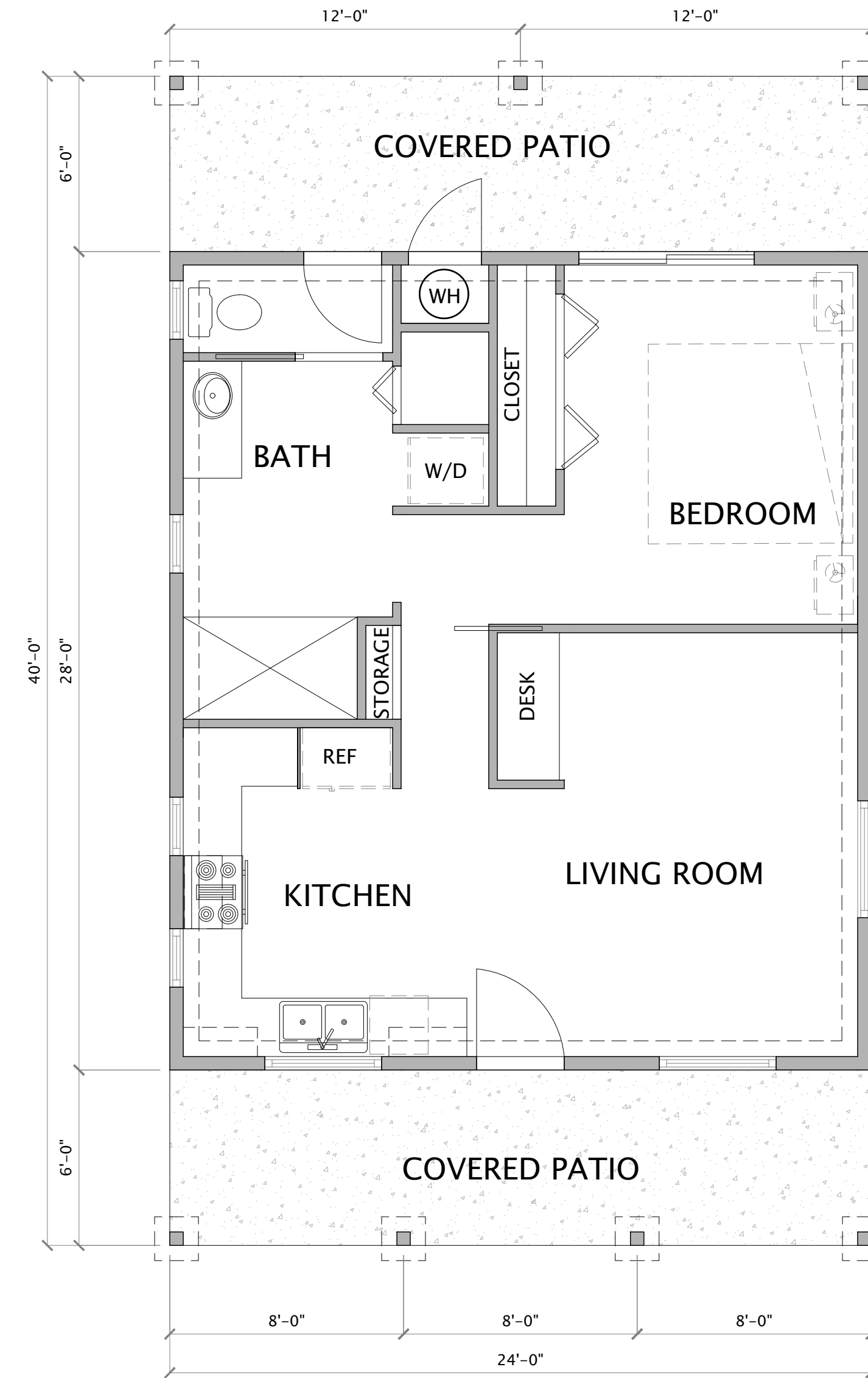
B LEFT SIDE ELEVATION - ELM
SCALE: 1/4" = 1'-0"



C RIGHT SIDE ELEVATION - ELM
SCALE: 1/4" = 1'-0"



D REAR ELEVATION - ELM
SCALE: 1/4" = 1'-0"



1 FLOOR PLAN- 672 SQ. FT.
SCALE: 1/4" = 1'-0"



A FRONT ELEVATION - ELM
SCALE: 1/4" = 1'-0"

REVISIONS

DATE
08/22/2022

JOB NUMBER

CADD FILE

SEAL

ANTONETTE
CAROZAS-MONULLI
C-35355
RENEWAL: 2/28/23
STATE OF CALIFORNIA

08/22/2022

SHEET NAME & PROJECT

ELM - 672 SF ADU
MEDIUM ACCESSORY DWELLING UNIT - (672 SQ FT ONE BEDROOM)

CITY OF RED BLUFF
555 WASHINGTON
RED BLUFF, CA 96080
APN:

CMC ARCHITECTURE
335 ONE STREET
RED BLUFF, CA 96080
(530) 440-9266

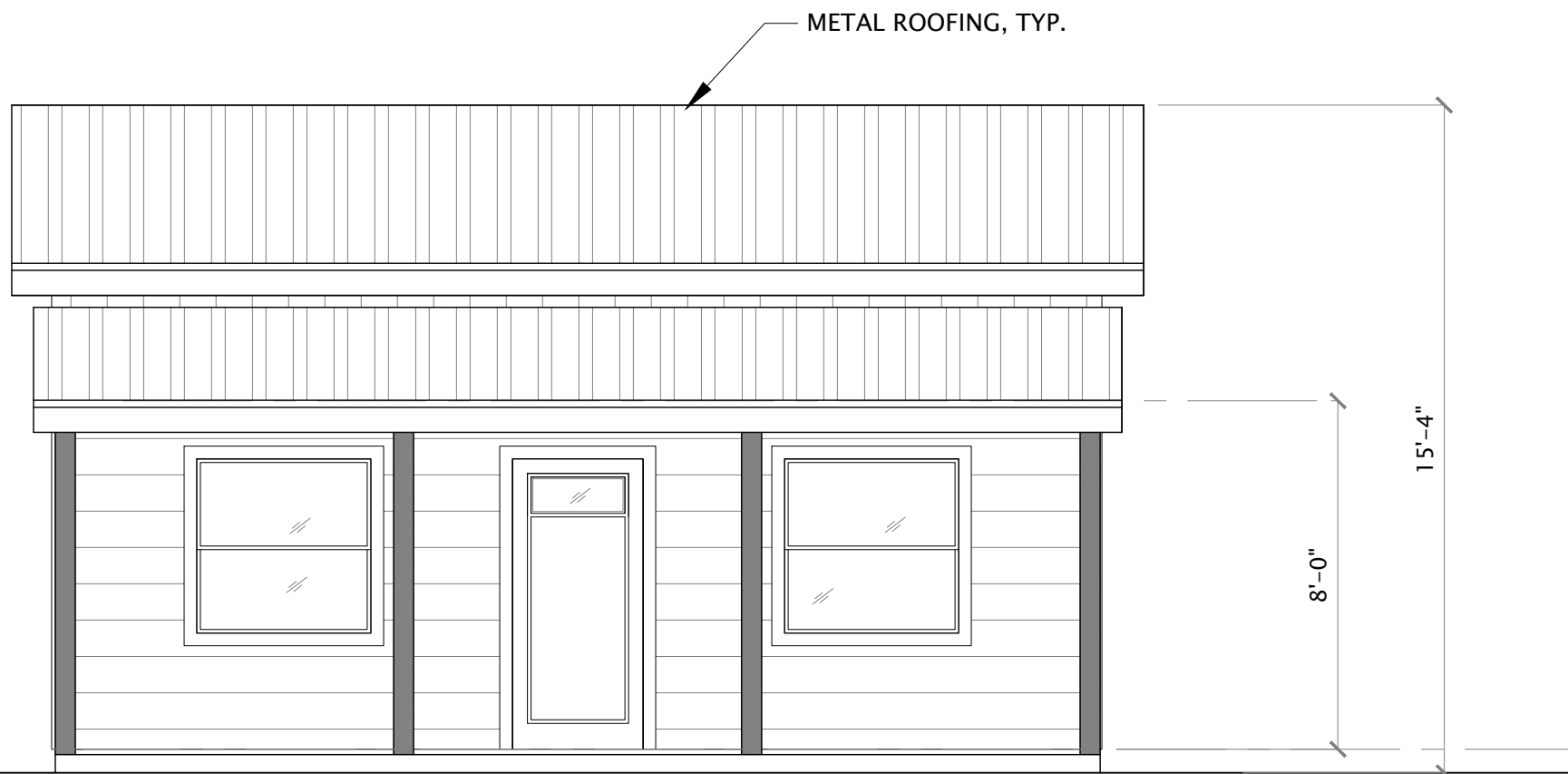
CMC

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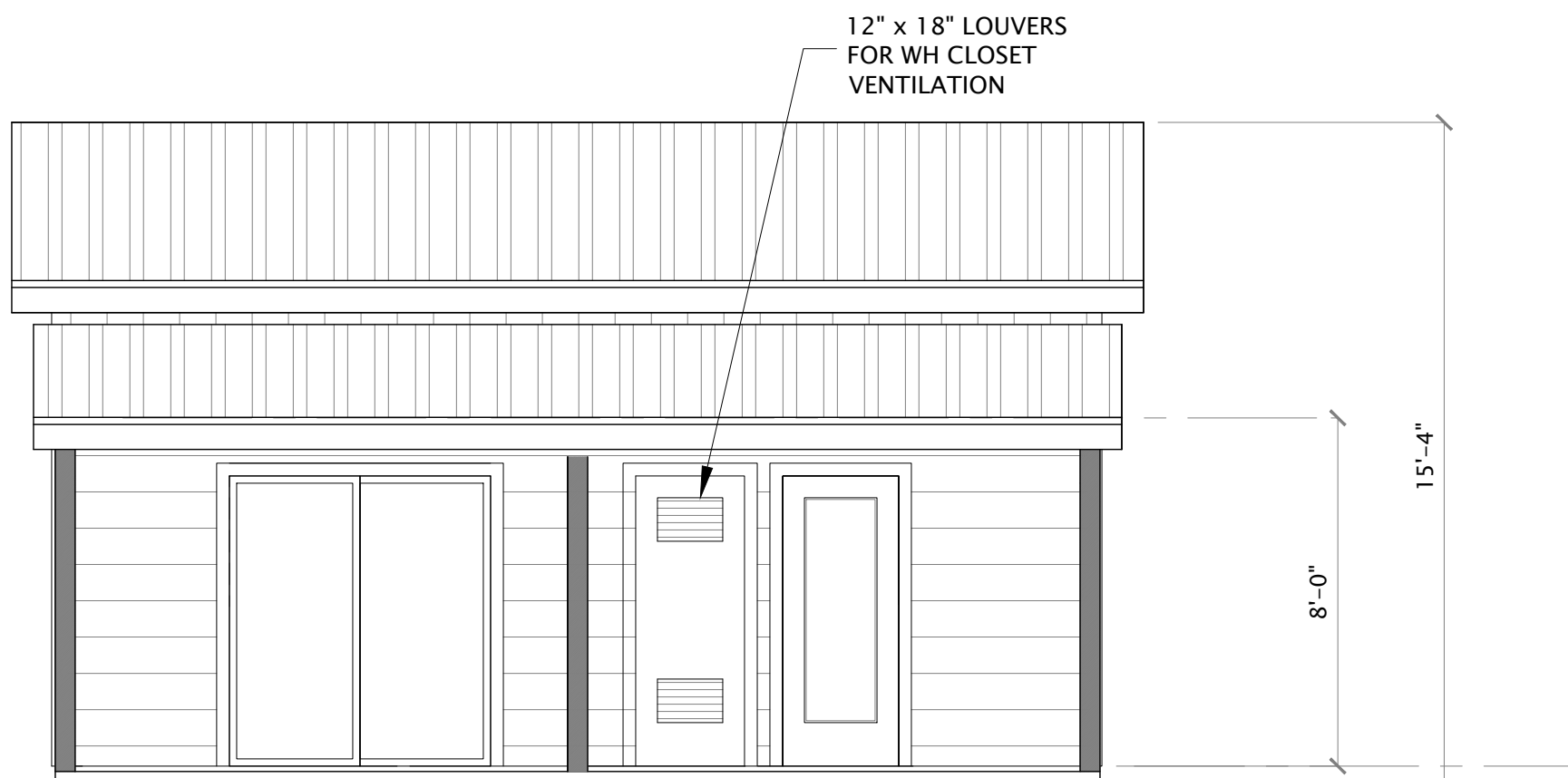
SHEET

ADU5

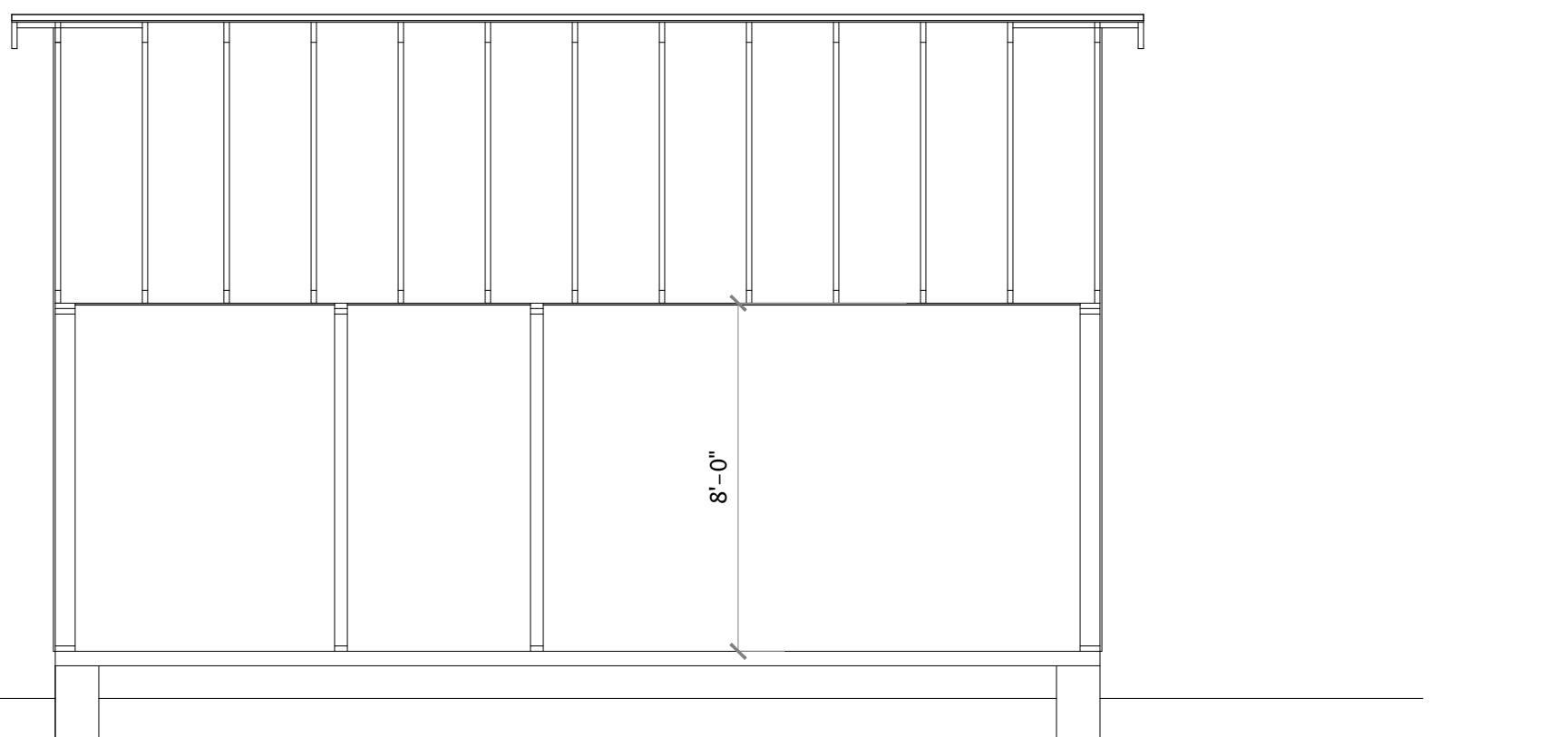
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A FRONT ELEVATION
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C REAR ELEVATION
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E SECTION
SCALE: 1/4" = 1'-0"

CALIFORNIA CHAPTER 7A REQUIREMENTS

ADU BUILT ON NORTH PART OF CITY OF RED BLUFF BEYOND HWY 32 IS SUBJECT TO WUI REQUIREMENTS:
* REFER TO WILDLAND-URBAN INTERFACE (WUI) FIRE AREA AND NEEDS TO MEET THE REQUIREMENTS OF CRC SECTION R337.
LIST OF APPROVED MATERIALS FOR WILDLAND FIRE REQUIREMENTS IS LOCATED AT THE OSFM WEBSITE: http://osfm.fire.ca.gov/licensinglistings/licenselistings_bml_searchcotest.php
* EXTERIOR DOORS AND DOOR BETWEEN GARAGE & DWELLING SHALL BE NONCOMBUSTIBLE, IGNITION RESISTANT, LISTED UNDER SFM 12-7A-1, A 20 MIN. LISTED ASSEMBLY OR SOLID CORE 1 3/4" WITH INTERIOR FIELD PANEL THICKNESS NOT LESS THAN 1 1/4".
* ROOFING: CLASS A ROOFING REQUIRED
* GUTTERS: IF GUTTERS ARE INSTALLED, GUTTER COVERS SHALL ALSO BE INSTALLED PER CRC R337.5.4.
* EXTERIOR FINISH: STUCCO OR SIDING TO BE APPROVED NON-COMBUSTIBLE (HARDIE PANEL OR EQUAL). NON-APPROVED SIDING MAY BE USED WITH 5/8" EXTERIOR GYPSUM BOARD UNDERLAYMENT PER CRC 337.7.3.
* EAVE SOFFIT: SIMILAR TO EXTERIOR SIDING
* EAVE & SOFFIT VENTS: ASTM LISTED VENTS, E2886; CAL-FIRE LISTING NO. 8165-2192-0100
MANUFACTURER - Vulcan Technologies OR EQUIVALENT PRODUCTS
* Model VSC2120 OR VSC2120FF OR VAC2120SMC Continuous Soffit Vent (NFVA = 96 PER 10")

GLAZING NOTES:

- EXTERIOR WINDOWS AND EXTERIOR GLAZED DOOR ASSEMBLIES TO COMPLY WITH ONE OF THE FOLLOWING REQUIREMENTS, PER CRC SECTION R337.8.2.1:
 - BE CONSTRUCTED OF MULTI-PANE GLAZING WITH A MINIMUM OF ONE TEMPERED PANE MEETING THE REQUIREMENTS OF SECTION R308 SAFETY GLAZING, OR
 - BE CONSTRUCTED OF GLASS BLOCK UNITS, OR
 - HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED ACCORDING TO NFPA 257, OR
 - BE TESTED TO MEET THE PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-2.
- GLAZING ADJACENT TO STAIRS AND RAMPS TO BE SAFETY GLAZED. CRC 2019 SECTION R308.4.6
- IF GLAZING ADJACENT TO BOTTOM OF STAIR LANDING ARE EXPOSED, SAFETY GLAZING TO BE PROVIDED PER CRC 2019, SECTION R308.4.7.
- GLAZING ADJACENT TO WET SURFACES TO BE SAFETY GLAZED PER CRC 2019, SECTION R308-4.5.
- WINDOW/DOOR WITH (T) INDICATES SAFETY GLAZING OR TEMPERED GLASS. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR SHALL BE CONSIDERED TO BE IN A HAZARDOUS LOCATION WHERE THE BOTTOM EXPOSED EDGES OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE FLOOR OR WALKING SERVICE AND MEETS EITHER OF THE FOLLOWING CONDITIONS:
 - WHERE THE GLAZING IS WITHIN 24 INCHES OF EITHER SIDE OF THE DOOR IN THE PLAN OF THE DOOR IN A CLOSED POSITION.
 - WHERE THE GLAZING IS ON A WALL PERPENDICULAR TO THE PLANE OF THE DOOR IN A CLOSED POSITION AND WITHIN 24 INCHES OF THE HINGE SIDE OF THE AN IN-SWINGING DOOR GLAZING MEETING EITHER OF THESE CONDITIONS MUST BE SAFETY GLAZED, PER CRC 2019, SECTION R308.4.2
 - GLAZING IN ALL FIXED AND OPERABLE PANELS OF SWINGING, SLIDING AND BIFOLD DOORS SHALL BE CONSIDERED A HAZARDOUS LOCATION. CRC R308.4.1.
- EMERGENCY EGRESS WINDOWS: MINIMUM NET CLEAR OPENING FOR GRADE-FLOOR OPENINGS SHALL BE 5.7 SQ. FT. (5.0 SQ. FT. FOR GROUND FLOOR) PER CRC 1026.2 MINIMUM NET OPENING SHALL BE 24" CLEAR HEIGHT AND 20" CLEAR WIDTH, NET DIMENSIONS SHALL BE THE RESULT OF NORMAL OPERATION OF THE OPENING. BOTTOM OF THE CLEAR OPENING SHALL BE NO NO GREATER THAN 44" MEASURED FROM THE FLOOR PER CRC R310.2.

ROOF ATTIC SPACE VENT CALCULATION

R806.1-3 REQUIREMENTS:

VENTILATION OPENINGS FOR ENCLOSED ATTICS, ENCLOSED EAVE SOFFIT SPACES, ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS, AND UNDERFLOOR VENTILATION OPENINGS SHALL BE FULLY COVERED WITH METAL WIRE MESH, VENTS, OTHER MATERIALS OR OTHER DEVICES THAT MEET THE FOLLOWING REQUIREMENTS:

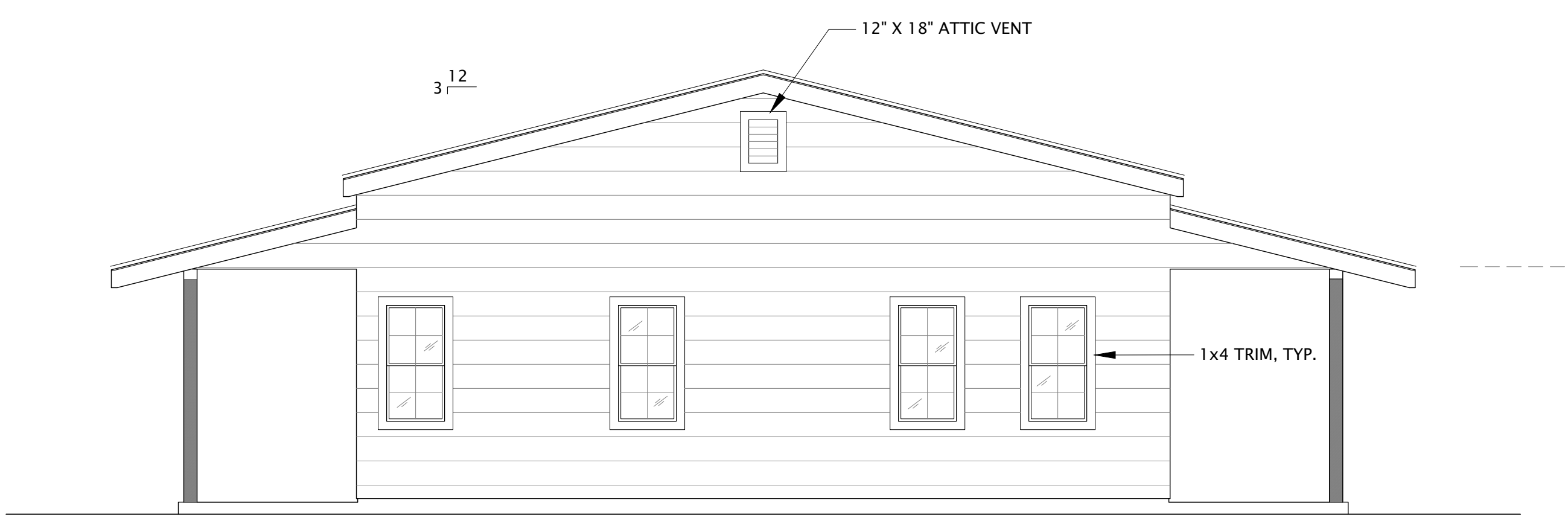
- THE DIMENSIONS OF THE OPENINGS THEREIN SHALL BE A MINIMUM OF 1/16" AND SHALL NOT EXCEED 1/4".
- THE MATERIALS USED SHALL BE CORROSION RESISTANT.

XR806.2 MINIMUM VENT AREA
THE MINIMUM NET FREE VENTILATING AREA SHALL BE 1/150 OF THE AREA OF THE VENTED SPACE.
EXCEPTION: THE MINIMUM NET FREE VENTILATION AREA SHALL BE 1/300 OF THE VENTED SPACE PROVIDED ONE OR MORE OF THE FOLLOWING CONDITIONS ARE MET:

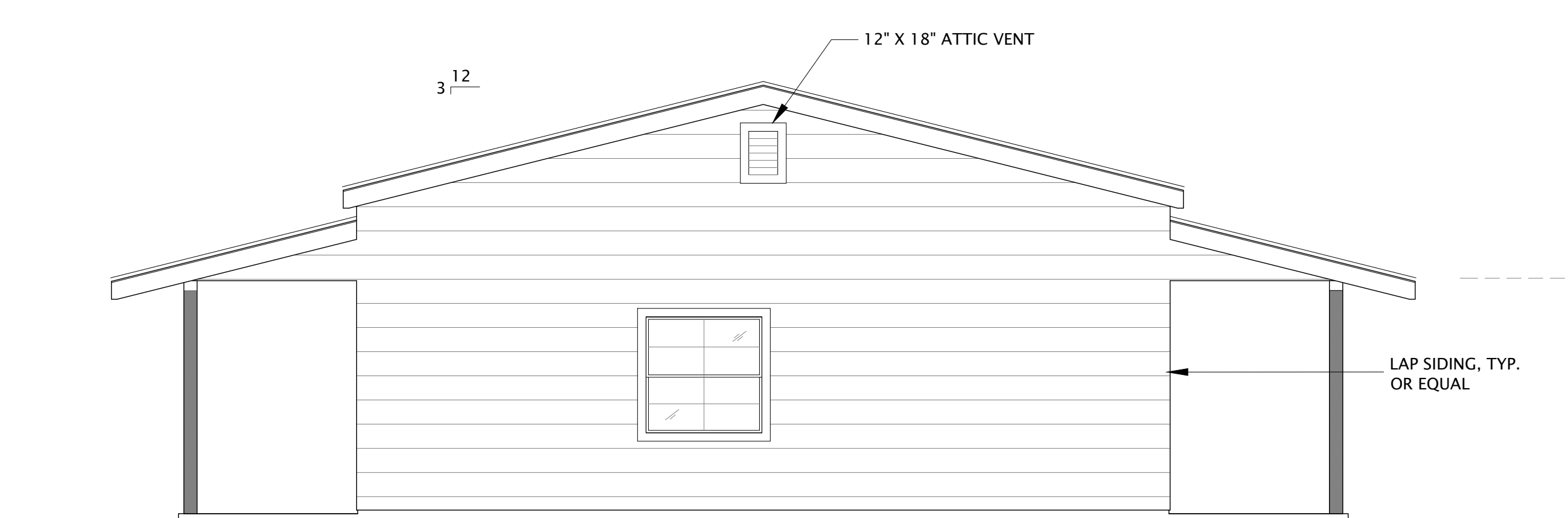
- IN CLIMATE ZONES 14 AND 16, A CLASS I OR II VAPOR RETARDER IS INSTALLED ON THE WARM-IN-WINTER SIDE OF THE CEILING.
 - NOT LESS THAN 40 PERCENT AND NOT MORE THAN 50 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE ATTIC OR RAFTER SPACE.
- UPPER VENTILATORS SHALL BE LOCATED NOT MORE THAN 3 FEET (914 mm) BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE, MEASURED VERTICALLY, WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY EAVE OR CORNICE VENTS. WHERE THE LOCATION OF WALL OR ROOF FRAMING MEMBERS CONFLICTS WITH THE INSTALLATION OF UPPER VENTILATORS, INSTALLATION MORE THAN 3 FEET (914 mm) BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE SHALL BE PERMITTED.

- * ROOF ATTIC SPACE AREA 960 SQ. FT. x 1/150 = 6.4 SQ. FT. OF FREE VENT AREA REQUIRED.
- * ROOF ATTIC SPACE (SEE CALIFORNIA CHAPTER 7A REQUIREMENTS IF APPLICABLE)
RIDGE VENT: 10' LONG x 2" x 0.8 = 1.3 SQ. FT.
GABLE END ATTIC VENTS: (2) 12" x 18" x 0.8 = 2.4 SQ. FT.
HIGH EAVE VENTS: (2) EA. SIDE (4) TOTAL x 3.5 x 22 x 0.8 = 1.7
LOW EAVE VENTS: (2) EA. SIDE (4) TOTAL x 5.5 x 22 x 0.8 = 2.7

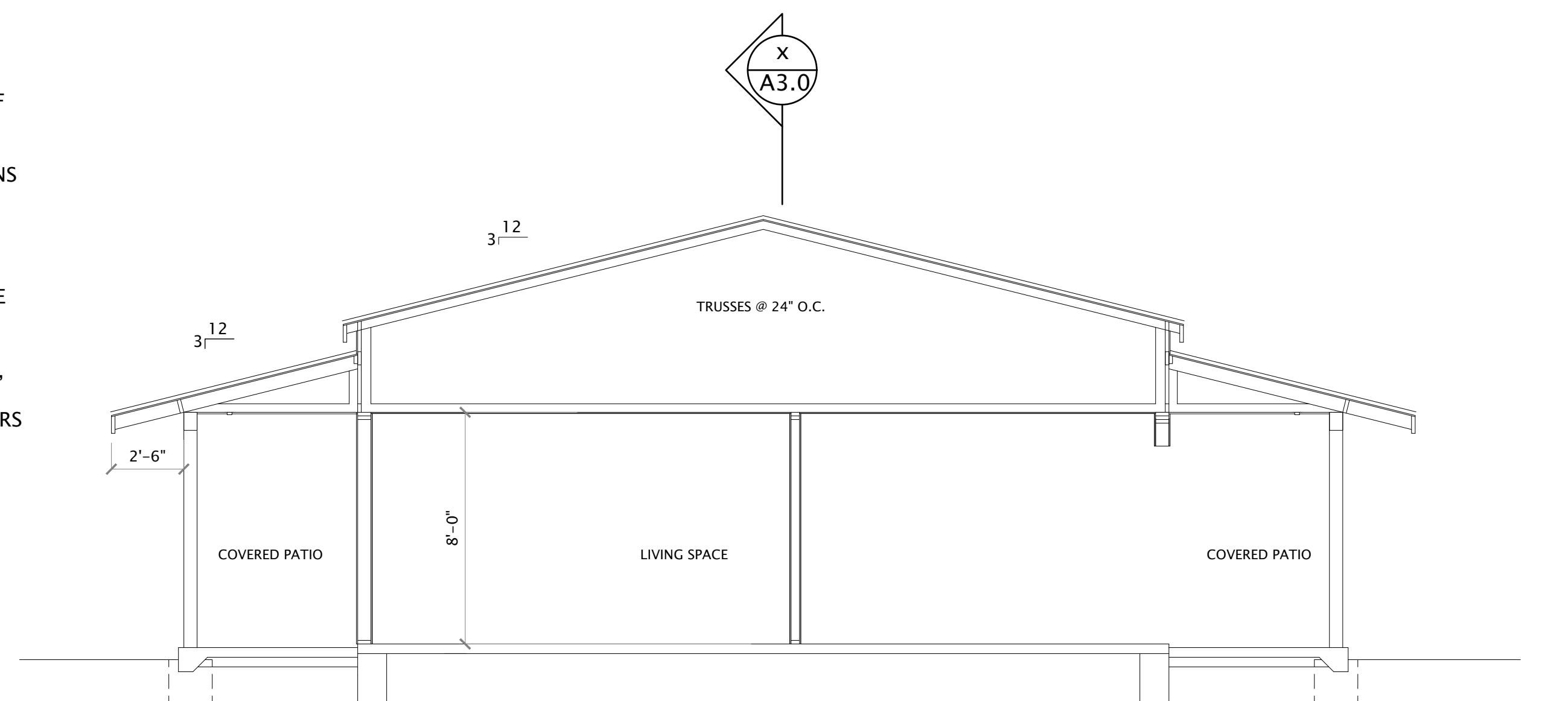
ADJUST NUMBER OF VENTS CONSIDERING SPECS OF VENT USED TO MEET THE MINIMUM REQUIRED VENTILATION.



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

EXTERIOR ELEVATIONS & SECTIONS - ELM
MEDIUM ACCESSORY DWELLING UNIT - (672 SQ FT ONE BEDROOM)

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CMC ARCHITECTURE
3810 STREET 1
RED BLUFF, CA 96080
(530) 440-9266

A3.0

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LOAD CALCULATION:

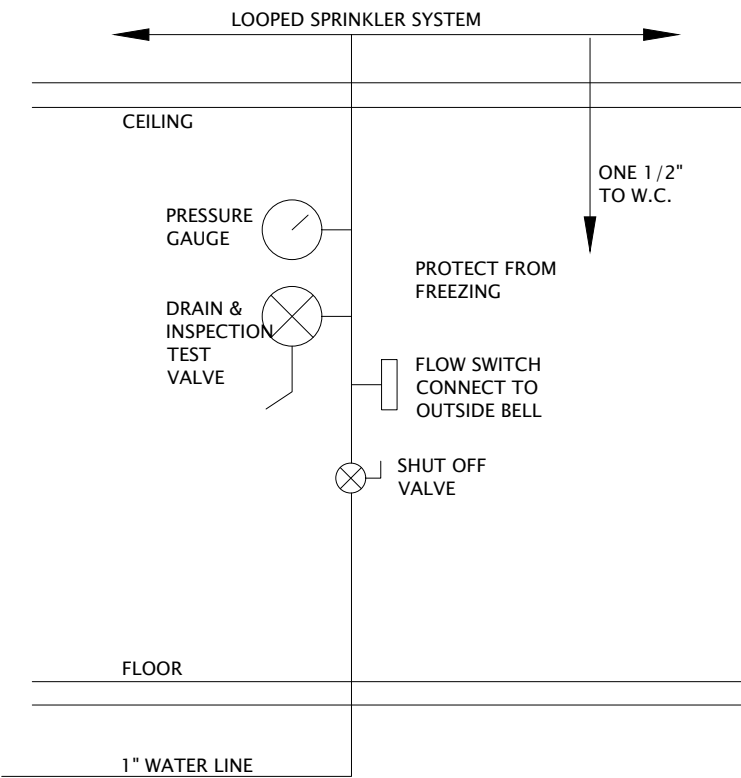
100 AMP SUB-PANEL ADU:
LIGHTING: 3 VA/SQFT X 672 SQFT => 2016 VA
2 x 1500 VA FOR SMALL APPLIANCE CIRCUITS => 3000 VA
1500 VA FOR DISHWASHER => 1500 VA
1000 VA FOR GARBAGE DISPOSAL => 1000 VA
5000 VA FOR DRYER OR W/D COMBO => 5000 VA
1500 VA FOR LAUNDRY => 1500 VA
SUB TOTAL: 14016 VA
FIRST 10000 VA @ 100% = 10000 VA
REMAINDER (CALCULATED AT 4016) @ 40% = 1606 VA
1.5 TON DUCTLESS HEAT PUMP + 2 FAN UNITS = 4600 VA
TOTAL DEMAND = 16206 VA
TOTAL AMPERAGE ON A 240 VOLT SYSTEM = 68 AMPS

HVAC SYSTEMS:

1.5 TON HEAT PUMP DUCTLESS SYSTEM @ 2 LOCATIONS
HSPF 8.5 /15 SEER - 12.5 EER
HEATING 17,800 BTU OUTPUT / COOLING 18,000 BTU OUTPUT

PIPE CONNECTION SIZE SCHEDULE					
FIXTURE	WASTE	VENT	COLD WATER	HOT WATER	CLEANOUT
WC	4"	2"	3/4"	-	YES
LAVATORY/SINK	2"	1-1/2"	1/2"	1/2"	YES
SHOWER/TUB	2"	1-1/2"	1/2"	1/2"	YES
WATER HEATER	NA	NA	3/4"		NO

PIPING MATERIAL SCHEDULE				
TYPE	INTERIOR	EXTERIOR	INSULATION	NOTES
COLD WATER	ABOVE FINISH FLOOR TYPE "M" COPPER OR EQUAL BELOW GRADE: TYPE"K" SOFT COPPER	SCHEDULE 40 PVC	IN ATTIC AND EXTERIOR WALLS	USE TYPE "L" COPPER FOR 1ST 18" FROM WATER HEATER IF PEX TUBING IS USED
HOT WATER	SAME AS CW	NA	ALL HOT WATER LINES TO BE INSULATED	SAME AS CW
WASTE AND VENT	NO-HUB CAST IRON PVC - DWV	SCR-35 PVC	NA	SCHEDULE 40 PVC-DWV MAY BE USED WITH BUILDING DEPARTMENT APPROVAL
FIRE SPRINKLER	ABOVE FINISH FLOOR TYPE "L" COPPER OR CPVC	-	EXTERIOR WALLS, IN ATTIC & OUTSIDE	-
GAS	SCHEDULE 40 BLACK STEEL THREADED	BELOW GRADE: PVC COATED BLK.STL. THREADED OR WELDED POLYETHYLENE	ABOVE GRADE: BLK.STL. THREADED	-



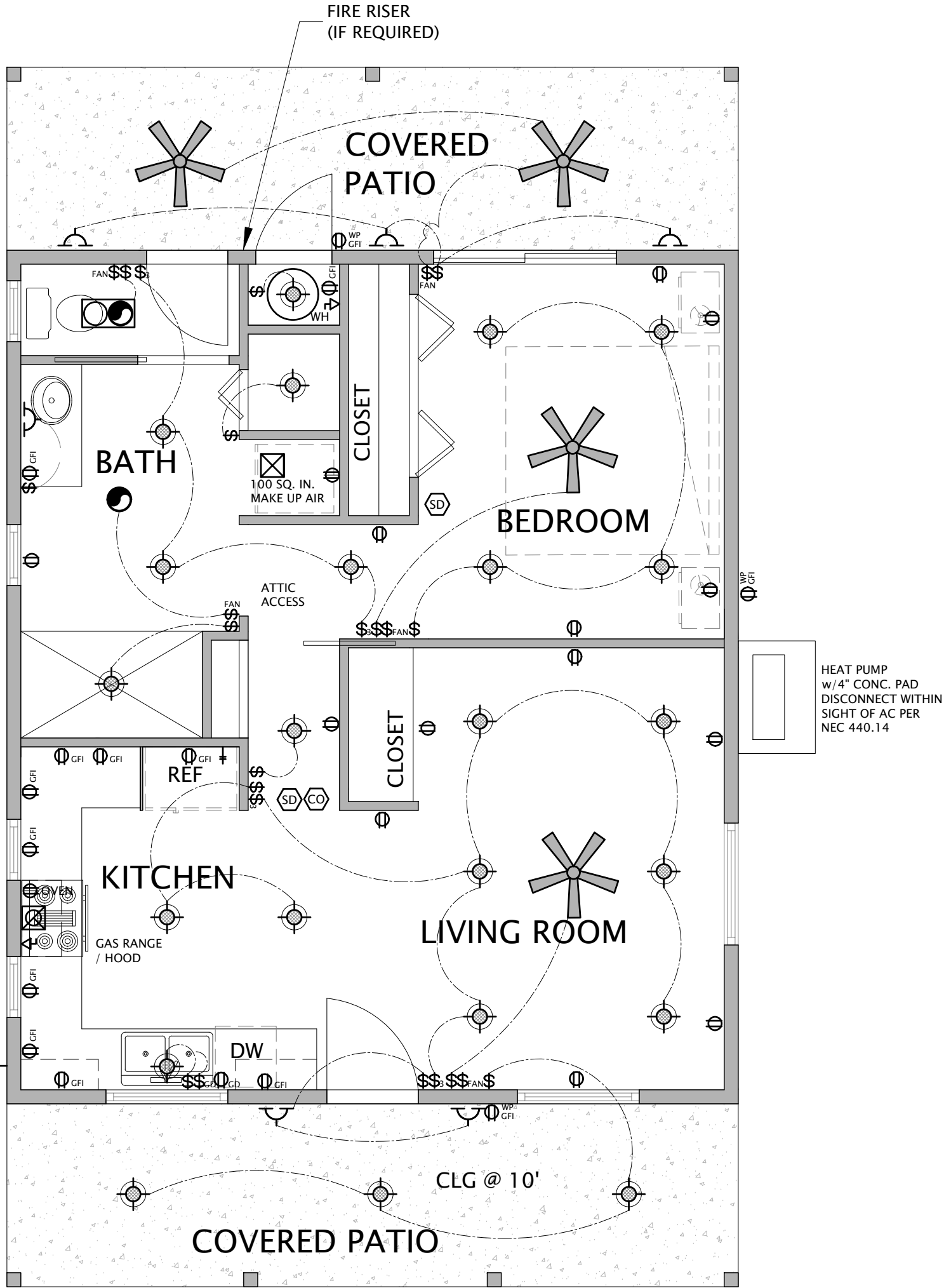
FIRE RISER DETAIL

GENERAL PLUMBING NOTES:

- ALL HOSE BIBBS SHALL BE PROTECTED BY LISTED NON-REMOVABLE HOSE BIBB TYPE VACUUM BREAKER OR A LISTED ATMOSPHERIC VACUUM BREAKER INSTALLED AT LEAST SIX INCHES ABOVE THE HIGHEST POINT OF USAGE LOCATED ON THE DISCHARGE SIDE OF THE LAST VALVE. IN CLIMATES WHERE FREEZING TEMPERATURES OCCUR, A LISTED SELF-DRAINING FROST-PROOF HOSE BIBB WITH AN INTEGRAL BACKFLOW PREVENTER OR VACUUM BREAKER SHALL BE USED. CPC 603.4.
- ALL WATER PIPES SHALL BE INSTALLED IN THE EXTERIOR WALL SHALL BE LOCATED ON THE CONDITIONED SIDE OF THE WALL ADJACENT TO THE INTERIOR FINISH.
- SHOWER AND TUB / SHOWER COMBINATIONS SHALL BE PROVIDED WITH INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE OR THERMOSTATIC MIXING VALVE TYPE. LIMIT WATER TEMPERATURE TO 120° AT SHOWER AND TUB PER CPC SECTION 420.0.
- OPTION TO ADD ON DEMAND HOT WATER HEATER - 140,000 BTU/HR INPUT, 91 RECOVERY EFFICIENCY OR EQUAL, OR HEAT PUMP TANKED WH
- NA.
- PLUMBING FIXTURES SHALL BE WATER-CONSERVATIVE PLUMBING FIXTURES PER CALIFORNIA GREEN CODE SECTION 4.303 & PLUMBING CODE CPC 407.2, 408.2 & 411.2

- * WATER CLOSETS- 1.28 GAL. PER FLUSH
- * LAVATORY FAUCET- MAX: 1.2 GPM @ 60 PSI & MIN. 0.8 GPM @ 20 PSI
- * SHOWER HEAD- 1.8 GMP @ 80 PSI
- SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL SHOWERHEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 80 PSI. OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME.
- * KITCHEN SINK FAUCET- 1.8 GAL. PER MIN. @ 60 PSI
- TANKLESS WATER HEATER MUST HAVE ISOLATION VALVES W/ HOSE BIBBS OR OTHER FITTINGS ON BOTH COLD AND HOT WATER LINES TO ALLOW FOR FLUSHING OF THE WATER HEATER WHEN THE VALVES ARE DOSED
- a. A 120-VOLT, 20-AMP RECEPTACLE OUTLET THAT IS WITHIN 3 FEET OF THE WATER HEATER AND IS ACCESSIBLE TO THE WATER HEATER WITH NO OBSTRUCTION. THE OUTLET SHALL BE CONNECTED TO A 120/240-VOLT 3 CONDUCTOR AND 10 AWG COPPER BRANCH CIRCUIT;
- b. THE ENDS OF THE UNUSED CONDUCTOR SHALL BE LABELED AS A "SPARE" AND BE ELECTRICALLY ISOLATED;
- c. THE CIRCUIT BREAKER FOR THE BRANCH CIRCUIT SHALL BE ADJACENT TO A RESERVED CIRCUIT BREAKER SPACE LABELED AS "FUTURE 240V USE."

* ALL KITCHEN OUTLETS & DW OUTLET W/ GFI SHALL BE GFCI PROTECTED CIRCUITS
* DISHWASHER AND GARBAGE DISPOSAL SHALL HAVE SEPARATE CIRCUIT BREAKERS



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

RESIDENTIAL LIGHTING REQUIREMENTS:

- KITCHEN:
ALL KITCHEN LIGHTING MUST BE HIGH EFFICACY. PERMANENTLY INSTALLED LIGHTING IN CABINETS MUST BE HIGH EFFICACY. UNDER CABINET LIGHTING MUST BE SWITCHED SEPARATELY FROM OTHER LIGHTING.
- BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS:
ALL LIGHTING MUST BE HIGH EFFICACY. EACH ROOM MUST HAVE AT LEAST 1 LUMINAIRE IS CONTROLLED BY VACANCY SENSOR. EXHAUST FANS MUST BE SWITCHED SEPARATELY FROM LIGHTING SYSTEMS OR UTILIZE A DEVICE WHERE LIGHTING CAN BE TURN OFF WHILE THE FAN IS RUNNING.
- CLOSETS AND HALLWAYS LIGHTING:
LIGHTING FOR CLOSET LESS THAN 70 SQUARE FEET AND HALLWAYS MUST BE HIGH EFFICACY. LIGHTING FOR CLOSETS LARGER THAN 70 SQUARE FEET MUST BE HIGH EFFICACY AND CONTROLLED BY A VACANCY SENSOR OR DIMMER.
- OTHER ROOMS OR AREAS LIGHTING:
SHALL BE HIGH EFFICACY AND CONTROLLED BY EITHER BY A VACANCY SENSOR OR DIMMER.
- OUTDOOR LIGHTING:
ALL PERMANENTLY INSTALLED OUTDOOR LIGHTING MUST BE HIGH EFFICACY AND MUST BE CONTROLLED BY A MANUAL ON AND OFF SWITCH AND USE ONE OF THESE AUTOMATIC CONTROL TYPES:
* PHOTOCONTROL AND MOTION SENSOR, OR
* PHOTOCONTROL AND AUTOMATIC TIME SWITCH CONTROL, OR
* ASTRONOMICAL TIME CLOCK THAT AUTOMATICALLY TURN OUTDOOR LIGHTING OFF DURING DAYLIGHT HOURS, OR
* ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) THAT PROVIDES THE FUNCTIONALITY OF AN ASTRONOMICAL TIME CLOCK. EMCS DOES NOT HAVE AN OVERRIDE OR BYPASS THAT ALLOWS THE LUMINAIRES TO BE ALWAYS ON, AND IS PROGRAMMED TO AUTOMATICALLY TURN THE OUTDOOR LIGHTING OFF DURING DAYLIGHT HOURS.
- NIGHT LIGHTS:
PERMANENTLY INSTALLED NIGHT LIGHTS AND NIGHT LIGHTS INTEGRAL TO A PERMANENTLY INSTALLED LUMINAIRES OR EXHAUST FANS MUST BE RATED TO CONSUME NO MORE THAN 5 WATTS OF POWER PER LUMINAIRE OR EXHAUST FAN. NIGHT LIGHTS DO NOT NEED TO BE CONTROLLED BY VACANCY SENSORS.
- RECESSED DOWNLIGHT LUMINAIRES IN CEILINGS:
SHALL BE LISTED FOR ZERO CLEARANCE INSULATION CONTACT (IC), LABELED AS AIRTIGHT (AT) WITH AIR LEAKAGE LESS THAN 2.0 CFM, SEALED WITH A CASNET OR CAULK BETWEEN THE HOUSING AND CEILING. ALLOW BALLAST OR DRIVER MAINTENANCE AND REPLACEMENT TO BE READILY ACCESSIBLE TO BUILDING OCCUPANTS FROM BELOW THE CEILING WITHOUT REQUIRING THE CUTTING OF HOLES IN THE CEILING. SHALL NOT CONTAIN SCREW BASE SOCKETS. COMPLY WITH THE ELEVATED TEMPERATURE REQUIREMENTS AND INSTALL LAMPS MUST BE MARKED "A8-2016- F". FOR INSTANCE, PIN-BASED CFLS MUST BE JAS CERTIFIED TO BE INSTALLED IN CEILING RECESSED DOWNLIGHTS. ALL CEILING RECESSED DOWNLIGHTS AND ENCLOSED LUMINAIRES MUST BE CONTROLLED BY A DIMMER OR VACANCY SENSOR.
- BLANK ELECTRICAL BOXES:
THE NUMBER OF ELECTRICAL BOXES THAT ARE MORE THAN 5 FEET ABOVE THE FINISH 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.
- SWITCHING DEVICES AND CONTROLS:
* ALL FORWARD PHASE CUT DIMMERS USED WITH LED LIGHT SOURCES SHALL COMPLY WITH NEMA SLS7A.
* EXHAUST FANS SHALL BE SWITCHED SEPARATELY FROM LIGHTING SYSTEM EXCEPT FOR AN EXHAUST FAN WITH INTEGRAL LIGHTING WHERE THE LIGHTING SYSTEM CAN BE MANUALLY TURNED OFF WHILE THE FAN IS RUNNING.
* LUMINAIRES SHALL BE SWITCHED WITH READILY ACCESSIBLE CONTROLS THAT PERMIT MANUAL ON/OFF SWITCHING.
* NO CONTROLS SHALL BY PASS THE DIMMER OR VACANCY SENSOR FUNCTION.
* ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) MAY BE USED TO COMPLY WITH VACANCY SENSOR OR DIMMER REQUIREMENTS.
* MULTIScene PROGRAMMABLE CONTROLLER MAY BE USED TO COMPLY WITH DIMMER REQUIREMENTS.

ELECTRICAL SYMBOLS:

- 115v DUPLEX +15" TO BOTTOM
- 115v GROUND FAULT INDICATED DUPLEX OUTLET
- 220v OUTLET
- SINGLE POLE SWITCH
- SMOKE DETECTOR 115V
- CARBON MONOXIDE DETECTOR 115V
- SMOKE DETECTOR & CARBON MONOXIDE SHALL BE INTERCONNECTED FOR ALARM ACTIVATION
- 3 SPEED FAN. ALL CLG. FIXTURE BOXES TO BE METAL & ADEQUATELY SUPPORTED FAN
- WALL MOUNT LIGHT
- CEILING MOUNT DECORATIVE LIGHT OR LIGHT DISK
- LIGHT / EXHAUST FAN SWITCHED SEPARATELY AND BE ENERGY STAR RATED, 80 CFM - 705F OR 110 CFM - 1005F, 1 SONES OR LESS NOISE, 4" DUCT TO OUTSIDE, NUTONE ULTRA SILENT INDOOR QUALITY FAN CONTINUOUS OPERATION W/ 24 CFM MIN.
- GAS SHUT OFF VALVE
- KITCHEN HOOD - 100 CFM MIN. AIRFLOW, 3 SONES OR LESS NOISE W/ 6" DUCT TO ROOF. NUTONE NS5830SS OR EQUAL. KITCHEN EXHAUST FAN SHALL BE HV-CERTIFIED
- LIGHT / EXHAUST FAN W/ INDOOR AIR QUALITY CONT. FAN W/ 34 CFM, 1 SON OR LESS
- EXHAUST FAN (CONTROLLED BY A HUMIDISTAT AND BE ENERGY STAR RATED AT TUB & SHOWER LOCATION, 80 CFM - 705F OR 110 CFM - 1005F, 3 SONES OR LESS NOISE, 4" DUCT TO OUTSIDE. NUTONE ULTRA SILENT 110 OR EQUAL) W/ BROAN DEHUMIDISTAT WALL CONTROL
- HOSE BIB
- OPTIONAL ICE WATER STUB OUT

GENERAL ELECTRICAL NOTES:

- ALL RECEPTACLES SHALL BE CONNECTED TO THE CIRCUIT INDICATED USING #14 MC CABLE < 2 #12, 1# 12G INSULATED U.N.O. CIRCUITS TO BE CONCEALED IN WALLS OR RAN OVERHEAD. LOCATION AND SPACING OF RECEPTACLE OUTLETS SHALL BE PER CEC SECTION 210-52
- MAINTAIN MIN. 30" WIDE x 36" DEEP x 78" HIGH CLEAR SPACE IN FRONT OF ALL ELECTRICAL DISCONNECTS AND PANELS PER CEC 2016.
- PANEL SHALL BE RATED AS SHOWN AND PROVIDED W/ TN-PLATED ALUMINUM BUS, THERMAL MAGNETIC CIRCUIT BREAKERS AS SHOWN, AND NEMA 1 ENCLOSURE U.N.O.
- KITCHEN HOOD TO HAVE 100 CFM MIN. AIRFLOW
- KITCHEN VENTILATION HOOD REQUIRES MANUFACTURER'S DOCUMENTATION ON INSTALLED SYSTEM PERFORMANCE. IF MANUFACTURE DOES NOT PROVIDE PERFORMANCE INFO FOR DUCT SIZE AND LENGTH, PROVIDE FELD AIRFLOW TESTING MEASURING CFM OF INSTALLED FAN AND DUCT.
- ALL APPLIANCES, FIXTURES AND EQUIPMENT TO BE INSTALLED AS PER CODE AND MANUFACTURE'S SPECIFICATIONS.
- REQUIRED GROUND FAULT INTERRUPTER RECEPTACLE CIRCUITS PER CEC 210-8:
A. ATTACHED GARAGES - ONE MINIMUM
B. EXTERIOR OF DWELLING - ONE FRONT, ONE BACK - MINIMUM
C. ALL BATHROOM RECEPTACLES
D. ALL RECEPTACLES AT KITCHEN COUNTER TOPS.
E. CRAWL SPACES
F. BASEMENTS
- DRYER TO VENT TO OUTSIDE AIR - 14" MAX. W/ 2 BENDS MAX. PER CMC 504.3.2.
- USE CEILING FAN BOXES LISTED PER CEC 422-18.
- FIXTURES ABOVE HYDRO MASSAGE TUBS AND SPAS, AND OTHER WET/DAMP LOCATIONS SHALL BE G.F.I. PROTECTED, SUITABLE FOR DAMP LOCATIONS, AND ELECTRICALLY ISOLATED PER CEC 680.4.1.
- SEE MANDATORY MEASURES SUMMARY ON TITLE 24 ENERGY CALCULATIONS FOR ADDITIONAL LIGHTING REQUIREMENTS AND ARE PART OF THESE PLANS.
- COMBUSTION APPLIANCES MUST BE PROPERLY VENTED AND INSTALLED TO PREVENT BACK DRAFT.
- AUTOMATIC GARAGE DOOR OPENERS MUST BE UL LISTED - R309.4. GARAGE DOOR SPRINGS - PER SECTION 1211 CBC
- REQUIRED HEATING - 68 DEGREES F, 3 FEET ABOVE FLOOR AND 2 FEET FROM EXTERIOR WALLS IN ALL HABITABLE ROOMS - R303.8
- DUCT SHALL HAVE R-8 INSULATION & TESTED FOR LOW LEAKAGE
- RECESSED CANS PER SECTION 6.10.1 MUST BE IC RATED & LABELED FOR AIRTIGHT CONSTRUCTION, SEALED WITH A CASNET OR CAULKING BETWEEN THE LUMINAIRES HOUSING AND THE CEILING.
- NOT USED.
- NOT USED
- ALL PERMANENTLY INSTALLED LUMINAIRES SHALL BE HIGH EFFICACY CA ENERGY CODE SECTION 150.00(i)(A)
- ALL LIGHTING MUST BE SWITCHED SEPARATELY FROM EXHAUST FANS.
- ALL LIGHTING CONTROLS AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
- 3-WAY AND 4-WAY SWITCHES AND OTHER LIGHTING CONTROLLED BY MORE THAN ONE SWITCH WHERE A DIMMER OR VACANCY SENSOR HAS BEEN INSTALLED SHALL MEET THE FOLLOWING CONDITIONS: NO CONTROLS SHALL BYPASS THE DIMMER OR VACANCY SENSOR FUNCTION AND THE DIMMER OR VACANCY SENSOR SHALL BE CERTIFIED TO MEET THE APPLICABLE REQUIREMENTS IN CEC SECTION 6.3.2.
- LUMINAIRES IN CLOTHES CLOSETS SHALL BE PER CEC 410-16
- ELECTRICAL RECEPTACLES FOR DISHWASHER AND GARBAGE DISPOSAL TO BE LOCATED UNDER SINK, NOT MORE THAN 36" FROM APPLIANCES.
- RECEPTACLE IN BATHROOMS, LAUNDRY, GARAGE AND HALLS 10' LONG AND WITHIN 24" ALONG KITCHEN COUNTER SPACES 12" AND WIDER, AND EVERY 12' ALONG ISLANDS PER CEC 210-57.
- OUTDOOR WEATHER PROOF GFI RECEPTACLES IN FRONT AND BACK OF RESIDENCE PER CEC 210-52 AND 410-57.
- PROVIDE AN OUTDOOR WEATHER PROOF GFI RECEPTACLE WITH-IN 25' OF EXTERIOR MECHANICAL EQUIPMENT PER CEC 210-63
- ALL BRANCH CIRCUITS THAT SUPPLY 120 VOLTS, SINGLE PHASE 15 AND 20 AMP OUTLETS INSTALLED IN DWELLINGS THROUGHOUT SHALL BE PROTECTED BY ARC FAULT CIRCUIT INTERRUPTER PER CEC 210-12.(b)
- PROVIDE DISCONNECT WITHIN SIGHT OF AIR CONDITIONING EQUIPMENT PER CEC 440-14.
- PROVIDE 30" WIDE X 36" DEEP WORKING CLEARANCE AT AC DISCONNECT PER CEC 210-12.(b)
- SMOKE DETECTORS SHALL BE HARD WIRED, INTERCONNECTED, W/ BATTERY BACKUP, AND AUDIBLE IN ALL BEDROOMS PER CEC 507.2.10.2
- DEDICATED 20-AMP CIRCUIT FOR ALL BATHROOM RECEPTACLES PER CEC 210-11.(c) (2) 20 AMP SMALL APPLIANCE BRANCH CIRCUITS IN KITCHEN.
- SWITCHED LIGHT AND RECEPTACLE IN ATTIC AND UNDER FLOOR SPACES WITH MECHANICAL EQUIPMENT PER CEC 210-70
- DIRECT VENT IS REQUIRED FOR WARM AIR FURNACES IN SLEEPING ROOMS PER CEC 504.5
- EXHAUST FAN DUCTS TO BE INSTALLED PROPERLY WITHOUT DIPs WHERE MOISTURE CAN COLLECT.
- VENTILATION SYSTEM CONTROLS SHALL BE LABELED "VENTILATION CONTROL" AND THE HOME OWNER SHALL BE PROVIDED WITH INSTRUCTIONS ON HOW TO OPERATE THE SYSTEM.
- MECHANICAL SYSTEMS INCLUDING HEATING AND AIR CONDITIONING SYSTEMS THAT SUPPLY AIR TO HABITABLE SPACES SHALL HAVE A MERV 6 FILTER OR BETTER.
- AIR INLETS (NOT EXHAUSTS) SHALL BE LOCATED AWAY FROM KNOWN CONTAMINANTS.
- ALL LIGHTING INSTALLATION TO COMPLY WITH CF-6R-LTG-01 INSTALLATION CERTIFICATE REQUIREMENTS. IT IS RECOMMENDED TO BE FILLED OUT AND PROVIDED TO BUILDING INSPECTOR AT FRAME INSPECTION.
- WHOLE BUILDING VENTILATION FANS AND LOCAL BUILDING VENTILATION FANS ARE TO COMPLY WITH CF-6R-MECH-05 INSTALLATION CERTIFICATE REQUIREMENTS. IT IS RECOMMENDED THIS FORM BE FILLED OUT PRIOR TO SUBMITTAL AND PROVIDED TO THE BUILDING INSPECTOR AT THE FRAME INSPECTION. CF-6R-MECH-05 REQUIRED AT FINAL AND PROVIDED TO OWNER.
- NO GAS OR SOLID FUEL (OTHER THAN DIRECT VENT) ALLOWED IN CONDITIONED SPACE UNLESS SUPPLY AIR IS PROVIDED.
- IN ALL AREAS SPECIFIED IN CEC 210.52 ALL 125V 15 TO 20 AMP RECEPTACLES SHALL BE LISTED TAMPER RESISTANT RECEPTACLE.
- TERMINATION ALL ENVIRONMENTAL AIR DUCTS SHALL BE A MIN. OF 3' FROM ANY OPENINGS INTO THE BUILDING. DRYERS, BATH AND UTILITY FANS ETC) MUST BE 3' AWAY FROM DOORS, WINDOWS, OPENING SKYLIGHTS, OR ATTIC VENTS PER CMC 504.5.
- CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM BUILDING WIRING FROM A COMMERCIAL SOURCE AND SHALL BE EQUIPPED WITH A BATTERY BACK-UP. CRC R315.1.1
- 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 CEILING, ABOVE COUNTERS OR BEHIND APPLIANCES. CEC 406.1
- ATTIC FURNACE NEEDS A 30"x30" PLATFORM AND 24" WALKWAY, A MAXIMUM OF 20' FROM THE ACCESS UNLESS 6' OF HEADROOM IS PROVIDED. CMC 904.11

REVISIONS

DATE	08/22/2022	JOB NUMBER		CADD FILE	
SEAL					

LICENSED ARCHITECT

ANTONETTE

ANTONETTE

C-35355

RENEWAL: 2/28/23

STATE OF CALIFORNIA

08/22/2022

SHEET NAME & PROJECT

ELECTRICAL PLAN - ELM

MEDIUM ACCESSORY DWELLING UNIT - (672 SQ FT ONE BEDROOM)

CITY OF RED BLUFF

555 WASHINGTON

RED BLUFF, CA 96080

APR.

CVC ARCHITECTURE

3RD FLOOR

RED BLUFF, CA 96080

(530) 440-9260

ARCHITECTURE | CVCARK.COM

AE1

PERMIT SET

CONSTRUCTION NOTES

UNLESS OTHERWISE SPECIFICALLY SHOWN ON THE DRAWINGS, THE FOLLOWING NOTES SHALL APPLY THROUGHOUT THIS CONSTRUCTION. ALL WORK SHALL BE IN COMPLIANCE WITH THE CURRENT EDITIONS OF THE CALIFORNIA BUILDING CODES AND ANY STATE LAW OR LOCAL ORDINANCES PERTAINING TO THE WORK BEING PERFORMED. THE CONTRACTOR SHALL VERIFY THESE REQUIREMENTS PRIOR TO BEGINNING ANY WORK.

INTERPRETATION OF DRAWINGS

- 1. REFER TO ARCHITECTURAL DRAWINGS TO COORDINATE WITH STRUCTURAL DRAWINGS.
- 2. COMPARISON OF ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL BE MADE BY THE GENERAL CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION, AND ALL DIMENSIONS SHALL BE CHECKED BY THE SAME BEFORE STARTING WORK.
- 3. ANY DISCREPANCY BETWEEN ABOVE MENTIONED DRAWINGS SHALL BE REFERRED TO THE ENGINEER FOR FURTHER CLARIFICATION BEFORE STARTING CONSTRUCTION.
- 4. IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS OR CALLED FOR IN THE GENERAL NOTES OR SPECIFICATION, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR.

FOUNDATIONS

- 1. ALLOWABLE SOIL PRESSURE IS 1500 psf FOR DEAD PLUS LIVE LOADS W/ ALLOWABLE INCREASES FOR SEISMIC OR WIND AND AS PER CHAPTER 18 C.R.C.
- 2. BOTTOM OF ALL FOOTINGS, EXCEPT THICKENED SLABS, SHALL EXTEND TO ELEVATIONS MARKED ON FOUNDATION PLAN OR DETAILS, BUT IN NO CASE LESS THAN 12" BELOW EXISTING OR FINISHED GRADE, WHICHEVER IS LOWER.
- 3. ALL FOOTINGS SHALL REST ON FIRM UNDISTURBED OR COMPACTED SOIL.
- 4. ALL CONCRETE REINFORCEMENT IS TO BE INTERMEDIATE GRADE, DEFORMED BARS, TO COMPLY WITH ASTM DESIGNATION A-615 AND SHALL BE 40KSI MINIMUM, U.N.O.
- 5. AT HORIZONTAL AND VERTICAL SPLICES, THE REINFORCING BARS SHALL LAP 36 DIAMETERS MINIMUM FOR #5 OR LARGER BARS, AND 1'-6" FOR #3 AND #4 BARS.
- 6. ALL REINFORCING SHALL HAVE A MINIMUM CLEAR COVERAGE AS FOLLOWS:
 - 3" IN FOOTINGS WHERE POURED AGAINST EXCAVATION.
 - 2" IN FOOTINGS WHERE FORMED BOTH SIDES AND WALLS BELOW GRADE.
 - 1" IN WALLS ABOVE GRADE.
 - 1" IN SLABS.
 - 1 - 1/2" IN BEAMS.

- 7. SLABS ON GRADE SHALL BE 4" THICK AND SHALL BE REINFORCED WITH 6X6 W1.4 X W1.4 WIRE MESH AT CENTER OF SLAB. U.N.O.
- 8. AT THE END OF 28 DAYS, CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2500 psi FOR SLABS ON GROUND, AND 2500 psi FOR FOOTINGS AND GRADE BEAMS AND STRUCTURAL WALLS.
- 9. SLABS SHALL BE PLACED ON 2" SAND BED AND A WATERPROOF MEMBRANE SHALL BE PLACED DIRECTLY UNDER THE SAND BED, U.N.O.
- 10. PROVIDE 4 MIL POLYETHYLENE SHEET MOISTURE BARRIER MINIMUM BELOW SLAB AT LIVING AREAS. LAP POINTS 12" MINIMUM. (IF APPLICABLE)
- 11. NOT USED
- 12. CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED AND HEAVILY ROUGHENED SO AS TO EXPOSE COARSE AGGREGATE.
- 13. ALL ANCHOR BOLTS TO BE 1/2" DIAMETER X 10" LONG UNLESS NOTED AND SHALL HAVE 3 x 3 x .229" SQUARE WASHERS WHERE HEAD OR BOLT BEARS ON WOOD.
- 14. ALL FRAMING HARDWARE SHALL BE "SIMPSON" OR EQUAL.
- 15. MAXIMUM SLUMP FOR ALL CONCRETE SHALL BE 4".

- 16. APPLY APPROVED CURING COMPOUND ON FINISHED CONCRETE SURFACES, OR MAINTAIN MOISTENED CONDITION FOR (5) FIVE DAYS AFTER PLACEMENT.

- 17. VERIFY LOCATIONS FOR ANCHOR BOLTS AT ENDS OF EACH SECTION OF WOOD SILLS OR PLATES BEFORE PLACING CONCRETE. PROVIDE ANCHOR BOLTS OR SIMPSON MAS WITH 12" OF THE END OF EXTERIOR AND BEARING WALLS.

CONCRETE BLOCKS

- 1. ALL CELLS IN PIERS, THREE CELLS AT CORNERS OF WALLS, AND CELLS AT EACH SIDE OF OPENINGS SHALL BE FILLED WITH GROUT AND REINFORCED. ALL CELLS SHALL BE GROUTED SOLID WHEN CALLED OUT ON PLANS.
- 2. VERTICAL CELLS CONTAINING REINFORCING BARS, ANCHORS, BOLTS, DOWELS OR STRAPS SHALL BE FILLED WITH GROUT.
- 3. 8" WALLS SHALL BE REINFORCED WITH #4 VERTICAL BARS @ 24" O.C. MAXIMUM. U.N.O. PROVIDE THREE REINFORCED VERTICAL CELLS AT CORNERS WITH #4 VERTICAL. U.N.O.
- 4. BOND BEAMS WITH 2- #4 HORIZONTAL BARS SHALL OCCUR AT 4'0" O.C. MAXIMUM, AND AT TOP OF WALLS, U.N.O.
- 5. WINDOW AND DOOR OPENINGS SHALL BE REINFORCED WITH 2- #4 REBAR. 4- #4 TOTAL IMMEDIATELY OVER OPENINGS, BARS TO EXTEND 2'-0" MINIMUM EACH SIDE OF OPENING, U.N.O.
- 6. ALL HORIZONTAL WALL STEEL SHALL BE SPLICED WITH 40 BAR DIAMETER MINIMUM LAP AT CORNERS AND INTERSECTIONS. ALL DOWELS EXTENDING OUT OF FOOTINGS SHALL HAVE A 40 BAR DIAMETER LAP.
- 7. VERTICAL LIFTS FOR EACH POUR SHALL NOT EXCEED 4'-6" WITHOUT CLEAN-OUT OPENINGS.
- 8. ALL CELLS IN RETAINING WALLS OR UNDER GRADE SHALL BE FILLED SOLID WITH GROUT.
- 9. MINIMUM MASONRY DESIGN STRENGTH:
 - A. MINIMUM MASONRY UNIT STRENGTH, Fm =1500 psi MIN.
 - B. MORTAR TYPE & STRENGTH, Fc =1800 psi MIN.
 - C. GROUT STRENGTH, Fc =2000 psi MIN.

STRUCTURAL STEEL

- 1. THE STEEL CONTRACTOR SHALL PROVIDE, WHERE NECESSARY, TEMPORARY BRACING DURING ERECTION OF STRUCTURAL STEEL.
- 2. SEE CARPENTRY SECTION FOR BOLTS, PLATES, ANGLES ETC., TO PROVIDE FOR WOOD TO STEEL CONNECTIONS.
- 3. CONNECTIONS NOT SHOWN SHALL CONFORM TO AISC STANDARDS.
- 4. STEEL CONTRACTOR IS TO CHECK IN THE FIELD THE ELEVATIONS OF LEVELING PLATES, ANCHOR BOLTS, ETC., PRIOR TO COMPLETION OF FABRICATION AND MAKE ANY NECESSARY ADJUSTMENTS OF BASE PLATES IN THE SHOP.
- 5. FIELD BURNING TO ENLARGE BOLT HOLES AND WELDING OF BOLTS TO BASE PLATES SHALL NOT BE ALLOWED.
- 6. TUBE STEEL MEMBERS SHALL BE 46 KSI GRADE B, A500 MINIMUM, ALL OTHER STEEL PLATES, SADDLES GUSSETS, ETC. SHALL BE 36 KSI STEEL.
- 7. ALL WELDING SHALL BE PERFORMED W/ E70XX ELECTRODES.
- 8. ALL STRUCTURAL BOLTS SHALL BE ASTM A307, U.N.O.

CARPENTRY

- 1. ALL WOOD FRAMING AND NAILING SHALL CONFORM TO "CONVENTIONAL CONSTRUCTION PROVISION", SEC. 2308, CALIFORNIA BUILDING CODE, CURRENT EDITION AND ANY AMENDMENTS APPROVED BY THE GOVERNING AGENCY.
- 2. VERIFY ALL PLAN DIMENSIONS AND ROUGH OPENING REQUIREMENTS PRIOR TO START OF FRAMING.
- 3. VERIFY SPACE REQUIRED FOR PLENUMS AND DUCTS WITH HEATING CONTRACTOR BEFORE START OF WORK.
- 4. VERIFY SPACE REQUIRED AND COMPLIANCE WITH CODE REQUIREMENTS FOR PIPING AND DRILLING THROUGH STRUCTURAL WOOD MEMBERS BEFORE START OF WORK.
- 5. BEAMS, GIRDERS, POSTS, AND MULLIONS SHALL BE #1 DOUGLAS FIR OR BETTER, U.N.O.
- 6. STUDS, PLATES AND CRIPPLES (STRUCTURAL), #2 DOUGLAS FIR OR BETTER. JACKS AND BLOCKING, UTILITY OR BETTER.
- 7. STUDS IN WALLS SHALL BE SPACED NOT MORE THAN 16" O.C. ALL TRUSSES SHALL BEAR DIRECTLY ON TOP OF STUDS, OR ON DBL. TOP PLATE W/ SOLID 2X BLOCKING BELOW AND BETWEEN STUDS. CORNERS AND INTERSECTIONS OF STUD WALLS SHALL BE FRAMED AS SHOWN OR SOLID.
- 8. AT THE CORNERS AND/OR INTERSECTIONS OF STUD WALLS WHICH HAVE PLYWOOD SHEATHING, THE SHEATHING FROM BOTH WALLS SHALL BE NAILED TO THE SAME STUDS OR POST WITH PERIMETER NAILING. WHERE SUCH CONNECTION IS NOT POSSIBLE, STUDS RECEIVING PLYWOOD SHEATHING FROM EACH WALL SHALL BE NAILED TOGETHER WITH 16d @ 6" O.C.
- 9. WHERE STUD WALLS ABUT MASONRY OR CONCRETE WALLS, END STUD SHALL BE A 2X PRESSURE TREATED MEMBER BOLTED TO MASONRY OR CONCRETE WITH 1/2" X 8" BOLTS @ 2'-8" O.C. AND 6" FROM TOP AND BOTTOM, U.N.O.
- 10. PROVIDE SOLID BLOCKING OR CROSSBRIDGING @ 8'-0" O.C. MAXIMUM BETWEEN JOISTS OR RAFTERS.
- 11. WOOD GIRDERS, BEAMS, JOISTS, AND RAFTERS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE - FIFTH OF THE BEAM DEPTH FROM THE TOP, LOCATED NOT FARTHER FROM THE BEAM END THAN 3 TIMES THE BEAM DEPTH.
- 12. NAILERS REQUIRED FOR FINISH MATERIAL OR FIREPROOFING OF STEEL SHALL BE BOLTED TO STEEL AS SPECIFIED. COUNTERSINK BOLTS WHERE THEY INTERFERE WITH FINISH, U.N.O.
- 13. BOLTS BEARING ON WOOD SHALL HAVE STANDARD CAST IRON OR MALLEABLE IRON WASHERS. BOLTS HOLES SHALL BE DRILLED TO THE NET DIAMETER OF BOLTS.
- 14. WHERE PLYWOOD SHEATHING IS USED ON ROOF OR ON FLOOR, SHEETS SHALL BE LAID PERPENDICULAR TO DIRECTION OF JOISTS OR RAFTERS. PLYWOOD SHEETS SHALL BE STAGGERED.
- 15. EDGES OF PLYWOOD SHEETS NOT NAILED TO STUDS, JOISTS OR SOLID BLOCKING SHALL BE BLOCKED AND NAILED TO 2X4 FLAT BLOCKING WITH PERIMETER NAILING. (EXCEPTION FOR ROOF AND FLOOR DIAPHRAGMS, U.N.O.)
- 16. BRACING - ALL EXTERIOR WALL AND MAIN CROSS STUD PARTITIONS SHALL BE EFFECTIVELY AND THOROUGHLY BRACED AT EACH END, OR AS NEAR THERETO AS POSSIBLE AND AT LEAST EVERY 25 FT. OF LENGTH BY ACCEPTABLE ALTERNATE METHODS. SECTION 2308, CRC CURRENT EDITION.
- 17. STUD HEIGHT: UNLESS SUPPORTED Laterally THE MAXIMUM HEIGHT OF STUDS SHALL BE AS FOLLOWS FOR NON-BEARING WALLS ONLY:

SIZE	HEIGHT (MAX.)
2X3	10'-0"
2X4	14'-0"
2X6	20'-0"
3X4	14'-0"
- 18. WALL FRAMING: EXTERIOR AND INTERIOR BEARING WALLS OF BUILDING NOT OVER TWO STORIES IN HEIGHT SHALL BE 2X4 STUDS. FOR THREE STORY BUILDINGS, THE FIRST FLOOR SHALL BE 3X4 OR 2X6 STUDS. UNDERPINNING UNDER TWO STORY BUILDINGS OVER 6'-0" IN LENGTH SHALL BE 3X4 OR 2X6. U.N.O.

DESIGN STRESSES & PROPERTIES FOR GLUE LAMINATED LUMBER

ALL GLUELAM BEAMS SHALL MEET THE FOLLOWING CRITERIA:
Fb= 2400 PSI Fv = 165 PSI E = 1.8 x 10⁶ PSI

DESIGN STRESSES & PROPERTIES FOR MANUFACTURED LUMBER

		G							
TYPE	GRADE	ORIENTATION	SHEAR MODULUS OF ELASTICITY (psi)	E MODULUS OF ELASTICITY (psi)	Fb FLEXURAL STRESS (psi)	FcL Ft TENSION STRESS (psi)	COMPRESSION PERPENDICULAR TO GRAIN (psi)	FcII COMPRESSION PARALLEL TO GRAIN (psi)	Fv COMPRESSION SHEAR PARALLEL TO GRAIN (psi)
TIMBERSTRAND LSL	1.7E	BEAM	106,250	1.7 x 10 ⁶	2,600	1,825	880	2,380	400
MICROLAM LVL	1.9E	BEAM	118,750	1.9 x 10 ⁶	2,600	1,555	750	2,510	285
PARALLAM PSL	2.0E	BEAM	125,000	2.0 x 10 ⁶	2,900	2,025	750	2,900	290

NAILING SCHEDULE, TO COMPLY WITH 2019 CBC/CRC

- 1. NAILING FOR FRAMING SHALL BE WITH BOX NAILS, NUMBER AND SIZE AS FOLLOWS, EXCEPT AS NOTED OTHERWISE ON PLANS. NAILING TO PRESSURE TREATED LUMBER SHALL BE WITH HOT-DIPPED GALVANIZED OR STAINLESS STEEL NAILS.
- 2. NAILS SHALL NOT BE DRIVEN CLOSER TOGETHER THAN 1/2 THEIR LENGTH, NOR CLOSER TO THE EDGE OF MEMBER THAN 1/4 THEIR LENGTH, EXCEPT FOR SHEATHING. PENETRATION SHALL BE 1/2 THE LENGTH OF NAIL MINIMUM.
- 3. NAILING NOT NOTED BELOW OR ON PLANS AND DETAILS SHALL BE A MINIMUM OF TWO NAILS AT EACH CONTACT, 8d FOR 1" MATERIAL AND 16d FOR 2" MATERIAL.

- 4. WHERE POSSIBLE, NAILS DRIVEN PERPENDICULAR TO THE GRAIN SHALL BE USED INSTEAD OF TOE NAILING.
- 5. HOLES SHALL BE PRE-DRILLED FOR NAILS WHICH TEND TO SPLIT WOOD.
- 6. REQUIRED NAILING AS FOLLOWS:

JOISTS OR RAFTERS TO SIDES OF STUDS
8" JOISTS OR LESS3-16d
FOR EACH ADDITIONAL 4" IN DEPTH.....1-16d

JOISTS OR RAFTERS AT ALL BEARINGS
TOE NAILS EACH SIDE.....2-16d

STUDS TO BEARING
TOE NAILS EACH SIDE.....2-8d

BLOCKING BETWEEN JOISTS OR RAFTERS
TO JOIST OR RAFTER - TOE NAILS EACH END.....2-8d
TO JOIST OR RAFTER BEARINGS - TOE NAILS EACH SIDE 2-8d

CROSS BRIDGING BETWEEN JOISTS OR RAFTERS
TOE NAILS EACH END.....2-8d

BLOCKING BETWEEN STUDS
EACH END.....2-8d TOE NAILS OR 2-16d END NAILS

TRUSSES OR RAFTERS TO PLATE
TOE NAIL ONE SIDE..... 2-16d
OTHER SIDE (BACKNAIL) 1-16d

DOUBLE TOP PLATES
LOWER PLATE TO TOP OF STUD 2-16d
UPPER PLATE TO LOWER PLATE16d @ 12" STAGGERED
UPPER PLATE TO LOWER PLATE AT INTERSECTION 3-16d
UPPER PLATE TO LOWER PLATE @ 4'-0" MIN. LAP16d @ 6" O.C.

MULTIPLE STUDS..... 16d @ 12"

MULTIPLE POSTS 1/2" DIAMETER BOLTS @ 2'-8" O.C.

MULTIPLE JOIST
10" OR LESS IN DEPTH.....16d @ 12" STAGGERED
MORE THAN 10" DEEP1/2" BOLTS @ 24" STAGGERED

NAILING OF PLYWOOD (UNLESS OTHERWISE SPECIFIED)

LOCATION	THICKNESS	EDGE NAIL	FIELD NAIL
* ROOF	1/2"	8d @ 6" O.C.	8d @ 12" O.C.
* FLOORS	5/8"	10d @ 6" O.C.	10d OR 8d RING SHANK @ 10" O.C.
* WALLS	3/8" 1/2"	8d @ 6" O.C. 8d @ 6" O.C.	8d @ 12" O.C. 8d @ 12" O.C.

* NAILING FOR ALL SHEAR WALLS, ROOFS AND FLOORS SHALL BE COMMON NAILS PER C.B.C. TABLES

PLYWOOD GRADES

FLOORS	CDX - T&G APA SPAN RATED 32/16. FACE GRAIN PERPENDICULAR TO JOIST.
ROOF	CDX - APA APPROVED PLYCLIPS AT UNSUPPORTED EDGES OVER 24" APA SPAN RATED 24/0.

SHEAR PANELS CDX APA, FACE GRAIN UP FULL HEIGHT. NO HORIZONTAL JOINTS.

NAILING OF GYPSUM WALLBOARD

LOCATION	THICKNESS	EDGE NAIL	FIELD NAIL
WALLS	1/2" 5/8"	5d COOLER @ 7" O.C. 6d COOLER @ 7" O.C.	5d COOLER @ 7" O.C. 6d COOLER @ 7" O.C.
CEILINGS	1/2" 5/8"	5d COOLER @ 6" O.C. 6d COOLER @ 6" O.C.	5d COOLER @ 6" O.C. 6d COOLER @ 6" O.C.

3/8" MINIMUM EDGE DISTANCE

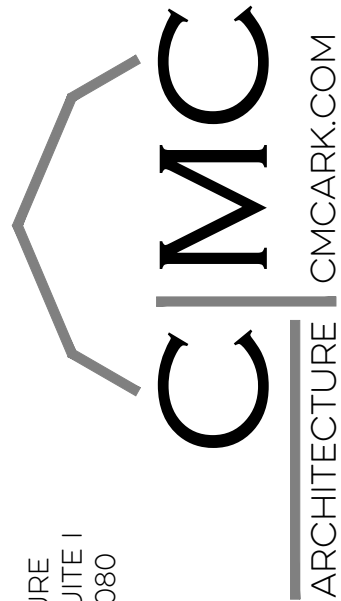
GYPSUM WALLBOARD WALLS, SPECIFIED FOR USE AS SHEAR WALLS, SHEETS SHALL BE INSTALLED VERTICALLY WITH ALL EDGES BLOCKED.

GYPSUM WALLBOARD FOR THE RATED ASSEMBLIES SHALL BE INSTALLED AS PER THE ASSEMBLY REQUIREMENTS.

DESIGN CRITERIA:

WIND LOAD EXP B (3 SEC. GUST)..... 110 MPH
FLOOR LIVE LOAD / ROOF LIVE LOAD... NA / 20 psf
SEISMIC DESIGN CATEGORY..... D
SOIL CLASS..... D

STRUCTURAL NOTES
MEDIUM ACCESSORY DWELLING UNIT - (672 SQ FT ONE BEDROOM)



CMC ARCHITECTURE
332 FINE STREET, SUITE 1
RED BLUFF, CA 96080
(530) 440-9256

SHEET

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ANTONETTE ARBOREAS MONTU
C-35355
RENEWAL:2/28/23
STATE OF CALIFORNIA

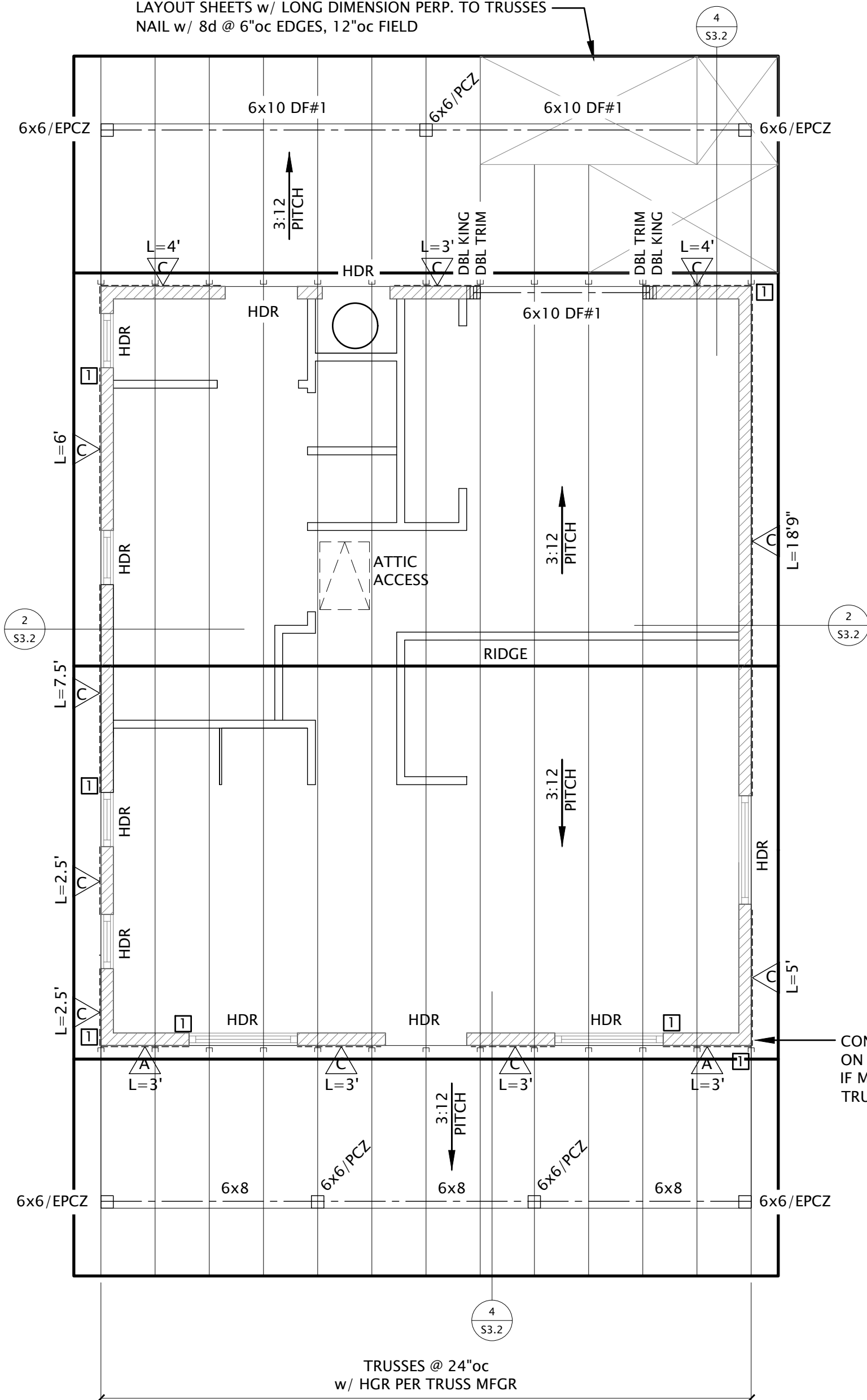
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WALL LEGEND:

* BEARING WALL @ FOOTING

2x6 STUDS @ 16"oc (U.O.N.) BEARING WALL

2x4 / 2x6 NON-BEARING WALL w/ DTC CLIPS @ 48"oc

HEADER 6x8, TYP.
U.O.N.7/16" EXPOSURE 1" ROOF SHT'NG
24/16 MIN. SPAN RATING (CDX OR OSB)
LAYOUT SHEETS w/ LONG DIMENSION PERP. TO TRUSSES
NAIL w/ 8d @ 6"oc EDGES, 12"oc FIELDTRUSSES @ 24"oc
w/ HGR PER TRUSS MFG

BRACE WALL SCHEDULE:

OPTIONAL APPLICATION (REQUIRED WHERE INDICATED)
APPLY STRUCTURAL SHEATHING TO ENTIRE EXTERIOR SURFACE OF BUILDING
(WILL BE UNDERLAYMENT FOR LAP SIDING EXTERIOR FINISH)
3/8" CDX (OR OSB, SEE BELOW), 8d @ 6"oc EDGES, 12"oc FIELDP CONVENTIONAL FRAMING SATISFACTORY THIS APPLICATION
BRACED WALL PANEL PER CRC R602.10
SHEATHING AS INDICATED ABOVE @ MINIMUM LENGTH SHOWNC CONVENTIONAL FRAMING SATISFACTORY THIS APPLICATION
BRACED WALL PANEL PER CRC R602.10
SAME AS "P" >CONTINUOUSLY TO ENTIRE WALL<A CONVENTIONAL FRAMING SATISFACTORY THIS APPLICATION
ALTERNATE BRACED WALL PANEL PER CRC R602.10.6.1
2'-10" MINIMUM PANEL LENGTH, 10' MAXIMUM WALL HEIGHT
3/8" CDX (OR OSB, SEE BELOW), 8d @ 4"oc EDGES, 12"oc FIELD

..Use common or galvanized box nails (8d Common = 0.131" x 2 1/2")

..Always use 16" min. (U.O.N.) wide pieces of sheathing on shearwalls

..Nail heads shall not penetrate sheathing

..Edge nail sheathing @ shearwall boundary (plate, post or stud) & at holdown posts

[2x full depth blk'ng REQUIRED @ horiz. sheathing joints U.O.N.]

..Okay to use 1/2" sht'ng w/ same nailing where 3/8" sht'ng specified

..OSB may be used instead of CDX plywood & must be labeled as "APA rated sheathing".

3/8" CDX ==> 3/8" or 7/16" OSB 1/2" CDX ==> 15/32" OSB

EDGE NAIL SHEATHING TO HOLDOWN POST OR STUD

CONTRACTOR TO VERIFY TRUSS GRAVITY LOAD
ON EXTERIOR BEARING WALL LESS THAN 2200LBS
IF MORE THAN 2200LBS, ADD STUD UNDER EACH
TRUSS, TYP.

FRAMING NOTES:

* EXTERIOR FRAMING:

- 2x DF#2 STUDS @ 16"oc /// (2) 2x TOP PLATE /// 6x8 (MIN) HDR U.O.N.O.
- STANDARD TOP PLATE SPLICES => LAP 48" w/ 12-16d >>> EACH SIDE<< OF UPPER SPLICE
- ALL 4x LUMBER TO BE DF #2 (U.O.N.) /// ALL 6x LUMBER TO BE DF #1

* INSTALL ALL HARDWARE WITH CONNECTORS PER MANUFACTURER'S
SPECIFICATIONS, U.O.N. (HARDWARE USES COMMON NAILS, U.O.N.)* ALL 16d NAILS @ LUMBER/LUMBER CONNECTIONS CAN BE SINKER NAILS, U.O.N.
ALL NAILS @ HARDWARE CONNECTIONS TO BE COMMON NAILS, U.O.N.
(SINKER NAILS ARE 0.148" x 3 1/4" OR USE 0.131" x 3" PER TABLE R602.3 (1))DBL STUD (KING @ OPENING) w/ HTT4 (14-16d @ 0.163" x 2 1/2")
NAIL DBL STUD TOGETHER W/ 16-16d (WELL SPACE)

2

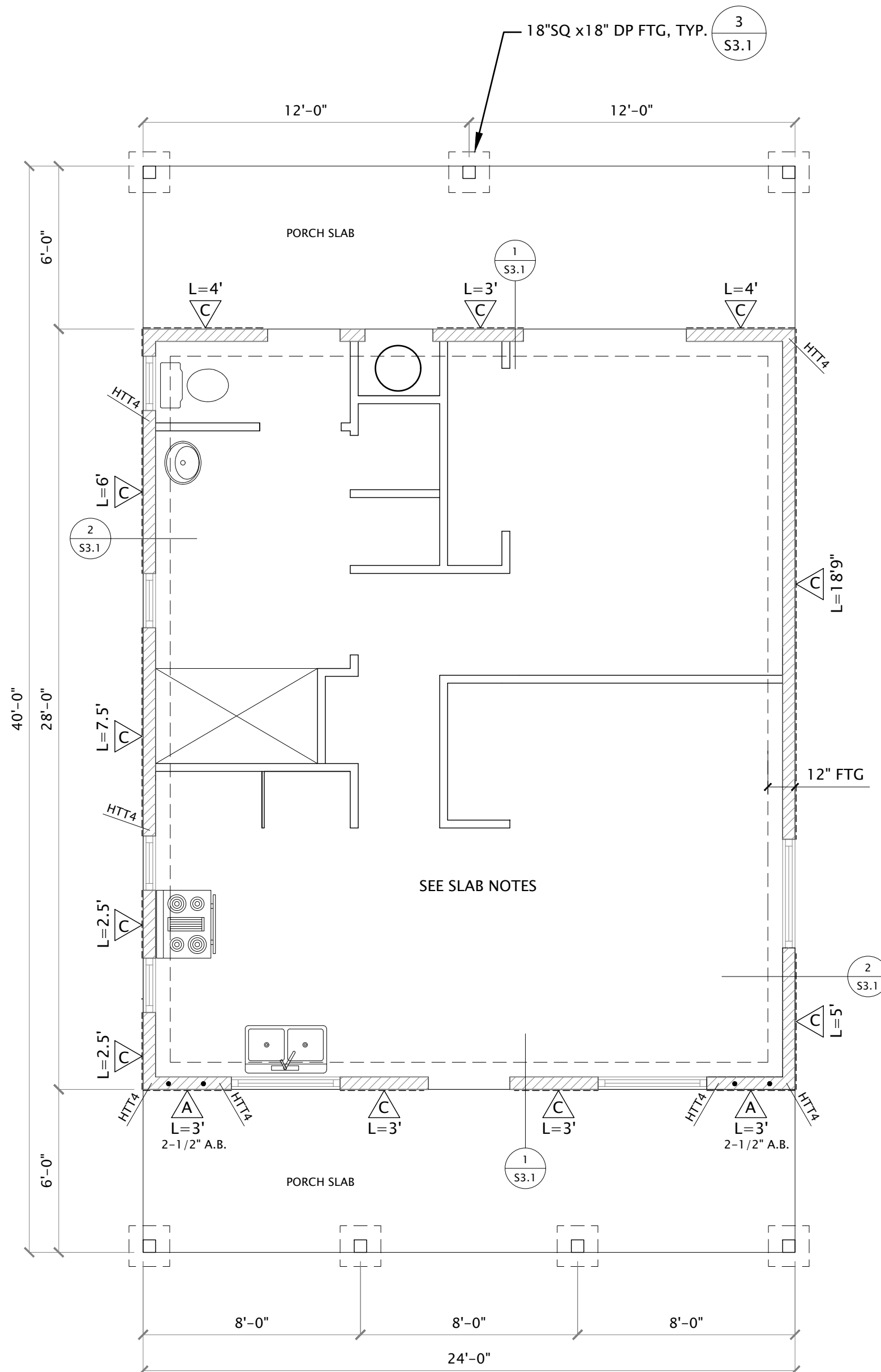
OPTION 2 - ROOF FRAMING PLAN

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

1

FOUNDATION PLAN

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



FOUNDATION NOTES:

* ASSUMED SOIL ALLOWABLE BEARING USE 1500 PSF
CONTRACTOR AND/OR OWNER IS SOLELY RESPONSIBLE FOR VERIFYING THAT
THE SOIL CONDITIONS @ THE BUILDING SITE ARE OF ADEQUATE INTEGRITY TO SUPPORT
THE STRUCTURE. AT MINIMUM, VERIFY BEARING ON NATIVE SOIL OR ENGINEERED FILL.
IF NECESSARY, CONSULT A GEOTECHNICAL ENGINEER.
* CONTRACTOR AND/OR OWNER IS SOLELY RESPONSIBLE FOR PROVIDING PROPER DRAINAGE
AROUND THE STRUCTURE (2% AWAY, MIN., OR AS REQ'D).
THIS INCLUDES PROPERLY GRADING THE SITE AND IMPLEMENTING ANY DRAINAGE SYSTEMS OR
EROSION CONTROL MEASURES AT OR NEAR THE STRUCTURE TO PREVENT ANY KIND OF WATER
DAMAGE TO THE STRUCTURE.* IF THE STRUCTURE IS BUILT >>> ON OR NEAR <<< GROUND SLOPING MORE THAN 1:4,
THEN ALERT THE DESIGNER FOR POSSIBLE COMPLIANCE ISSUES W/ CRC R403.1.7.
STRUCTURE MUST BE SET BACK @ LEAST 15' FROM THE TOP OR BOTTOM CREST OF ANY
SLOPES ON THE SITE (CONTACT DESIGNER FOR ACCEPTABLE ALTERNATIVES).* ALL CONCRETE FOR FOOTINGS TO HAVE A 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI
(5 SACK CEMENT PER CUBIC YARD ==>> SUGGESTED MINIMUM) 3000 PSI @ PATIO
>>> SUGGEST (NOT REQ'D)<<< CONCRETE SHOULD BE VIBRATED TO ELIMINATE VOIDS AND
PROMOTE BONDING W/ STEEL

* ALL FOOTING STEEL TO BE GRADE 40 MIN.

* CONNECTORS @ P.T. SILL TO BE IN COMPLIANCE W/ CRC R402.1.1/ CBC 2304.9.5

HOT-DIP GALV. OR STAINLESS STEEL NAILS /// HOT-DIP GALV. OR ZINC COATED ANCHOR
BOLTS

* ANCHOR BOLTS TO BE 1/2" BOLTS @ 72"oc (MAX.) w/ 7" MIN. EMBED. (CRC R403.1.6/ CBC 2308.6)

- ALL CAST IN PLACE BOLTS TO HAVE EMBEDDED HEAD OR 'J' BEND INTO CONCRETE

- ALL BOLTS REQUIRE 3" x 3" x 1/4" PLATE WASHERS (CRC R403.1.6.1/ CBC 2308.12.)

SLOT IN PLATE WASHER (1 3/4" MAX. LENGTH) OKAY IF STANDARD CUT WASHER ALSO USED

SLAB NOTES:

SLAB @ DWELLING:

3 1/2" (MIN) CONCRETE SLAB (CRC R506.1)

USING 4" MIN. IS >SUGGESTED<

STEEL AT MID-DEPTH (#3 @ 24"oc E.W. OR 6x6 - W4.0 x W4.0)

O/ OPTIONAL/SUGGESTED 2" (HOLD) SAND

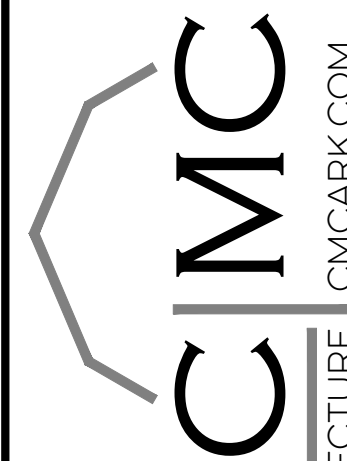
O/ 15 MIL VAPOR BARRIER

O/ 4" (MIN) FREE-DRAINING GRAVEL BASE (1/2" TO 1")

HOLD DOWN LEGEND

* CONTRACTOR TO COORDINATE HOLDOWN BOLT LOCATIONS W/ FRAMING PLAN
AND TIE ALL HOLDOWN BOLTS INTO PLACE PRIOR TO CONCRETE PLACEMENT.HTT4 HOLDOWN W/ DBL FULL HEIGHT STUDS (KING @ OPENING)
LAMINATED TOGETHER W/ 16d @ 6"oc & W/ SSTB20 ANCHOR
@ FOUNDATION LEVEL

SHEET NAME & PROJECT

FOUNDATION / ROOF FRAMING PLAN - ELM
MEDIUM ACCESSORY DWELLING UNIT - (672 SQ FT ONE BEDROOM)CITY OF RED BLUFF
555 WASHINGTON
RED BLUFF, CA 96080
APR:CMC ARCHITECTURE
3301 HIGHWAY 99
RED BLUFF, CA 96080
(530) 440-9266

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S2

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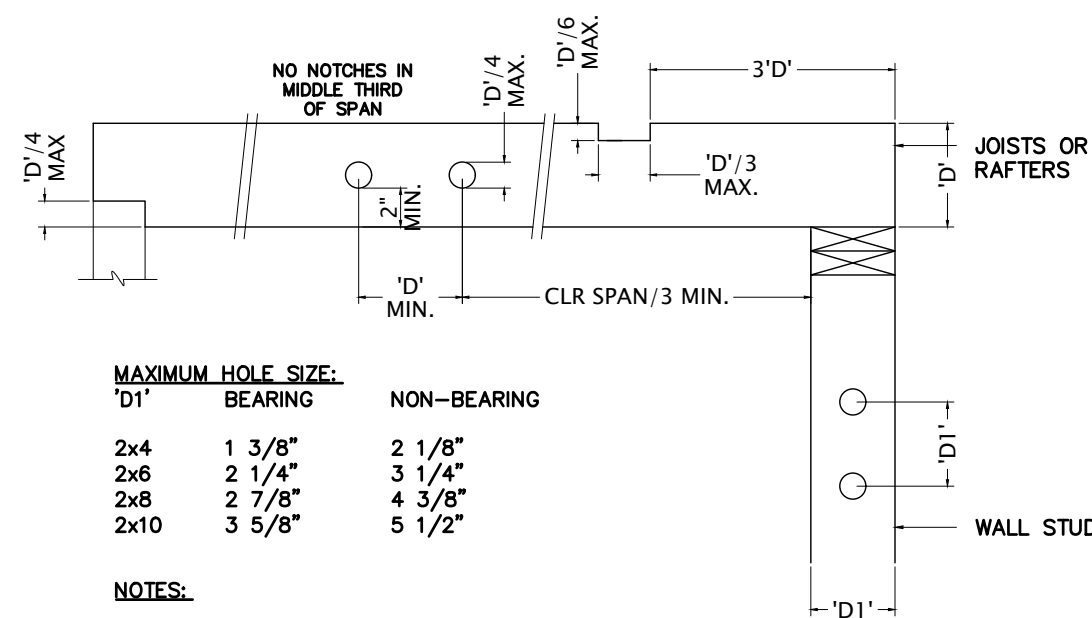
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ARCHITECT

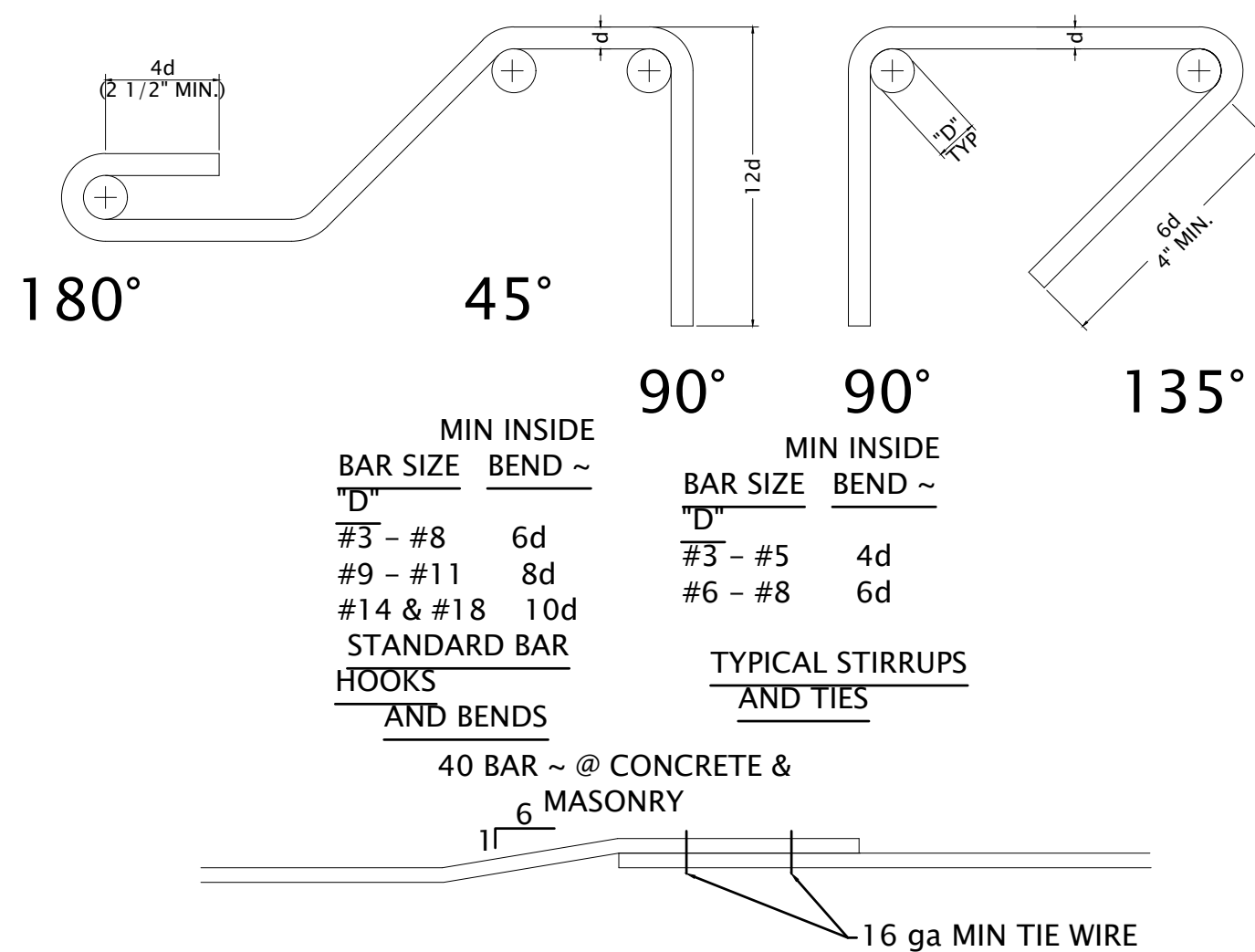
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RENEWAL: 2/28/23

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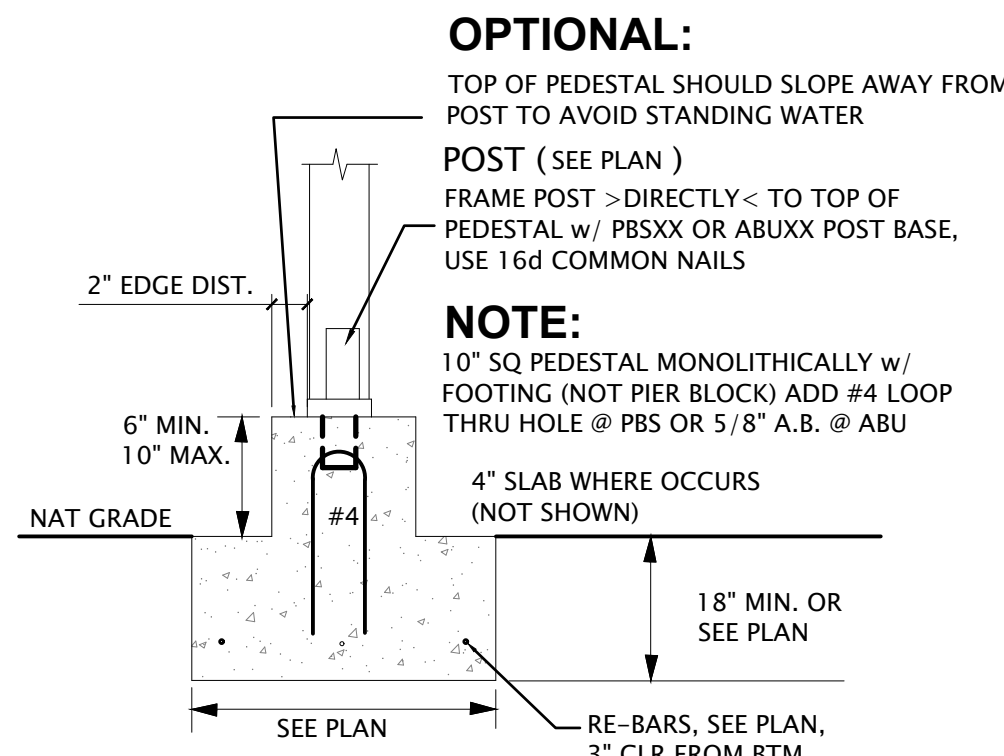
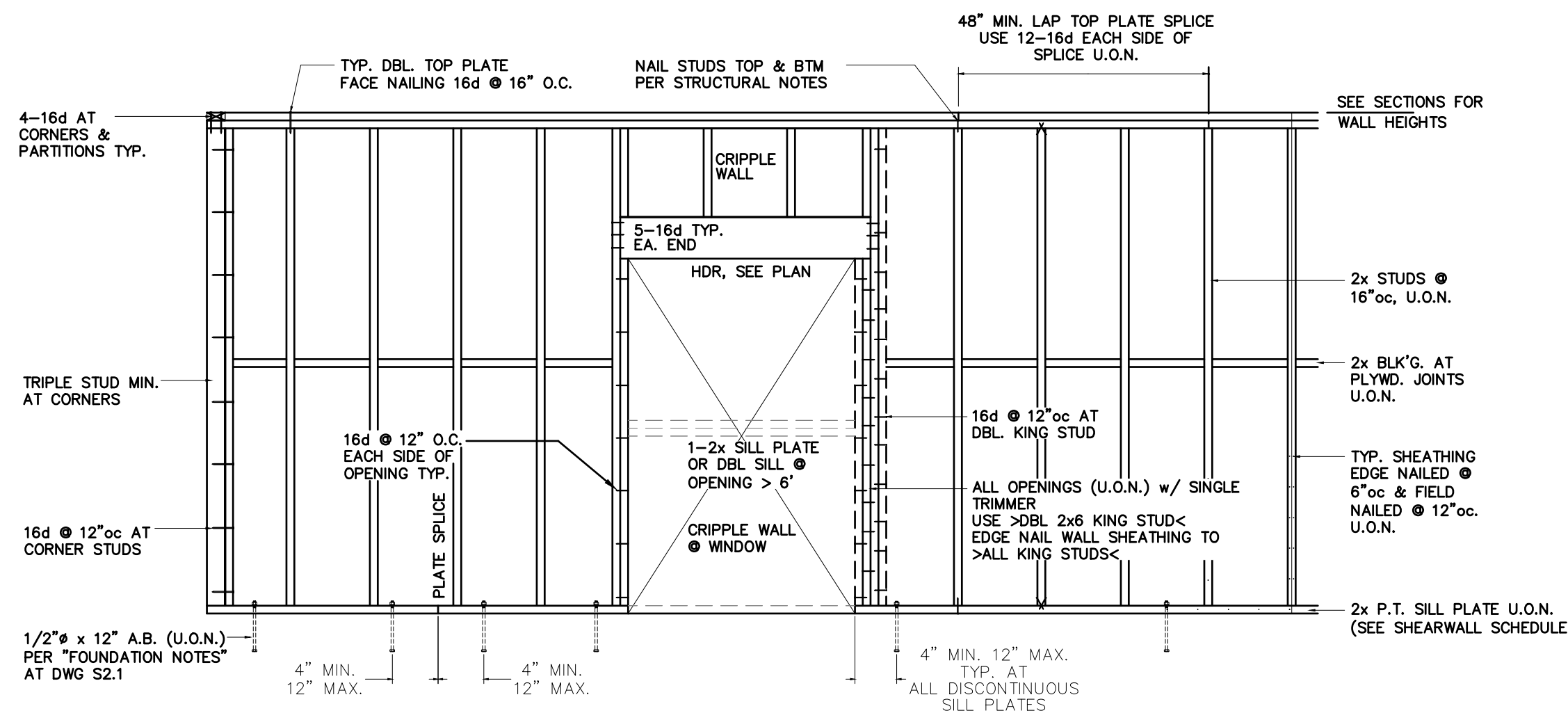
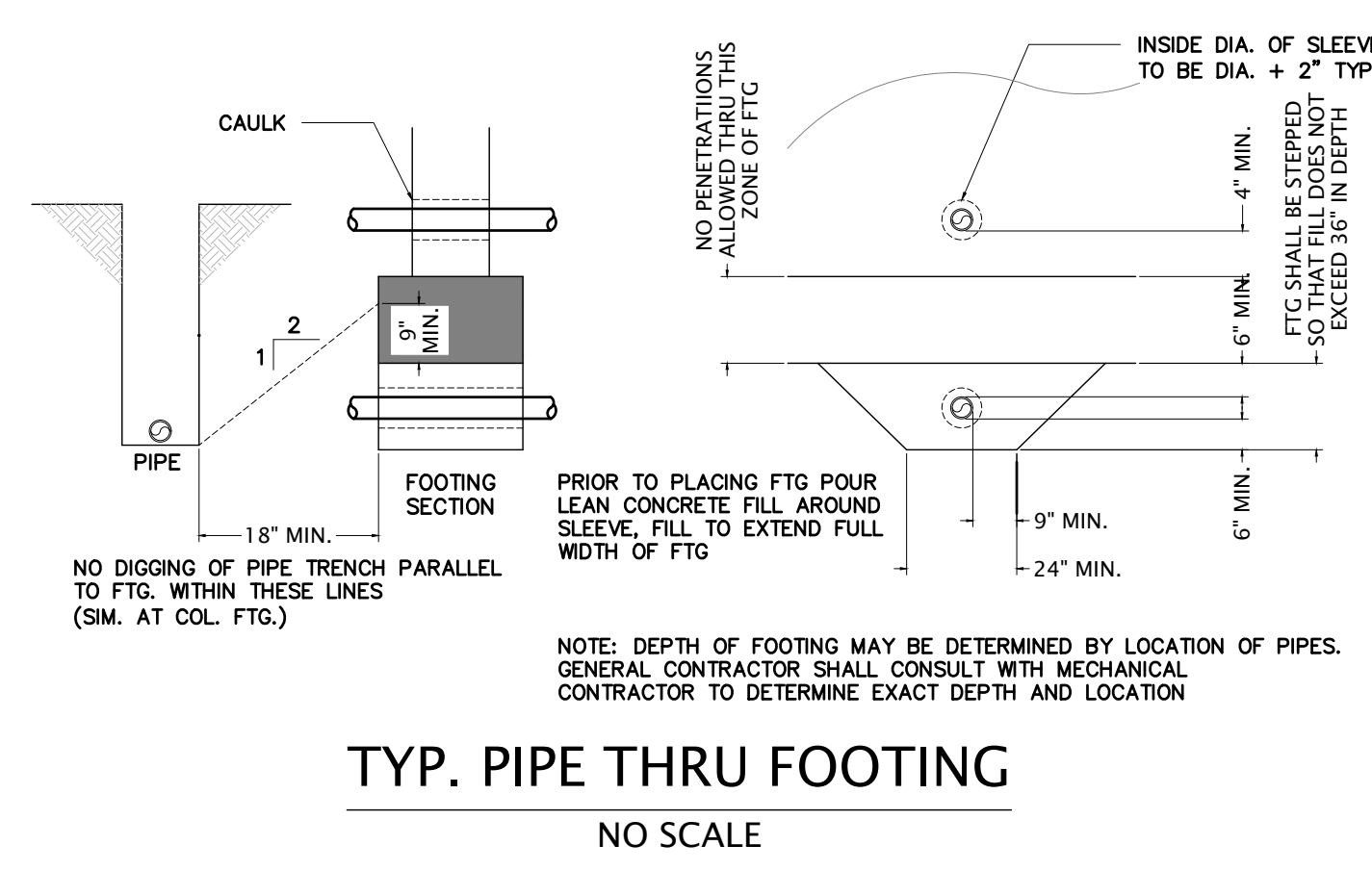
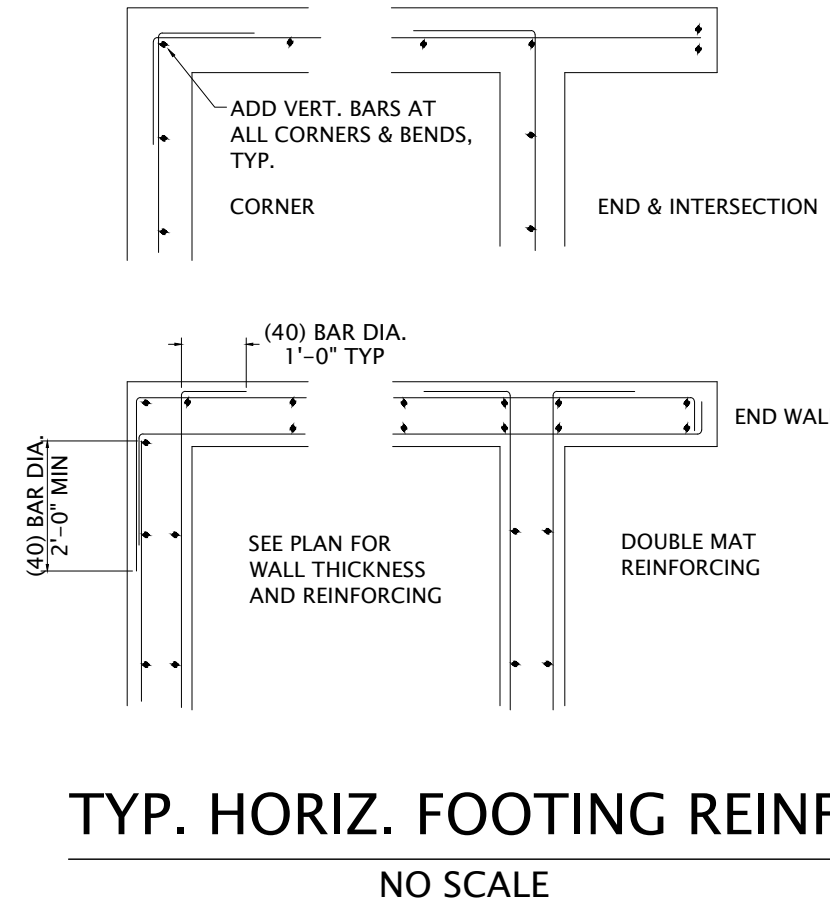
HOLES & NOTCH
NO SCALE



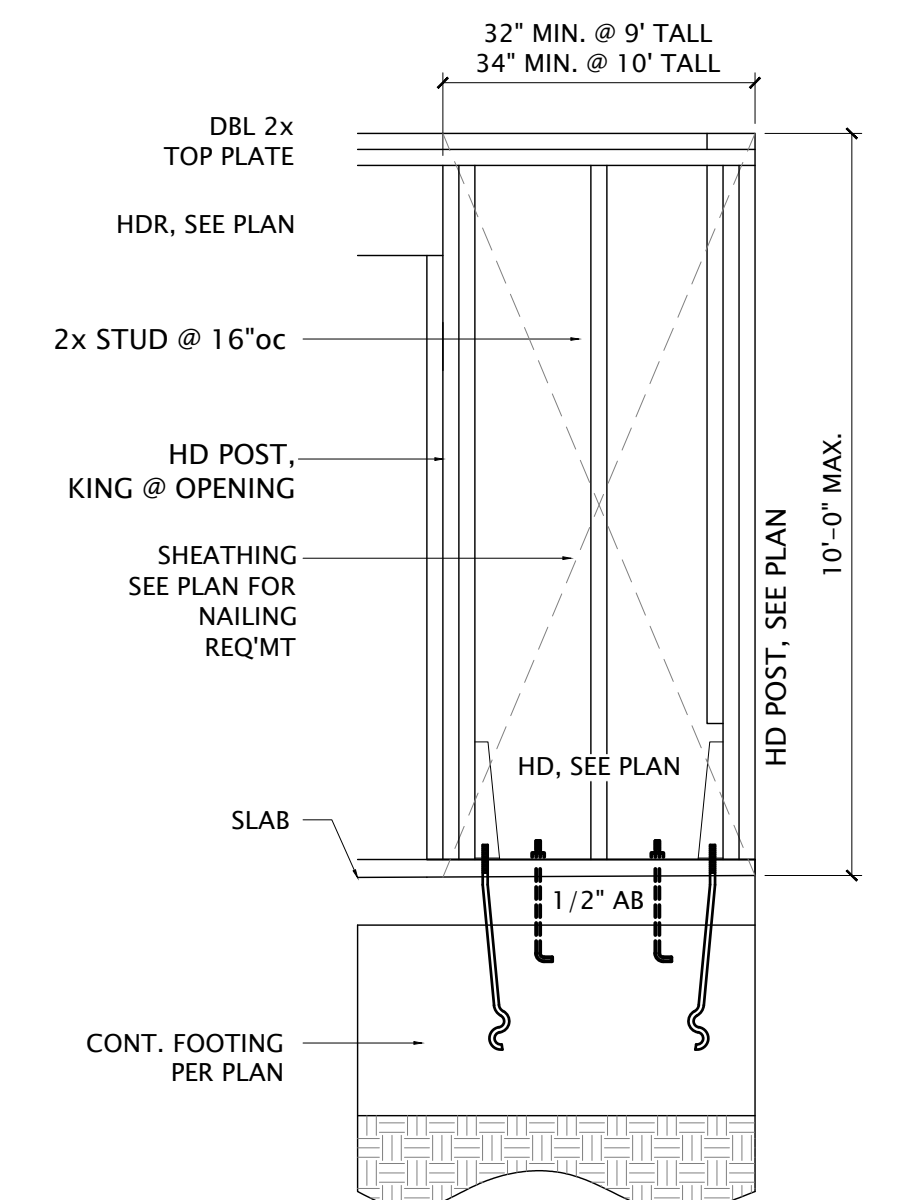
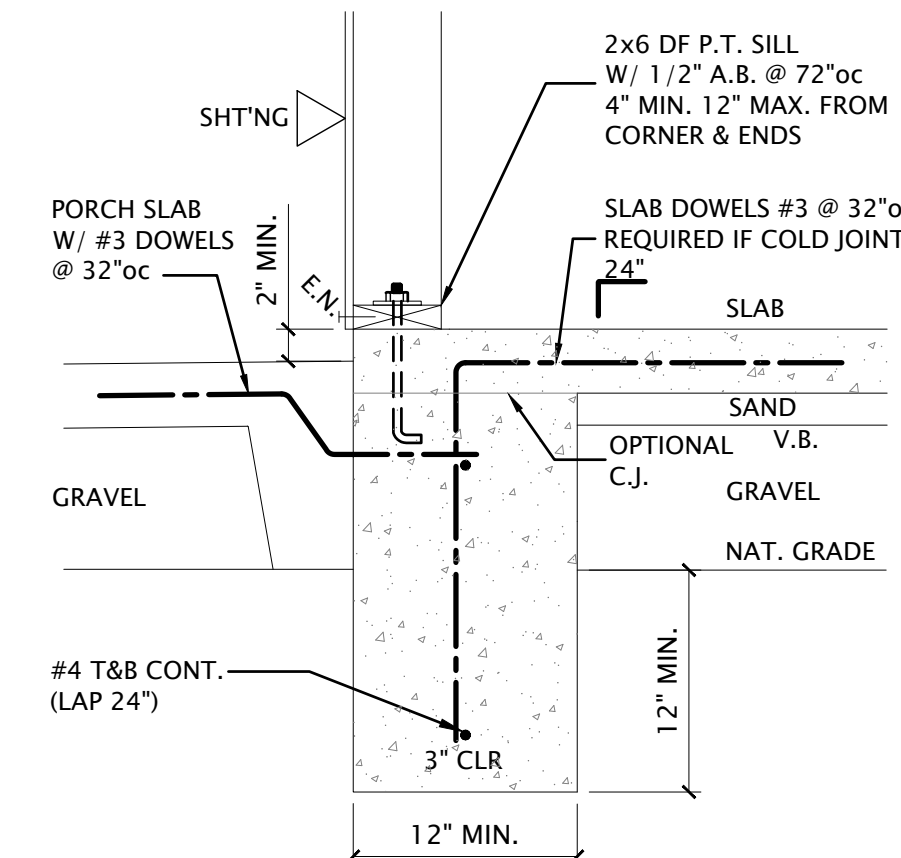
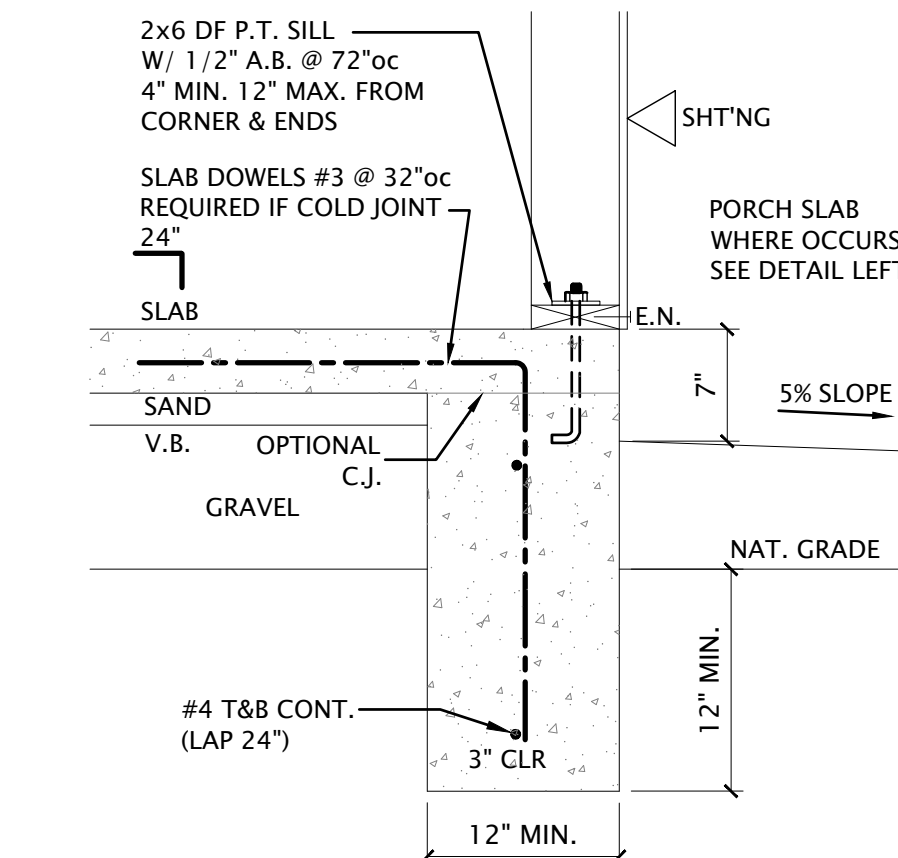
TYP. RE-BAR HOOKS & BENDS
NO SCALE

NOTE:
VERIFY ALL REBAR IN FOOTINGS WITH THE FOUNDATION PLAN

NOTE:
ALL SILL PLATES FOR SHEAR WALLS IN CONTACT WITH CONCRETE SHALL BE DOUGLAS FIR PRESSURE TREATED LUMBER.



PORCH PIER FOOTING
SCALE: 1"=1'-0"



STRUCTURAL DETAILS
MEDIUM ACCESSORY DWELLING UNIT - (672 SQ FT ONE BEDROOM)

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(530) 440-9260

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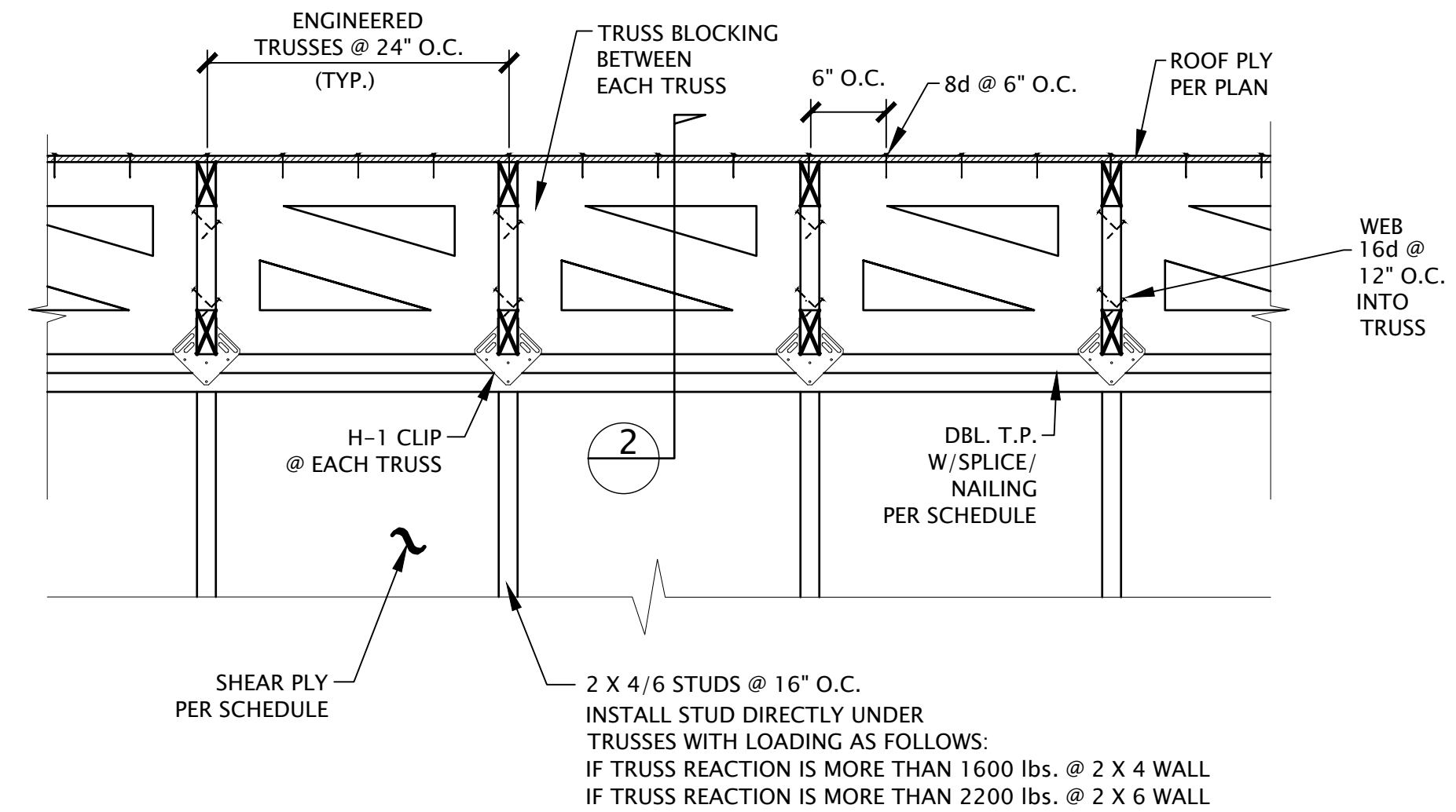
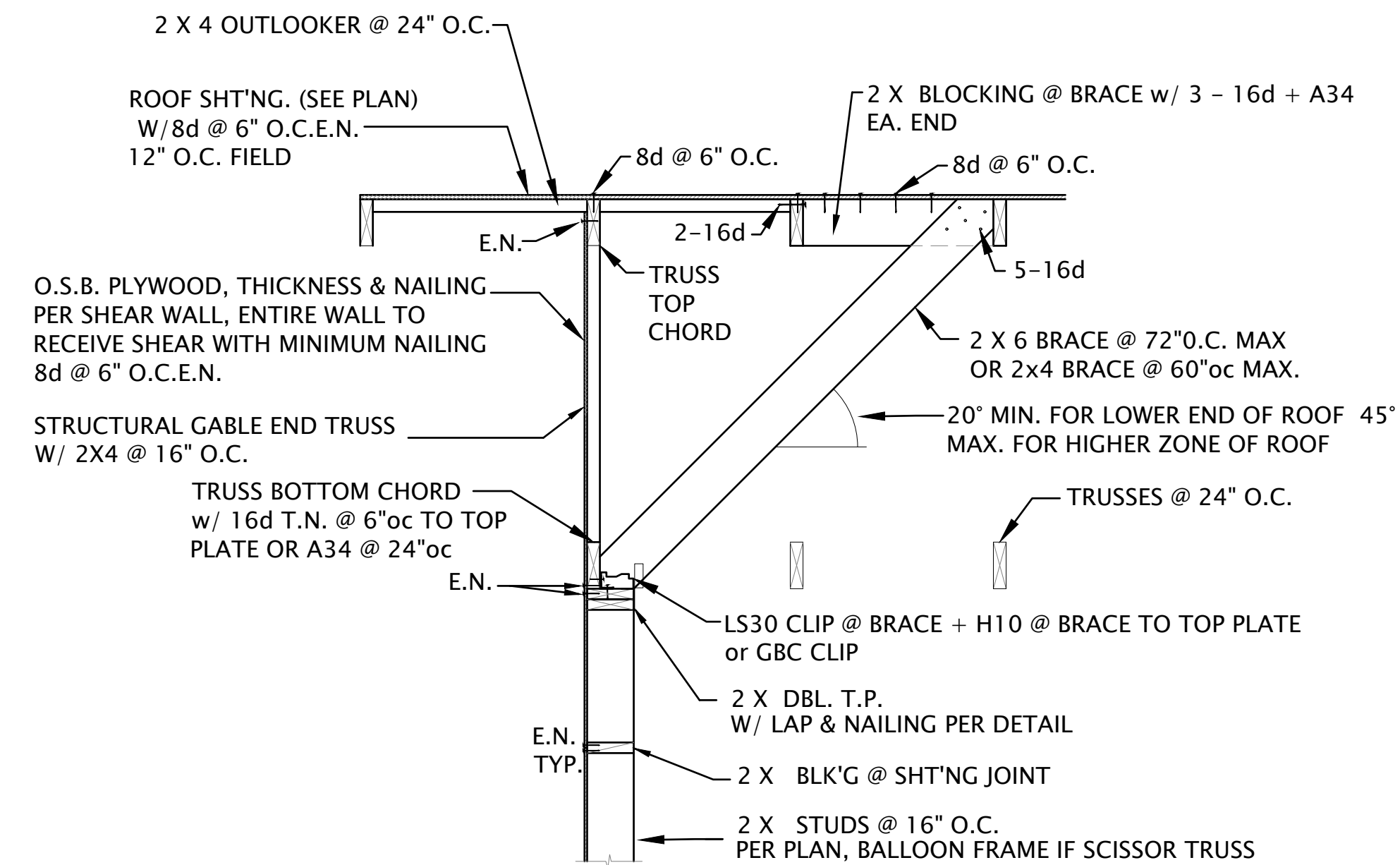
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08/22/2022	08/22/2022

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JOB NUMBER 08/22/2022
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ANTONETTE
ANTONETTE
C-35355
RENEWAL: 2/28/23
STATE OF CALIFORNIA

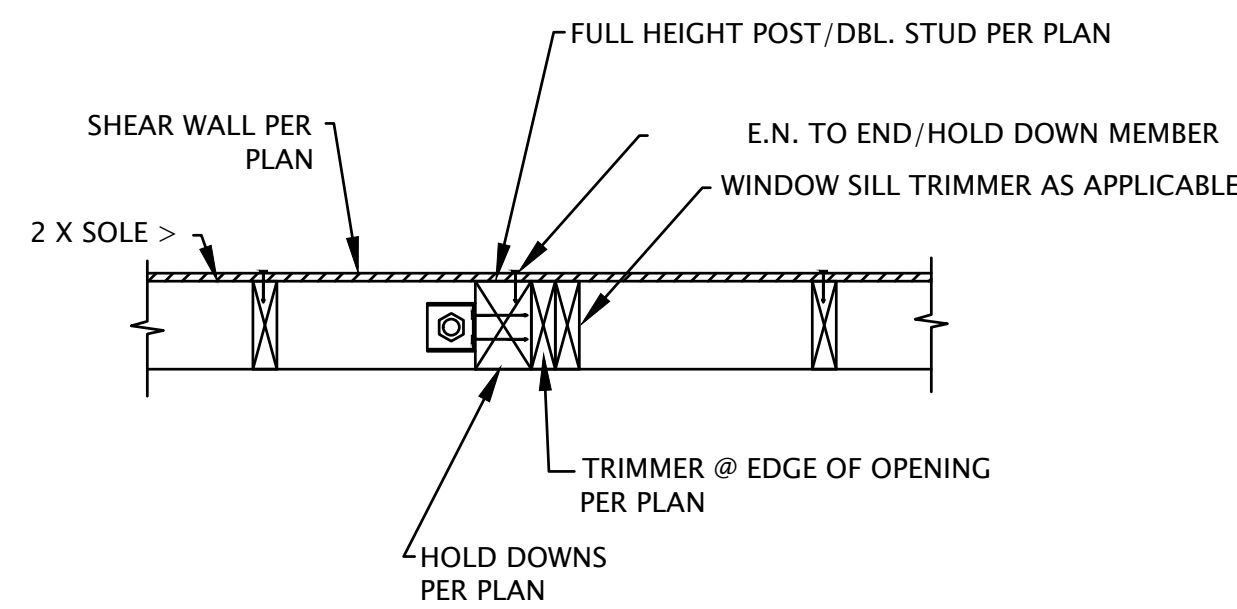
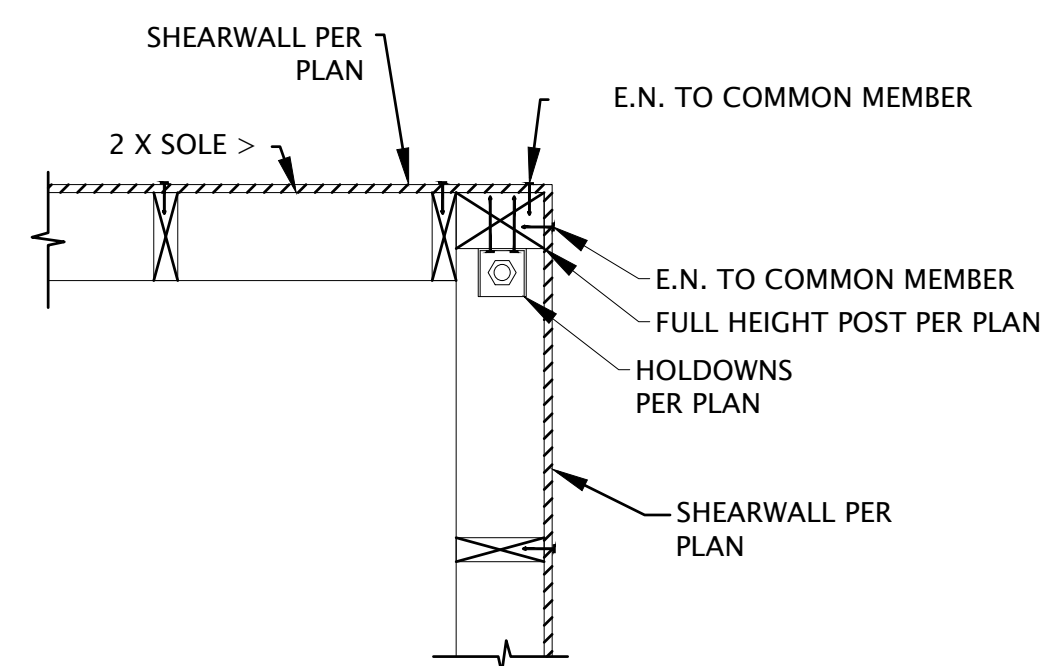
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1 DETAIL NOT USED

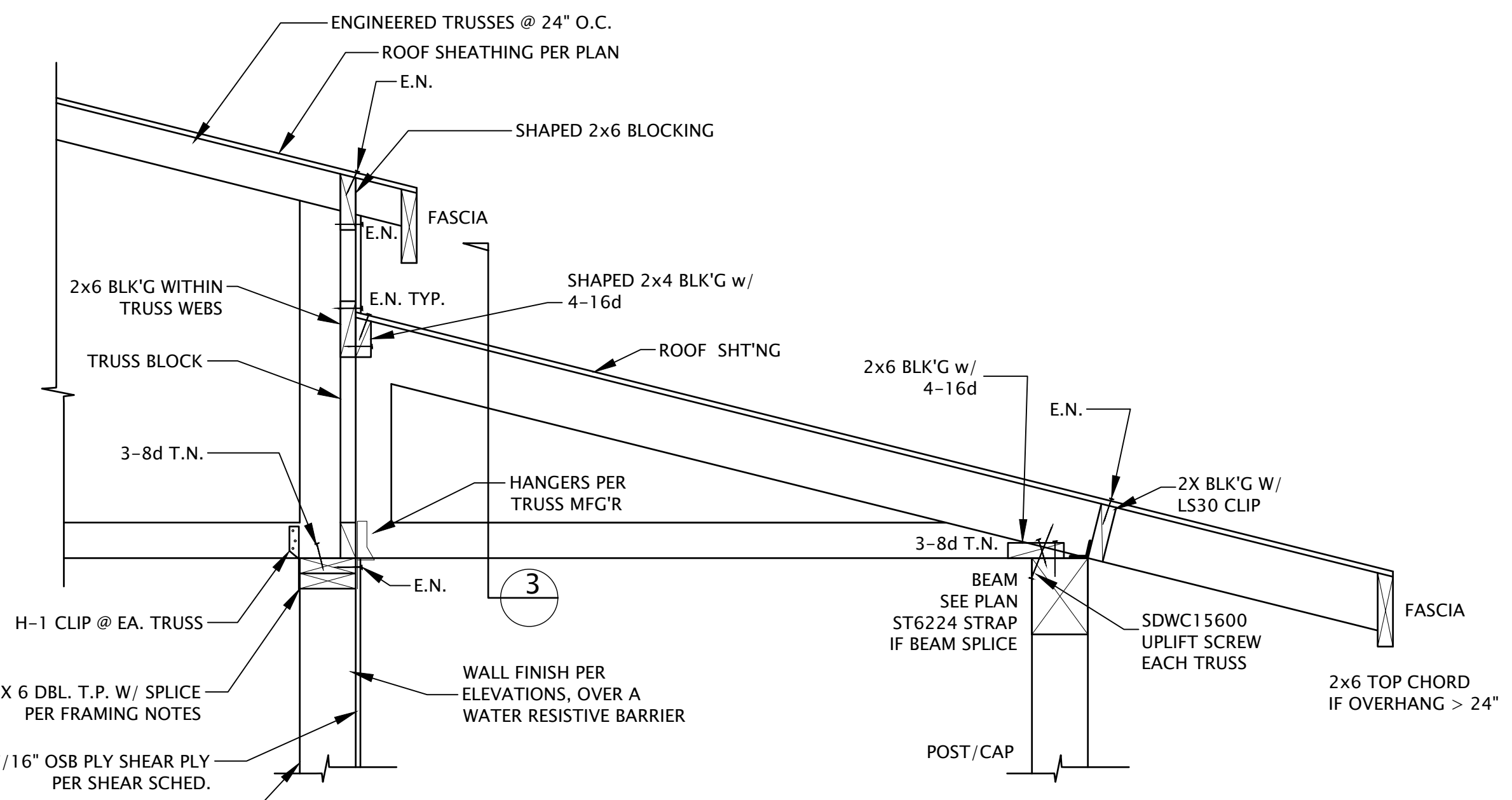
2 TYP. GABLE END SHEAR TRANSFER

3 TRUSS BLOCKING SHEAR TRANSFER

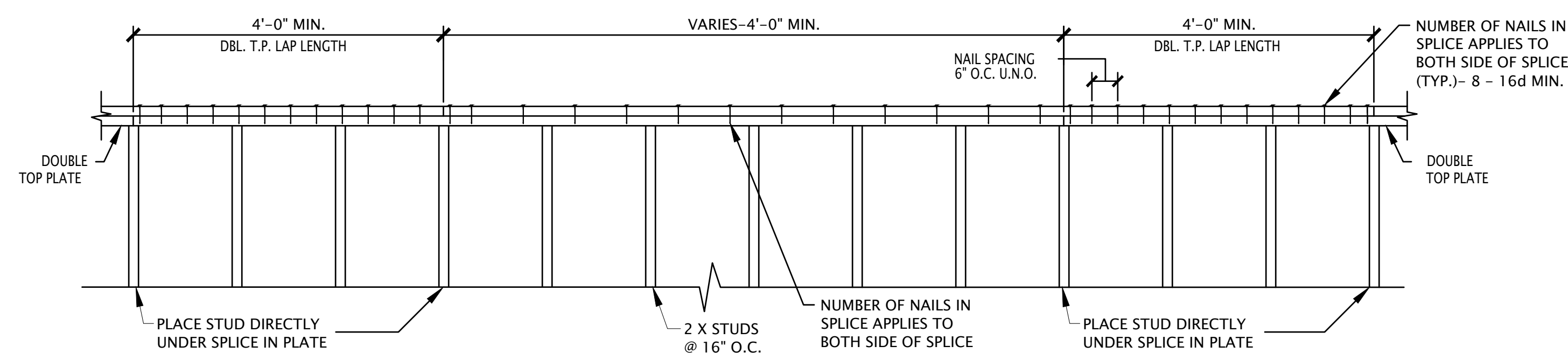


FRAMING @ CORNER W/ HOLD DOWN CASE 1

FRAMING @ INTERIOR W/ HOLD DOWN CASE 2

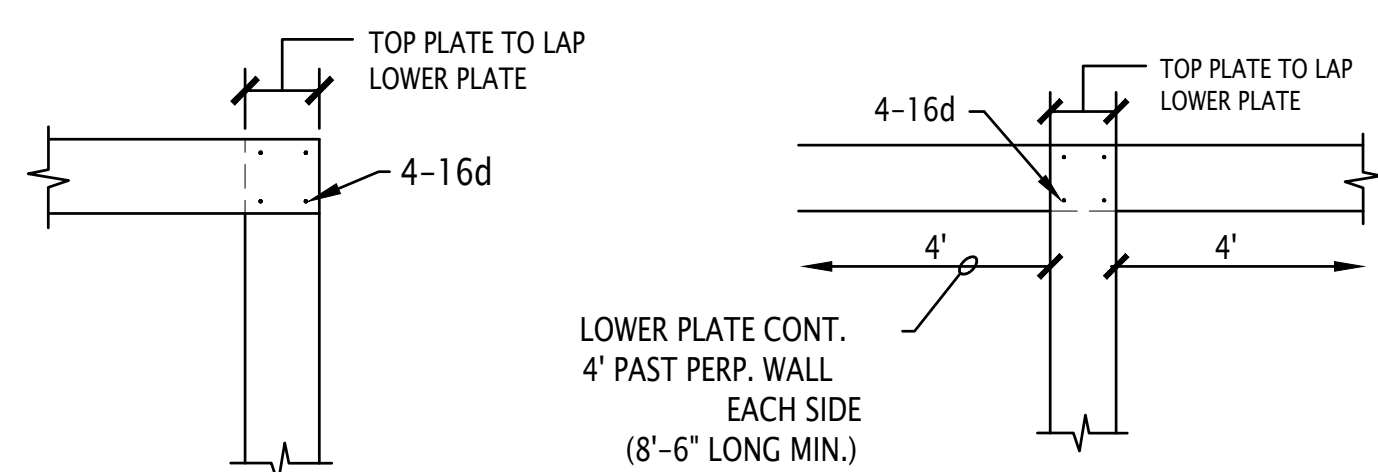


4 TYPICAL HIGH HEEL EAVE DETAIL



CHORD/DBL. T.P. LAP SPLICE

(TYPICAL THRU-OUT PLAN U.N.O. PER SCHEDULE)



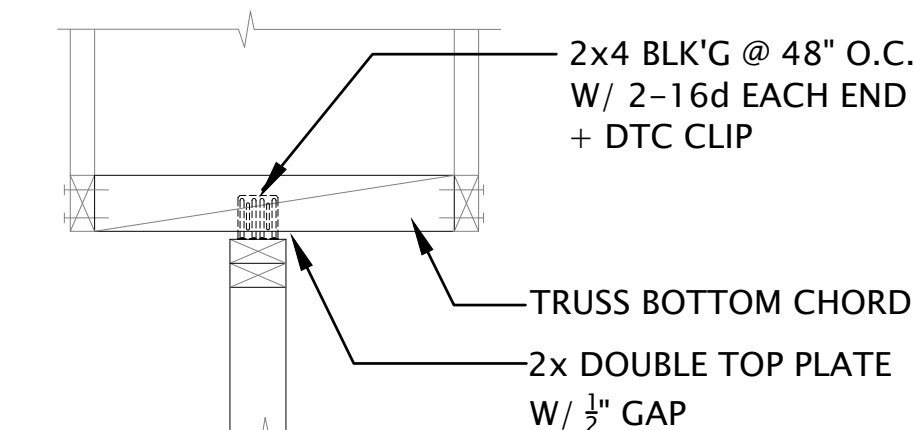
TYPICAL CORNER

TYPICAL INTERSECTION

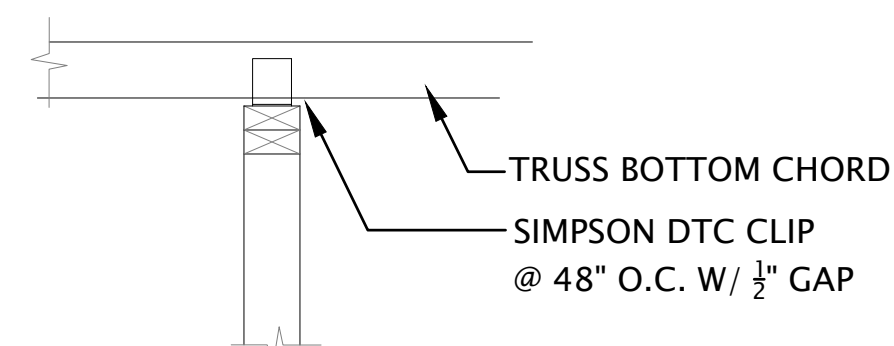
TOP PLATE TIES

NOTES:

- 1) INSTALL TRUSSES, WEB & LATERAL BRACING IN STRICT ACCORDANCE WITH THE TRUSS MANUFACTURER SPECIFICATIONS, INCLUDING ALL REQUIRED HANGERS.
- 2) ALL EXTERIOR HEADERS SHALL BE 6 X 12 DF #2 U.N.O. GARAGE HEADERS SHALL BE 6 X 12 DF #2 U.N.O.
- 3) ALL FASTENERS FOR THE ROOFING SHALL PENETRATE THROUGH THE ROOF SHEATHING.



NON-BEARING TOP OF WALL
WALL PARALLEL TO TRUSS



NON-BEARING TOP OF WALL
WALL PERPENDICULAR TO TRUSS

STRUCTURAL DETAILS
MEDIUM ACCESSORY DWELLING UNIT - (672 SQ FT ONE BEDROOM)

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3801 RED BLUFF
RED BLUFF, CA 96080
(530) 440-9260

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ANTONETTE CAROLAN MONTUCCI
C-35355
RENEWAL: 2/28/23
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08/22/2022

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