

SITE PLAN NOTES

PROJECTS LOCATED IN THE FLOOD HAZARD AREA SHALL HAVE A FINISHED FLOOR ELEVATION OF NOT LESS THAN 1" ABOVE THE 100 YEAR FLOOD LEVEL.

NO ON-SITE WATER RETENTION OR DRAINAGE ONTO ADJACENT PROPERTIES SHALL BE PERMITTED.

FINISHED FLOOR ELEVATION SHALL BE A MINIMUM OF 8" ABOVE FINISHED GRADE.

THE ENTIRE SITE SHALL HAVE A MINIMUM OF 0.5 PERCENT SLOPE FOR DRAINAGE. ALL WATER DRAINAGE SHALL BE TO THE STREET (OR OTHER APPROVED LOCATION).

PROVIDE A MINIMUM OF 6 INCHES OF SLOPE AWAY FROM ALL BUILDINGS FOR A DISTANCE OF AT LEAST TEN FEET. WHERE THIS REQUIREMENT CANNOT BE MET AN ALTERNATE METHOD SHALL BE REQUIRED THAT WILL PROVIDE ADEQUATE DRAINAGE. (CRC 401.3) ALTERNATE DRAINAGE SHALL BE DONE USING LANDSCAPE DRAINS WITH INLETS NOT TO EXCEED 15' INTERVALS.

IMPERVIOUS SURFACES WITHIN 10' OF THE BUILDING FOUNDATION SHALL SLOPE A MINIMUM OF 2% AWAY FROM BUILDING.

ANY GRADE DIFFERENTIALS GREATER THAN ONE FOOT SHALL BE DONE WITH AN APPROVED RETAINING WALL.

ALL PIPES IN TRENCHES REQUIRE MIN. 18" COVERAGE.

ANY HVAC EQUIPMENT LOCATED ON SITE SHALL NOT BE LOCATED WITHIN THE BUILDING SET-BACKS.

DRIVEWAYS TO RESIDENTIAL GARAGES SHALL HAVE A MAX SLOPE OF 12 PERCENT FOR A MIN. OF 20'-0" FROM THE GARAGE. NO PORTION OF THE DRIVEWAY SHALL EXCEED A GRADE OF 18 PERCENT.

BUILDING SITE SHALL BE CLEANED AND ALL VEGETATION, TREE ROOTS OR OTHER FOREIGN MATTER SHALL BE REMOVED TO A MINIMUM DEPTH OF 12".

ANY SURVEY MONUMENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE PRESERVED OR RESET BY A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR.

REPAIR ANY DAMAGED OFF-SITE CONCRETE IMPROVEMENTS AS DETERMINED BY THE CONSTRUCTION MANAGEMENT DIVISION PRIOR TO OCCUPANCY.

2 WORKING DAYS BEFORE COMMENCING EXCAVATION OPERATIONS WITHIN THE STREET RIGHT-OF-WAY AND/OR UTILITY EASEMENTS, ALL EXISTING UNDERGROUND FACILITIES SHALL HAVE BEEN LOCATED BY UNDERGROUND SERVICES ALERT (USA) CALL 1-800-642-2444

CONSTRUCT CONCRETE SIDEWALKS, CURBS, GUTTERS AND DRIVEWAY APPROACHES TO PUBLIC WORKS STANDARDS SPECIFICATIONS.

OVER EXCAVATE THE SITE AS NEEDED TO REMOVE DEBRIS, ORGANICS AND FILLS THAT MAY BE LEFT FROM A PREVIOUS DEMOLISHED HOME OR PLANT MATERIALS. REPLACE FILLS AS NECESSARY WITH 90% COMPACTION FOR ALL FILLS GREATER THAN 6 INCHES ABOVE THE EXISTING SURROUNDING GRADE. COMPACTION REPORT REQUIRED.

ALL EXTERIOR WALLS SHALL NOT BE LESS THAN 5 FEET FROM THE PROPERTY LINES



COTTAGE HOME - PLAN # 2
CITY OF CHOWCHILLA, CALIFORNIA

GENERAL NOTES

CONSTRUCTION SHALL COMPLY WITH THE 2019 CALIFORNIA RESIDENTIAL (CRC), MECHANICAL (CMC), PLUMBING (CPO) AND ELECTRICAL (CEC) CODES, AND THE 2019 CALIFORNIA ENERGY CODE AS AMENDED BY LOCAL ORDINANCES.

PLANS SHALL NOT BE SCALED. ALL WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN IN THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER.

DISCREPANCIES OR ERRORS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER FOR CORRECTION BEFORE THE WORK AFFECTED THEREBY IS BIDDED OR EXECUTED. ALL WORK SHALL COMPLY IN EVERY RESPECT WITH CURRENT GOVERNING LAW, CALIFORNIA BUILDING CODE AND ALL APPLICABLE ORDINANCES.

PROPERTY OWNER SHALL BE RESPONSIBLE FOR LOCATING, VERIFYING AND STAKING OUT ALL DIMENSIONS, GRADES AND OTHER CONDITIONS AT JOB SITE PRIOR TO THE START OF ANY WORK. ACCEPTANCE OR APPROVAL BY THE DESIGNER SHALL NOT CONSTITUTE RELIEF OF THE PROPERTY OWNER'S RESPONSIBILITY OF ACCURACY.

IT IS THE RESPONSIBILITY OF THE PROPERTY OWNERS TO VERIFY ALL FIELD MEASUREMENTS AND CONDITIONS FOR THE CONFORMANCE OF THESE PLANS. SHOULD THERE BE ANY ERRORS, OMISSIONS AND/OR DISCREPANCIES IN THE PLANS, THEY SHOULD BE BROUGHT TO THE ATTENTION OF THE DESIGNER OR PROJECT ENGINEER FOR CORRECTION AND/OR CLARIFICATION. THE PROPERTY OWNER AND DESIGNER OR PROJECT ENGINEER SHALL RESOLVE ANY ERRORS, OMISSIONS AND/OR DISCREPANCIES PRIOR TO COMMENCING WITH THAT PORTION OF THE WORK AFFECTED. ANY CHANGES MADE TO THE PLANS SHALL REQUIRE THE APPROVAL OF THE OWNER, DESIGNER AND/OR THE PROJECT ENGINEER.

PROPERTY OWNERS SHALL OBTAIN AND PAY FOR ANY PERMITS, NOTICES, INSPECTIONS OR TESTS THAT ARE REQUIRED FOR THEIR PARTICULAR WORK. EACH SUB-CONTRACTOR SHALL VISIT THE SUBJECT PROPERTY AND INSPECT THE PREMISES AND SHALL VERIFY THE WORK TO BE DONE, THE EXISTING CONDITIONS AND SHALL NOTIFY THE PROPERTY OWNER OF ANY AND ALL DISCREPANCIES PRIOR TO SUBMITTING A BID AND/OR STARTING ANY WORK.

ALL MATERIALS, EQUIPMENT AND SYSTEMS SPECIFIED IN THE PLANS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S LATEST SPECIFICATIONS.

PROVIDE STREET ADDRESS NUMERALS AT LEAST FOUR INCHES HIGH WITH A 1/2" STROKE MOUNTED ON A CONTRASTING BACKGROUND AND LOCATED ON THE BUILDING AS TO BE CLEARLY VISIBLE FROM THE ALLEY PRIOR TO CALLING FOR THE FIRST INSPECTION. ALL REQUIRED ADDRESS SIGNS SHALL COMPLY WITH CITY ORDINANCES.

CONCRETE COMPRESSION STRENGTH SHALL BE 2500 PSI MINIMUM IN 28 DAYS.

ALL REINFORCING STEEL SHALL BE INTERMEDIATE GRADE, DEFORMED BARS CONFORMING TO A.S.T.M. GRADE 40 (U.N.O.)

ALL LUMBER SHALL BE GRADE MARKED, DF STD. OR BETTER MIN. EXCEPT AS NOTED ON PLANS. ALL POSTS SHALL BE D.F. #2, PLYWOOD SHALL BE DOUGLAS FIR CONFORMING TO PSI-74 U.S. DEPT. OF COMMERCE, AND SHALL BE GRADE STAMPED D.F.P.A.

ALL NAILING SHALL BE IN COMPLIANCE WITH C.R.C TABLE R602.3(1) AND R602.3(2).

"REGISTERED" COPIES OF THE CF-3R AND CF-2R FORMS SHALL BE SUBMITTED PRIOR TO FINAL INSPECTION, SIGNED BY CERTIFIED INSTALLER FOR THE CF-3R FORM AND THE HERS RATER FOR FIELD VERIFICATION AND DIAGNOSTIC TESTING ON THE CF-2R FORM.

WHEN FIELD VERIFICATION IS NEEDED TO SHOW COMPLIANCE, A HER'S CERTIFICATE SHALL BE PROVIDED BEFORE THE BUILDING DEPARTMENT WILL APPROVE THE FINAL INSPECTION.

COVER SHEET NOTES

THESE PLANS AND RELATED DOCUMENTS MUST BE AVAILABLE AT THE JOB SITE DURING ANY INSPECTION ACTIVITY.

CHANGES FROM THE APPROVED PLANS DURING THE COURSE OF CONSTRUCTION SHALL CAUSE CONSTRUCTION TO BE SUSPENDED UNTIL SUCH TIME AS THE PLANS CAN BE AMENDED BY THE DESIGNER AND SUBMITTED TO THE BUILDING DEPARTMENT FOR REVIEW AND APPROVAL.

SPECIAL NOTES

A SUB-CONTRACTORS LIST IS REQUIRED FOR OWNER/BUILDER PROJECTS AND SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT UPON APPLYING FOR A PERMIT.

A COMPACTION REPORT IS REQUIRED, AS AN OPTION, THE PROPERTY OWNER MAY PROVIDE A SOILS REPORT FOR THIS PROJECT FROM A LICENSED PROFESSIONAL.

PROVIDE A "WILL SERVE" LETTER FROM AN APPROVED CONSTRUCTION DEBRIS RECYCLING/WASTE HAULER FOR THIS PROJECT. THIS LETTER IS TO BE PROVIDED BY & SIGNED BY THE WASTE/RECYCLING HAULER PRIOR TO THE ISSUANCE OF ANY PERMIT. (2019 CAL. GREEN CODE 4.408)

IF FIRE SPRINKLERS ARE REQUIRED, OBTAIN FIRE SPRINKLER FINAL INSPECTION APPROVAL PRIOR TO BUILDING FINAL INSPECTION.

THIS PROJECT DOES NOT INCLUDE LANDSCAPING, BUT IT IS UNDERSTOOD THAT PRIOR TO LANDSCAPING BEING INSTALLED IT SHALL COMPLY WITH THE MODEL WATER-EFFICIENT LANDSCAPE ORDINANCE (MELO) REQUIREMENTS OF TITLE 23 OF THE CALIFORNIA CODE OF REGULATIONS, DIVISION 2, CHAPTER 2.1 WHICH WILL REQUIRE PLANS, PERMITS AND INSPECTIONS.

ONE UNCOVERED PARKING SPACE MUST BE PROVIDED ON SITE, AND SHALL BE SHOWN ON THE PLOT PLAN FORM AT THE TIME OF PERMITS.

A CERTIFICATE OF ELEVATION IS TO BE PROVIDED ON ALL LOTS LOCATED IN A FLOOD ZONE. TWO ELEVATION CERTIFICATES ARE REQUIRED TO BE PROVIDED TO THE INSPECTOR, THE FIRST IS REQUIRED AT THE FOUNDATION INSPECTION AND THE SECOND IS REQUIRED AT THE BUILDING FINAL INSPECTION.

ALL OWNER/BUILDER PROJECTS REQUIRE A COMPLETED SUB-CONTRACTORS LIST PRIOR TO THE ISSUANCE OF THE BUILDING PERMIT.

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PROJECT DATA

STANDARD PLAN # CHOWCHILLA #2

PROPERTY ADDRESS

ZONE DISTRICT: RI

OCCUPANCY GROUP: R-3/U

TYPE OF CONSTRUCTION: VB

NO. OF STORIES: 1

ENERGY METHOD ENERGYPRO V 8.3

CODE EDITIONS: 2019 CRC, CEC, CMC, CPC, CFC
2019 CAL. ENERGY CODE
2019 CAL. GREEN CODE

CONSULTANTS

OWNER: CITY OF CHOWCHILLA
130 S. 2nd STREET
CHOWCHILLA, CA 93610
(559) 665-8615

DESIGNER: CWB DESIGNS
491 HERNDON AVE. #2245
CLOVIS, CA 93612
(559) 294-6534

STRUCTURAL ENGINEER: ENGINEERING DESIGNS
5155 N. FIRST ST.
FRESNO, CA 93710
(559) 225-2525

TRUSS MANUFACTURER: CENTRAL VALLEY TRUSS CO.
10715 E. AMERICAN AVE.
DEL RAY, CA 93616
(559) 888-2160

ENERGY CONSULTANT: ENERCAL SOLUTIONS
244 S. OLYMPIC ST.
KERNAN, CA 93630
(559) 696-7922

ENGINEER'S SEAL AND SIGNATURE ON PLANS ARE LIMITED TO THE ITEMS ON THE PLANS ADDRESSED IN THE STRUCTURAL CALCULATIONS ONLY. NO OTHER APPROVAL, LIABILITY OR CONSENT FOR ANY OTHER ASPECT OR PHASE OF THIS STRUCTURE IS IMPLIED OR EXPRESSED.

HASAN A. MOHAMMAD
REGISTERED PROFESSIONAL ENGINEER
No. 45997
CIVIL
STATE OF CALIFORNIA
7/8/22

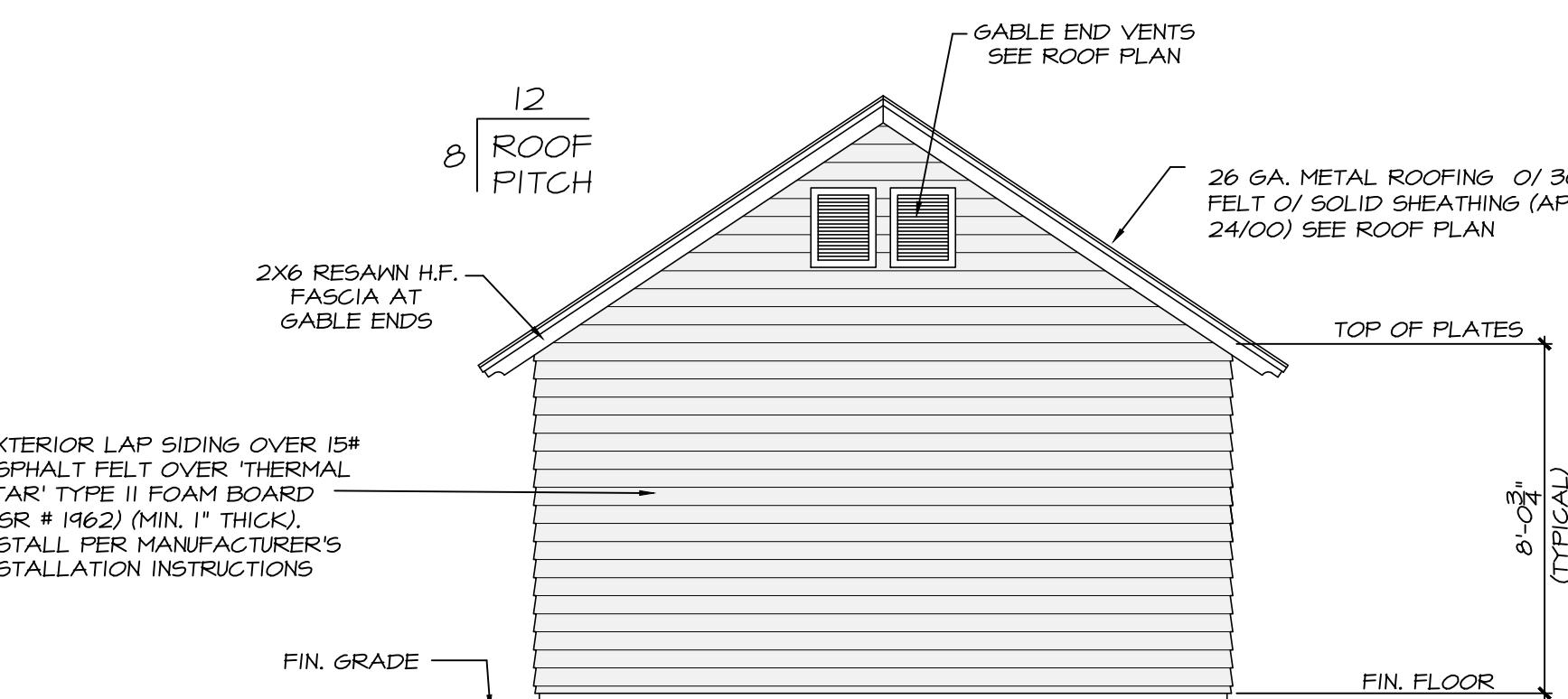
ELEVATION NOTES

ALL SIDING SHALL BE APPLIED OVER A WEATHER RESISTIVE BARRIER (TYPE 'D' BUILDING PAPER) PER CRC R103.2.

TWO LAYERS TYPE 'D' BUILDING PAPER UNDERLayment IS REQUIRED WHERE LATH IS TO BE APPLIED OVER WOOD SHEATHING CRC R103.6.3

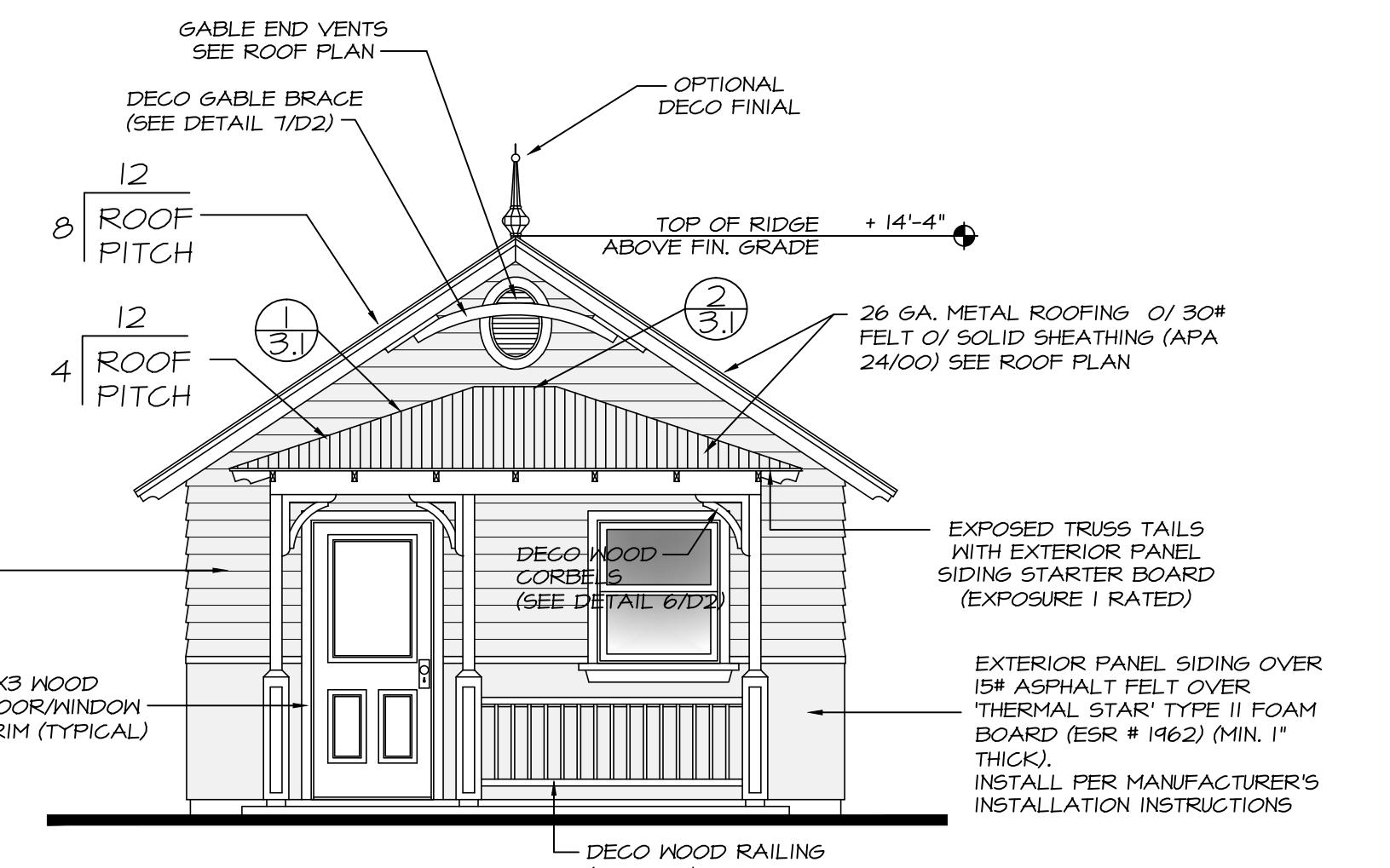
ALL DECORATIVE CORBELS, BRACES AND BRACKETS MAY BE CONSTRUCTED IN FIELD PER DETAILS PROVIDED, OR OWNER MAY PURCHASE PRE-ASSEMBLED PIECES, PROVIDED THEY MATCH AS CLOSELY AS POSSIBLE TO THE PIECES SHOWN IN THE DRAWINGS AND ARE APPLIED AS PER THE PRODUCTS INSTALLATION INSTRUCTIONS.

'THERMAL STAR' TYPE II FOAM BOARD INSTALLED AT A THICKNESS OF 1" PROVIDES R-4 THERMAL RESISTANCE PER ESR # 1962



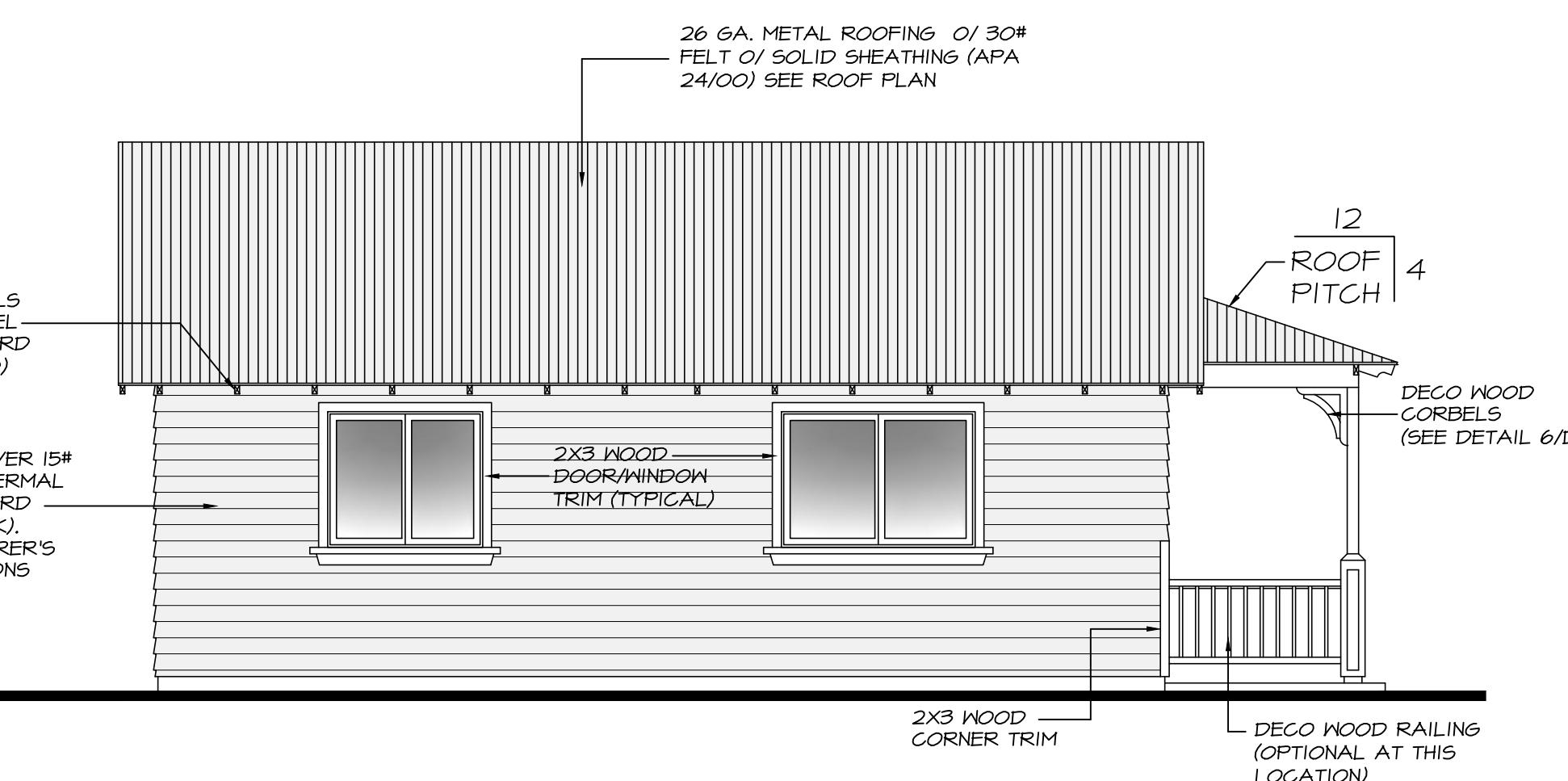
REAR ELEVATION - A

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



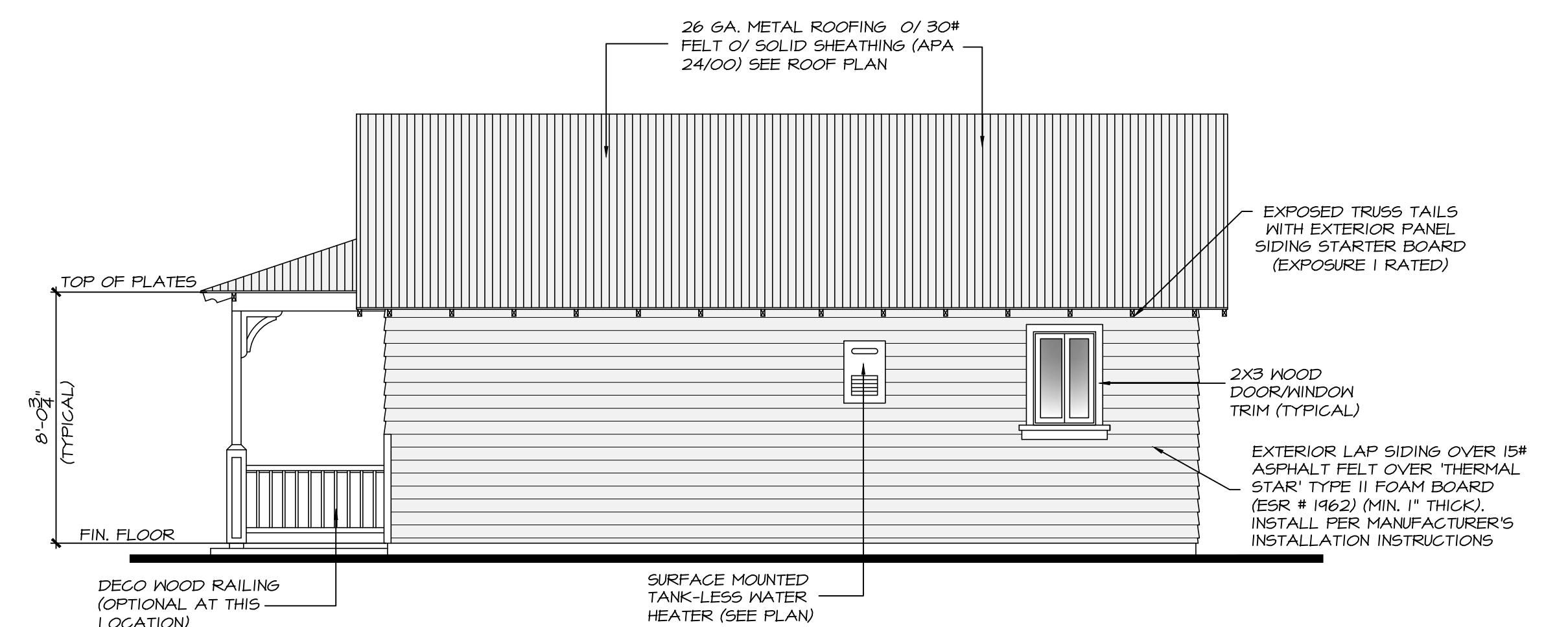
FRONT ELEVATION - A

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



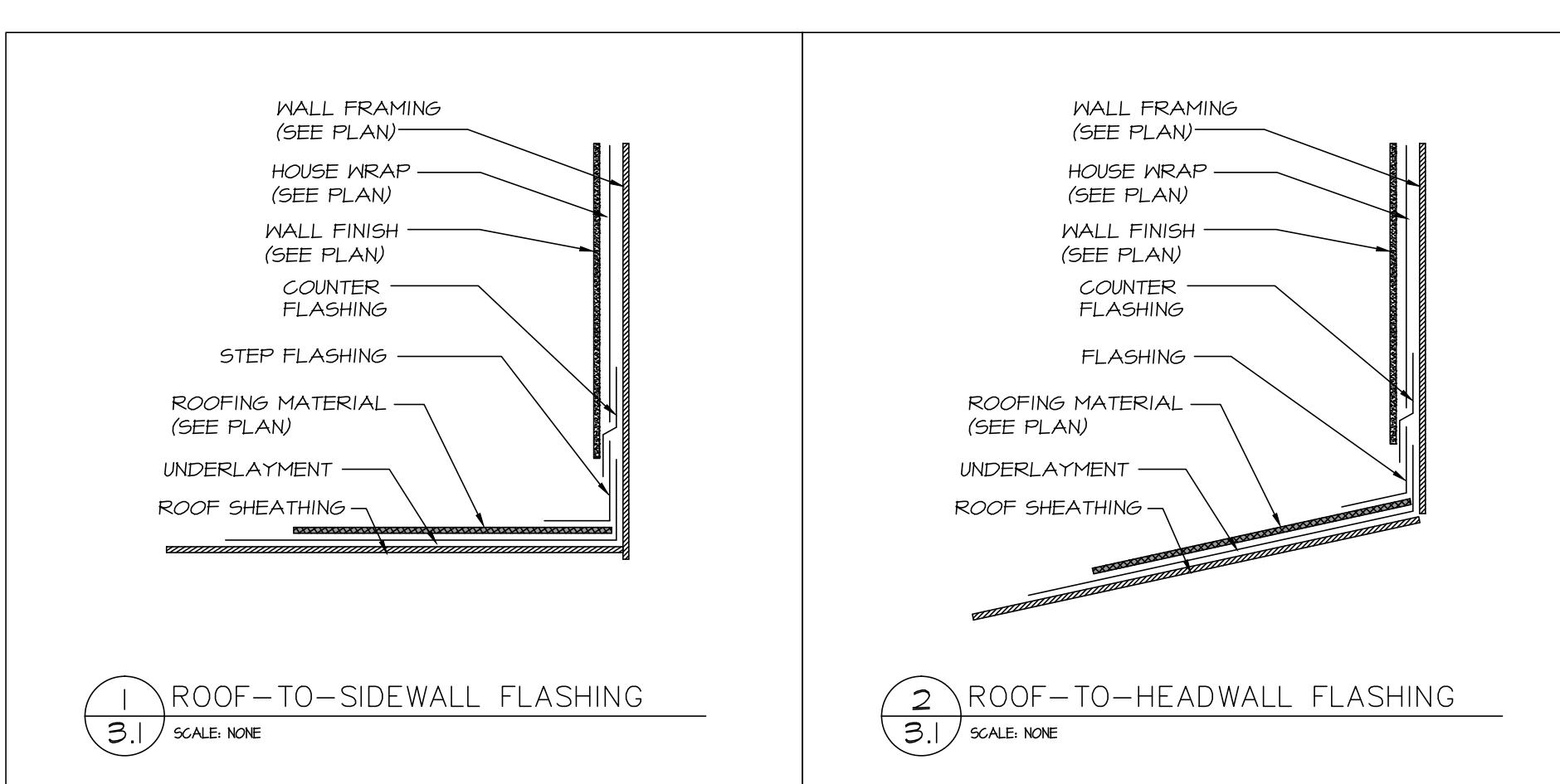
LEFT ELEVATION - A

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



RIGHT ELEVATION - A

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



STANDARD PLAN #2 FOR:

CITY OF CHOWCHILLA

130 S 2ND STREET
CHOWCHILLA, CA 93610

PHONE: 559-665-8615

DATE: 06-17-2022

CWB DESIGNS

3838 N. CHICKADEE AVE.
SANGER, CA 93657

PHONE: 559.294.6534

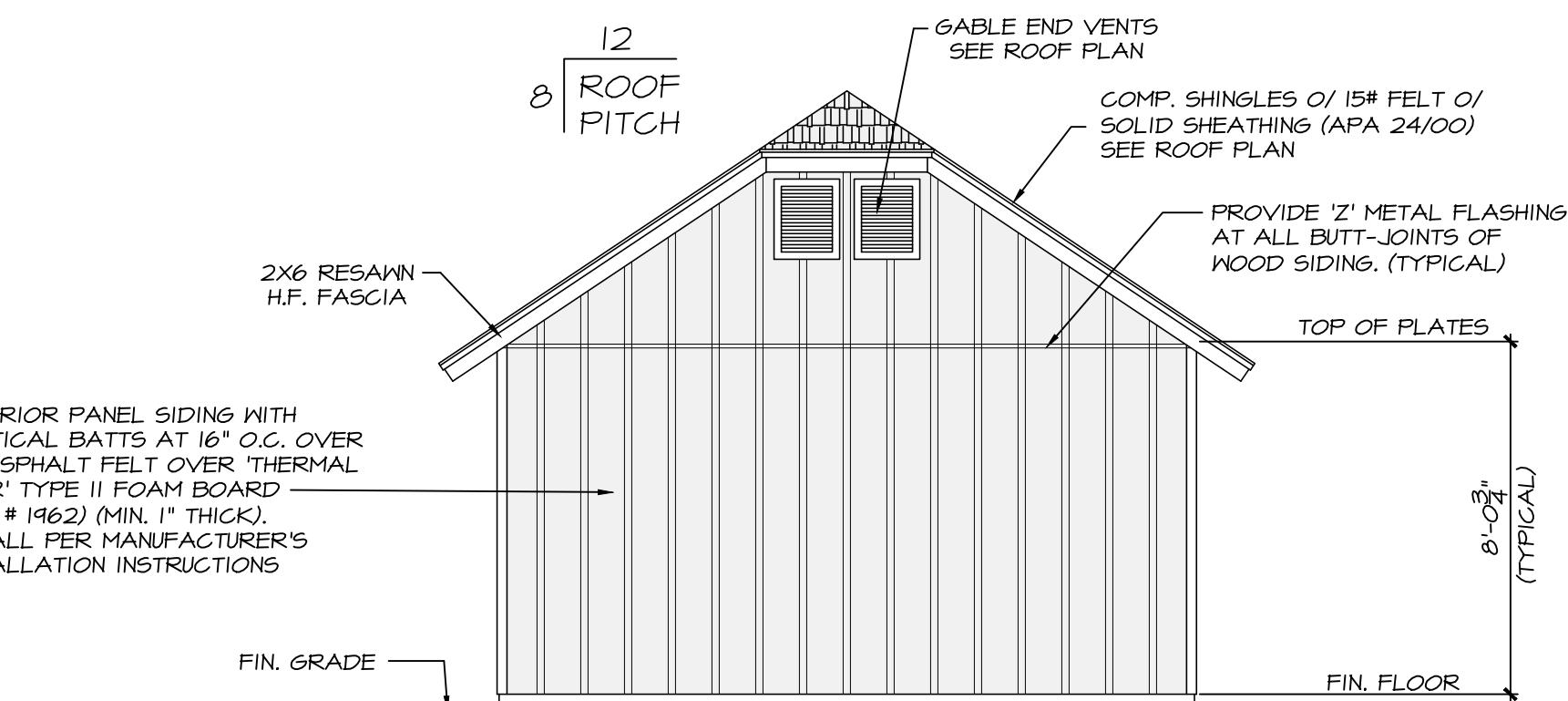
ELEVATION NOTES

ALL SIDING SHALL BE APPLIED OVER A WEATHER RESISTIVE BARRIER (TYPE 'D' BUILDING PAPER) PER CRC R703.2.

TWO LAYERS TYPE 'D' BUILDING PAPER UNDERLayment IS REQUIRED WHERE LATH IS TO BE APPLIED OVER WOOD SHEATHING CRC R703.3

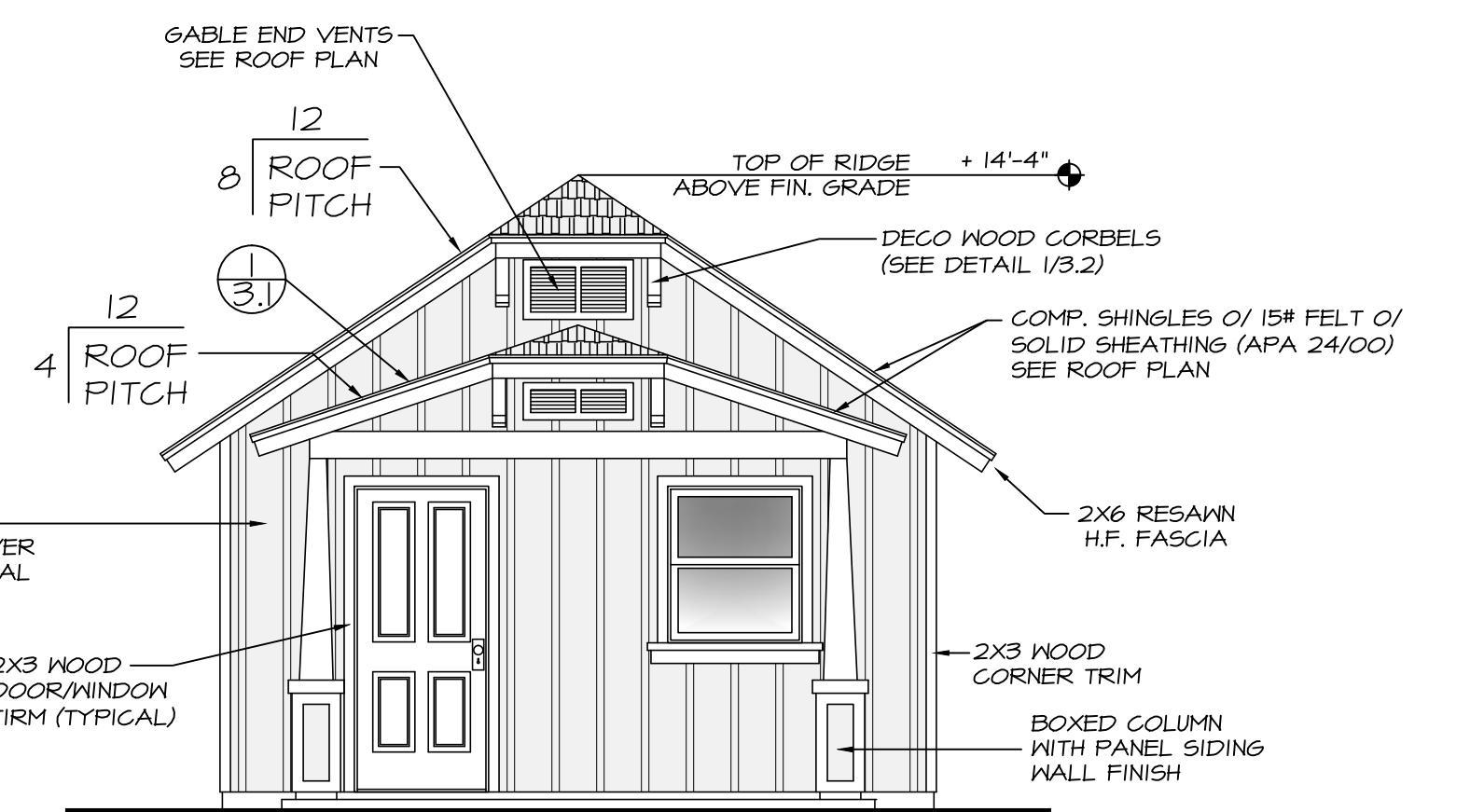
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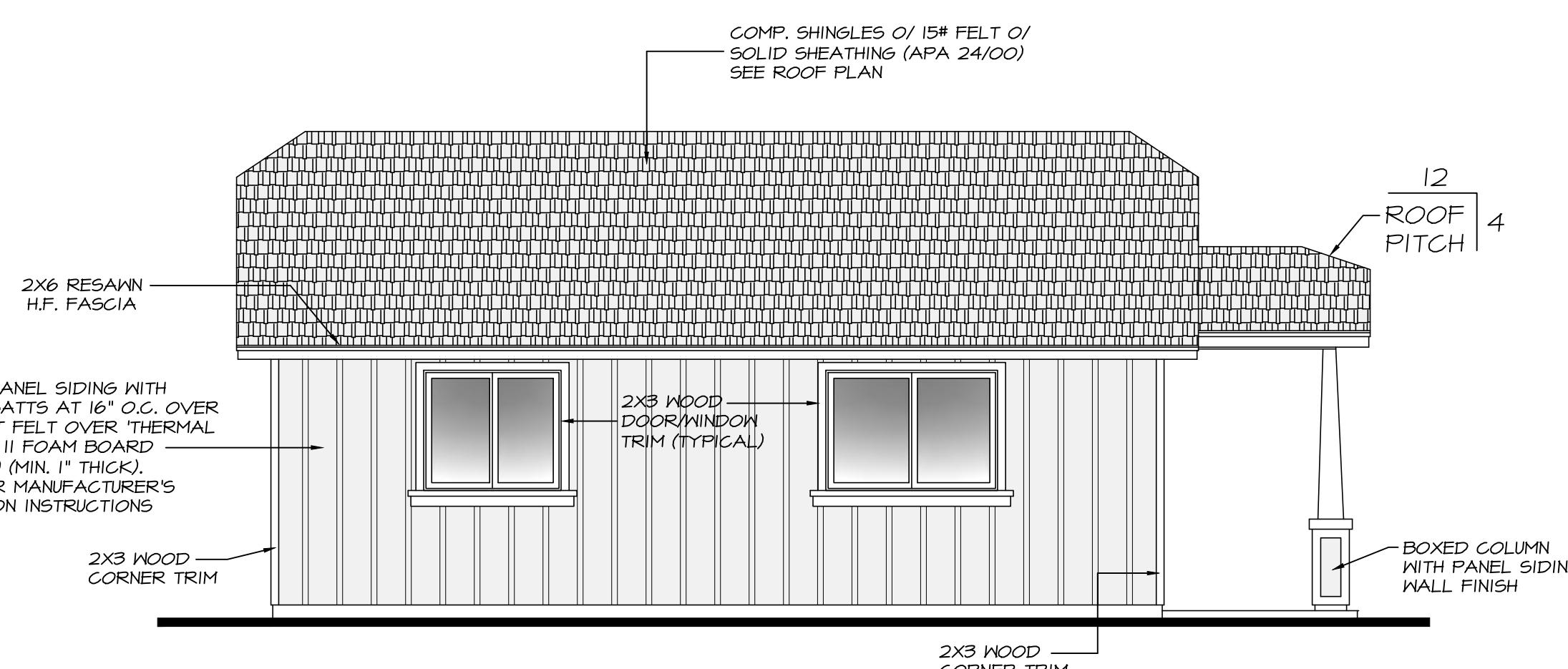
REAR ELEVATION - B

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



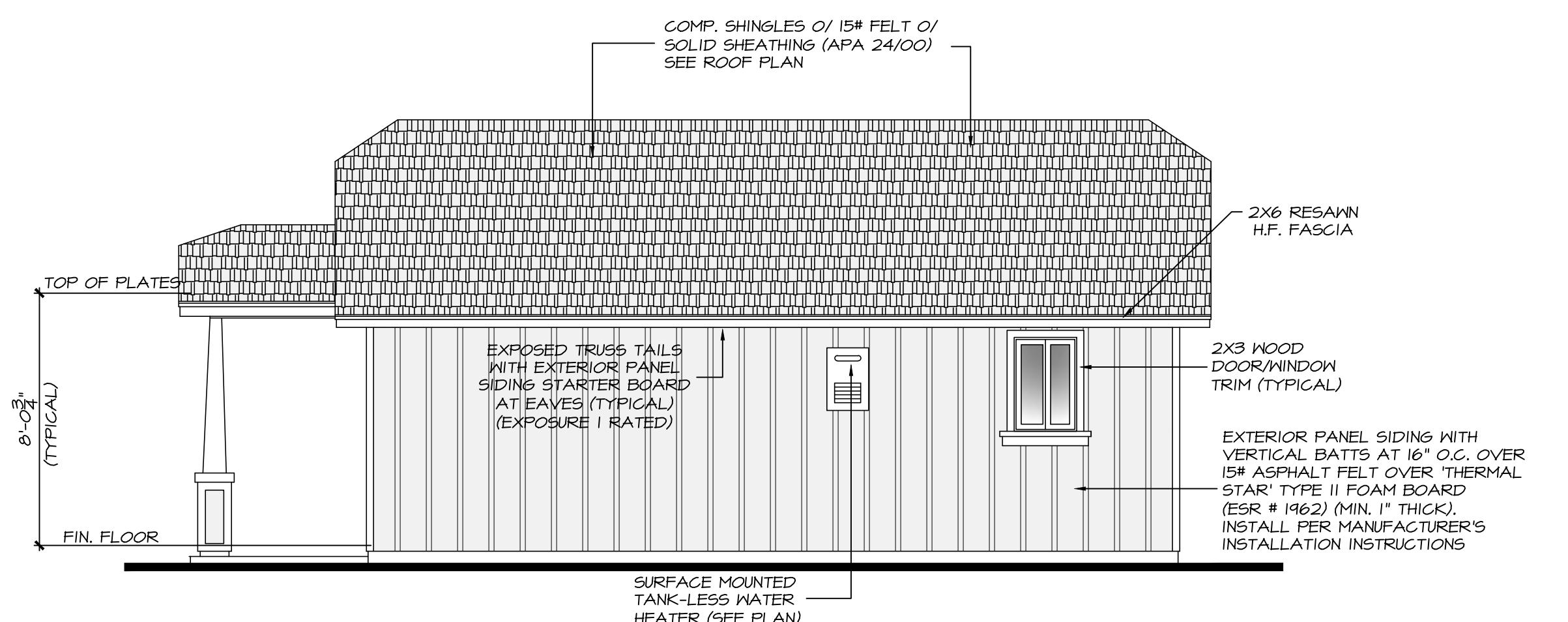
FRONT ELEVATION - B

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



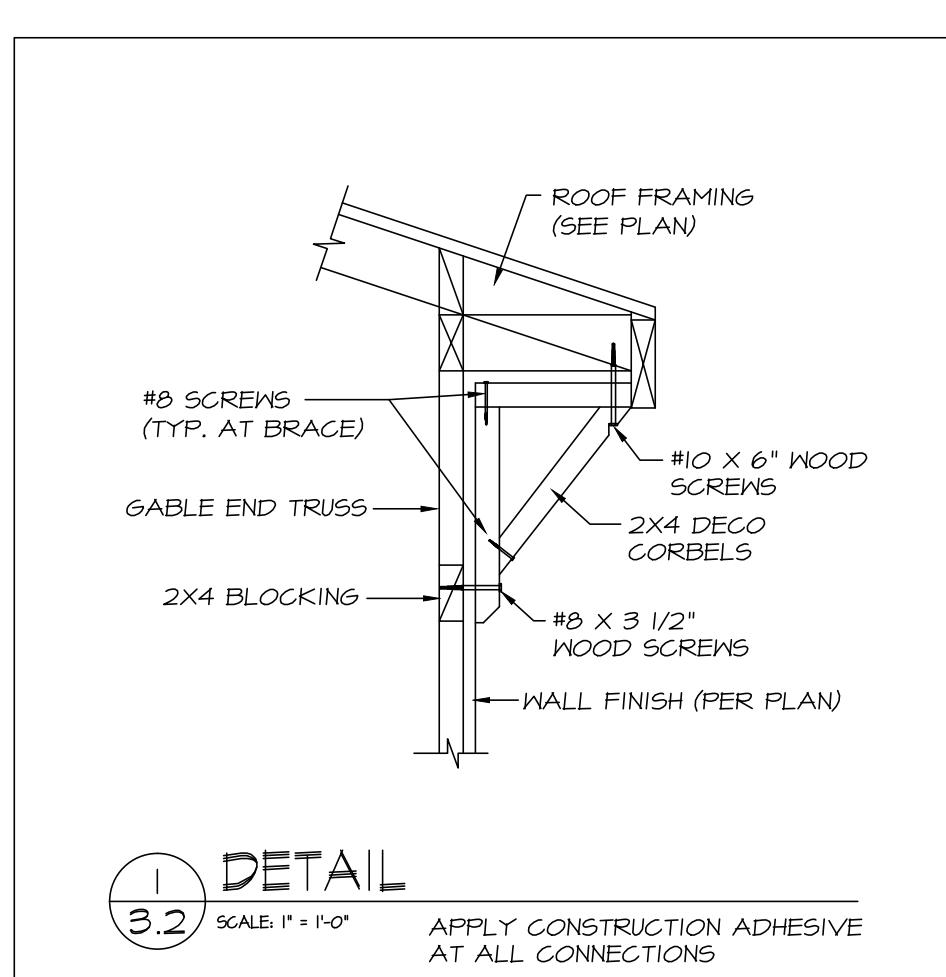
LEFT ELEVATION - B

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



RIGHT ELEVATION - B

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



DETAIL
3.2

SCALE: 1" = 1'-0"

STANDARD PLAN #2 FOR:
CITY OF CHOWCHILLA
130 S 2ND STREET
CHOWCHILLA, CA 93610
PHONE: 559-665-8615

3.2
ELEVATION - B
OF 19

DATE: 06-17-2022

CWB DESIGNS
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SANGER, CA 93657
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REVISIONS
REV. DATE
NEW 05-19-22
ENG 6-15-22
SUB 06-17-22

DRAWING FILE
PLANS 2.A3B

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ELEVATION NOTES

ALL LATH AND PLASTER SHALL COMPLY WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SHALL BE PROVIDED WITH WEPP SCREEDS PER CRC 703.6.2.1

ALL STUCCO LATH SHALL BE APPLIED OVER A WEATHER RESISTIVE BARRIER (TYPE 'D' BUILDING PAPER) PER CRC R703.2.

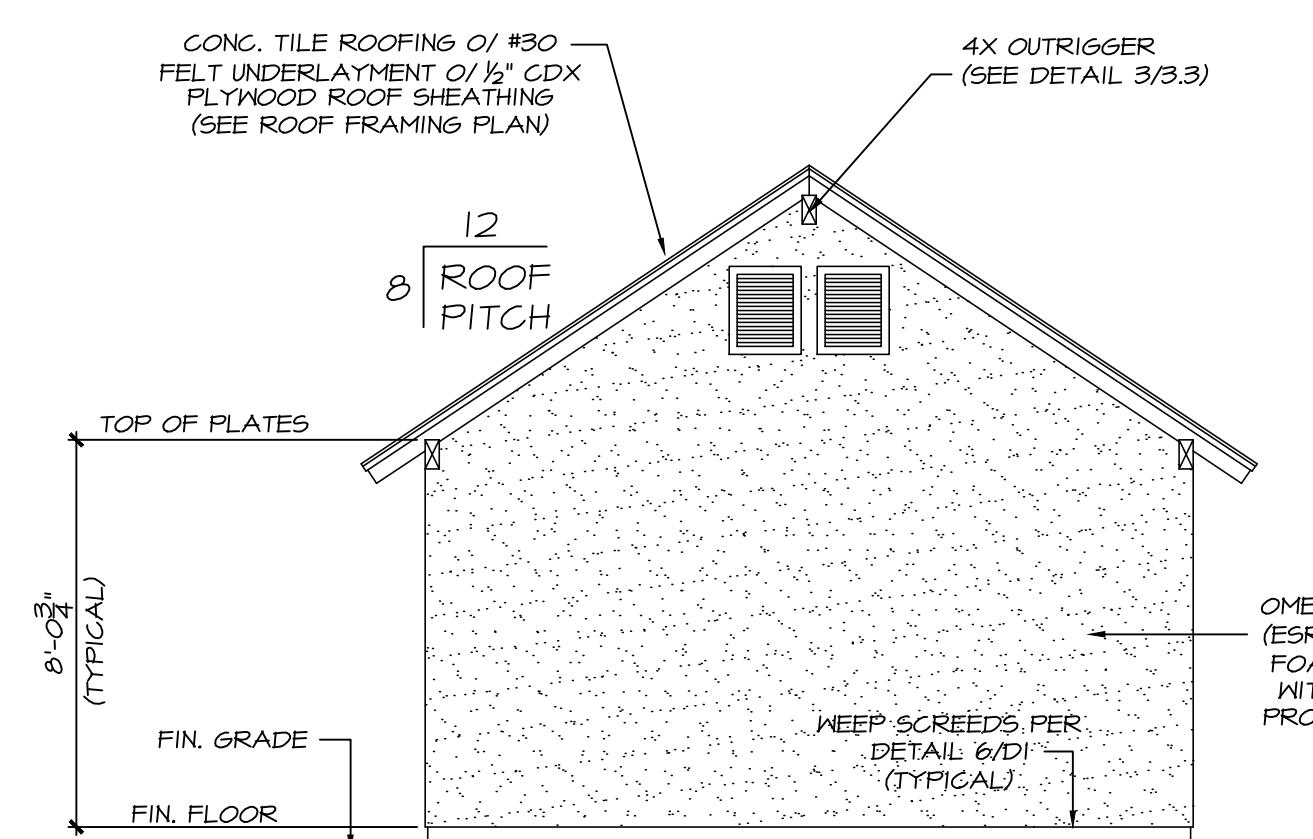
TWO LAYERS TYPE 'D' BUILDING PAPER UNDERLAYMENT IS REQUIRED WHERE LATH IS TO BE APPLIED OVER WOOD SHEATHING CRC R703.6.3

PER ICC REPORT ESR #1194, A SPECIAL INSPECTION IS REQUIRED FOR STUCCO;
 1. LATH INSTALLATION, PRIOR TO COATING APPLICATION
 2. FIELD BATCHING AND MIXING OF COMPONENTS.

ALL TILE ROOFING MUST HAVE AN ICC REPORT NUMBER. A COPY OF THE REPORT SHALL BE ON SITE DURING ROOFING INSPECTION.

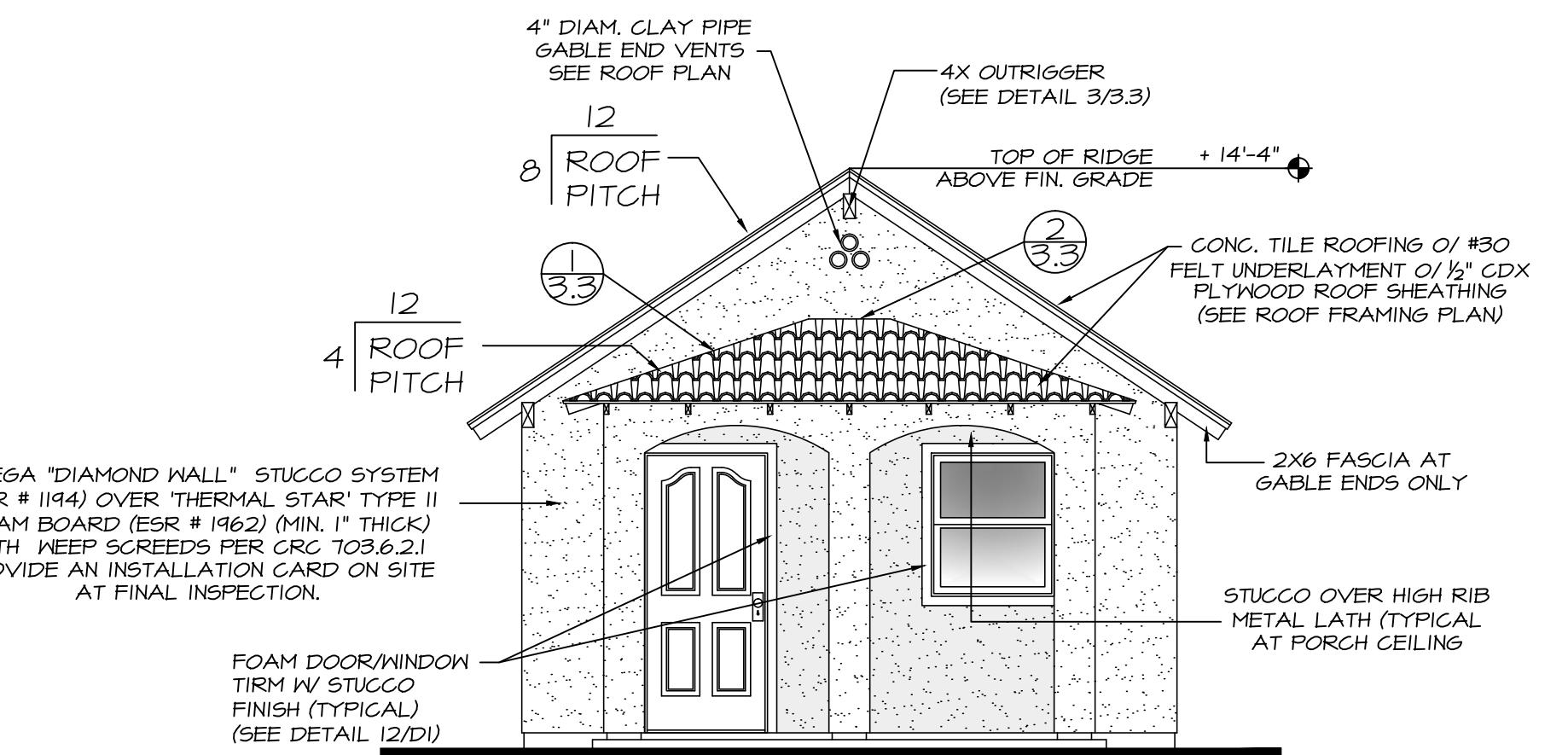
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'THERMAL STAR' TYPE II FOAM BOARD INSTALLED AT A THICKNESS OF 1" PROVIDES R-4 THERMAL RESISTANCE PER ESR # 1962



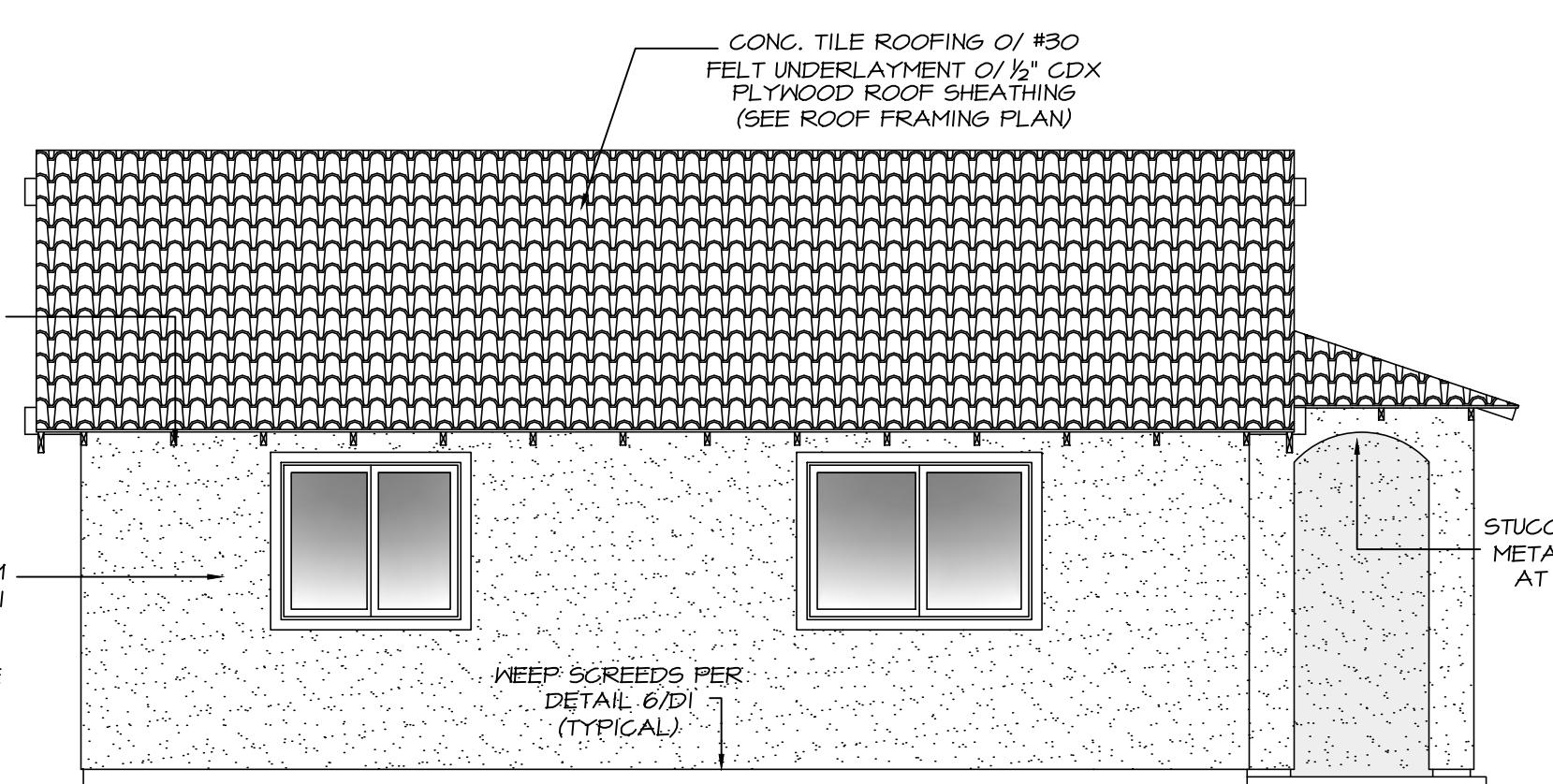
REAR ELEVATION - C

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



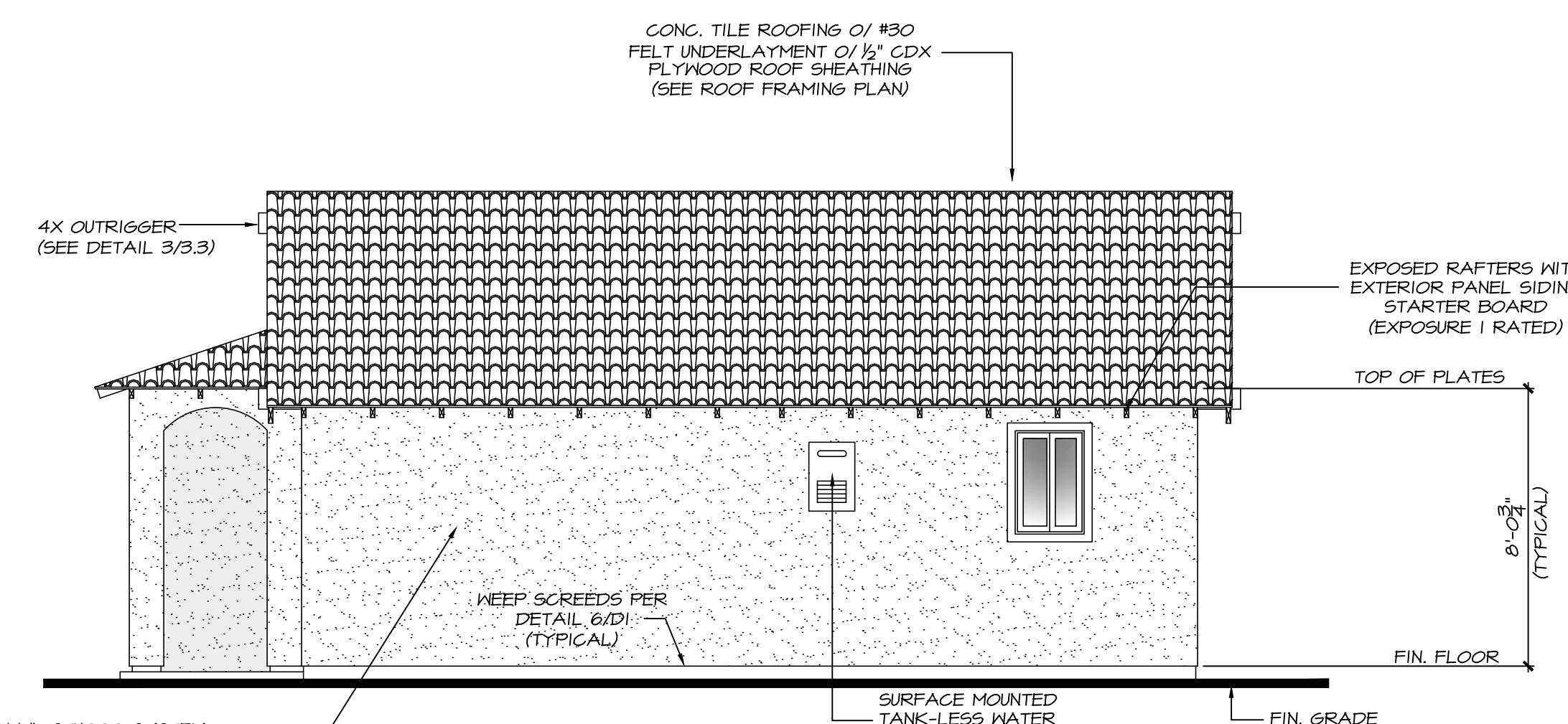
FRONT ELEVATION - C

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



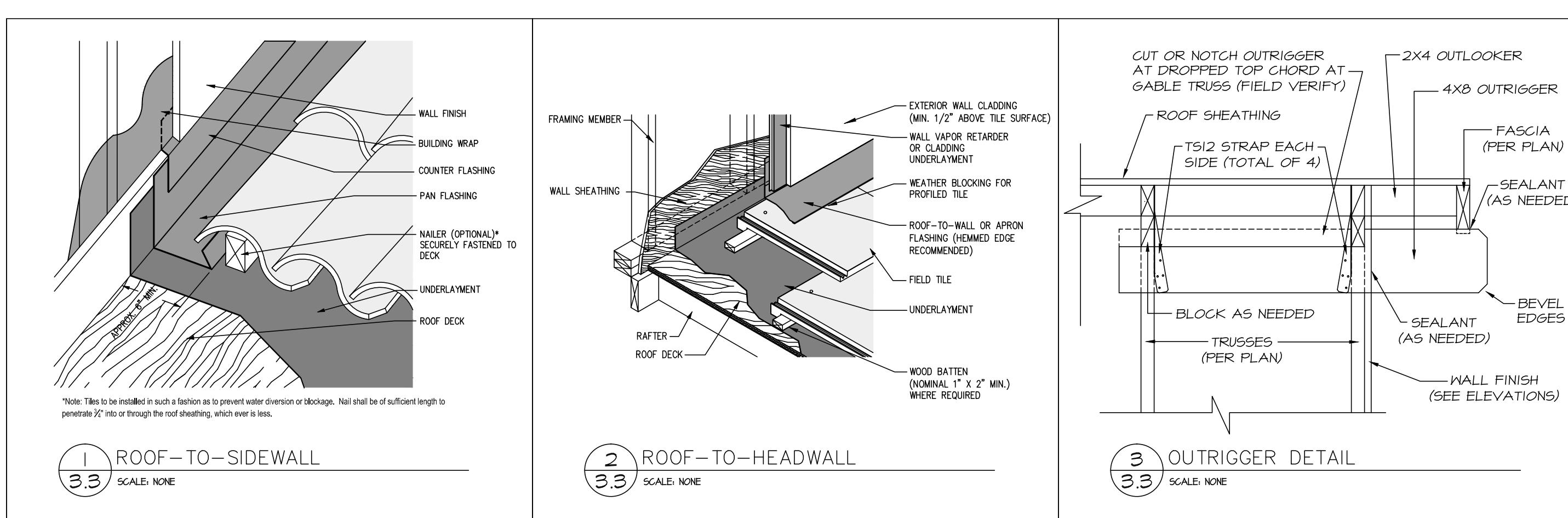
LEFT ELEVATION - C

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



RIGHT ELEVATION - C

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



DATE: 06-17-2022
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STANDARD PLAN #2 FOR:
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3.3 ELEVATION - C
3.3 OF 19

REVISIONS
 REV. DATE
 NEW 6/17/22
 ENG 6/17/22
 SUB 6/17/22

DRAWING FILE
 PLANS 2/A3C

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[Signature]

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SHEET
S1
OF 19 FOUNDATION

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EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

CWB

FOUNDATION NOTES:

PRIOR TO CALLING FOR A BUILDING DIVISION FOUNDATION INSPECTION, PRELIMINARY GRADING AND COMPACTION REPORTS SHALL BE SUBMITTED TO AND APPROVED BY THE BUILDING DIVISION GRADING INSPECTOR.

LOCATE AND EXPOSE ALL PROPERTY CORNERS AND STRING SIDE YARD PROPERTY LINES PRIOR TO THE FOUNDATION INSPECTION.

THE MAXIMUM ALLOWABLE SOIL BEARING CAPACITY IS 1500 LBS. PER S.F.

CONCRETE SHALL HAVE AN ULTIMATE COMPRESSION STRENGTH OF 2500 P.S.I. IN 28 DAYS.

THE CONCRETE SLABS SHALL HAVE A MINIMUM THICKNESS OF 3 1/2" APPLIED OVER 2" OF SAND (ASTM-C33) OVER MIN. 10 MIL. VAPOR BARRIER AND SHALL BE PLACED OVER COMPACTED SUB-GRADE OR ENGINEERED FILL.

THE SOILS REPORT (IF REQUIRED) SHALL BE REVIEWED BY THE CONTRACTOR FOR SPECIAL REQUIREMENTS AND RECOMMENDATIONS PRIOR TO START OF FOUNDATION WORK. PROVIDE A COPY OF THE SOILS REPORT ON SITE FOR INSPECTION PURPOSES.

SLABS AND FOOTING SHALL BE Poured MONOLITHICALLY. IF 2-POUR SYSTEM IS TO BE USED, AUTHORIZATION FROM ENGINEER IS REQUIRED PRIOR TO WORK STARTED.

ALL HOLDOWNS, SPECIAL ANCHOR BOLTING REQUIREMENTS AND STRAPS THAT ARE APPLICABLE TO THE BUILDING MUST BE SECURELY IN PLACE AT TIME OF FOUNDATION INSPECTION.

VERIFY THE LOCATION OF ALL HOLDOWNS WITH THE FRAMING CONTRACTOR.

FOUNDATION CONTRACTOR SHALL VERIFY AND PROVIDE CONTROL JOINTS TO CONTROL CRACKING.

PROVIDE (1) #4 REBAR TOP AND BOTTOM IN ALL FOOTINGS.

UNLESS NOTED OTHERWISE FOR SHEAR WALLS, ALL EXTERIOR WALLS SHALL HAVE 1/2" DIAMETER X 10" LONG ANCHOR BOLTS INSTALLED AT 72" O.C. WITH MIN. 7" EMBEDMENT. PROVIDE MIN. 2 AB. FOR WALL AND NOT MORE THAN 12' FROM END OR SPLICES IN BOTTOM PLATES. 14" LONG ANCHOR BOLTS ARE REQUIRED AT THE GARAGE STEM WALLS.

ALL ANCHOR BOLTS ARE REQUIRED TO BE INSTALLED IN THE MIDDLE 1/3 OF THE PLATE.

PROVIDE A 3" X 3" X 0.224" STEEL PLATE WASHER AT ALL ANCHOR BOLTS. (CRC R602.1.1)

STANDARD CUT WASHER SHALL BE PLACED BETWEEN THE PLATE WASHER AND THE NUT. WASHERS SHALL EXTEND TO WITHIN 1/8" OF THE EDGE OF THE BOTTOM PLATE ON THE SIDE WITH WALL SHEATHING. (SDPMS-08 SECTION 4.3.6.4.3)

POWDER DRIVEN FASTENERS SHALL NOT BE LOCATED IN STEM WALLS LESS THAN 5 1/2" WIDE OR GREATER THAN 5 1/2" HIGH.

FASTENERS AT INTERIOR NON-LOAD BEARING WALLS SHALL BE RAMSET #334B AT 48" O.C. (ESI 1749). FOR SHEAR WALLS USE AB. PER FOUND. PLAN.

THE FASTENERS EMBEDDED IN CONCRETE SHALL BE ATTACHED TO, OR HOOKED AROUND, REINFORCING STEEL OR OTHERWISE TERMINATE TO EFFECTIVELY TRANSFER FORCES TO THE REINFORCING STEEL.

FASTENERS IN PRESERVATIVE-TREATED WOOD (ANCHOR BOLTS, NAILS, SCREWS, ETC. (EXCLUDING INTERIOR WALLS) SHALL BE APPROVED SILICON BRONZE OR COPPER, STAINLESS STEEL OR HOT DIPPED ZINC-COATED STEEL. ALTERNATE MATERIALS AND METHODS MUST BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE.

WOOD FRAMING MEMBERS, INCLUDING WOOD SHEATHING, THAT REST ON EXTERIOR FOUNDATION WALLS AND ARE LESS THAN 8' FROM EXPOSED EARTH SHALL BE OF NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD.

SURFACE WATER WILL BE DRAINED AWAY FROM THE BUILDING FOR AT LEAST THE FIRST 10' WITH A MINIMUM GRADE OF 6%. WHERE THIS REQUIREMENT CANNOT BE MET BECAUSE THE DISTANCE BETWEEN THE STRUCTURE AND THE PROPERTY LINE IS LESS THAN 10', PROVIDE LANDSCAPE DRAINS & INLETS NOT TO EXCEED 15' AT SIDE YARDS. -2019 CRC R401.3

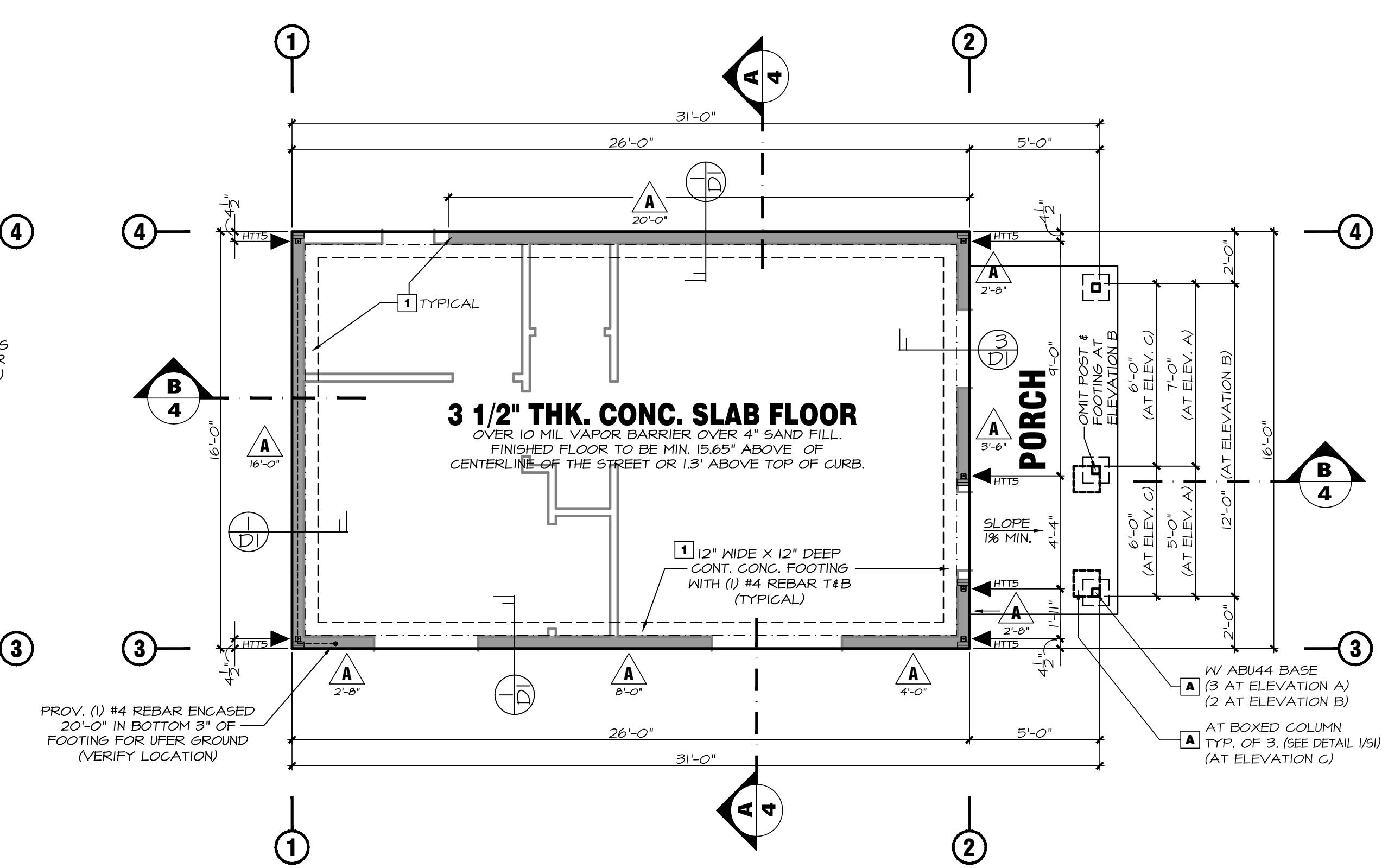
SUBTERRANEAN TERMITE CONTROL METHODS OF PROTECTION SHALL BE DONE WITH CHEMICAL TERMICIDE TREATMENT, AS PROVIDED IN SECTION R310.2, PRIOR TO FOUNDATION INSPECTION.

A COMPACTION REPORT IS REQUIRED. AS AN OPTION, THE PROPERTY OWNER MAY PROVIDE A SOILS REPORT FOR THIS PROJECT FROM A LICENSED PROFESSIONAL.

A SOILS REPORT MAY BE REQUESTED BY THE CITY OF CLOVIS BUILDING DEPARTMENT AT TIME OF PERMIT APPLICATION.

FOUNDATION PLAN

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



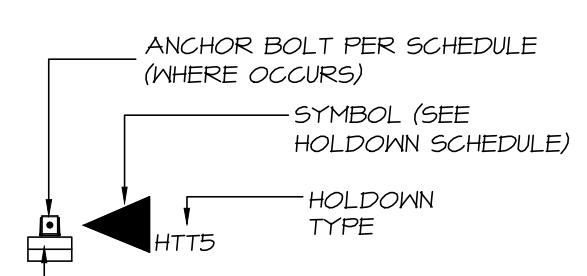
SHEARWALL PLAN

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

HOLDOWN SCHEDULE

HOLDDOWNS

HTTS W STTB16 ANCHOR BOLT PER DETAIL 4/D1
-OR- STHD10 PER DETAIL 5/D1



LEGEND

NOTES:
STHD10 HOLDOWN MAY BE SUBSTITUTED WHERE HTTS HOLDOWN IS SPECIFIED. CONTRACTOR SHALL VERIFY STRAP / BOLT LOCATION WHERE DIFFERENT FROM THAT LISTED ON PLANS.
ALL HOLDOWN DIMENSIONED ON PLAN ARE MEASURED TO THE CENTER OF THE HOLDOWN DEVICE (BOLT OR STRAP).

SHEAR WALL SCHEDULE

SHEARWALLS

MARK	WALL SHEATHING	EDGE NAILING	D.F. #2	ANCHOR BOLTS
A	8" CDX PLY. PSR 24/00 or 1/2" O.S.B. PSR 24/16	8d @ 6" O.C.		1/2" DIAM. @ 48" O.C. or MASA @ 48" O.C.

NOTES:

MASA = 'SIMPSON' MUD SILL ANCHORS - ESR-2555 (OR EQUAL) INSTALLED PER MANUF. INSTALLATION INSTRUCTIONS.

ALL SILL PLATES SHALL BE PRESSURE TREATED DOUGLAS FIR #2. NAILING AT INTERMEDIATE MEMBERS TO BE SPACED AT 12" O.C. (TYPICAL U.N.O.)

NAILING OF PLYWOOD SHEAR WALLS OR PLYWOOD DIAPHRAGMS SHALL BE DONE WITH COMMON OR GALVANIZED BOX NAILS ONLY. GALVANIZED NAILS SHALL BE HOT DIPPED OR TUMBLED.

ALL WOOD SHEAR WALLS AND DIAPHRAGMS SHALL CONFORM TO CBC SECTION 2305.2.4.

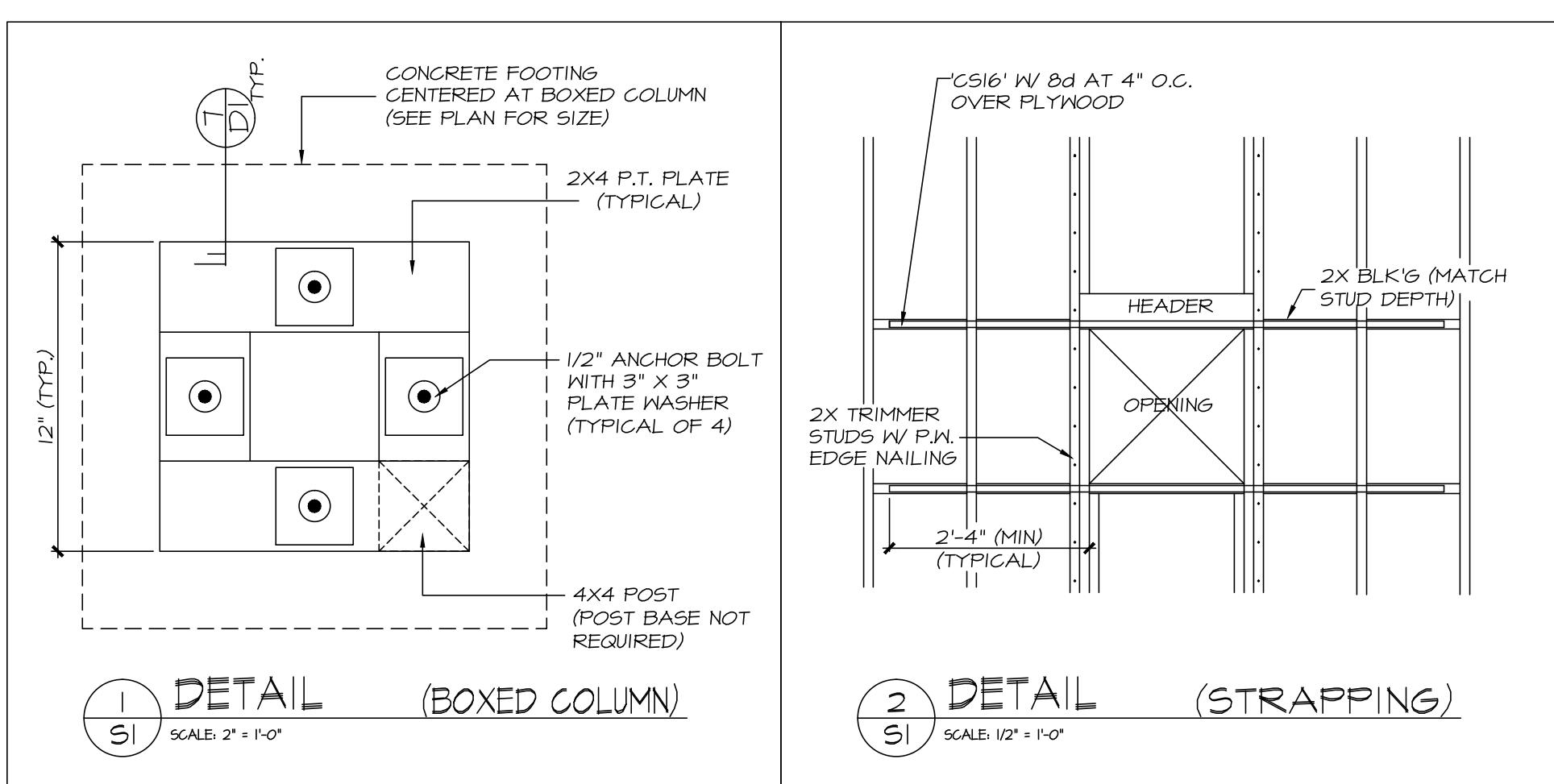
A) SHEETS USED IN THE CONSTRUCTION OF DIAPHRAGMS AND SHEAR WALLS SHALL NOT BE LESS THAN 4' X 8' IN SIZE.

B) MINIMUM SIZE SHEET AT BOUNDARIES AND CHANGES IN FRAMING SHALL BE 24" UNLESS ALL EDGES ARE BLOCKED AND NAILED.

C) PROVIDE FRAMING MEMBERS OR BLOCKING AT ALL PANEL EDGES IN SHEAR WALLS.

ALL EXTERIOR FOOTINGS SHALL HAVE 1/2" DIAMETER X 10" ANCHOR BOLTS (OR MASA) AT 72" O.C. UNLESS NOTED OTHERWISE IN SHEAR WALL SCHEDULE.

FASTENERS FOR PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED WOOD SHALL BE OF HOT DIPPED ZINC-COATED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER.



REVERSE FOUNDATION PLAN

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

FOOTING SCHEDULE

FOOTING SIZE

MARK	FOOTING SIZE	REINFORCING
1	12" WIDE X 12" DEEP CONT. FOOTING PER DETAIL 1/D1	(1) #4 REBAR T & B
A	16" X 18" X 12" DEEP	(2) #4 REBAR E.W.

CONCRETE SHALL HAVE AN ULTIMATE COMPRESSION STRENGTH OF 2500 P.S.I. IN 28 DAYS. SEE FOUNDATION PLAN FOR POST BASE AND SPECIAL REQUIREMENTS

REGISTERED PROFESSIONAL ENGINEER
RASHID A. MOHAMMAD
CIVIL
STATE OF CALIFORNIA
No. 45997
7/22

ENGINEER'S SEAL AND SIGNATURE ON PLANS ARE LIMITED TO THE ITEMS ON THE PLANS ADDRESSED IN THE STRUCTURAL CALCULATIONS ONLY. NO OTHER APPROVAL, LIABILITY OR CONSENT FOR ANY OTHER ASPECT OR PHASE OF THIS STRUCTURE IS IMPLIED OR EXPRESSED.

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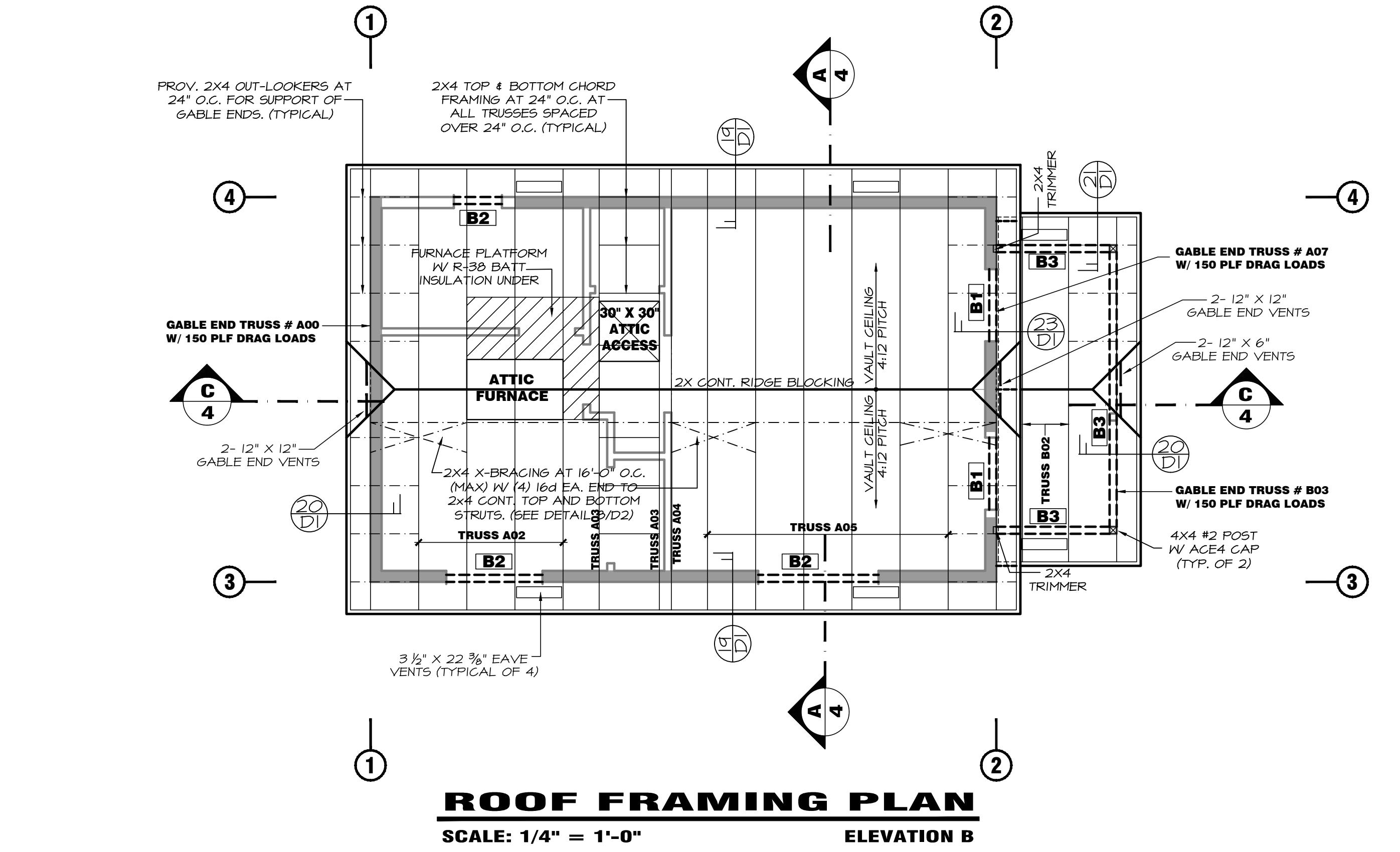
STANDARD PLAN #2 FOR:
CITY OF CHOWCHILLA
130 S 2ND STREET
CHOWCHILLA, CA 93610
PHONE: 559-665-8615

SHEET
S1
OF 19 FOUNDATION

DATE: 06-17-2022
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STANDARD PLAN #2 FOR:
CITY OF CHOWCHILLA
130 S 2ND STREET
CHOWCHILLA, CA 93610
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REVERSE
ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"
ELEVATION B
SHEET
OF 19 ROOF PLAN-B
CWB



**VENTILATION CALCULATIONS:
(AT PORCH)**

TOTAL ATTIC AREA: 60 SQ. FT.
60 SQ. FT. X 1/150 = 0.4 S.F. REQ'D.
0.4 S.F. FT. X 144 = 58 SQ. IN. REQ'D.

(2) 3 1/2" X 22 1/2" EAVE VENTS 94 S.I.

TOTAL VENTILATION PROVIDED: 94 S.I.

ALL VENTS SHALL HAVE CORROSION RESISTANT
SCREENS WITH OPENINGS AT LEAST 1/8", AND NOT MORE
THAN 1/4" MAXIMUM.

HEADER & BEAM SCHEDULE			
MARK	BEAM SIZE	GRADE	REMARKS
B1	4X6	D.F. #2	
B2	4X8	D.F. #2	
B3	4X12	D.F. #2	

NOTES:
BEAM DESIGN NO. AS REFERENCED IN ENGINEER'S CALCULATIONS
ALL LUMBER SHALL BE GRADE MARKED, DF STD. OR BETTER, UNO.
GLUE-LAMINATED WOOD TO BE 24F-V4 DF/DF, UNO.
ALL BEAMS SHALL HAVE SOLID SUPPORT TO FOUNDATION.
UNLESS NOTED OTHERWISE, PROVIDE MIN (1) 2X TRIMMER AT EACH END.

ROOF FRAMING NOTES:

USE PRE-MANUFACTURED TRUSSES AT 24" O.C. UNLESS NOTED OTHERWISE IN
DRAWINGS. TRUSS DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE
BUILDING DEPARTMENT PRIOR TO FABRICATION OF ANY TRUSSES.

SEE TYPICAL TRUSS AND ROOF FRAMING NOTES AT SHEET N-1

APPROVED TRUSS DRAWINGS SHALL BE ON SITE FOR INSPECTION PURPOSES

SEE TRUSS DRAWINGS FOR WEB BRACING REQUIREMENTS AND/OR ANY
ADDITIONAL REQUIREMENTS.

ALL FRAMING LUMBER TO BE D.F. #2 OR BETTER UNLESS NOTED OTHERWISE IN
DRAWINGS.

ALL FASCIA TO BE 2x6 REASWN HEM FIR

ROOF COVERING TO BE CLASS "A" COMPOSITION SHINGLES OVER 30 # FELT
OVER 1/2" CDX RATED 24/00 PLYWOOD ROOF SHEATHING (OR 1/16" OSB
RATED 24/16) WITH 8D AT 6" O.C. AT EDGE AND BOUNDARY NAILING AND 8D
AT 12" O.C. AT FIELD NAILING. THE ENTIRE PERIMETER SHALL BE BLOCKED AND
EDGE NAILED.

NAILING OF PLYWOOD SHEAR WALLS OR PLYWOOD DIAPHRAGMS SHALL BE
DONE WITH COMMON WIRE NAILS UNO. SHOULD THE CONTRACTOR DESIRE TO
USE ANY OTHER FASTENERS, HE SHALL OBTAIN WRITTEN APPROVAL FROM THE
ENGINEER AND/OR DESIGNER PRIOR TO THE USE OF SUCH FASTENERS IN THE
WALLS.

ENTIRE PERIMETER OF ROOF SHALL BE BLOCKED AND EDGE NAILED
PROVIDE 1/8" GAP AT ALL PLYWOOD PANEL EDGES.

PLYWOOD ROOF DIAPHRAGM SHALL BE CONTINUOUS BELOW ALL CALIFORNIA
FILL FRAMING. PROVIDE 22" X 30" OPENING FOR ACCESS AND VENTILATION.
BLOCK ALL EDGES OF OPENING.

ALL PLYWOOD ROOF SHEATHING SHALL BE LAID PERPENDICULAR TO RAFTERS
WITH STAGGERED END JOINT PATTERNS.

ALL PLYWOOD EXPOSED TO THE WEATHER SHALL BE 'EXPOSURE ONE' RATED.
PROVIDE STEPPED FLASHING AT ALL ROOF JUNCTIONS TO VERTICAL
SURFACES. (WALLS, SKYLIGHTS AND FIREPLACES)

ANY EXTERIOR TOP PLATE THAT CANNOT LAP DUE TO CHANGES IN PLATE
HEIGHT OR AT CORNERS WHERE RAKED WALLS INTERSECT LEVEL WALLS, SHALL
USE 28" LONG 'CS16' STRAPS TO TIE THEM TOGETHER. (SEE DETAIL 1/D1)

ALL WOOD SHEAR WALLS AND DIAPHRAGMS SHALL CONFORM TO THE
FOLLOWING:

A) SHEETS USED IN THE CONSTRUCTION OF DIAPHRAGMS AND SHEAR WALLS
SHALL NOT BE LESS THAN 4' X 8' IN SIZE

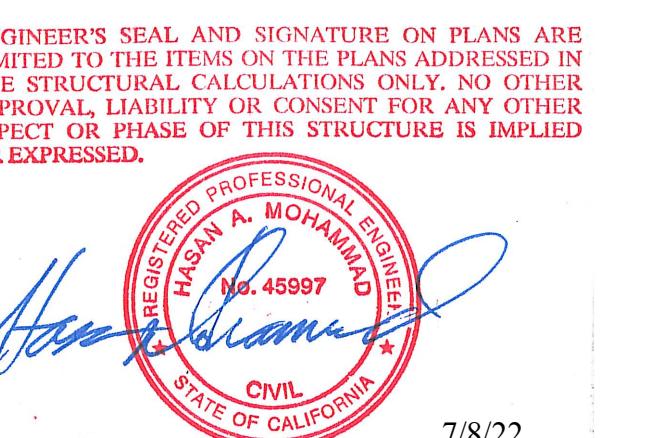
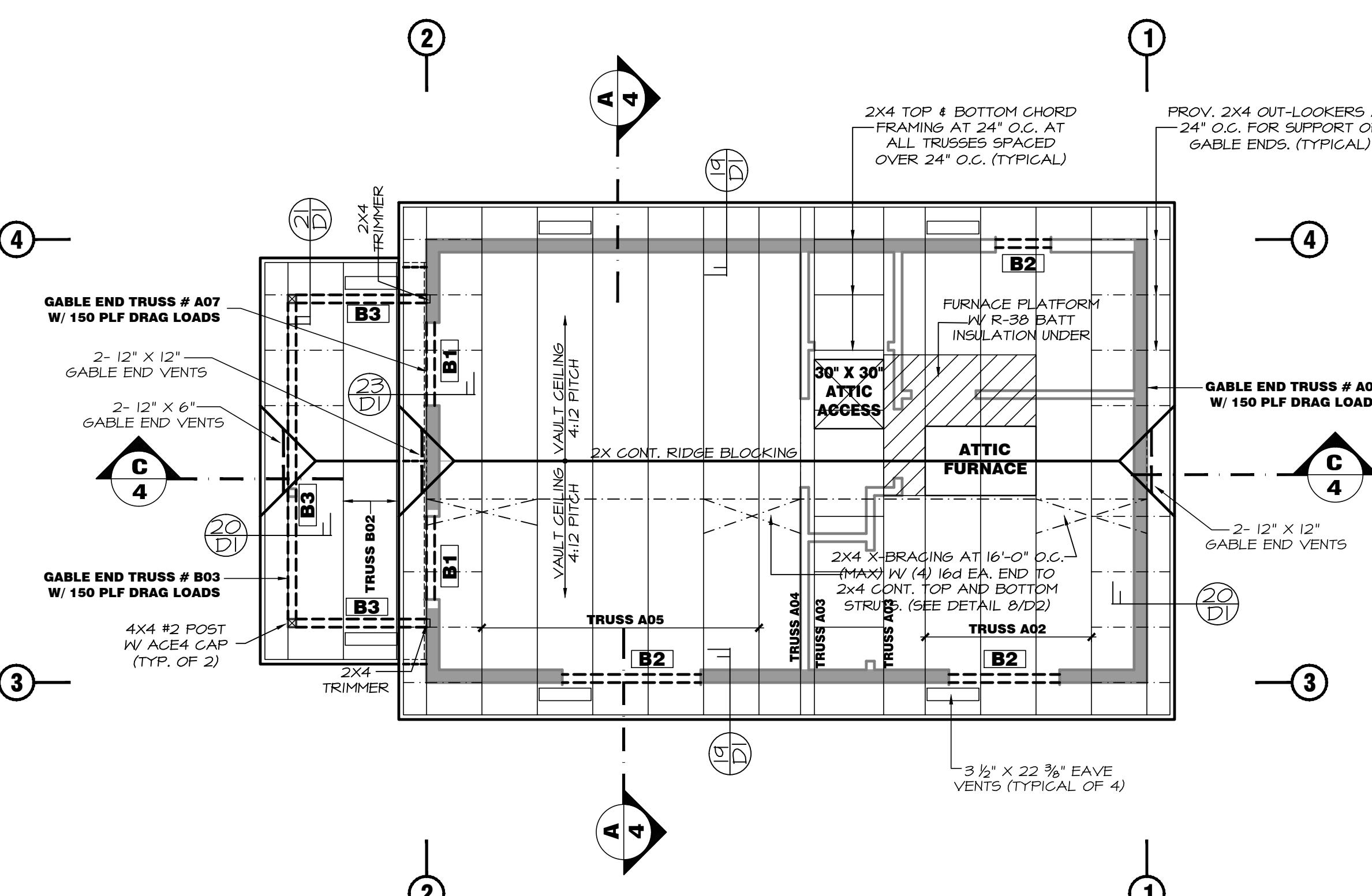
B) MINIMUM SIZE SHEET AT BOUNDARIES AND CHANGES IN FRAMING SHALL BE
24" UNLESS ALL EDGES ARE BLOCKED AND NAILED.

C) PROVIDE FRAMING MEMBERS OR BLOCKING AT ALL PANEL EDGES IN
SHEAR WALLS

ALL ELEVATIONS ARE GIVEN FROM TOP OF FLOOR SLAB.

SEE DETAIL 1/D2 FOR TYPICAL BEAM CONNECTION DETAILS

ALL ATTIC ACCESS OPENINGS SHALL BE GASKETED TO PREVENT AIR LOSS.



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DATE: 06-17-2022

STANDARD PLAN #2 FOR:
CITY OF CHOWCHILLA
130 S 2ND STREET
CHOWCHILLA, CA 93610
PHONE: 559-665-8615

**SHEET
23
OF 19 ROOF PLAN-C**

ROOF FRAMING NOTES:

USE PRE-MANUFACTURED TRUSSES AT 24" O.C. UNLESS NOTED OTHERWISE IN DRAWINGS. TRUSS DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE BUILDING DEPARTMENT PRIOR TO FABRICATION OF ANY TRUSSES.

SEE TYPICAL TRUSS AND ROOF FRAMING NOTES AT SHEET N-1

APPROVED TRUSS DRAWINGS SHALL BE ON SITE FOR INSPECTION PURPOSES

SEE TRUSS DRAWINGS FOR WEB BRACING REQUIREMENTS AND/OR ANY ADDITIONAL REQUIREMENTS.

ALL FRAMING LUMBER TO BE D.F. #2 OR BETTER UNLESS NOTED OTHERWISE IN DRAWINGS.

ALL FASCIA TO BE 2x6 REASWN HEM FIR

ROOF COVERING TO BE "EAGLE" (ESR 100) CLASS "A", CONCRETE TILE OVER 30 # FELT OVER 1/2" CDX RATED 24/100 PLYWOOD ROOF SHEATHING (OR 1/16" OSB RATED 24/16) WITH 8D AT 6" O.C. AT EDGE AND BOUNDARY NAILING AND 8D AT 12" O.C. AT FIELD NAILING. THE ENTIRE PERIMETER SHALL BE BLOCKED AND EDGE NAILED.

AN ANTI-PONDING DEVICE IS REQUIRED AT THE BOTTOM COURSE OF ALL TILE ROOFS WHERE A RAISED FASCIA IS USED.

NAILING OF PLYWOOD SHEAR WALLS OR PLYWOOD DIAPHRAGMS SHALL BE DONE WITH COMMON WIRE NAILS, U.N.O. SHOULD THE CONTRACTOR DESIRE TO USE ANY OTHER FASTENERS, HE SHALL OBTAIN WRITTEN APPROVAL FROM THE ENGINEER AND/OR DESIGNER PRIOR TO THE USE OF SUCH FASTENERS IN THE FIELD.

ENTIRE PERIMETER OF ROOF SHALL BE BLOCKED AND EDGE NAILED.

PROVIDE 1/8" GAP AT ALL PLYWOOD PANEL EDGES.

PLYWOOD ROOF DIAPHRAGM SHALL BE CONTINUOUS BELOW ALL CALIFORNIA PILL FRAMING. PROVIDE 22" X 30" OPENING FOR ACCESS AND VENTILATION. BLOCK ALL EDGES OF OPENING.

ALL PLYWOOD ROOF SHEATHING SHALL BE LAID PERPENDICULAR TO RAFTERS WITH STAGGERED END JOINT PATTERNS.

ALL PLYWOOD EXPOSED TO THE WEATHER SHALL BE EXPOSURE ONE' RATED.

PROVIDE STEPPED FLASHING AT ALL ROOF JUNCTIONS TO VERTICAL SURFACES (WALLS, SKYLIGHTS AND FIREPLACES).

ANY EXTERIOR TOP PLATE THAT CANNOT LAP DUE TO CHANGES IN PLATE HEIGHT OR AT CORNERS WHERE RAKED WALLS INTERSECT LEVEL WALLS, SHALL USE 28" LONG CS16 STRAPS TO TIE THEM TOGETHER. (SEE DETAIL 14/D)

ALL WOOD SHEAR WALLS AND DIAPHRAGMS SHALL CONFORM TO THE FOLLOWING:

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C) PROVIDE FRAMING MEMBERS OR BLOCKING AT ALL PANEL EDGES IN SHEAR WALLS

ALL ELEVATIONS ARE GIVEN FROM TOP OF FLOOR SLAB.

SEE DETAIL 13/D2 FOR TYPICAL BEAM CONNECTION DETAILS

ALL ATTIC ACCESS OPENINGS SHALL BE GASKETED TO PREVENT AIR LOSS.

VENTILATION CALCULATIONS: (AT PORCH)

TOTAL ATTIC AREA: 60 SQ. FT.
60 SQ. FT. X 1/150 = 0.4 SF. REQ'D.
0.4 SQ. FT. X 144 = 58 SQ. IN. REQ'D.

(2) 3 1/2" X 22 1/2" EAVE VENTS 94 S.I.
TOTAL VENTILATION PROVIDED: 94 S.I.

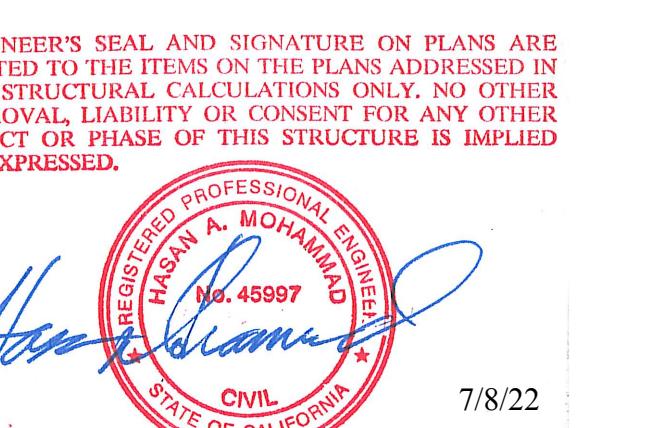
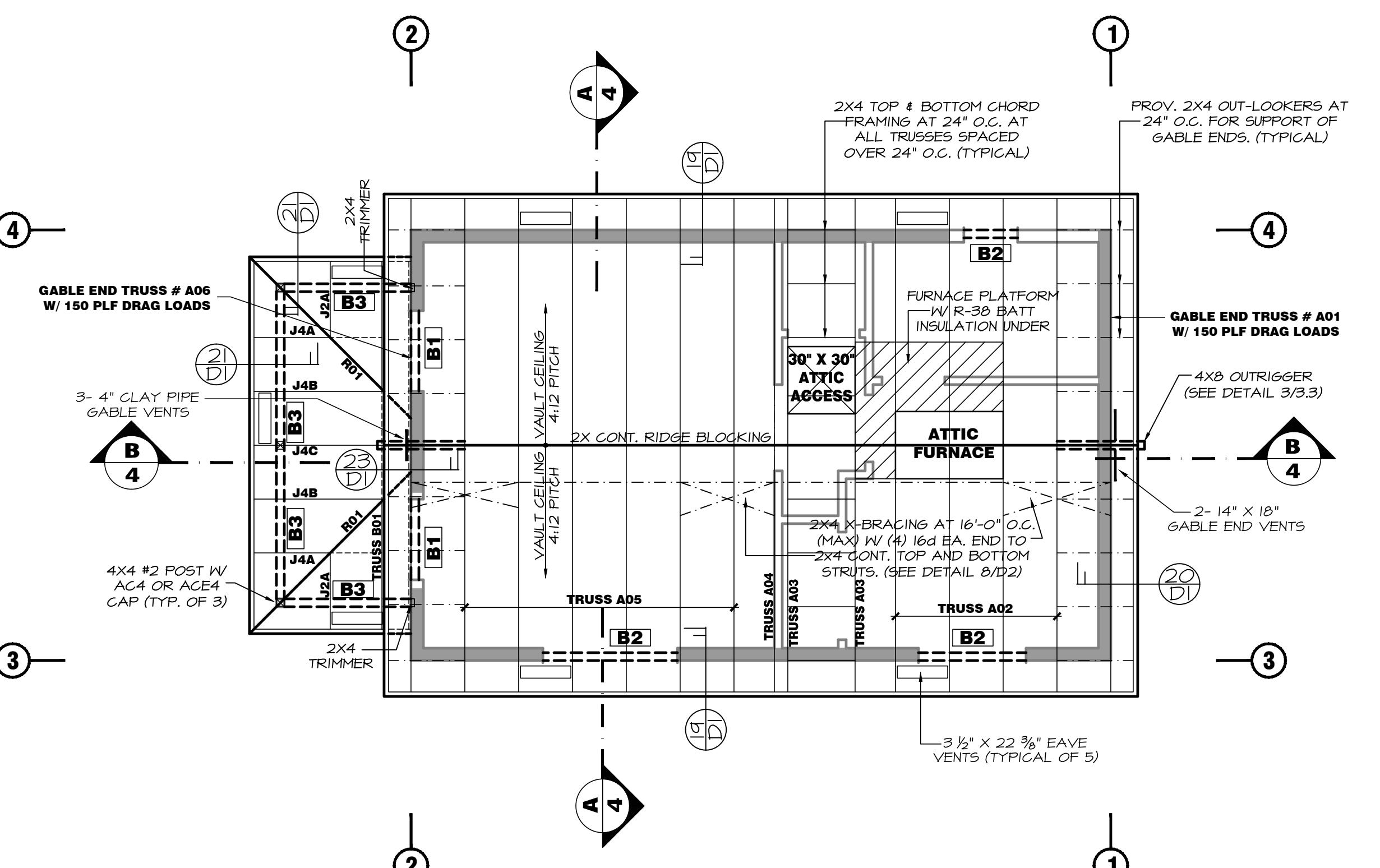
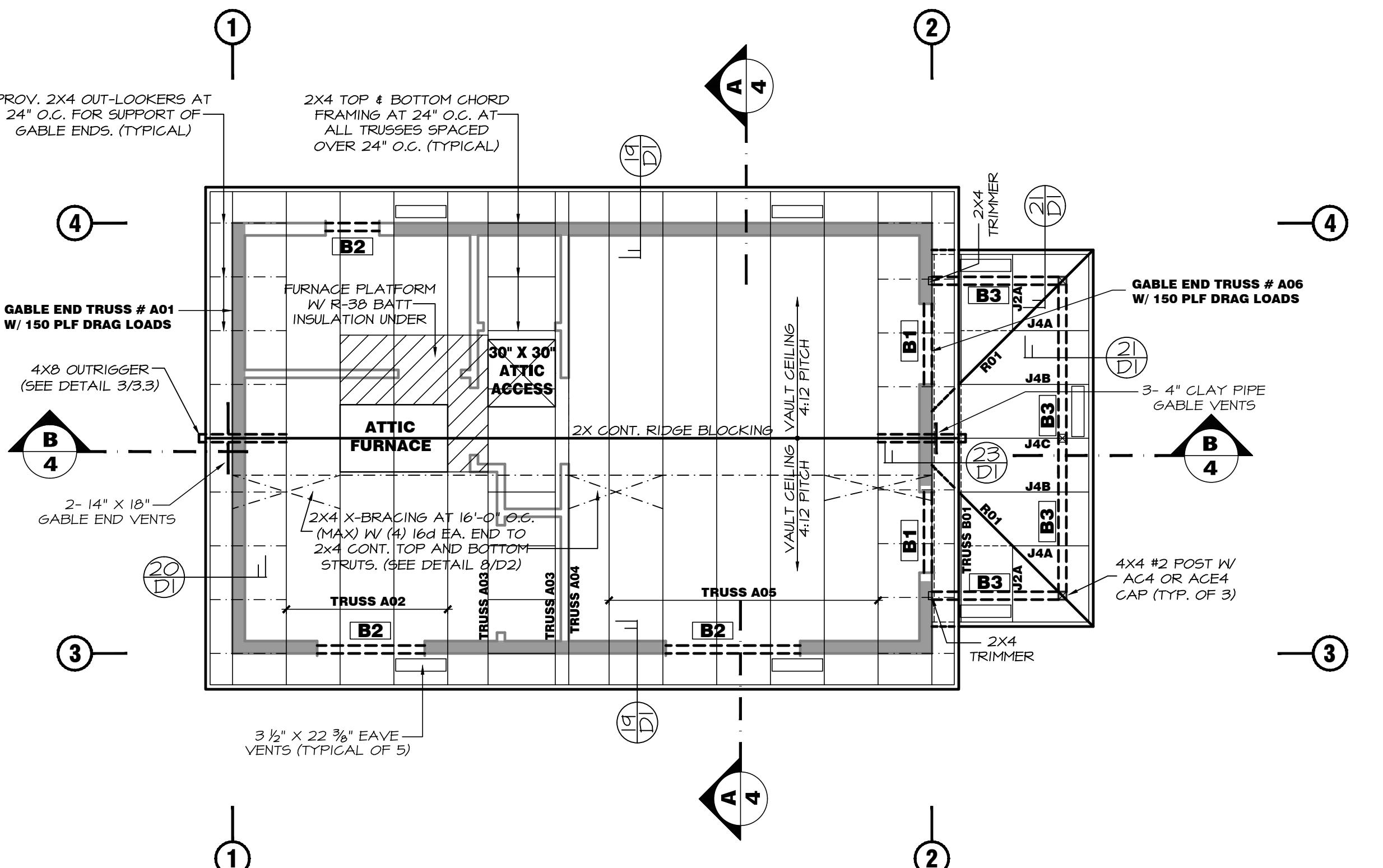
ALL VENTS SHALL HAVE CORROSION RESISTANT SCREENS WITH OPENINGS AT LEAST 1/8", AND NOT MORE THAN 1/4" MAXIMUM.

HEADER & BEAM SCHEDULE

MARK	BEAM SIZE	GRADE	REMARKS
B1	4X6	D.F. #2	
B2	4X8	D.F. #2	
B3	4X12	D.F. #2	

NOTES:
BEAM DESIGN NO. AS REFERENCED IN ENGINEER'S CALCULATIONS
ALL LUMBER SHALL BE GRADE MARKED, DF STD. OR BETTER, U.N.O.
GLUE-LAMINATED LUMBER TO BE 24F-V4 DF/DF, U.N.O.

ALL BEAMS SHALL HAVE SOLID SUPPORT TO FOUNDATION.
UNLESS NOTED OTHERWISE, PROVIDE MIN (1) 2X TRIMMER AT EACH END.



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THE DRAWING OWNER FOR INFORMATION CONCERNING THE EXCLUSIVE
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DATE: 06-17-2022

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STANDARD PLAN #2 FOR:

130 S 2ND STREET
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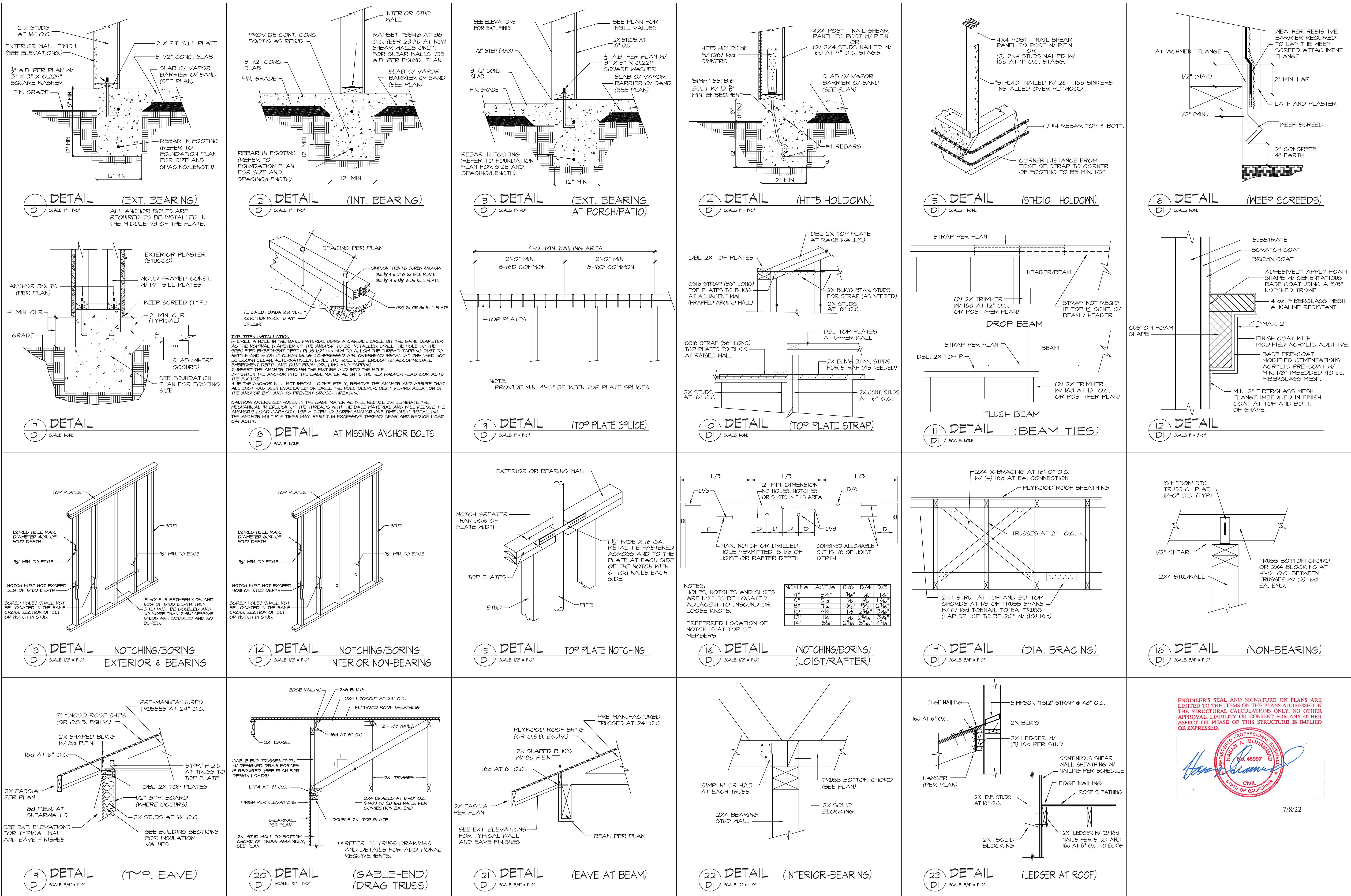
DETAILS

D1

OF 19

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ELECTRICAL PLAN NOTES

PROVIDE AN APPROVED SMOKE DETECTOR LOCATED BETWEEN THE KITCHEN AND ANY BEDROOM, ON THE KITCHEN SIDE AND AT LEAST 10' FROM THE AIR OUTLET. SMOKE DETECTORS SHALL ALSO BE INSTALLED IN EACH STAIR TOWER OR DRAILING AT THE TOP OF THE CEILING ADJACENT TO THE STAIR TOWER, AND ONE EACH SLEEPING ROOM USED FOR SLEEPING. DETECTORS SHALL BE HARD WIRED INTO THE ELECTRICAL SYSTEM, INTERCONNECTED TO SOUND SIMULTANEOUSLY, AND SHALL BE EQUIPPED WITH A BATTERY BACK-UP, ALARMS TO SOUND IN THE SLEEPING AREAS.

PROVIDE AN APPROVED CARBON MONOXIDE DETECTOR OUTSIDE OF EACH SEPARATE DWELLING UNIT SLEEPING AREA IN THE IMMEDIATE VIGINTY OF THE BEDROOM(S). CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING AND SHALL BE EQUIPPED WITH A BATTERY BACK-UP. WHERE MORE THAN ONE CARBON MONOXIDE ALARM IS PROVIDED, THE ALARMS SHALL BE INTERCONNECTED SO THAT ACTIVATION OF ONE CARBON MONOXIDE ALARM SHALL ACTIVATE ALL OF THE ALARMS. CARBON MONOXIDE ALARMS COMBINED WITH SMOKE ALARMS SHALL COMPLY WITH SECTION 408.1. APPROVAL STANDARDS AND REQUIREMENTS FOR LISTING AND APPROVAL BY THE OFFICE OF THE STATE FIRE MARSHAL FOR SMOKE ALARMS.

ELECTRIC RANGES AND CLOTHES DRYERS SHALL BE PROVIDED WITH AN EQUIPMENT GROUNDING CONDUCTOR BY MEANS OF A SEPARATE FLEXIBLE WIRE OR STRAP. (4 CONDUCTORS REQUIRED)

EACH DISCONNECTING MEANS PROVIDED BY THE NEG FOR MOTORS AND APPLIANCES, AND EACH SERVICE FEEDER, OR BRANCH CIRCUIT AT THE POINT WHERE IT ORIGINATES, SHALL BE LEGIBLY MARKED TO INDICATE ITS PURPOSE UNLESS LOCATED AND ARRANGED SO THE PURPOSE IS EVIDENT. THE MARKING SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. (PROPER IDENTIFICATION IS TO BE SPECIFIC)

EACH DISCONNECT SHALL ADJACENT TO AND IN SIGHT FROM THE EQUIPMENT SERVED

AN EXHAUST FAN WITH A CAPACITY OF 50 CFM INTERMITTENT OR 25 CFM CONTINUOUS SHALL BE PROVIDED IN PRIVATE BATHROOMS.

BATHROOM EXHAUST FANS THAT ARE NOT A COMPONENT OF THE WHOLE HOUSE VENTILATION SYSTEM MUST BE CONTROLLED BY A READILY ACCESSIBLE AMBIENT CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGES OF 50 TO 80 PERCENT. HUMIDISTAT FUNCTION OF FAN SHALL NOT BE CAPABLE OF BEING OVERRIDE. (NEC PANASONIC FV-NC551W CONDENSATION SENSOR SWITCH OR EQUAL)

PROVIDE ILLUMINATED ADDRESS SIGN AS SHOWN ON PLANS. STREET ADDRESS NUMBERS SHALL BE A MINIMUM OF FOUR INCHES HIGH WITH A MINIMUM STROKE WIDTH OF 1/2" AND LOCATED AS TO BE CLEARLY VISIBLE FROM THE ALLEY.

PROVIDE DESIGNATED 20 AMP CIRCUIT FOR:

A) 2 SMALL APPLIANCE CIRCUITS IN THE KITCHEN

B) THE BATHROOM

C) BUILT-IN MICROWAVE OVEN

ALL 120 VOLT, SINGLE PHASE, 15 AMP AND 20 AMP BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUN ROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, AND OTHER SLEEPING ROOMS OR AREAS, SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT BREAKER. (NOT A GFCI) COMBINATION TYPE INSTALLED TO PROVIDE PROTECTION OF THE ENTIRE BRANCH CIRCUIT. (THE BUILDER MUST STATE "COMBINATION AFCI")

INTER SYSTEM BONDING IS REQUIRED FOR THIS RESIDENCE

BUILDER MUST PROVIDE THE NEW HOMEOWNER WITH A LUMINAIRE SCHEDULE THAT INCLUDES A LIST OF LAMPS INSTALLED IN THE LUMINAIRES.

BUILDER IS REQUIRED TO PROVIDE THE INSPECTOR WITH A COMPLETED LUMINAIRE SCHEDULE FOR REVIEW.

LIGHTING:

LIGHTING IN CLOTHES CLOSETS SHALL COMPLY W/ CEC SECTION 410-16.

ALL PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE HIGH EFFICIENCY IN ACCORDANCE WITH TABLE 1500-A

ALL LIGHTING RECEIVED INTO CEILINGS SHALL CONFORM TO THE FOLLOWING:

1. BE RATED FOR ZERO CLEARANCE INSULATION CONTACT (IC).
2. MUST HAVE A LABEL THAT CERTIFIED THE FIXTURE AS AIRIGHT.
3. MUST BE INSTALLED IN A LOCATION WHERE THE CEILING IS NOT A COMBUSTIBLE MATERIAL.
4. FOR LUMINAIRES WITH HARDWIRED BALLASTS OR DRIVERS, ALLOW BALLAST OR DRIVER MAINTENANCE AND REPLACE-MEES TO BE READILY ACCESSIBLE TO BUILDING OCCUPANTS FROM BELOW THE CEILING WITHOUT REQUIRES REMOVING THE LUMINAIRE OR FIXTURE.
5. SHALL NOT CONTAIN SCREW BASED SOCKETS.
6. SHALL CONTAIN LIGHT SOURCES THAT COMPLY WITH REFERENCES JOINT APPENDIX JAB, INCLUDING THE ELEVATED TEMPERATURE REQUIREMENTS AND THAT ARE MARKED QAB-2016-EA AS SPECIFIED IN REFERENCE JOINT APPENDIX JAB.

ALL FLUORESCENT LAMPS ARE REQUIRED TO HAVE AN EFFICIENCY OF NOT LESS THAN 45 LUMENS PER WATTS.

ALL FLUORESCENT LAMPS RATED AT 19 WATTS OR GREATER SHALL HAVE AN ELECTRONIC BALLAST

PROVIDE MIN. 10 SWITCHED LIGHT FIXTURE IN ATTIC USED FOR STORAGE OR CONTAINING EQUIPMENT REQUIRING SERVICING. SWITCH SHALL BE LOCATED AT THE ATTIC ACCESS PANEL.

NO PARTS OF LIGHT CONNECTED FIXTURES, HANGING FIXTURES, TRACK LIGHTING, PENDANTS, OR CEILING FANS SHALL BE LOCATED DIRECTLY ABOVE ANY BATHTUB OR WITHIN A ZONE MEASURED 3 FT. HORIZONTALLY AND 5 FT. VERTICALLY FROM THE BATHTUB RIM.

ALL LED LIGHTING MUST BE CERTIFIED TO CEC. IF THE LIGHTING IS NOT CERTIFIED IT MUST BE CONSIDERED AS "LOW EFFICIENCY LIGHTING". ALL LED LIGHTING USED AS "HIGH EFFICIENCY LIGHTING" SHALL HAVE THE DATA PROVIDED AT THE JOB SITE FOR INSPECTION PURPOSES.

OUTDOOR LIGHTING:

ALL OUTDOOR LIGHTING THAT IS ATTACHED TO THE BUILDING OR ANY OTHER BUILDING PROVIDED WITH COMMERCIAL POWER IS REQUIRED TO BE HIGH EFFICIENCY.

LIGHT FIXTURES INSTALLED ON THE OUTSIDE OF THE BUILDING MUST BE LISTED FOR DAMP LOCATIONS.

ALL LUMINAIRES PROVIDING RESIDENTIAL OUTDOOR LIGHTING SHALL BE CONTROLLED BY A MANUAL ON AND OFF SWITCH AND BE CONTROLLED BY PHOTOCELL AND MOTION SENSOR.

CONTROLS THAT OVERRIDE TO ON SHALL NOT BE ALLOWED UNLESS THE OVERRIDE AUTOMATICALLY REACTIVATES THE MOTION SENSOR WITHIN 6 HOURS.

ALL EXTERIOR LIGHTING SHALL BE DIRECTED DOWNWARD AND SHIELDED TO CONFINE THE LIGHTING WITHIN THE BOUNDARIES OF THE SUBJECT PARCEL.

EXTERIOR LIGHTING SHALL NOT EXCEED 150 WATTS AND MUST NOT BE VISIBLE FROM ADJACENT PROPERTIES.

SWITCHING:

EXHAUST FANS SHALL BE SWITCHED SEPARATELY FROM LIGHTING SYSTEM.

LUMINAIRES SHALL BE SWITCHED WITH READILY ACCESSIBLE CONTROLS THAT PERMIT THE LUMINAIRES TO BE MANUALLY SWITCHED ON AND OFF.

NO CONTROLS SHALL BYPASS A DIMMER OR VACANCY SENSOR FUNCTION WHERE THAT DIMMER OR VACANCY SENSOR HAS BEEN INSTALLED TO COMPLY WITH SECTION 1500-K.

AT LEAST ONE LIGHTING FIXTURE INSTALLED IN BATHROOMS, UTILITY ROOMS AND GARAGES SHALL BE CONTROLLED BY A VACANCY SENSOR.

ANY LED LIGHTING THAT IS NOT CERTIFIED AS HIGH EFFICIENCY TO THE CALIFORNIA ENERGY COMMISSION MUST BE JOINT APPENDIX JAB COMPLIANT AND MUST BE SWITCHED WITH A DIMMER SWITCH OR VACANCY SENSOR.

DIMMERS OR VACANCY SENSORS SHALL CONTROL ALL LUMINAIRES REQUIRED TO HAVE LIGHT SOURCES COMPLIANT WITH REFERENCE JOINT APPENDIX JAB. (EXCEPT IN HALLWAYS AND/OR CLOSETS LESS THAN 6 FT.)

ANY UNDER CABINET LIGHTING MUST BE SWITCHED SEPARATELY FROM OTHER LIGHTING SYSTEMS.

RECEPTACLES:

THE NUMBER OF ELECTRICAL BOXES THAT ARE MORE THAN 9 FEET ABOVE THE FINISHED FLOOR AND DO NOT CONTAIN A LUMINAIRE, AND THAT DO NOT EXCEED 10 FEET IN LENGTH, AND BE NO GREATER THAN THE NUMBER OF BEDROOMS THESE ELECTRICAL BOXES MUST BE SERVED BY A DIMMER, VACANCY SENSOR CONTROL, OR FAN SPEED CONTROL.

BATHROOM RECEPTACLES MUST BE SERVED BY A SEPARATE 20 AMP CIRCUIT WITH NO OTHER OUTLETS SERVED FROM THAT CIRCUIT. (ONE CIRCUIT MAY SERVE ALL BATHROOMS).

PROVIDE RECEPTACLE WITH IN 25 FEET AND ON THE SAME LEVEL OF MECHANICAL EQUIPMENT.

FOR RECEPTACLES SERVING COUNTER TOPS:

A) RECEPTACLE OUTLETS SHALL NOT BE INSTALLED IN A FACE UP POSITION IN THE WORK SURFACES.

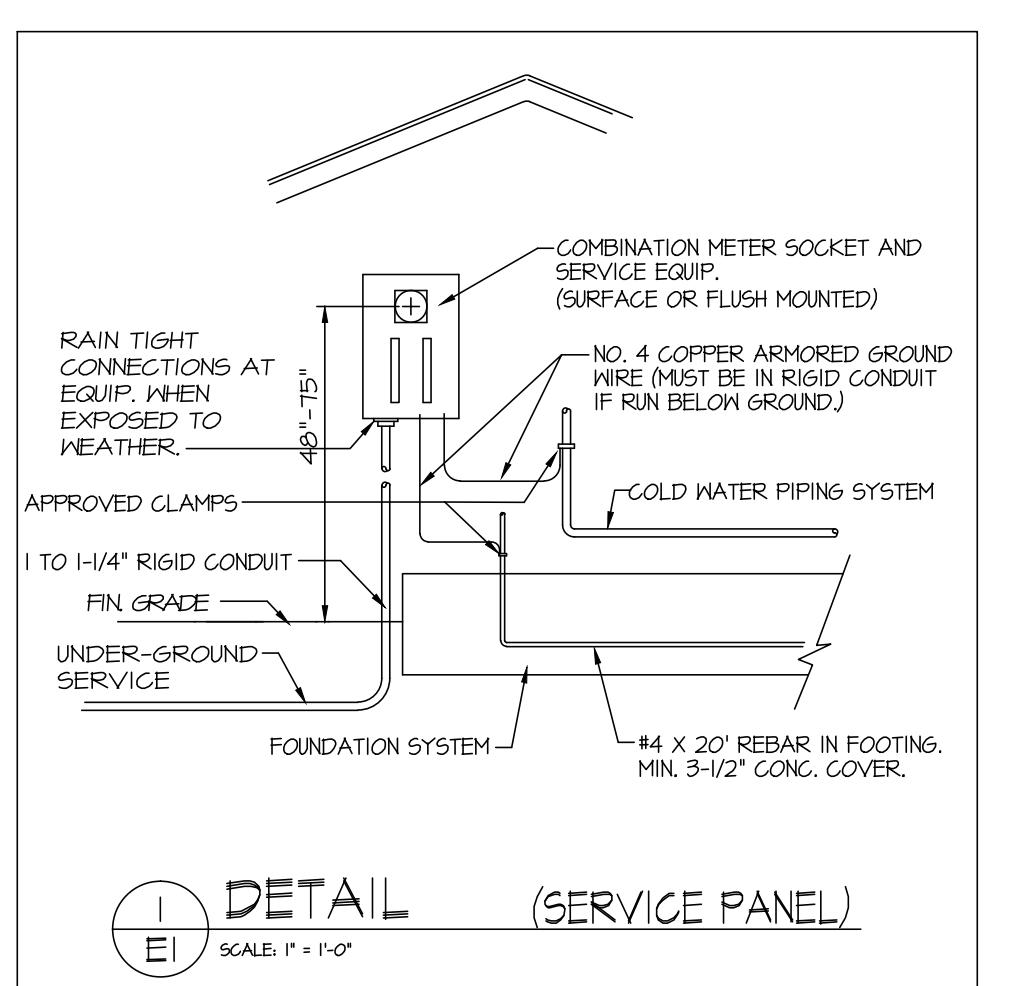
B) RECEPTACLE OUTLETS SHALL BE LOCATED ABOVE, BUT NOT MORE THAN 20" ABOVE THE COUNTER TOPS.

C) RECEPTACLE OUTLETS SHALL BE PERMITTED TO BE MOUNTED NOT MORE THAN 12" BELOW THE COUNTER TOP PROVIDED THE COUNTER TOP DOES NOT EXTEND MORE THAN 6" BEYOND ITS SUPPORT BASE.

D) ON ISLAND AND PENINSULAR COUNTER TOPS, RECEPTACLES MAY BE MOUNTED A MAX. 12" BELOW COUNTER TOP PROVIDED THERE ARE NO BACK SPLASHES OR DIVIDERS AND NO MEANS TO MOUNT WITHIN 12" ABOVE COUNTERTOP, SUCH AS AN OVERHEAD CABINET.

ALL DWELLING UNIT RECEPTACLES SHALL BE LISTED TAMPER RESISTANT RECEPTACLES PER CEC 406.12

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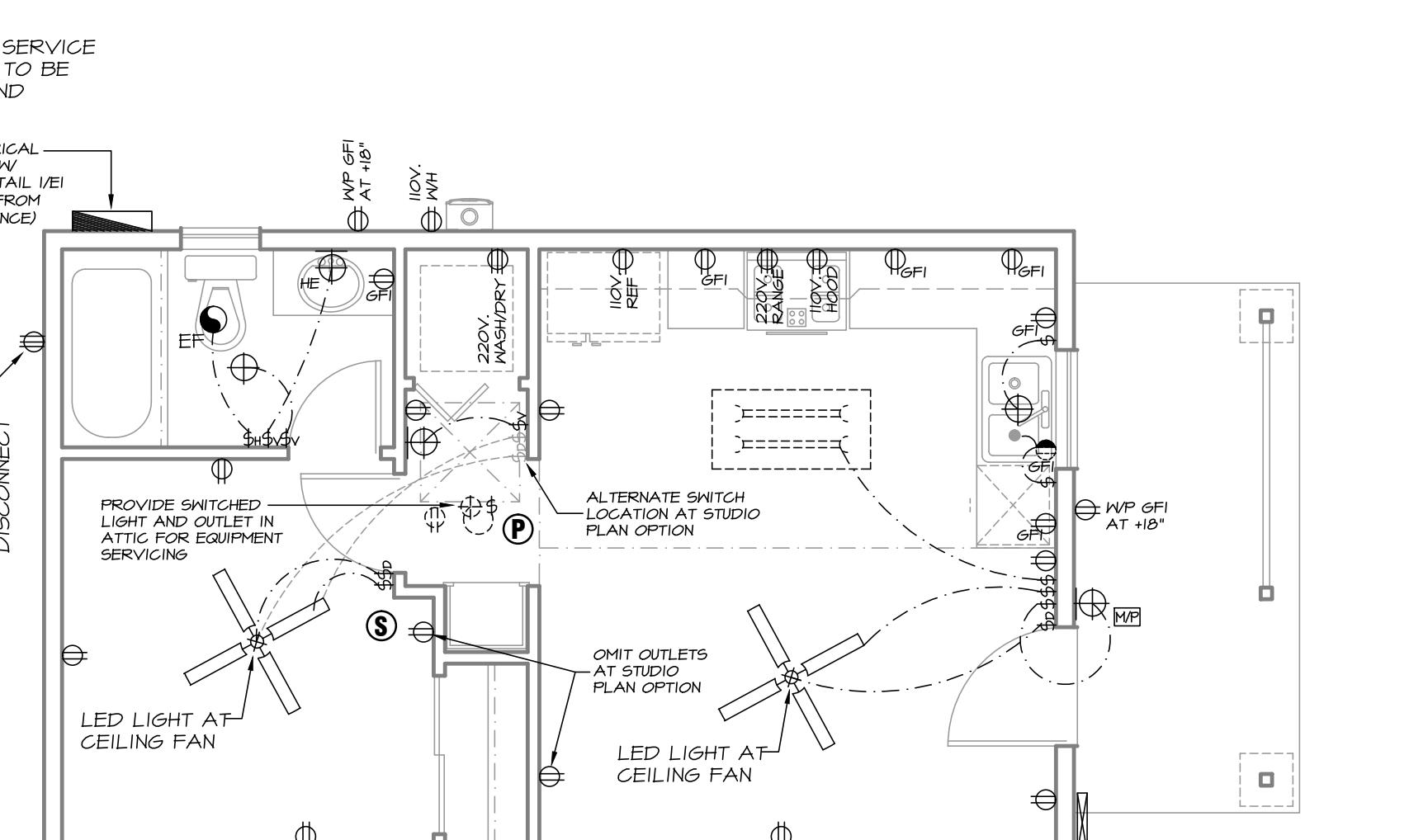


ELECTRICAL CALCULATIONS

AREA OF BUILDING:	318 S.F.
LIGHTING:	1134 WATTS
TWO SMALL APPLIANCES:	3000 WATTS
DISHWASHER:	1000 WATTS
DISPOSAL 1/2 H.P.:	500 WATTS
CLOTHES WASHER:	1500 WATTS
CLOTHES DRYER:	5000 WATTS
MICROWAVE:	1500 WATTS
RANGE:	12000 WATTS
SUBTOTAL	256241 WATTS
PER TABLE 220-30 NEC:	
FIRST 100% AT 100%:	10000 WATTS
REMAINING 15634 AT 40%:	6254 WATTS
TOTAL COMPUTED LOAD:	16254 WATTS
7.07 AMPS	
A/C UNIT 20 FLA AT 120%:	25.0 AMPS
TOTAL AMPS REQUIRED:	95.7 AMPS

PROVIDE 100 AMP ELECTRICAL SERVICE PANEL. SERVICE RATING AT 120/240 VOLTS, 3 PHASE, 4 WIRE. THREE WIRE WITH #4 COPPER GROUND. SEE DETAIL 1/E1 FOR UFER GROUND REQUIREMENTS.

ELECTRICAL SYMBOL SCHEDULE	
①	DUPLEX RECEPTACLE, WALL MOUNTED +12", 15a 3w
②	DUPLEX RECEPTACLE, 1/2 SWITCHED, +12", 15a 3w
③	220 V SPECIAL OUTLET MOUNTED +12"
④	JUNCTION BOX, MOUNTED +12"
⑤	PUSH BUTTON, LOW VOLTAGE, MOUNTED +54"
⑥	SWITCH, SINGLE POLE MOUNTED +54"
⑦	3-WAY SWITCH
⑧	DIMMER SWITCH
⑨	HUMIDISTAT SWITCH (SEE NOTES)
⑩	VACANCY SENSOR SWITCH
⑪	RECESSED LED CAN LIGHT FIXTURE
⑫	CEILING MOUNTED LED LIGHT FIXTURE
⑬	WALL MOUNTED BRACKET LED LIGHT
⑭	MOTION SENSOR W/ PHOTO CELL
⑮	SMOKE DETECTOR, CEILING MOUNTED
⑯	CARBON MONOXIDE DETECTOR, CEILING MOUNTED
⑰	COMBINATION SMOKE DETECTOR / CARBON MONOXIDE DETECTOR
⑱	GAS OUTLET
⑲	EXHAUST FAN (SEE ALSO SHEET M1)
⑳	ELECTRIC VEHICLE (EV) CHARGING STATION. (SEE NOTE)
㉑	SERVICE ENTRANCE WITH UFER GROUND
㉒	ILLUMINATED ADDRESS SIGN. NUMBERS TO BE MIN. OF 4" HIGH USING A MIN 1/2" STROKE WIDTH



ELECTRICAL PLAN

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

CWB DESIGNS
3838 N. CHICKADEE AVE.
SANGER, CA 93657
PHONE: 559.294.6534

STANDARD PLAN #2 FOR:
CITY OF CHOWCHILLA
130 S 2ND STREET
CHOWCHILLA, CA 93610
PHONE: 559-665-8615

MECHANICAL

M1

OF 19

PLAN 2

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DATE: 06-17-2022

MINIMUM FRESH AIR

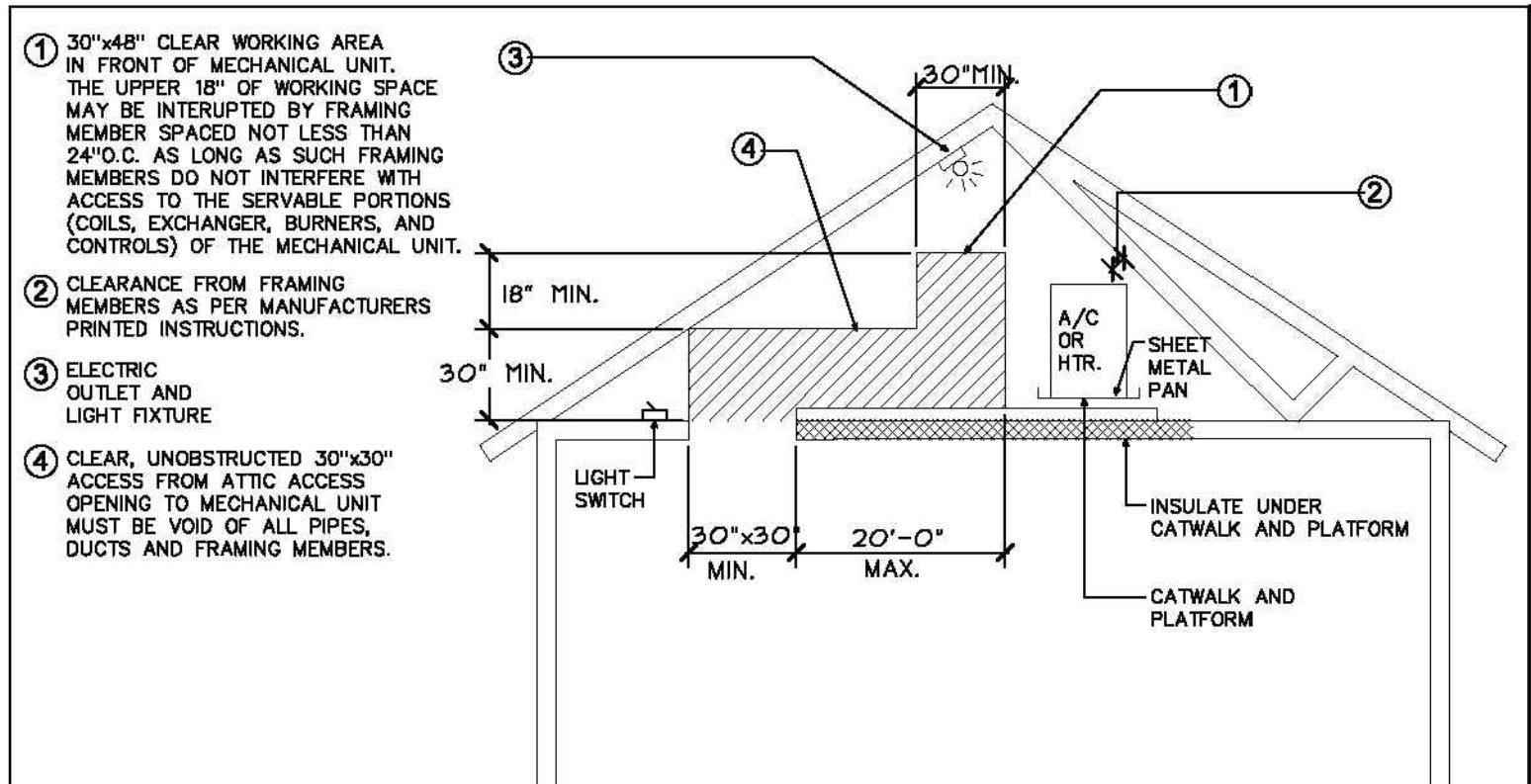
Enter Eq. 4.1a Calculation:
 $A_{\text{floor}} = 397$
 $N_{\text{br}} = 1$
 $Q_{\text{fan}} = 40$

(Eq. 4.1a)
 $Q_{\text{fan}} = 0.03A_{\text{floor}} + 7.5(N_{\text{br}} + 1)$

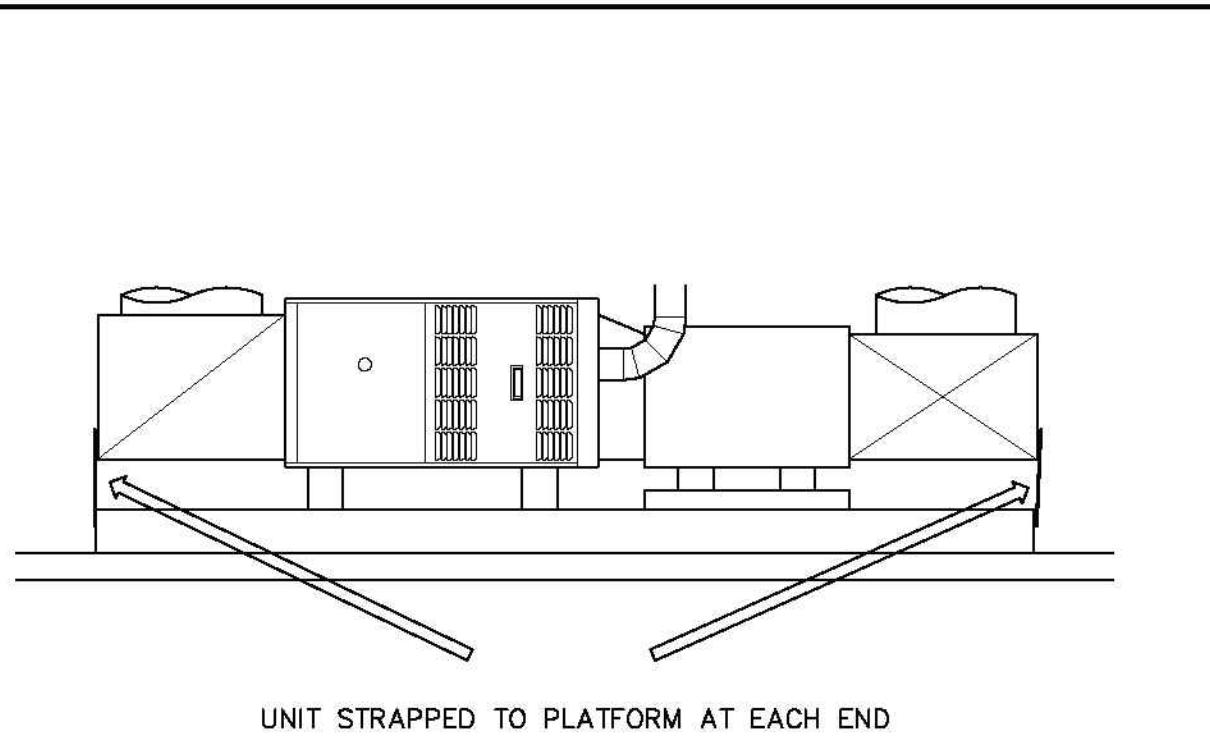
Where:
 $A_{\text{floor}} = \text{conditioned floor area, ft}^2$
 $N_{\text{br}} = \text{number of bedrooms; not to be less than one}$
 $Q_{\text{fan}} = \text{ventilation air requirement = fan flow rate, (cfm)}$

MECHANICAL NOTES

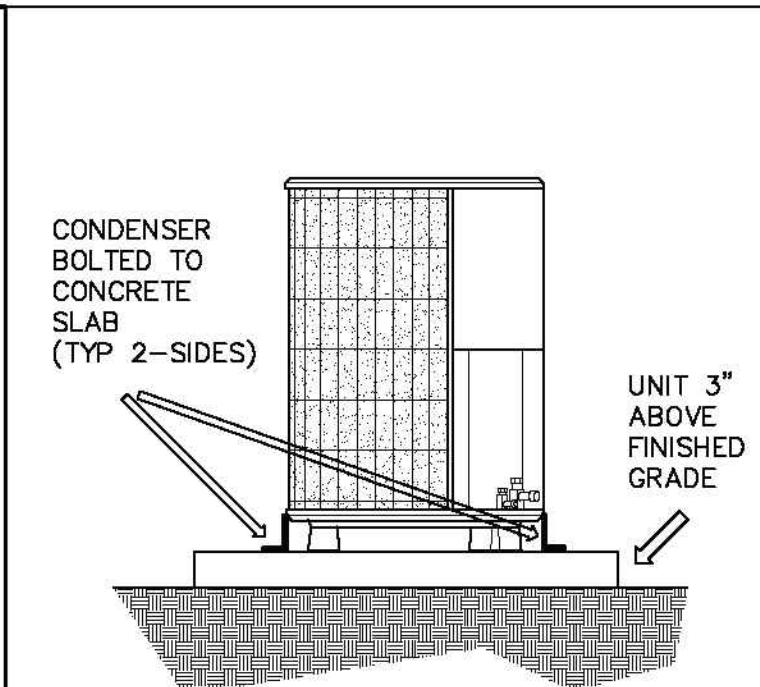
- FURNACE TO BE SECURELY FASTENED TO BUILDING PLATFORM.
- A COMPLETED "REGISTERED" CF36 FORM TO BE SUBMITTED PRIOR TO FINAL INSPECTION, SIGNED BY THE CERTIFIED HERS RATER, FOR FIELD VERIFICATION AND DIAGNOSTIC TESTING.
- AFTER INSTALLING WATER HEATING SYSTEMS, FURNACE, AND HUMIDIFIER, THE INSTALLER SHALL POST IN A CONSPICUOUS LOCATION AN "INSTALLATION CERTIFICATE" (CF2R FORM), COMPLETED AND SIGNED BY THE INSTALLER, LISTING THE EQUIPMENT INSTALLED (MANUFACTURER, MODEL, AND EFFICIENCIES, I-U VALUES, AND SHOT VALUES, ETC.) AND THAT IT MEETS OR EXCEEDS THE REQUIREMENTS OF THE ENERGY DOCUMENTATION. (CEES section 10-103(c)(3)). REGISTERED COPIES SHALL BE PROVIDED WHEN HERS VERIFICATION IS REQUIRED.
- ELECTRICAL CONTRACTOR TO PROVIDE LIGHT FIXTURE WITH SWITCH AT ATTIC ACCESS.
- MINIMUM 30"X30" ATTIC ACCESS DOOR REQUIRED FOR ATTIC MOUNTED FURNACE.
- ANY CATWALKS TO ATTIC MOUNTED MECHANICAL EQUIPMENT TO BE MINIMUM 24" WIDE (NOT TO EXCEED 20" LONG).
- ALL ATTIC MOUNTED MECHANICAL EQUIPMENT TO HAVE A MINIMUM 30" CLEAR IN FRONT FOR SERVICE (BY 48" HIGH).
- ALL BEDROOM DOORS TO UNDERCUT TO ALLOW FOR AIR RETURN.
- SMOKE DETECTOR PROVIDED FOR THE PROTECTION OF THE SLEEPING ROOMS IS REQUIRED TO BE PLACED IN FRONT OF THE RETURN GRILLE.
- CONTRACTOR SHALL PROVIDE THE ORIGINAL OCCUPANT WITH A LIST OF THE HEATING, COOLING, WATER HEATING, LIGHTING SYSTEMS, AND CONSERVATION OR SOLAR DEVICES INSTALLED IN THE BUILDING AND INSTRUCTIONS ON HOW TO USE THEM EFFICIENTLY.
- ALL KITCHENS AND BATHROOMS SHALL HAVE LOCAL EXHAUST SYSTEMS VENTED TO THE OUTDOORS, EACH LOCAL VENTILATION SYSTEM SHALL BE EITHER INTERMITTENT OR CONTINUOUS MECHANICAL EXHAUST SYSTEMS. KITCHEN HOOD EXHAUST AIR FLOW RATE TO BE 100 CFM.
- ALL INLETS THAT ARE PART OF THE VENTILATION SYSTEM SHALL BE LOCATED A MINIMUM OF 10 FEET FROM KNOWN SOURCES OF CONTAMINATION SUCH AS STACK, VENT, EXHAUST HOOD OR VEHICLE EXHAUST.
- MECHANICAL SYSTEMS INCLUDING HEATING AND AIR CONDITIONING SYSTEMS THAT SUPPLY AIR TO HABITABLE SPACES SHALL HAVE MERV 6 FILTERS OR BETTER.
- WHEN A LIVING SPACE ADJACENTS A GARAGE, THE DESIGN MUST PREVENT MIGRATION OF CONTAMINANTS FROM THE GARAGE TO THE ADJOINING LIVING SPACE. DOORS BETWEEN THE LIVING SPACE AND THE GARAGE SHALL HAVE GASKETS INSTALLED OR MADE SUBSTANTIALLY AIRTIGHT WITH WEATHER-STRIPPING.
- MINIMUM 50 CFM EXHAUST FAN (VENTED TO EXTERIOR) WITH INTERMITTENT SWITCH REQUIRED AT ALL BATHROOMS AND LAUNDRY PER SHAE 62-2-2004.
- KITCHEN HOOD TO HAVE A MINIMUM 100 CFM @ 3 SONES (VENTED TO EXTERIOR).
- AIR CONDITIONING EQUIPMENT DESIGNED TO BE IN A FIXED POSITION SHALL BE SECURELY FASTENED, PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALLATION INSTRUCTIONS SHALL BE PROVIDED TO THE FIELD INSPECTOR (CMC SECTION 903.4).
- CONDENSING UNITS SHALL NOT BE PLACED WITHIN 5 FEET OF A DRYER VENT.
- DUCT INSTALLATION MUST COMPLY WITH 2016 CALIFORNIA CODE SECTIONS 601-605 AND CALIFORNIA BUILDING ENERGY EFFICIENT STANDARDS EFFECTIVE JANUARY, 2017.
- MANDATORY HERS TESTING FOR NEW DUCTED SYSTEMS (MAXIMUM LEAKAGE: 5%).
- PICTURES ABOVE BATHROOMS: NO PART OF CORDS CONNECTED FIXTURES, HANGING FIXTURES, TRACK LIGHTING, PENDANTS, OR CEILING FANS SHALL BE LOCATED DIRECTLY ABOVE A BATHROOM AND WITHIN A ZONE MEASURED 12 FEET HORIZONTAL AND 8 FEET VERTICALLY FROM THE BATH-TUB RIM. (CEC 401.1(D)).
- FOR ATTIC MOUNTED FURNACES:
 - PROVIDE MINIMUM 24" WIDE SOLID FLOORING CATWALK FROM THE ATTIC ACCESS TO THE FURNACE PLATFORM ON THE CONTROL SIDE OF THE FURNACE.
 - PROVIDE 30"X30" ATTIC ACCESS WITHIN 20' OF FURNACE ACCESS MAY BE SMALLER, PROVIDED FURNACE ACCESS WILL PASS THROUGH. (PROVIDE DOCUMENTATION)
 - SEE ELECTRICAL PLAN FOR LIGHT AND ELECT. RECEPTACLE LOCATION
 - PROVIDE CONDENSATE Drip PAN AND OVERFLOW LINES FOR COOLING COILS
- AFTER INSTALLING HVAC EQUIPMENT AND WATER HEATING SYSTEMS, THE INSTALLER SHALL POST IN A CONSPICUOUS LOCATION AT THE BUILDING SITE, AN "INSTALLATION CERTIFICATE" (CF2R FORM), SIGNED BY THE INSTALLER, LISTING THE EQUIPMENT INSTALLED (MANUFACTURER, MODEL AND EFFICIENCIES) AND THAT IT MEETS OR EXCEEDS THE REQUIREMENTS OF THE ENERGY DOCUMENTATION.
- AIR CONDITIONING EQUIPMENT DESIGNED TO BE IN A FIXED POSITION SHALL BE SECURELY FASTENED TO THE STRUCTURE.
- WHERE MECHANICAL VENTILATION IS USED IN BATHROOMS, EXHAUST FAN SHALL PROVIDE A MIN. OF FIVE AIR CHANGES PER HOUR, VENTED DIRECTLY TO THE OUTSIDE. THE POINT OF DISCHARGE OF EXHAUST AIR SHALL BE AT LEAST 5 FEET FROM ANY MECHANICAL VENTILATION INTAKE AND 3 FEET MIN. FROM PROPERTY LINES.
- CLOTHES DRYER SHALL BE VENTED TO EXTERIOR OF DRYER PER CMC 504.4, AND DRYER DUCTS SHALL NOT EXCEED 6' DIAMETER, AND A VERTICAL LENGTH OF 14 FEET, 2 FEET SHALE BE DUCTED FOR EACH 90 DEGREE ELBOW IN EXCESS OF TWO, WHERE A DRYER SPACE IS PROVIDED, A MIN. 4 INCH DRYER VENT MUST BE INSTALLED.
- ALL DUCTS SHALL BE CONSTRUCTED, INSTALLED AND INSULATED PER CHAPTER 6 OF THE CURRENT C.M.C.



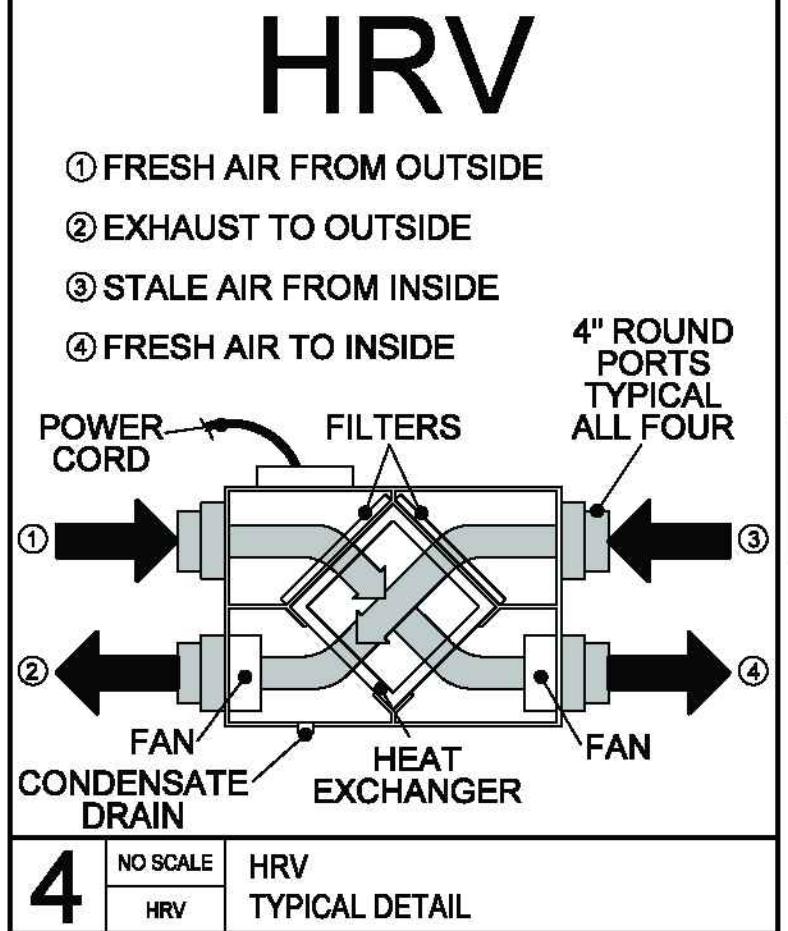
1 NO SCALE ATTIC A/C OR HEATER ACCESS REQUIREMENT
HORIZ DET. BULLETIN B-236 3-1-94



2 NO SCALE HORIZONTAL FURNACE
HORIZ DET. MOUNTING DETAIL



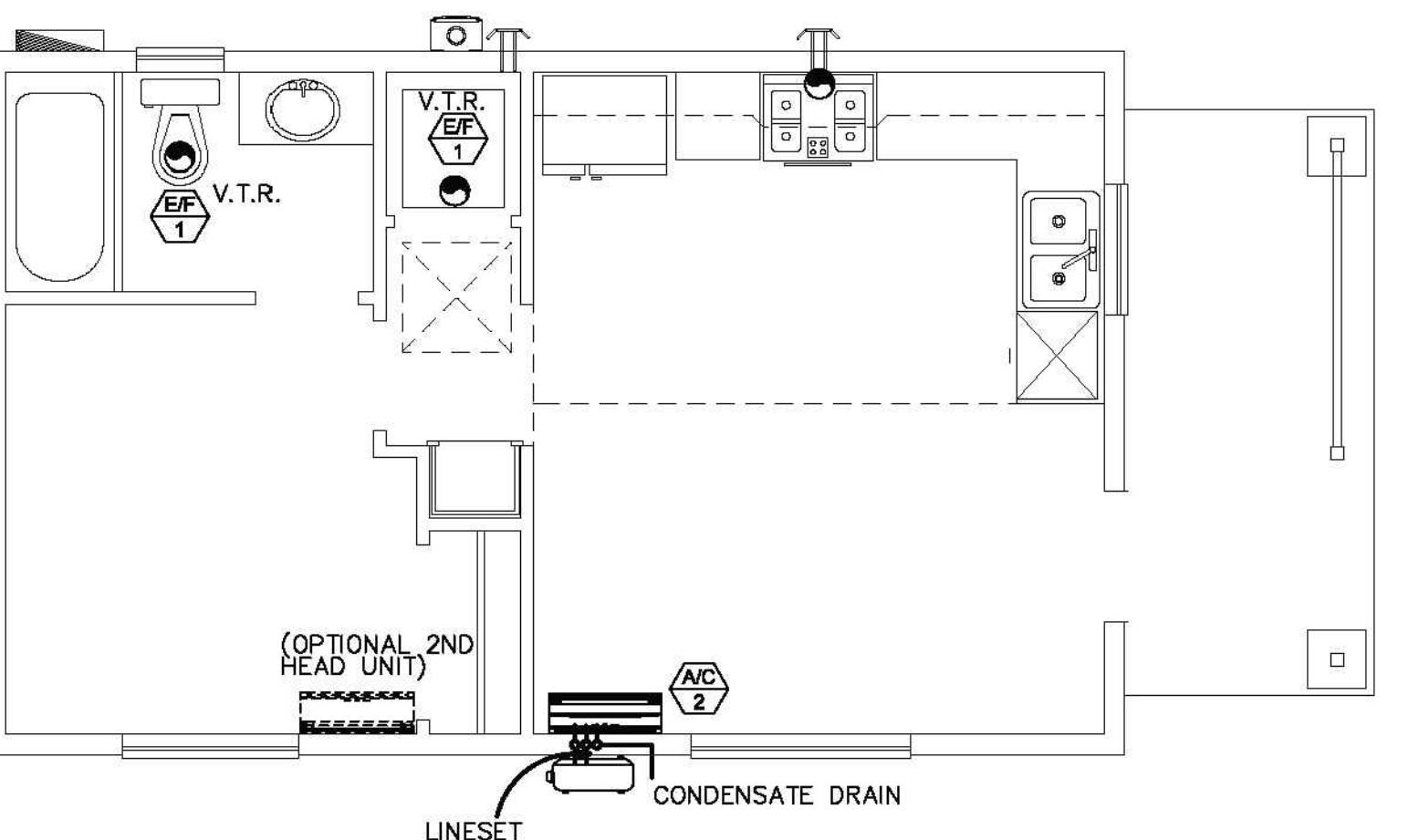
3 NO SCALE CONDENSER
COND. DETAIL MOUNTING DETAIL



4 NO SCALE HRV
HRV TYPICAL DETAIL

MECHANICAL PLAN - STD. SPLIT

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



MECHANICAL PLAN - MINI SPLIT - HEAT PUMP

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

TANKLESS WATER HEATER

0.91 - UEF

HERS VERIFICATIONS

- VERIFIED EER
- VERIFIED AIRFLOW
- DUCT LEAKAGE (5%)
- VERIFIED REFRIGERANT CHARGE
- QUALITY INSULATION INSTALLATION INSPECTION
- FAN EFFICACY WATTS/CFM
- IAQ
- BUILDING ENVELOPE AIR LEAKAGE @ ACH50
- VERIFIED SEER
- LOW LEAKAGE AIR HANDLER
- KITCHEN RANGE HOOD

(DUCTLESS SYSTEM)

■ INDICATES REQUIRED HERS VERIFICATION

EQUIPMENT SCHEDULE

1.5 TON - HEAT PUMP
DUCTLESS MINI SPLIT

HPSF: 9
SEER: 16
EER: 10.8
-
-
-

AIRZONE EXHAUST FANS

R-8.0

PERFORMANCE RATINGS

HVI PERFORMANCE

SYMBOL	MODEL	STATIC PRESSURE (Pa)	CFM	SONES	WATTS
	SE090	0.10	90	0.3	23.3
	SE110	0.25	110	0.6	33.5
	SE140	0.25	140	1.1	51.3

AIRKING EXHAUST FAN

HVI PERFORMANCE

PERFORMANCE RATINGS

HVI PERFORMANCE

SYMBOL	MODEL	STATIC PRESSURE (Pa)	CFM	SONES	WATTS
	BFQ50	0.25	30	0.5	28

(DUCTED SYSTEM)

■ INDICATES REQUIRED HERS VERIFICATION

EQUIPMENT SCHEDULE

1.5 TON - SPLIT SYSTEM

15.0 SEER
12.0 EER
18,000 BTU COOLING
-
FURNACE: 80% AFUE
-
-
-

REVISIONS
REV. DATE
NEW 6/17/22
ENG 6/17/22
SUB 6/17/22

CWB DESIGNS
3838 N. CHICKADEE AVE.
SANGER, CA 93657
PHONE: 559.294.6534

STANDARD PLAN #2 FOR:
130 S 2ND STREET
CHOWCHILLA, CA 93610
PHONE: 559-665-8615

SHEET

**M.1 DUCTLESS
OF 19 ENERGY FORMS**

REVISIONS
REV. DATE
REV. 05/22
REV. 05/22
SUB. 06/17/22

DRAWING FILE
FILE PLAN 2 AMB1

PLAN

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<p>CERTIFICATE OF COMPLIANCE Project Name: Plan 2 - v-Mini Split Calculation Date/Time: 2022-06-16T13:50:12-07:00 Input File Name: Plan 2 - Mini Split HP - v2019.rbd19x</p> <p>CFIR-PRF-01E (Page 1 of 10)</p> <p>GENERAL INFORMATION</p> <table border="1"> <tr><td>01</td><td>Project Name</td><td>Plan 2 - v-Mini Split</td></tr> <tr><td>02</td><td>Run Title</td><td>Title 24 Analysis</td></tr> <tr><td>03</td><td>Project Location</td><td>TBD</td></tr> <tr><td>04</td><td>City</td><td>Chowchilla</td></tr> <tr><td>05</td><td>Zip code</td><td>93610</td></tr> <tr><td>06</td><td>Software Version</td><td>EnergyPro 8.3</td></tr> <tr><td>07</td><td>Climate Zone</td><td>13</td></tr> <tr><td>08</td><td>Building Type</td><td>Single Family</td></tr> <tr><td>09</td><td>Project Scope</td><td>New Construction</td></tr> <tr><td>10</td><td>Number of Dwelling Units</td><td>1</td></tr> <tr><td>11</td><td>Number of Bedrooms</td><td>1</td></tr> <tr><td>12</td><td>Number of Dwelling Units</td><td>1</td></tr> <tr><td>13</td><td>Number of Stories</td><td>1</td></tr> <tr><td>14</td><td>Addition Cond. Floor Area (ft²)</td><td>0</td></tr> <tr><td>15</td><td>Existing Cond. Floor Area (ft²)</td><td>0</td></tr> <tr><td>16</td><td>Penetration Average U-factor</td><td>0.3</td></tr> <tr><td>17</td><td>Total Cond. Floor Area (ft²)</td><td>378</td></tr> <tr><td>18</td><td>Glazing Percentage (%)</td><td>13.89%</td></tr> <tr><td>19</td><td>ADU Bedroom Count (n/a)</td><td>0</td></tr> <tr><td>20</td><td>ADU Bedroom Count (n/a)</td><td>0</td></tr> <tr><td>21</td><td>ADU Conditional Floor Area (n/a)</td><td>0</td></tr> <tr><td>22</td><td>Is Natural Gas Available? Yes</td><td>Yes</td></tr> </table> <p>COMPLIANCE RESULTS</p> <table border="1"> <tr><td>01</td><td>Building Complies with Computer Performance</td></tr> <tr><td>02</td><td>This building incorporates features that require field testing and/or verification by a certified HERS Rater under the supervision of a CEC-approved HERS provider.</td></tr> <tr><td>03</td><td>This building incorporates one or more Special Features shown below</td></tr> </table> <p>• Standard Design PV Capacity: 2.03 kWdc • Proposed PV Capacity Scaling: North (2.03 kWdc) East (2.03 kWdc) South (2.03 kWdc) West (2.03 kWdc)</p>		01	Project Name	Plan 2 - v-Mini Split	02	Run Title	Title 24 Analysis	03	Project Location	TBD	04	City	Chowchilla	05	Zip code	93610	06	Software Version	EnergyPro 8.3	07	Climate Zone	13	08	Building Type	Single Family	09	Project Scope	New Construction	10	Number of Dwelling Units	1	11	Number of Bedrooms	1	12	Number of Dwelling Units	1	13	Number of Stories	1	14	Addition Cond. Floor Area (ft ²)	0	15	Existing Cond. Floor Area (ft ²)	0	16	Penetration Average U-factor	0.3	17	Total Cond. Floor Area (ft ²)	378	18	Glazing Percentage (%)	13.89%	19	ADU Bedroom Count (n/a)	0	20	ADU Bedroom Count (n/a)	0	21	ADU Conditional Floor Area (n/a)	0	22	Is Natural Gas Available? Yes	Yes	01	Building Complies with Computer Performance	02	This building incorporates features that require field testing and/or verification by a certified HERS Rater under the supervision of a CEC-approved HERS provider.	03	This building incorporates one or more Special Features shown below	<p>CERTIFICATE OF COMPLIANCE Project Name: Plan 2 - v-Mini Split Calculation Date/Time: 2022-06-16T13:50:12-07:00 Input File Name: Plan 2 - Mini Split HP - v2019.rbd19x</p> <p>CFIR-PRF-01E (Page 2 of 10)</p> <p>ENERGY DESIGN RATING</p> <table border="1"> <tr><th colspan="2">Energy Design Ratings</th></tr> <tr><th>Efficiency (EDR)</th><th>Total^a (EDR)</th><th>Efficiency (EDR)</th><th>Total^a (EDR)</th></tr> <tr><td>Standard Design</td><td>54.8</td><td>26.6</td><td></td></tr> <tr><td>Proposed Designs</td><td></td><td></td><td></td></tr> <tr><td>North Facing</td><td>53.1</td><td>24.9</td><td>1.7</td></tr> <tr><td>East Facing</td><td>53.2</td><td>25</td><td>1.6</td></tr> <tr><td>South Facing</td><td>51.9</td><td>23.8</td><td>2.9</td></tr> <tr><td>West Facing</td><td>54.3</td><td>26.2</td><td>0.5</td></tr> <tr><td>RESULAT^b COMPLIES</td><td></td><td></td><td></td></tr> </table> <p>^aEfficiency (EDR) includes the impact of the building envelope and the efficiency of equipment. ^bBuilding complies with efficiency and total compliance margins are greater than or equal to zero</p>		Energy Design Ratings		Efficiency (EDR)	Total ^a (EDR)	Efficiency (EDR)	Total ^a (EDR)	Standard Design	54.8	26.6		Proposed Designs				North Facing	53.1	24.9	1.7	East Facing	53.2	25	1.6	South Facing	51.9	23.8	2.9	West Facing	54.3	26.2	0.5	RESULAT ^b COMPLIES																																																						
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<p>CERTIFICATE OF COMPLIANCE Project Name: Plan 2 - v-Mini Split Calculation Date/Time: 2022-06-16T13:50:12-07:00 Input File Name: Plan 2 - Mini Split HP - v2019.rbd19x</p> <p>CFIR-PRF-01E (Page 9 of 10)</p> <p>HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY</p> <table border="1"> <tr><td>Project Name</td><td>Plan 2 - v-Mini Split</td><td>Date</td><td>6/16/2022</td></tr> <tr><td>System Name</td><td>HVAC</td><td>System Type</td><td>Heat Pump</td></tr> <tr><td>Number of Systems</td><td>1</td><td>System Load</td><td>378</td></tr> <tr><td>Heating System</td><td></td><td>COIL, COOLING PEAK</td><td>COIL, HTG. PEAK</td></tr> <tr><td>Output per System</td><td>10,000</td><td>CFM</td><td>CFM</td></tr> <tr><td>Total Output (Btu/h)</td><td>10,000</td><td>Sensible</td><td>Latent</td></tr> <tr><td>Output per Duct</td><td>2,000</td><td></td><td></td></tr> <tr><td>Total Output (Btu/h)</td><td>9,000</td><td></td><td></td></tr> <tr><td>Total Output (Tons)</td><td>0.8</td><td></td><td></td></tr> <tr><td>Total Output (Btu/h/Ton)</td><td>23.0</td><td></td><td></td></tr> <tr><td>Total Output (ft³/min)</td><td>504</td><td></td><td></td></tr> <tr><td>Air System</td><td></td><td colspan="2">HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY</td></tr> <tr><td>Airflow (cfm)</td><td>400</td><td colspan="2">HVAC SYSTEM SELECTION</td></tr> <tr><td>Airflow (cfm)</td><td>400</td><td>CFM</td><td>CFM</td></tr> <tr><td>Airflow (cfm)</td><td>1.05</td><td>CFM</td><td>CFM</td></tr> <tr><td>Airflow (cfm)</td><td>533</td><td>CFM</td><td>CFM</td></tr> <tr><td>Outside Air (%)</td><td>0.0%</td><td colspan="2">HVAC SYSTEM SELECTION</td></tr> <tr><td>Outside Air (cfm)</td><td>0.00</td><td>CFM</td><td>CFM</td></tr> <tr><td>Total Adjusted System Output</td><td>6,507</td><td>1,512</td><td>5,514</td></tr> <tr><td>Note: values above given as AS conditions</td><td colspan="3">(Adjusted for Peak Design Conditions)</td></tr> <tr><td>TIME OF SYSTEM PEAK</td><td colspan="3">Aug (3 PM) Jan (AM)</td></tr> </table> <p>HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)</p> <p>COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)</p>		Project Name	Plan 2 - v-Mini Split	Date	6/16/2022	System Name	HVAC	System Type	Heat Pump	Number of Systems	1	System Load	378	Heating System		COIL, COOLING PEAK	COIL, HTG. PEAK	Output per System	10,000	CFM	CFM	Total Output (Btu/h)	10,000	Sensible	Latent	Output per Duct	2,000			Total Output (Btu/h)	9,000			Total Output (Tons)	0.8			Total Output (Btu/h/Ton)	23.0			Total Output (ft ³ /min)	504			Air System		HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY		Airflow (cfm)	400	HVAC SYSTEM SELECTION		Airflow (cfm)	400	CFM	CFM	Airflow (cfm)	1.05	CFM	CFM	Airflow (cfm)	533	CFM	CFM	Outside Air (%)	0.0%	HVAC SYSTEM SELECTION		Outside Air (cfm)	0.00	CFM	CFM	Total Adjusted System Output	6,507	1,512	5,514	Note: values above given as AS conditions	(Adjusted for Peak Design Conditions)			TIME OF SYSTEM PEAK	Aug (3 PM) Jan (AM)																																																																													
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SHEET

**M.1 DUCTLESS
OF 19 ENERGY FORMS**

STANDARD PLAN #2 FOR:

**130 S 2ND STREET
CHOWCHILLA, CA 93610
PHONE: 55**

DATE: 06-17-2022

CWB DESIGNS

3838 N. CHICKADEE AVE.

SANGER, CA 93657

PHONE: 559.294.6534

STANDARD PLAN #2 FOR:

CITY OF CHOWCHILLA

130 S 2ND STREET

CHOWCHILLA, CA 93610

PHONE: 559-665-8615

CGB GREEN STANDARDS

SHEET

OF 19

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2019 CALIFORNIA GREEN BUILDING STANDARDS

SECTION 4.106 SITE DEVELOPMENT

4.106.1 GENERAL. PRESERVATION AND USE OF AVAILABLE NATURAL RESOURCES SHALL BE ACCOMPLISHED THROUGH EVALUATION AND CAREFUL PLANNING TO MINIMIZE NEGATIVE EFFECTS ON THE SITE AND ADJACENT AREAS. PRESERVATION OF SLOPES, MANAGEMENT OF STORM WATER DRAINAGE AND EROSION CONTROLS SHALL COMPLY WITH THIS SECTION.

4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION.

PROJECTS WHICH DISTURB LESS THAN ONE ACRE OF SOIL AND ARE NOT PART OF A LARGER COMMON PLAN OF DEVELOPMENT WHICH IN TOTAL DISTURBS ONE ACRE OR MORE, SHALL MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION, IN ORDER TO MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION, ONE OR MORE OF THE FOLLOWING MEASURES SHALL BE IMPLEMENTED TO PREVENT FLOODING OF ADJACENT PROPERTY, PREVENT EROSION AND RETAIN SOIL RUNOFF ON THE SITE:

1. RETENTION BASINS OF SUFFICIENT SIZE SHALL BE UTILIZED TO RETAIN STORM WATER ON THE 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 ORDINANCE.

4.106.3 GRADING AND PAVING. CONSTRUCTION PLANS SHALL INDICATE HOW THE SITE GRADING OR DRAINAGE SYSTEM WILL MANAGE ALL SURFACE WATER FLOWS TO KEEP WATER FROM ENTERING BUILDINGS. EXAMPLES OF METHODS TO MANAGE SURFACE WATER INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

1. SWALES;
2. WATER COLLECTION AND DISPOSAL SYSTEMS;
3. FRENCH DRAINS;
4. WATER RETENTION GARDENS.

5. OTHER WATER MEASURES WHICH KEEP SURFACE WATER AWAY FROM BUILDINGS AND AID IN GROUNDWATER RECHARGE. EXCEPTION: ADDITIONS AND ALTERATIONS NOT ALTERING THE DRAINAGE PATH.

4.106.4 ELECTRIC VEHICLE (EV) CHARGING FOR NEW CONSTRUCTION.

NEW CONSTRUCTION SHALL COMPLY WITH SECTION 4.106.4.1 AND 4.106.4.2 TO FACILITATE FUTURE INSTALLATION AND USE OF EV. ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE) SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE, ARTICLE 626. EXCEPTIONS: ON A CASE-BY-CASE BASIS, WHERE THE LOCAL ENFORCING AGENCY HAS DETERMINED EV CHARGING AND INFRASTRUCTURE ARE NOT FEASIBLE BASED UPON ONE OR MORE OF THE FOLLOWING CONDITIONS:

1. WHERE THERE IS NO COMMERCIAL POWER SUPPLY;
2. WHERE THERE IS EVIDENCE SUBSTANTIATING THAT MEETING THE REQUIREMENTS WILL ALTER THE LOCAL UTILITY INFRASTRUCTURE;
3. DESIGN REQUIREMENTS ON THE UTILITY SIDE OF THE METER SO AS TO INCREASE THE UTILITY SIDE COST TO THE HOMEOWNER OR THE DEVELOPER BY MORE THAN \$400.00 PER DWELLING UNIT.

4.106.4.1 NEW ONE- AND TWO-FAMILY DWELLINGS AND TOWNHOUSES WITH ATTACHED PRIVATE GARAGES, 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. THE RACEWAY SHALL BE SECURED TO THE CONCRETE OR METAL SUBSTRATE AND SHALL BE 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 SPACES RESERVED TO PERMIT INSTALLATION OF A BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE.

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

4.106.4.2 NEW MULTIFAMILY DWELLINGS. WHERE 17 OR MORE MULTIFAMILY DWELLING UNITS ARE CONSTRUCTED ON A BUILDING SITE, 3 PERCENT OF THE TOTAL NUMBER OF PARKING SPACES PROVIDED FOR ALL TYPES OF PARKING FACILITIES, BUT IN NO CASE LESS THAN ONE, SHALL BE ELECTRIC VEHICLE CHARGING SPACES (EV SPACES) CAPABLE OF SUPPORTING FUTURE EV. CALCULATIONS FOR THE REQUIRED NUMBER OF EV SPACES SHALL BE ROUNDED UP TO THE NEAREST WHOLE NUMBER.

NOTE: CONSTRUCTION DOCUMENTS ARE INTENDED TO DEMONSTRATE THE PROJECT'S CAPABILITY AND CAPACITY FOR FACILITATING FUTURE EV CHARGING. THERE IS NO REQUIREMENT FOR EV SPACES TO BE CONSTRUCTED OR AVAILABLE UNTIL EV CHARGERS ARE PROVIDED FOR ALL TYPES OF PARKING FACILITIES, BUT IN NO CASE LESS ARE INSTALLED FOR USE.

4.106.4.2.1 ELECTRIC VEHICLE CHARGING SPACE (EV SPACE) LOCATIONS. CONSTRUCTION DOCUMENTS SHALL INDICATE THE LOCATION OF PROPOSED EV SPACES. AT LEAST ONE EV SPACE SHALL BE LOCATED IN COMMON USE AREAS AND AVAILABLE FOR USE BY ALL RESIDENTS, WHEN EV CHARGERS ARE INSTALLED, EV SPACES REQUIRED BY SECTION 4.106.4.2.1, ITEM 3, SHALL COMPLY WITH AT LEAST ONE OF THE FOLLOWING OPTIONS:

1. THE EV SPACE SHALL BE LOCATED ADJACENT TO AN ACCESSIBLE PARKING SPACE MEETING THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, CHAPTER 11A, TO ALLOW USE OF THE EV CHARGER FROM THE ACCESSIBLE PARKING SPACE.

2. THE EV SPACE SHALL BE LOCATED ON AN ACCESSIBLE ROUTE, AS DEFINED IN THE CALIFORNIA BUILDING CODE, CHAPTER 2, TO THE BUILDING.

4.106.4.2.2 ELECTRIC VEHICLE CHARGING SPACE (EV SPACE) DIMENSIONS. THE EV SPACES SHALL BE DESIGNED TO COMPLY WITH THE FOLLOWING:

1. THE MINIMUM LENGTH OF EACH EV SPACE SHALL BE 18 FEET (5486 MM).
2. THE MINIMUM WIDTH OF EACH EV SPACE SHALL BE 9 FEET (2743 MM).
3. ONE IN EVERY 25 EV SPACES, BUT NOT LESS THAN ONE, SHALL ALSO HAVE AN 8-FOOT (2438 MM) WIDE MINIMUM AISLE.

a. SURFACE SLOPE FOR THIS EV SPACE AND THE AISLE SHALL NOT EXCEED 1 UNIT VERTICAL IN 48 UNITS HORIZONTAL (2.08 PERCENT SLOPE) IN ANY DIRECTION.

4.106.4.2.3 SINGLE EV SPACE REQUIRED. INSTALL A LISTED RACEWAY CAPABLE OF ACCOMMODATING A 208/240-VOLT DEDICATED 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 ENCLOSURE. IN CLOSE PROXIMITY TO THE PROPOSED LOCATION OF THE EV SPACES, CONSTRUCTION DOCUMENTS SHALL IDENTIFY THE RACEWAY TERMINATION POINT. 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 A BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE.

4.106.4.2.4 MULTIPLE EV SPACES REQUIRED. CONSTRUCTION DOCUMENTS SHALL INDICATE THE RACEWAY TERMINATION POINT AND PROPOSED LOCATION OF FUTURE EV SPACES AND EV CHARGERS. CONSTRUCTION DOCUMENTS SHALL ALSO PROVIDE INFORMATION ON AMPERAGE OF FUTURE EVSE, RACEWAY METHOD(S), WIRING SCHEMATICS AND ELECTRICAL LOAD CALCULATIONS.

TO VERIFY THAT THE ELECTRICAL PANEL SERVICE CAPACITY AND ELECTRICAL SYSTEM, INCLUDING ANY ON-SITE DISTRIBUTOR (TRANSFORMER), HAVE SUFFICIENT CAPACITY TO SIMULTANEOUSLY CHARGE ALL EVS AT ALL REQUIRED EV SPACES AT THE FULL RATED AMPERAGE OF THE EVSE, PLAN DESIGN SHALL BE BASED UPON A 40-AMPERE MINIMUM BRANCH CIRCUIT. RACEWAYS AND RELATED COMPONENTS THAT ARE PLANNED TO BE INSTALLED UNDERGROUND, ENCLOSED, INACCESSIBLE OR IN CONCEALED AREAS AND SPACES SHALL BE INSTALLED AT THE TIME OF ORIGINAL CONSTRUCTION.

4.106.4.2.5 IDENTIFICATION. THE SERVICE PANEL OR SUBPANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVERCURRENT PROTECTIVE DEVICE(S) RESERVED FOR FUTURE EV CHARGING PURPOSES AS "EV CAPABLE IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE".

NOTES:

THE CALIFORNIA DEPARTMENT OF TRANSPORTATION ADOPTS AND PUBLISHES THE "CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROLS" (CALIFORNIA MUTC) TO PROVIDE UNIFORM STANDARDS AND SPECIFICATIONS FOR ALL OFFICIAL TRAFFIC CONTROLS. NEVADA, CALIFORNIA, ZERO EMISSION VEHICLE SIGNS AND PAVEMENT MARKINGS CAN BE FOUND IN THE NEW POLICIES & DIRECTIVES NUMBER 13-01, WEBSITE: [HTTP://WWW.DOT.CA.GOV/TRAFFICOPS/POLICY13-01.PDF](http://WWW.DOT.CA.GOV/TRAFFICOPS/POLICY13-01.PDF)

2. SEE VEHICLE CODE SECTION 22511 FOR EV CHARGING SPACE SIGNAGE IN OFF-STREET PARKING FACILITIES AND FOR USE OF EV CHARGING SPACES.

3. THE GOVERNOR'S OFFICE OF PLANNING AND RESEARCH (OPR) PUBLISHED A "ZERO-EMISSION VEHICLE COMMUNITY READINESS GUIDEBOOK" WHICH PROVIDES HELPFUL INFORMATION FOR LOCAL GOVERNMENTS, RESIDENTS AND BUSINESSES. WEBSITE: [HTTP://OPR.CA.GOV/DOCS/ZEV-GUIDEBOOK.PDF](http://OPR.CA.GOV/DOCS/ZEV-GUIDEBOOK.PDF).

SECTION 4.303 INDOOR WATER USE

4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. PLUMBING FIXTURES, (WATER CLOSETS & URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING:

4.303.1.1 WATER CLOSETS. THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS.

NOTE: THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH.

4.303.1.2 URINALS. THE EFFECTIVE FLUSH VOLUME OF WALL MOUNTED URINALS SHALL NOT EXCEED 0.125 GALLONS PER FLUSH. THE EFFECTIVE FLUSH VOLUME OF ALL OTHER URINALS SHALL NOT EXCEED 0.5 GALLONS PER FLUSH.

4.303.1.3 SHOWERHEADS.

4.303.1.3.1 SINGLE SHOWERHEAD. SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 2.0 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.

NOTE: A HAND-HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD.

4.303.1.4 FAUCETS.

4.303.1.4.1 RESIDENTIAL LAVATORY FAUCETS. THE MAXIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT EXCEED 1.2 GALLONS PER MINUTE AT 60 PSI. THE MINIMUM FLOW RATE OF A RESIDENTIAL LAVATORY FAUCET SHALL NOT BE LESS THAN 0.8 GALLONS PER MINUTE AT 20 PSI.

4.303.1.4.2 LAVATORY FAUCETS IN COMMON AND PUBLIC USE AREAS. 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 PER MINUTE AT 60 PSI.

4.303.1.4.3 METERING FAUCETS. METERING FAUCETS WHEN INSTALLED IN RESIDENTIAL BUILDINGS SHALL NOT DELIVER MORE THAN 0.25 GALLONS PER CYCLE.

4.303.1.4.4 KITCHEN FAUCETS. THE MAXIMUM FLOW RATE OF KITCHEN FAUCETS SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI.

NOTE: WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.

SECTION 4.304
OUTDOOR WATER USE

4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS.

AFTER DECEMBER 1, 2015, NEW RESIDENTIAL DEVELOPMENTS WITH AN AGGREGATE LANDSCAPE AREA EQUAL TO OR GREATER THAN 500 SQUARE FEET SHALL COMPLY WITH ONE OF THE FOLLOWING OPTIONS:

1. A LOCAL WATER EFFICIENT LANDSCAPE ORDINANCE OR THE CURRENT CALIFORNIA DEPARTMENT OF WATER RESOURCES' MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO), WHICHEVER IS STRINGENT; OR,
2. PROJECTS WITH AGGREGATE LANDSCAPE AREAS LESS THAN 2,500 SQUARE FEET MAY COMPLY WITH THE MWELO'S APPENDIX D PRESCRIPTIVE COMPLIANCE OPTION.

NOTES:

1. THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) AND SUPPORTING DOCUMENTS ARE AVAILABLE AT <HTTP://WWW.WATER.CA.GOV/WATERUSEEFFICIENCY/LANDSCAPEORDINANCE/>

2. A WATER BUDGET CALCULATOR IS AVAILABLE AT: <HTTP://WWW.WATER.CA.GOV/WATERUSEEFFICIENCY/LANDSCAPEORDINANCE/>

SECTION 4.406
ENHANCED DURABILITY

4.406.1 RODENT PROOFING. ANNUAL SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENINGS IN SPACES THAT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR A SIMILAR METHOD ACCEPTABLE TO THE ENFORCING AGENCY.

SECTION 4.408
CONSTRUCTION WASTE REDUCTION, DIVERSION AND RECYCLING.

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

EXCEPTIONS:

1. EXCAVATED SOIL AND LAND-CLEARING DEBRIS.
2. ALTERNATE WASTE REDUCTION METHODS DEVELOPED BY WORKING WITH LOCAL AGENCIES IF DIVERSION OR RECYCLE FACILITIES CAPABLE OF COMPLIANCE WITH THIS ITEM DO NOT EXIST OR ARE NOT LOCATED REASONABLY CLOSE TO THE JOBSITE.
3. THE ENFORCING AGENCY MAY MAKE EXCEPTIONS TO THE REQUIREMENTS OF THIS SECTION WHEN ISOLATED JOBSITE ARE LOCATED IN AREAS BEYOND THE HAUL BOUNDARIES OF THE DIVERSION FACILITY.

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

1. IDENTIFY THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL BY RECYCLING, REUSE OR DIVERSION IF CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE SORTED ON-SITE (SOURCE-SEPARATED) OR BULK MIXED (SINGLE STREAM).

2. IDENTIFY DIVERSION FACILITIES WHERE THE CONSTRUCTION AND DEMOLITION WASTE MATERIAL WILL BE TAKEN.

3. IDENTIFY CONSTRUCTION METHODS EMPLOYED TO REDUCE THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE GENERATED.

4. SPECIFY THAT THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE DIVERTED SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BY BOTH.

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

NOTE: THE OWNER OR CONTRACTOR MAY MAKE THE DETERMINATION IF THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE DIVERTED BY A WASTE MANAGEMENT COMPANY.

4.408.4 WASTE STREAM REDUCTION ALTERNATIVE (LR). PROJECTS THAT GENERATE A TOTAL COMBINED WEIGHT OF CONSTRUCTION AND DEMOLITION WASTE DISPOSED IN LANDFILLS, WHICH DO NOT EXCEED 3.4 POUNDS PER SQUARE FOOT OF THE BUILDING AREA SHALL MEET THE MINIMUM 65 PERCENT CONSTRUCTION WASTE REDUCTION REQUIREMENT IN SECTION 4.408.1.

4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE. PROJECTS THAT GENERATE A TOTAL COMBINED WEIGHT OF CONSTRUCTION AND DEMOLITION WASTE DISPOSED IN LANDFILLS, WHICH DO NOT EXCEED 2 POUNDS PER SQUARE FOOT OF THE BUILDING AREA, SHALL MEET THE MINIMUM 65 PERCENT CONSTRUCTION WASTE REDUCTION REQUIREMENT IN SECTION 4.408.1.

4.408.5 DOCUMENTATION. DOCUMENTATION SHALL BE PROVIDED TO THE ENFORCING AGENCY WHICH DEMONSTRATES COMPLIANCE WITH SECTION 4.408.2, ITEMS 1 THROUGH 5, SECTION 4.408.3 OR SECTION 4.408.4.

NOTES:

1. SAMPLE FORMS FOUND IN "A GUIDE TO THE CALIFORNIA GREEN BUILDING STANDARDS CODE (RESIDENTIAL)" LOCATED AT <HTTP://WWW.HCD.CA.GOV/CALGREEN.HTML> MAY BE USED TO ASSIST IN DOCUMENTING COMPLIANCE WITH THIS SECTION.

DATE: 06-17-2022

CITY OF CHOWCHILLA
STANDARD PLAN #2 FOR:
130 S 2ND STREET
CHOWCHILLA, CA 93610
PHONE: 559-665-8615

N1
OF 19 TYPICAL NOTES

ENERGY CONSERVATION NOTES:

THE INSULATION SHALL CONFORM TO FLAME-SPREAD INDEX AND SMOKE DEVELOPMENT INDEX REQUIREMENTS OF CRC R302.0.

ALL HEATHER STRIPPING, CAULKING, AND SEALING OF EXTERIOR DOORS, WINDOWS, AND BUILDING ENVELOPES SHALL BE SUBJECT TO FIELD INSPECTION, JOINTS AND PENETRATIONS TO THE EXTERIOR OF THE BUILDING ENVELOPE SHALL BE CAULKED AND SEALED TO LIMIT AIR INFILTRATION.

ALL EXHAUST FANS SHALL HAVE BACK-DRAFT OR AUTOMATIC DAMPERS TO PREVENT AIR LEAKAGE.

ALL MANUFACTURED DOORS AND WINDOWS SHALL BE CERTIFIED AND LABELED. THEY ALSO SHALL BE DUAL PANE UNLESS NOTED, (SEE ENERGY DOCUMENTATION FOR WINDOW U-VALUES, AND/OR FRAME MATERIALS).

REFRIGERATORS, FREEZERS, ROOM OR CENTRAL AIR CONDITIONERS, GAS SPACE HEATERS, WATER HEATER, HEADERS, FAUCETS AND FLUORESCENT LAMP BALLAST SHALL BE C.E.C. CERTIFIED AND INSTALLED ACCORDING TO MANUFACTURERS SPECS.

THE BUILDER SHALL PROVIDE THE ORIGINAL DOCUMENT WITH A LIST OF HEATING, COOLING, WATER HEATING, LIGHTING SYSTEMS AND CONSERVATION OF SOLAR DEVICES INSTALLED AND INSTRUCTIONS ON HOW TO USE THEM EFFICIENTLY.

THERMOSTATICALLY CONTROLLED HEATING SYSTEMS SHALL HAVE AN AUTOMATIC NIGHT SET-BACK THERMOSTAT.

GAS COOKING APPLIANCES SHALL HAVE AN INTERMITTENT IGNITION DEVICE.

FOR THE IGNITION OF GAS APPLIANCES, A CONTINUOUSLY BURNING PILOT IS NOT PERMITTED ON:

- A) FAIR TYPE CENTRAL 4 WALL FURNACES;
- B) RESIDENTIAL TYPE CLOTHES DRYERS AND COOKING APPLIANCES;
- C) OIL HEATERS.

LIGHT FIXTURES SHALL HAVE AN EFFICIENCY OF NOT LESS THAN 40 LUMENS PER WATT.

MASONRY AND FACTORY-BUILT FIREPLACES SHALL HAVE:

- A) THERMALLY CLOSEABLE METAL OR GLASS DOORS COVERING THE ENTIRE OPENING OF THE FIREBOX;
- B) A COMBUSTION AIR INTAKE TO DRAW AIR FROM THE OUTSIDE OF THE BUILDING DIRECTLY INTO THE FIREBOX;
- C) EQUIPPED WITH A READILY ACCESSIBLE, OPERABLE AND TIGHT FITTING DAMPER;
- D) NO PART OF INTAKE SHALL BE GREATER THAN 12" ABOVE BOTTOM OF FIRE BOX;
- E) TIGHT FITTING DAMPER CONSTRUCTED OF NON-COMBUSTIBLE AND NON-CORROSION MATERIALS.

CONTINUOUS BURNING GAS PILOT OF LP6 LOG LIGHTER IS PROHIBITED.

PLUMBING NOTES:

PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING AND ROUTING OF ALL WASTE, VENT, WATER, GAS AND VAC CONDUITE LINES. CONTRACTOR SHALL COORDINATE WITH OWNER FOR SERVICES.

ALL PLUMBING MATERIALS AND WORKMANSHIP SHALL BE IN STRICT ACCORDANCE WITH THE CALIFORNIA BUILDING CODE, CALIFORNIA PLUMBING CODE, AND AMERICAN GAS ASSOCIATION, AS AMENDED BY LOCAL GOVERNMENT CODES.

ALL FIXTURES ARE TO BE FINISHED BY THE PLUMBING CONTRACTOR UNLESS OTHERWISE NOTED ON PLANS. ALL FIXTURES TO BE INSTALLED COMPLETE WITH RESPECTS TO TRIM SEALS, ETC. AS REQUIRED TO MAKE JOB READY FOR SERVICE AND USE.

PLUMBING CONTRACTOR TO TAKE OUT AND PAY FOR ALL PERMITS AND INSPECTION FEES AS REQUIRED FOR HIS WORK.

ALL WATER LINES TO BE STANDARD HEIGHT SCHEDULE 40 GALVANIZED OR COPPER PIPING. PROVIDE APPROVED WRAPPING TO WATER PIPING UNDER CONCRETE FLOORS.

ALL BATHTUBS SHALL HAVE AN APPROVED PLASTIC OR BRASS FERRULE SOLID TRAP AND OVERFLOW FITTING OR PROVIDE 12" X 12" MINIMUM ACCESS PANEL.

ALL TUB-SHOWER OPENINGS SHALL BE RODENT-PROOF WITH 1" CEMENT COVERING IN AN APPROVED MANNER.

CUTTING, NOTCHING, OR BORING OF PLATES OR STUDS SHALL CONFORM TO THE CURRENT CALIFORNIA BUILDING CODE AND ANY OTHER APPLICABLE STANDARDS.

ALL FIXTURES TO BE WHITE UNLESS OTHERWISE NOTED IN PLANS. PLUMBING CONTRACTOR SHALL SUBMIT FIXTURE SPECIFICATIONS FOR OWNERS APPROVAL.

PROVIDE SHUTOFF VALVE FOR COLD WATER SUPPLY TO BUILDING.

PROVIDE TWO-NAY CLEAUNOTS AT THE CONNECTION OF THE HOUSE DRAIN AND THE BUILDING SEWER. ALL HORIZONTAL DRAIN LINES OVER 3' IN LENGTH SHALL BE PROVIDED WITH A CLEAN-OUT.

THE OWNER SHALL COORDINATE ALL SERVICE CONNECTIONS FOR THE WORK WITH THE APPROPRIATE AGENCIES.

CONTRACTOR TO DETERMINE WATER, HEAT, AND SUPPLY LINE SIZES IN CONFORMANCE WITH THE CALIFORNIA PLUMBING CODE AND COORDINATE WITH PLUMBER AS TO ANY VARIATION AND/OR CONFLICT FROM DRAWINGS.

ALL ROOF PENETRATIONS WITH PIPES TO BE INSTALLED WITH DEX-TEC™ PIPE FLASHER INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS. EACH VENT PIPE OR STACK SHALL EXTEND THROUGH ITS FLASHING AND SHALL TERMINATE VERTICALLY NOT LESS THAN 6" (INCHES) ABOVE THE ROOF NOR LESS THAN ONE FOOT FROM THE VERTICALLY EXPOSED ROOF.

VENT PIPES OR STACKS SHALL TERMINATE NOT LESS THAN 10 FEET FROM OR, AT LEAST THREE (3) FEET ABOVE ANY WINDOW, DOOR OPENINGS, AIR INTAKE OR VENT SHAFT, NOR LESS THAN THREE (3) FEET IN EVERY DIRECTION FROM ANY LOT LINE, ALLEY, OR STREET.

DRAINAGE PIPE MATERIALS SHALL BE CAST IRON, GALVANIZED STEEL, PVC, OR ABS SCHEDULE 40 DN PLASTIC PIPE EXCEPT THAT NO GALVANIZED STEEL PIPE SHALL BE USED UNDERGROUND AND SHALL BE KEPT AT LEAST 6" ABOVE GROUND.

CHANGES IN DIRECTION OR SIZE OF DRAINAGE PIPES SHALL BE MADE BY THE APPROPRIATE USE OF APPROPRIATE SIZE AND LENGTH OF THE MIGLES PRESENTED BY ONE-SIXTEENTH BEND, ONE-EIGHT BEND, ONE-SIXTH-BEND, OR OTHER APPROVED FITTINGS OR EQUIVALENT SHEET.

AN ACCESSIBLE SHUTOFF VALVE SHALL BE INSTALLED IN THE FUEL SUPPLY PIPING OUTSIDE OF EACH APPLIANCE. SHUTOFF VALVE SHALL BE WITHIN 3' OF THE APPLIANCE.

WATER METER MUST BE INSTALLED PRIOR TO FINAL INSPECTION. WATER METER CAN SHALL NOT BE LOCATED IN DRIVE OR APPROACH.

PROVIDE LOW FLOW WATER CLOSETS WITH MAXIMUM OF 1.2 GALLONS PER FLUSH.

SOLDERS AND FLUXES WITH A LEAD CONTENT WHICH EXCEEDS TWO-TENTH OF ONE PERCENT (.002) ARE PROHIBITED IN PIPING SYSTEMS USED TO CONVEY POTABLE WATER.

LISTED METAL APPLIANCE CONNECTORS FOR RANGES AND CLOTHES DRYERS SHALL HAVE AN OVERALL LENGTH NOT TO EXCEED SIX (6) FEET.

CONDENSATE DRAINS FROM AIR CONDITIONING UNITS SHALL BE APPROVED GALVANIZED OR COPPER MATERIAL. APPROVED PVC MATERIAL SHALL BE USED ONLY ON RESIDENTIAL CONSTRUCTION NOT OVER TWO STOREIES IN HEIGHT.

UNDERGROUND FERROUS GAS PIPING SHALL BE ELECTRICALLY ISOLATED FROM THE REST OF THE GAS SYSTEM WITH LISTED ISOLATED FITTINGS AND INSTALLED A MINIMUM OF SIX INCHES ABOVE GRADE.

ALL SHOWER HEADS SHALL BE CERTIFIED AND EQUIPPED WITH FLOW RESTRICTORS.

ALL TUB AND SHOWER VALVES ARE TO BE SINGLE CONTROL PRESSURE BALANCING OR THERMOSTATIC ANTI - SCALD TYPE.

PROVIDE A NON-REMOVABLE TYPE BACK FLOW PREVENTION DEVICE ON ALL HOSE BIBS.

WATER HEATING NOTES:

WATER HEATING EQUIPMENT, SHOWER HEADS, AND FAUCETS SHALL BE CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION.

NO WATER HEATER SHALL BE INSTALLED IN ANY ROOM USED OR DESIGNED TO BE USED FOR SLEEPING PURPOSES, BATHROOMS, CLOTHES CLOSETS, OR IN ANY CONFINED SPACES IN ACCESS TO SUCH ROOMS.

APPLIANCES SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS WITH PROPER CLEARANCES TO COMBUSTIBLE MATERIALS.

FOR WATER HEATERS LOCATED IN CLOSETS OR CONFINED SPACES, PROVIDED THAT 2 5/8 INCHES OF COMBUSTIBLE MATERIALS ARE LOCATED ON THE INSIDE OF THE CLOSET OR CONFINED SPACES, VENTILATION SHALL BE LOCATED WITHIN 12' OF THE CEILING AND SOB SHALL BE LOCATED WITHIN 12' OF THE FLOOR, CEILING TO 17'-0" AND PROVIDE 5/8" TYPE GYPSUM WALL BOARD AT CEILING AND ALL SOB.

APPLIANCES INSTALLED IN GARAGES SHALL BE LOCATED SUCH THAT IT IS PROPERLY GUARDED AGAINST INJURY AND ELEVATED SO THAT ANY GLOW OR SPARK IMITED SHALL BE AT LEAST 18" ABOVE THE FLOOR OF THE GARAGE.

PROVIDE ADEQUATE EARTHQUAKE BRACING FOR WATER HEATER, WHEN NOT LOCATED IN A CLOSET USED EXCLUSIVELY FOR THE WATER HEATER. USE A 2" X 6" X 26 GA. SHEET METAL STRAP AT TOP AND BOTTOM 1/3 OF TANK. SECURE WITH 2" IBD AT EACH END TO FRAMING.

THE WATER HEATER SHALL BE PROVIDED WITH A TEMPERATURE AND PRESSURE RELIEF VALVE WHICH IS PROTECTED FROM THE OUTSIDE OF THE BUILDING OR THE TERMINAL END OF THE PIPE NOT MORE THAN 24" NOR LESS THAN 6" ABOVE GRADE, POINTING DOWNWARD WITH THE TERMINAL END BEING UNTHREADED.

PIPING IN INDEFINITELY SPACED AREA LEADING TO AND FROM WATER HEATER SHALL BE INSULATED WITH AN INSTANT HEATERS. THE INSULATION SHALL BE LOCATED AS CLOSEST TO THE WATER HEATER, OR WHEREVER SHORTEST LENGTH IS LOCATED IN UNCONDITIONED SPACE.

FULL SIZE, DOUBLE Walled METAL VENT PIPES FROM WATER HEATERS SHALL BE ROUTED THROUGH THE ROOF AND PROVIDED WITH A NEATHERPROOF CAP, INSTALLATION AND REQUIRED CLEARANCES SHALL BE IN ACCORDANCE WITH APPLICABLE CODES.

STORAGE TYPE WATER HEATERS AND STORAGE AND BACKUP TANKS FOR SOLAR WATER HEATING SYSTEM SHALL BE EXTERNALLY WRAPPED WITH INSULATION HAVING AN INSTALLED THERMAL RESISTANCE OF R-4 OR GREATER.

ALL AIR MOVING EQUIPMENT USED TO MEET EITHER THE WHOLE BUILDING OR LOCAL EXHAUST VENTILATION REQUIREMENTS SHALL BE RATE IN TERMS OF AIRFLOW AND SOUND.

A) ALL CONTINUOUSLY OPERATED FANS SHALL BE RATE AT A MAXIMUM OF 10 SONE.

B) INTERMITTENTLY OPERATED WHOLE-BUILDING VENTILATION FAN SHALL BE RATE AT A MAXIMUM OF 10 SONE.

C) INTERMITTENTLY OPERATED LOCAL EXHAUST FANS SHALL BE RATE AT A MAXIMUM OF 5 SONE.

D) REMOTELY LOCATED AIR MOVING EQUIPMENT NEED NOT MEET SOUND REQUIREMENTS IF THERE IS AT LEAST 4 FEET OF DUCTWORK BETWEEN THE FAN AND THE INTAKE GRILLE.

ELECTRICAL NOTES:

ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), ELECTRICAL SAFETY ORDERS, AND ALL APPLICABLE CODES.

ELECTRICAL CONTRACTOR SHALL CHECK POWER AND PHONE SERVICES AT SITE PRIOR TO BIDDING BIDDING AND CONTRACTOR SHALL CONTRACTOR TO VERIFY SUCH INFORMATION WITH THE DESIGNER PRIOR TO CONTINUING WITH ANY WORK.

FRAMING CLIPS, POST CAPS, TWIST STRAPS, AND HANGERS AS REQUIRED FOR PROPER EXECUTION OF THIS JOB SHALL BE SIMPSON OR EQUAL. (AS NOTED IN DRAWINGS).

ALL NAILS USED FOR CONSTRUCTION SHALL BE APPROVED FOR THE APPLICATION FOR WHICH THE NAILS ARE BEING USED.

FINGER JOINT STUDS SHALL NOT BE USED IN ANY STRUCTURAL WALLS (BEARING OR SHEAR WALLS) WITHOUT ANALYSIS OR APPROVAL TO SUBSTANTIATE EQUIVALENCE.

ALL STUDS SHALL BE MINIMUM 2X4 IN SIZE AND SPACED NOT MORE THAN 16" O.C. UNLESS NOTED CLEARLY IN THE DRAWINGS.

ALL STUDS SHALL HAVE FULL BEARING ON A SILL PLATE NOT LESS THAN 2X IN THICKNESS AND HAVING A MINIMUM OF 10' LENGTH. THE PLATE SHALL BE SPANNED OVER THE JOINTS AND CONTACT WITH CONCRETE SHALL BE FORCED. GRADE REDWOOD OR PRESSURE TREATED DOUGLAS FIR.

ALL BEARING WALLS AND EXTERIOR WALL STUDS SHALL BE CAPPED WITH DOUBLE TOP PLATES INSTALLED, PROVIDE OVERLAPPING AT CORNERS AND AT INTERSECTIONS WITH OTHER PARTITIONS. END JOINTS AND SPlices SHALL BE OFFSET MINIMUM 48".

PROVIDE SAFETY GLAZING (TEMPERED GLASS) AT ALL LOCATIONS SUBJECT TO HUMAN IMPACT. WINDOWS WITHIN 24" OF DOOR EDGES, ALL WINDOWS GREATER THAN 18 INCHES WIDE AND CLOSER THAN 18 INCHES TO THE FLOOR, AND ALL SLIDING GLASS DOORS.

Glass shower doors and tub enclosures to be tempered or provide curtain rod inlieu of glass doors.

ALL SAFETY GLAZING SHALL BE IDENTIFYING LABEL.

ALL ENTRY DOORS SHALL BE PROVIDED WITH A PEEL HOLE OR VISION PANEL.

Provide a STEEL PLATE AT ALL DEAD BOLT STRIKER PLATES, WITH SOLID SHIM 6" ABOVE AND 6" BELOW WITH (2) #8 X 10 LONG SCREWS.

Provide dead bolt at all exterior doors, including residence to garage and garage to exterior doors.

Provide landings at each exit to exterior or garage with a 1/8" maximum step (including threshold) when door swings out. (1 1/4" max. step where door swings in) landing shall be as wide as doorway. min. 36" in the direction of travel. CRC R313.

MINIMUM CORRIDOR WIDTH IS 36" CLEAR.

BATHROOMS, WATER CLOSET COMPARTMENTS, AND OTHER SIMILAR ROOMS SHALL BE PROVIDED WITH NATURAL VENTILATION BY MEANS OF EXTERIOR OPENINGS, TO BE MINIMUM 5% OF THE FLOOR AREA OR A MINIMUM OF 5 SQ. FT. & GUTTER DRAINS MAY BE PROVIDED USE OF A MECHANICAL SYSTEM THAT PROVIDED THE SAME. THE DRAINS SHALL BE SPANNED OVER THE JOINTS AND CONTACT WITH CONCRETE, WHICH MAY BE USED WHERE WINDOW IS NOT PROVIDED. CRC R303.2

Provide fire blocking at floors, ceilings, gables and soffits and at 10'-0" intervals and at stud walls adjacent to the stair stringers.

CONTRACTOR TO CONFIRM IF ALL AREAS ARE PROVIDED WITH POSITIVE DRAINAGE PRIOR TO SHEATHING OF THE ROOF.

Provide 12'X 12" TUB ACCESS OR NELLED PLASTIC OR BRASS FERRULE, OVER FLOW AND DRAIN.

ALL ELEVATIONS ARE GIVEN FROM TOP OF FLOOR SLAB.

VERIFY SIZES AND LOCATIONS OF ALL ROOF OPENINGS, PLATFORMS, ETC. WITH THE RESPECTIVE CONTRACTORS.

Provide solid blocking at all ends of joists and rafters and at all supports per the CALIFORNIA BUILDING CODE.

Where rafters are not parallel with ceiling joists, the rafters shall be tied together with MINIMUM 14# RAFTERS TIES AT 48" O.C.

Provide double roof rafters at ANY ROOF MOUNTED MECHANICAL EQUIPMENT.

ALL ROOF COVERINGS SHALL CONFORM TO THE REQUIREMENTS OF THE CBC.

ALL ROOF MOUNTED EQUIPMENT (I.E. HOODS, VENTILATORS, ETC.) SHALL RECEIVE A MINIMUM OF 2 COATS OF PAINT, COLOR TO BE SELECTED BY OWNER.

ALL RECEPTACLES SHALL BE A MINIMUM OF 12" FROM FLOOR TO CENTER OF OUTLET.

Provide minimum 36" wide clearance in front of panels and/or service equipment, with 30" min. min. wide work space, provide 15" from bus bars to obstruction.

INCANDESCENT LIGHTING FIXTURES THAT ARE RECESSED INTO INSULATED CEILINGS SHALL BE APPROVED FOR ZERO-CLEARANCE INSULATION COVER (IC) BY UL. OR OTHER TESTING LABORATORY RECOGNIZED BY IC-92.

MECHANICAL NOTES:

ALL MECHANICAL EQUIPMENT AND RELATED WORK SHALL CONFORM TO THE CURRENT EDITION OF THE CALIFORNIA MECHANICAL CODE AS AMENDED BY THE LOCAL GOVERNMENT AGENCIES.

ALL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER AS PRACTICED BY THOSE SKILLED IN THE PARTIES TRADE. THE CONTRACTOR SHALL NOT ALLOW ANY LOADING, GROUTING, OR REINFORCING OF OTHER COMPONENTS TO BE INSTALLED LEVEL, SQUARE AND IN A NEAT AND PLEASING APPEARANCE.

ALL EQUIPMENT SHALL BE INSTALLED WITH STRICT CONFORMANCE TO THE MANUFACTURERS RECOMMENDATIONS.

MECHANICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES.

CONTRACTOR SHALL TEST EQUIPMENT ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS TO INSURE SYSTEM IS FREE OF ANY DEFECTS, OBJECTIONABLE NOISES, AND VIBRATION OR ANY OTHER QUESTIONABLE DEFICIENCIES.

CONTRACTOR SHALL PROVIDE OWNER WITH ANY NECESSARY OPERATION AND MAINTENANCE INSTRUCTIONS, NARRATIVES, OR OTHER DOCUMENTATION SUPPLIED WITH THE EQUIPMENT.

MECHANICAL CONTRACTOR SHALL VERIFY ALL SYSTEM VOLTAGES PRIOR TO BIDDING AND/OR ORDERING EQUIPMENT.

THE ARRANGEMENT OF EQUIPMENT, PIPING, DUCT WORK, AND OTHER MATERIALS INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC, FOLLOW DRAWINGS AS CLOSELY AS POSSIBLE AND ACHIEVE A NEAT ARRANGEMENT, WHILE STILL OVERCOMING OBSTRUCTIONS.

ANY CHANGE OF HVAC OR WATER HEATING UNITS FROM THAT LISTED IN THE DRAWINGS (MODEL, CAPACITIES, OR EFFICIENCIES), ARE REQUIRED TO BE DONE BY PLAN APPENDIX, APPENDIXES MAY REQUIRE REVISED ENERGY CALCULATIONS AND SHALL BE SPECIFIC AS TO THE CHANGES, AND SHALL BE ACCREDITED BY THE EQUIPMENT FROM THE CEC DIRECTORY OF CERTIFIED EQUIPMENT.

ALL TRUSSES SHALL BE SUBMITTED TO THE MANUFACTURER FOR APPROVAL. THE DRAWINGS SHALL BE APPROVED BY THE TRUSS MANUFACTURER PRIOR TO FABRICATION.

TRUSS MANUFACTURER SHALL SUBMIT DRAWINGS OF THE TRUSSES TO THE DESIGNER AND/OR PROJECT ENGINEER, AND DRAWINGS SHALL BE APPROVED BY THE LOCAL BUILDING DEPARTMENT PRIOR TO FABRICATION OF AND TRUSSES. SHOT DRAWINGS SHALL INCLUDE VERIFYING CALCULATIONS SIGNED BY A CIVIL ENGINEER REGISTERED IN CALIFORNIA.

MECHANICAL CONTRACTOR SHALL VERIFY ALL SYSTEM VOLTAGES PRIOR TO BIDDING AND/OR ORDERING EQUIPMENT.

TRUSS MANUFACTURER SHALL HAVE "IN PLANT" INSPECTION BY AN APPROVED AGENCY. CERTIFICATE SHALL BE SUBMITTED TO THE DEVELOPMENT DEPARTMENT, BUILDING AND SAFETY SERVICES.

TRUSS MANUFACTURER SHALL SUBMIT SHOT DRAWINGS OF THE TRUSSES TO THE DESIGNER AND/OR PROJECT ENGINEER, AND DRAWINGS SHALL BE APPROVED BY THE LOCAL BUILDING DEPARTMENT PRIOR TO FABRICATION OF AND TRUSSES. SHOT DRAWINGS SHALL INCLUDE VERIFYING CALCULATIONS SIGNED BY A CIVIL ENGINEER REGISTERED IN CALIFORNIA.

ALL TRUSS SPANS, QUANTITY AND OTHER DIMENSIONS SHALL BE VERIFIED BY THE TRUSS MANUFACTURER FOR APPROVAL.

JOBSITE STORAGE OF TRUSSES SHALL CONFORM TO MANUFACTURER'S RECOMMENDATIONS. TRUSSES SHOULD NOT BE SUPPORTED ON ROCKS TO PREVENT EXCESSIVE LATERAL BENDING AND LESSEN MOISTURE GAIN.

ANY DAMAGE TO TRUSSES SHALL BE BROUGHT TO THE ATTENTION OF THE TRUSS MANUFACTURER AND FIELD REPAIRS SHALL NOT BE DONE WITHOUT PRIOR APPROVAL FROM THE TRUSS MANUFACTURER.

CUTTING, NOTCHING, AND/OR DRILLING OF ANY TRUSS IS PROHIBITED UNLESS SPECIFIED IN TRUSS DRAWINGS. ALL CUTTING, NOTCHING AND/OR DRILLING SHALL BE VERIFIED WITH THE TRUSS MANUFACTURER PRIOR TO STARTING WORK.

ALL EXHAUST FANS SHALL BE PROVIDED WITH BACK-DRAFT OR AUTOMATIC DAMPERS TO PREVENT AIR LEAKAGE. ALL EXHAUST FANS SHALL PROVIDE 5 AIR CHANGES PER HOUR.

COMBUSTION AIR FOR BURNING EQUIPMENT (FURNACES AND/OR WATER HEATERS) SHALL BE FROM THE EXTERIOR OF THE BUILDING.

ALL HEATING AND COOLING EQUIPMENT SHALL BEAR A PERMANENT IDENTIFICATION AS TO THE AREA OF SPACE SERVED BY THE EQUIPMENT.

WHEN THE EQUIPMENT AND/OR EVAPORATIVE COOLERS ARE LOCATED ON THE ROOF, AND THE PITCH OF THE ROOF EXCEEDS 12", IT SHALL BE PROVIDED WITH A PLATFORM, RAILINGS AND CATHKAL FOR THE EQUIPMENT. THE CATHKAL SHALL BE LOCATED ON THE ROOF.

ALL ROOF MOUNTED EQUIPMENT WITH ROTATING COMPONENTS SHALL BE MOUNTED ON RUBBER VIBRATION ISOLATORS UNLESS NOTED OTHERWISE IN DRAWINGS.

IF HVAC EQUIPMENT IS LOCATED ON A TILE ROOF, PROVIDE AN ACCESS TO HVAC UNITS SO THAT TRAVERSAL OF THE TILES ARE NOT REQUIRED. (COMPOSITION SHINGLES UNDER UNIT AND EXTENDING BEYOND UNIT).

PROVIDE DOUBLE CLOPS, JOISTS OR RAFTERS UNDER ALL ATTIC AND/OR ROOF MOUNTED EQUIPMENT. IF TRUSSES ARE USED, THE TRUSS MANUFACTURER SHALL PROVIDE CALCULATION FOR ADDITIONAL LOADS APPLIED DUE TO ATTIC AND/OR ROOF MOUNTED EQUIPMENT.

ALL PLYWOOD SHEATHING SHALL BE LAID PERPENDICULAR TO TRUSSES WITH STAGGERED END JOINT PATTERN.

FOR HARM AIR FURNACES LOCATED IN ATTIC SPACES, PROVIDE THE FOLLOWING:

A) 30" X 30" (MIN) ATTIC ACCESS WITHIN 20' OF EQUIPMENT.

B) A MINIMUM 24" WIDE SOLID FLOORING PASSAGE FROM THE ACCESS TO A 30" WIDE FLOOR.

C) A PERMANENT ELECTRICAL OUTLET AND A LIGHT CONTROLLED BY A SWITCH LOCATED AT THE ACCESS.

D) AN APPROVED HEAT RELOCATOR LOCATED IN THE ATTIC WITH AN ALARM LOCATED IN THE LIVING AREA OF THE RESIDENCE.

E) THE COMBUSTION AIR OPENING SHALL BE PROVIDED WITH A MIN 26 GA. STEEL SLEEVE.

THE INSULATION SHALL BE ADJUSTABLE TO PROVIDE A TEMP. RANGE OF UP TO 10 DEGREES BETWEEN FULL HEATING AND FULL COOLING.

THEATERMATICALLY CONTROLLED HEATING SYSTEMS SHALL HAVE AN AUTOMATIC NIGHT SETBACK. THERMOSTATS SHALL BE ADJUSTABLE TO PROVIDE A TEMP. RANGE OF UP TO 10 DEGREES BETWEEN FULL HEATING AND FULL COOLING.

THEATERMATICALLY CONTROLLED HEATING SYSTEMS SHALL HAVE A SHEET METAL SECONDARY PAN AND 1 1/2" DIAMETER DRAIN TO AN APPROVED LOCATION AT THE EXTERIOR.

ALL ATTIC INSTALLED APPLIANCES SHALL HAVE A SHEET METAL SECONDARY PAN AND 1 1/2" DIAMETER DRAIN TO AN APPROVED LOCATION AT THE EXTERIOR.

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