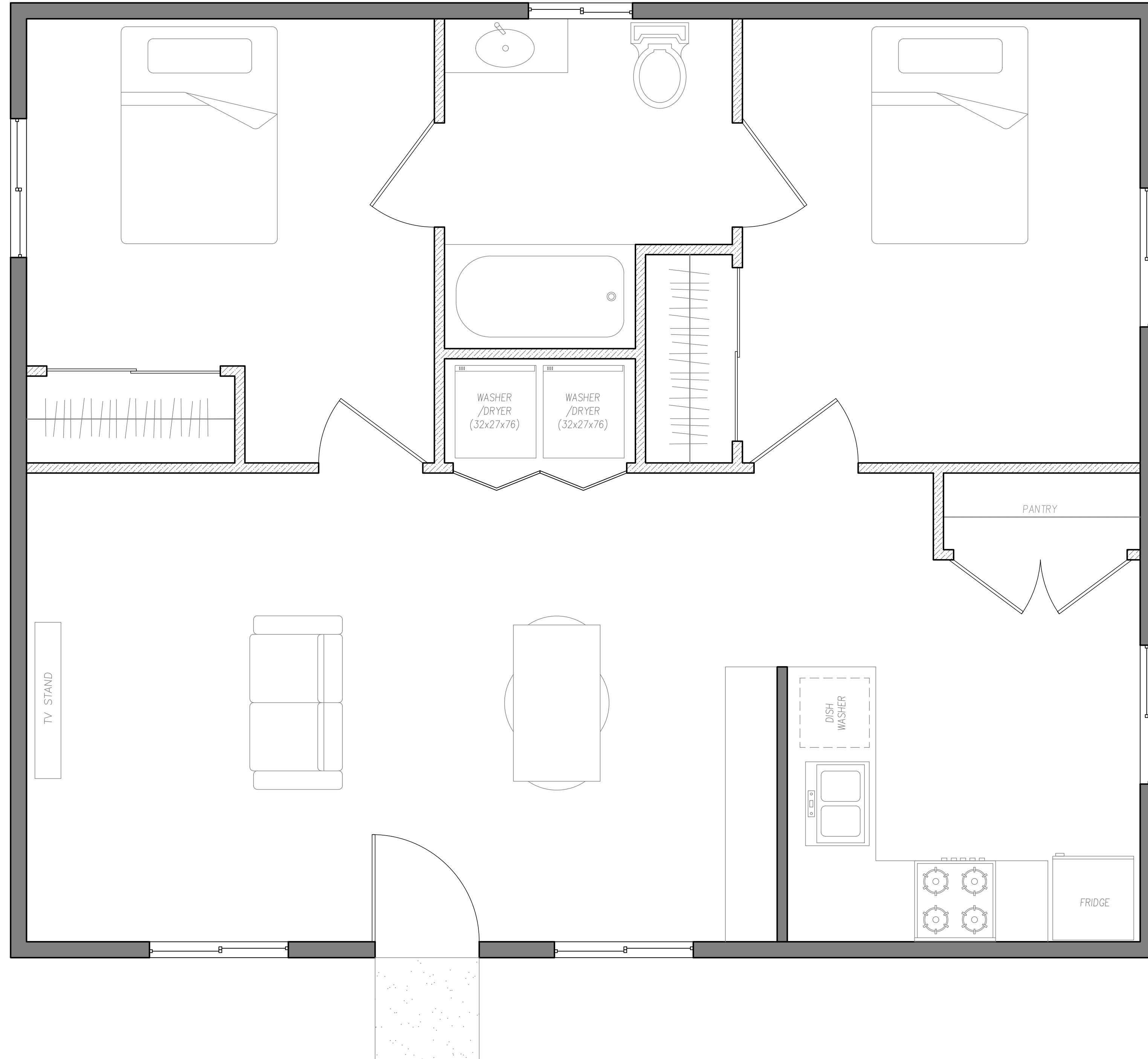


CITY OF HANFORD PRE-REVIEWED ACCESSORY DWELLING UNIT PROGRAM



**908 SQ. FT.
2 BED 1 BATH
ACCESSORY DWELLING UNIT
DETACHED**

SHEET INDEX	
COVER SHEETS	
C0	COVER
C1	COVER SHEET 1
C2	COVER SHEET 2
ARCHITECTURAL SHEETS	
A1	FLOOR PLAN
A2	SECTIONS
A3	ELEVATION A
A4	ELEVATION B
A5	ELEVATION C
A6	ARCHITECTURAL DETAILS
STRUCTURAL SHEETS	
S1	FOUNDATION PLAN
S2	ROOF FRAMING PLAN
S3	DETAILS
S4	DETAILS
ELECTRICAL SHEETS	
E1	ELECTRICAL PLAN
PLUMBING SHEETS	
P1	PLUMBING PLAN
CALGREEN FORMS	
G1	CALGREEN FORM 1
G2	CALGREEN FORM 2
MECHANICAL SHEETS	
M1	HVAC PLAN
M2	HVAC PLAN
ENERGY COMPLIANCE SHEETS	
EN1	ENERGY COMPLIANCE

MASTER PLAN DESIGN
ADU908
APPROVAL DATE: 12/11/2025
EXPIRES: 12/11/2035

10 YEAR LOCK IS NOT APPLICABLE TO THE CALIFORNIA ENERGY CODE, PV REQUIREMENTS, OR CALGREEN AND LANDSCAPE WATER-EFFICIENCY STANDARDS

CITY OF HANFORD BUILDING DIVISION

APPROVED

THIS SET OF PLANS AND SPECIFICATIONS
MUST BE KEPT ON THE JOB AT ALL TIMES AND
NO CHANGES OR ALTERATIONS SHALL BE
MADE EXCEPT BY THE BUILDING DIVISION.

THE STAMPING OF THIS PLAN AND
SPECIFICATIONS SHALL NOT BE HELD TO
PERMIT OR TO BE AN APPROVAL OF THE
VIOLATION OF ANY PROVISIONS OF ANY CITY
ORDINANCE OR STATE LAW. "REVIEWED FOR
CODE COMPLIANCE."

BY: *Mitchell Coach*
12/11/2025

These plans and documents have been reviewed
for compliance with the applicable codes
requirements of the jurisdiction. The stamping
of these plans shall not be held to permit or be
an approval of any violation of applicable codes
and standards nor relieve the owner, design
professional of record or contractor of
compliance with applicable codes and standards

ROD CARSEY CONSULTING & PLAN CHECK
SERVICE
11/8/2024

ADU INFO

OCCUPANCY TYPE R-3
CONSTRUCTION TYPE VB
CLIMATE ZONE 13

ADDITIONAL REQUIREMENTS DUE AT TIME OF SUBMITTAL

TRUSS DRAWINGS AND ANALYSIS

FIRE SPRINKLER PLAN - if applicable

SOLAR PHOTOVOLTAIC (PV) PLAN

GEOTECHNICAL SOILS AND FOUNDATION INVESTIGATION

Current CalGreen Forms - if submitted after 12/31/2025

Current Energy Compliance Sheets - if submitted after 12/31/2025

BUILDING CODE:

2022 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2022 CALIFORNIA RESIDENTIAL CODE (CRC) PART 2, TITLE 24 PART 2.5 (2021
INTERNATIONAL BUILDING CODE WITH CALIFORNIA AMENDMENTS).

2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2020
NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION)

2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. (2021
UNIFORM MECHANICAL CODE AND CA AMENDMENTS)

2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2020 UNIFORM
PLUMBING CODE AND AMENDMENTS)

2022 CALIFORNIA ENERGY CODE AND ENERGY COMMISSION STANDARDS (CECS),
PART 6, TITLE 24 C.C.R.

2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R. (2021 INTERNATIONAL
FIRE CODE)

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11 TITLE 24 C.C.R.

2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12 TITLE 24 C.C.R.

2022 TITLE 19 C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL

CONTRACTOR SHALL REFER TO THE ABOVE CITED CODES AND LOCAL REGULATIONS
WHERE SPECIFIC DETAILS ARE REQUIRED BUT NOT DEPICTED IN THE APPROVED
PLANS.

DISCLAIMER:
BY USING THESE STANDARD PLANS, THE USER AGREES TO
RELEASE THE CITY OF HANFORD FROM ANY AND ALL CLAIMS,
LIABILITIES, SUITS AND DEMANDS ON ACCOUNT OF ANY
INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY
OUT OF THE USE OF THESE, OR ECONOMIC LOSSES, ARISING
OUT OF THE USE OF THESE PLANS DOES NOT ELIMINATE OR REDUCE THE
USER'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION.

CITY OF HANFORD



REVISIONS

PROJECT TITLE	CITY OF HANFORD – PRE-REVIEWED ADU PROGRAM	COVER
ADU SQFT	908	DATE
AGENCY	SJV REAP	10/28/2024

DRAWING SCALE

SHEET

C0

A. GENERAL

- NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THESE NOTES. THE DETAILS ON THE DRAWINGS SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OTHERWISE, WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED, DETAILS OF A CHARACTER SIMILAR TO THOSE SHOWN SHALL BE USED, SUBJECT TO REVIEW.

B. ELECTRICAL, PLUMBING, AND MECHANICAL

- EXTERIOR LIGHTING. ALL PROJECTS SHALL COMPLY WITH THE RESPECTIVE CITY'S MUNICIPAL CODE.
- DETECTORS. ALL DETECTORS MUST BE HARD WIRED TO THE BUILDING'S ELECTRICAL SYSTEM, INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SHALL BE INTERCONNECTED, WITH BATTERY BACKUP [CRC R314.1]
 - SMOKE DETECTORS. SMOKE DETECTORS ARE REQUIRED IN EACH EXISTING SLEEPING ROOM, OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF SLEEPING ROOMS, AND ON EACH STORY OF A DWELLING INCLUDING BASEMENTS. (CRC R314.3)
 - CARBON MONOXIDE DETECTORS. CARBON MONOXIDE DETECTORS ARE REQUIRED OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF SLEEPING ROOMS AND ON EACH STORY OF A DWELLING INCLUDING BASEMENTS. (CRC R315.3)
- WATER HEATER SEISMIC STRAPPING. MINIMUM TWO 3/4-INCH-BY-24-GAUGE STRAPS REQUIRED AROUND WATER HEATERS, WITH 1/4-INCH-BY-3-INCH LAG BOLTS ATTACHED DIRECTLY TO FRAMING. STRAPS SHALL BE AT POINTS WITHIN UPPER THIRD AND LOWER THIRD OF WATER HEATER VERTICAL DIMENSION. LOWER CONNECTION SHALL OCCUR MINIMUM 4 INCHES ABOVE CONTROLS. (CPC 507.2)
- WATER CLOSET CLEARANCE. MINIMUM 30-INCH-WIDE BY 24-INCH-DEEP CLEARANCE REQUIRED AT FRONT OF WATER CLOSETS. (CPC 402.5)
- SHOWER SIZE. SHOWER COMPARTMENTS SHALL HAVE MINIMUM AREA OF 1024 SQUARE INCHES AND BE ABLE TO ENCOMPASS A 30-INCH-DIAMETER CIRCLE. SHOWER DOORS SHALL HAVE A MINIMUM 22-INCH UNOBSTRUCTED WIDTH. (CPC 408.5 AND CPC 408.6)

C. MECHANICAL VENTILATION AND INDOOR AIR QUALITY (ASHRAE 62.2-2010)

- TRANSFER AIR. VENTILATION AIR SHALL BE PROVIDED DIRECTLY FROM THE OUTDOORS AND NOT AS TRANSFER AIR FROM ADJACENT DWELLING UNITS OR OTHER SPACES, SUCH AS GARAGES, UNCONDITIONED CRAWLSPACES, OR UNCONDITIONED ATTICS. (CBEES 150.0(O))
- INSTRUCTIONS AND LABELING. VENTILATION SYSTEM CONTROLS SHALL BE LABELED AND THE HOME OWNER SHALL BE PROVIDED WITH INSTRUCTIONS ON HOW TO OPERATE THE SYSTEM. (CBEES 150.0(O))
- COMBUSTION AND SOLID-FUEL BURNING APPLIANCES. COMBUSTION APPLIANCES SHALL BE PROPERLY VENTED AND AIR SYSTEMS SHALL BE DESIGNED TO PREVENT BACK DRAFTING. (CBEES 150.0(O))
- MINIMUM FILTRATION. MECHANICAL SYSTEMS SUPPLYING AIR TO OCCUPABLE SPACE THROUGH DUCTWORK SHALL BE PROVIDED WITH A FILTER HAVING A MINIMUM EFFICIENCY OF MERV 13 OR BETTER. (CBEES 150.0(O))
- AIR INLETS. AIR INLETS (NOT EXHAUST) SHALL BE LOCATED AWAY FROM KNOWN CONTAMINANTS. (CBEES 150.0(O))
- AIR MOVING EQUIPMENT. AIR MOVING EQUIPMENT USED TO MEET EITHER THE WHOLE-BUILDING VENTILATION REQUIREMENT OR THE LOCAL VENTILATION EXHAUST REQUIREMENT SHALL BE RATED IN TERMS OF AIRFLOW AND SOUND. (CBEES 150.0(O))
- 6.A. ALL CONTINUOUSLY OPERATING FANS SHALL BE RATED AT A MAXIMUM OF 1.0 SONE.
- 6.B. INTERMITTENTLY OPERATED WHOLE-BUILDING VENTILATION FANS SHALL BE RATED AT A MAXIMUM OF 1.0 SONE.
- 6.C. INTERMITTENTLY OPERATED LOCAL EXHAUST FANS SHALL BE RATED AT MAXIMUM OF 3.0 SONE.
- 6.D. REMOTELY LOCATED AIR-MOVING EQUIPMENT (MOUNTED OUTSIDE OF HABITABLE SPACES) NEED NOT MEET SOUND REQUIREMENTS IF AT LEAST 4 FEET OF DUCTWORK BETWEEN FAN AND INTAKE GRILL.
7. LOCAL EXHAUST FANS TO EXTERIOR TO PROVIDE MINIMUM 50 CFM INTERMITTENT OR 20 CFM CONTINUOUS VENTILATION OR AS SPECIFIED IN ENERGY REPORT.
8. AN INTERMITTENTLY OR CONTINUOUSLY OPERATING LOCAL MECHANICAL EXHAUST VENTILATION SYSTEM SHALL BE INSTALLED IN EACH BATHROOM WITH A BATHTUB, SHOWER, OR SIMILAR MOISTURE SOURCE AND IN EACH KITCHEN IN COMPLIANCE WITH ASHRAE STANDARD 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMMISSION.
 - BATHROOMS: INTERMITTENT LOCAL EXHAUST VENTILATION AIRFLOW RATES SHALL NOT BE LESS THAN 50 CFM. CONTINUOUS OPERATION SHALL NOT BE LESS THAN 20 CFM. (CMC 405.3.1)
 - KITCHENS: INTERMITTENT CONTROLLED OPERATIONS, THE EXHAUST RATE SHALL NOT BE LESS THAN 100 CFM FOR RANGE HOODS OR 300 CFM FOR MECHANICAL EXHAUST FANS INCLUDING DOWNDRAFT APPLIANCES. CONTINUOUS OPERATED VENTILATION, THE EXHAUST RATE SHALL NOT BE LESS THAN 5CFM OR 4% OF THE OCCUPIED FLOOR AREA. (CMC 405.4.1)

D. FOUNDATION

- PROJECTS DETERMINED TO BE IN SEISMIC DESIGN CATEGORY (SDC) "D" REQUIRE A GEOTECHNICAL SOILS AND FOUNDATION INVESTIGATION [CBC 1803.2 & 1803.5.12] UNLESS WAIVED BY THE BUILDING OFFICIAL. THE SOILS ENGINEER SHALL BE RESPONSIBLE FOR REVIEWING AND COORDINATING THE SITE PLAN AND THE FOUNDATION PLAN PREPARED BY OTHERS FOR CONFORMITY WITH THE RECOMMENDATIONS OF HIS SOILS REPORT AND SHALL SIGNIFY HIS REVIEW BY CERTIFYING THE FIRST SHEET OF SAID PLANS [CRC R301.1.3.1].
 - SAMPLE CERTIFICATION. THESE PLANS CONFORM TO THE GEOTECHNICAL REPORT # _____ DATED _____ AS PREPARED UNDER MY SUPERVISION. WE MAKE NO REPRESENTATION AS TO THE ACCURACY OF DIMENSIONS, MEASUREMENTS, CALCULATIONS OR ANY PORTION OF THE DESIGN.
- FOUNDATION REINFORCEMENT. CONTINUOUS FOOTINGS AND STEM WALLS SHALL BE PROVIDED WITH A MINIMUM TWO LONGITUDINAL NO. 4 BARS, ONE AT THE TOP AND ONE AT THE BOTTOM OF THE FOOTING. (CRC R403.1.3.3)
- INTERIOR BRACED WALL FOUNDATION SUPPORT. BRACED WALLS SHALL BE SUPPORTED BY CONTINUOUS FOUNDATIONS. (CRC 403.1.3.4)
- HORIZONTAL REINFORCEMENT SHALL BE THE LONGEST LENGTHS PRACTICAL. WHERE SPLICES ARE NECESSARY IN REINFORCEMENT, THE LENGTH OF LAP SPLICE SHALL BE 40 BAR DIAMETERS. THE MAXIMUM GAP BETWEEN NONCONTACT PARALLEL BARS AT A LAP SPLICE SHALL NOT EXCEED THE SMALLER OF ONE-FIFTH THE REQUIRED LAP LENGTH AND 6 INCHES [SEE FIGURE R608.5.4(1)]
- ANCHOR BOLTS AND SILLS. FOUNDATION PLATES OR SILLS SHALL BE BOLTED OR ANCHORED TO THE FOUNDATION OR FOUNDATION WALL PER THE FOLLOWING (CRC R403.1.6 AND CRC R602.11.1):
 - MINIMUM 1/2-INCH-DIAMETER STEEL BOLTS, ASTM F1554, GR36
 - BOLTS EMBEDDED AT LEAST 7 INCHES INTO CONCRETE OR MASONRY
 - THE BOLTS SHALL BE LOCATED IN THE MIDDLE THIRD OF THE WIDTH OF THE PLATE.
 - MINIMUM TWO BOLTS PER PLATE/SILL PIECE WITH ONE BOLT LOCATED MAXIMUM 12 INCHES AND MINIMUM 7 BOLT DIAMETERS FROM EACH END OF EACH SILL PLATE/PIECE
 - MINIMUM 3-INCH BY 3-INCH BY 0.229-INCH STEEL PLATE WASHER BETWEEN SILL AND NUT ON EACH BOLT EXCEPT WHERE APPROVED ANCHOR STRAPS ARE USED. THE HOLE IN THE PLATE WASHER IS PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO $\frac{1}{8}$ INCH LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH NOT TO EXCEED 1-3/4 INCHES, PROVIDED STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT.
 - HOLD-DOWNS. ALL HOLD-DOWNS MUST BE TIED IN PLACE PRIOR TO FOUNDATION INSPECTION.
 - FASTENERS FOR PRESSURE-PRESERVATIVE TREATED AND FIRE RETARDANT TREATED WOOD SHALL BE HOT-DIPPED ZINC COATED GALVANIZED, STAINLESS STEEL OR COPPER (CRC R317.3)
 - VAPOR RETARDER.
 - A VAPOR RETARDER INSPECTION WILL BE REQUIRED PRIOR TO PLACEMENT OF THE SAND TO CONFIRM PROPER INSTALLATION (VAPOR RETARDER IS TO BE ASTM E1745 CLASS A COMPLIANT AND MANUFACTURER'S INSTALLATION REQUIREMENTS MUST BE AVAILABLE FOR INSPECTION PURPOSES).
 - A MINIMUM 10-MIL VAPOR RETARDER CONFORMING TO ASTM E1745 CLASS A REQUIREMENTS WITH JOINTS LAPPED NOT LESS THAN 6' IS REQUIRED.
 - PROVIDE 4" NOMINAL THICK CONCRETE SLAB WITH #3 REBAR AT 24" O.C. EACH WAY, PLACED MID-HEIGHT OF SLAB OVER 2" SAND BLOTTER INSTALLED OVER 10 MIL VAPOR RETARDER CONFORMING TO ASTM E1745 OVER AN ADDITIONAL 2" SAND OVER COMPAKTED FILL COMPLYING WITH SITE SOILS REPORT.

E. WOOD FRAMING

- FASTENER REQUIREMENTS. THE NUMBER, SIZE, AND SPACING OF FASTENERS CONNECTING WOOD MEMBERS/ELEMENTS SHALL NOT BE LESS THAN THAT SET FORTH IN CRC TABLE R602.3(1). (CRC R602.3)
- SILL PLATE. STUDS SHALL HAVE FULL BEARING ON NOMINAL 2-INCH THICK OR LARGER SILL PLATE WITH WIDTH AT LEAST EQUAL TO STUD WIDTH. (CRC R602.3.4)
- BEARING STUDS. WHERE JOISTS, TRUSSES, OR RAFTERS ARE SPACED MORE THAN 16 INCHES ON CENTER AND THE BEARING STUDS BELOW ARE SPACED 24 INCHES ON CENTER, SUCH MEMBERS SHALL BEAR WITHIN 5 INCHES OF THE STUDS BEHIND. (CRC R602.3.3) EXCEPTION: THE TOP PLATES ARE TWO 2-INCH BY 6-INCH OR TWO 3-INCH BY 4- INCH MEMBERS.

- DRILLING AND NOTCHING OF STUDS. ANY STUD IN AN EXTERIOR WALL OR BEARING PARTITION MAY BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25% OF ITS WIDTH. STUDS IN NONBEARING PARTITIONS MAY BE NOTCHED TO A DEPTH NOT TO EXCEED 40% OF A SINGLE STUD WIDTH. ANY STUD MAY BE BORED OR DRILLED, PROVIDED THE DIAMETER OF THE RESULTING HOLE IS NO MORE THAN 60% OF THE STUD WIDTH, THE EDGE OF THE HOLE IS NO MORE THAN 5/8 INCH TO THE EDGE OF THE STUD, AND THE HOLE IS NOT LOCATED IN THE SAME SECTION AS A CUT OR NOTCH. STUDS LOCATED IN EXTERIOR WALL OR BEARING PARTITIONS DRILLED OVER 40% AND UP TO 60% SHALL ALSO BE DOUBLED WITH NO MORE THAN TWO SUCCESSIVE STUDS BORED. (CRC R602.6) EXCEPTION: USE OF APPROVED STUD SHOES IS PERMITTED WHERE THEY ARE INSTALLED IN ACCORDANCE WITH THE MANUFACTURE'S RECOMMENDATIONS.

- TOP PLATE. WOOD STUD WALLS SHALL BE CAPPED WITH A DOUBLE TOP PLATE INSTALLED TO PROVIDE OVERLAPPING AT CORNERS AND AT INTERSECTIONS WITH OTHER PARTITIONS. END JOINTS IN DOUBLE TOP PLATES SHALL BE OFFSET AT LEAST 24 INCHES. JOINTS IN PLATES NEED NOT OCCUR OVER STUDS. PLATES SHALL BE MINIMUM NOMINAL 2 INCHES THICK AND HAVE WIDTH AT LEAST EQUAL TO WIDTH OF STUDS. (CRC R602.3.2)

- TOP PLATE SPLICES. TOP PLATE LAP SPLICES SHALL BE FACE-NAILED WITH MINIMUM 8 16D NAILS ON EACH SIDE OF SPLICE. (CRC R602.10.8.1)
- DRILLING AND NOTCHING OF TOP PLATE. WHEN PIPING OR DUCTWORK IS PLACED IN OR PARTLY IN AN EXTERIOR WALL OR INTERIOR LOAD-BEARING WALL, NECESSITATING CUTTING, DRILLING, OR NOTCHING OF THE TOP PLATE BY MORE THAN 50% OF ITS WIDTH, A GALVANIZED METAL TIE NOT LESS THAN 0.054-INCH THICK AND 1-1/2-INCHES WIDE SHALL BE FASTENED ACROSS AND TO THE PLATE AT EACH SIDE OF THE OPENING WITH NOT LESS THAN 8 10D NAILS HAVING A MINIMUM LENGTH OF 1-1/2 INCHES AT EACH SIDE OR EQUIVALENT. THE METAL TIE MUST EXTEND MINIMUM 6 INCHES PAST THE OPENING. (CRC R602.6.1)

- SHEAR WALL AND DIAPHRAGM NAILING. ALL SHEAR WALLS, ROOF DIAPHRAGMS, AND FLOOR DIAPHRAGMS SHALL BE NAILED TO SUPPORTING CONSTRUCTION PER CRC TABLE R602.3(1). (CRC R604.3)
- SHEAR WALL JOINTS. ALL VERTICAL JOINTS IN SHEAR WALL SHEATHING SHALL OCCUR OVER, AND BE FASTENED TO, COMMON STUDS. HORIZONTAL JOINTS IN SHEAR WALL SHEATHING SHALL OCCUR OVER, AND BE FASTENED TO, MINIMUM 1-1/2-INCH-THICK BLOCKING. (CRC R602.10.10)

- FRAMING OVER OPENINGS. HEADERS, DOUBLE JOISTS, OR TRUSSES OF ADEQUATE SIZE TO TRANSFER LOADS TO VERTICAL MEMBERS SHALL BE PROVIDED OVER WINDOW AND DOOR OPENINGS IN LOAD-BEARING WALLS AND PARTITIONS. (CBC 2304.3.2)
- ROOF TRUSSES. TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL STABILITY IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE INDIVIDUAL TRUSS DESIGN DRAWINGS. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH ACCEPTED INDUSTRY PRACTICE SUCH AS THE SBIA BUILDING COMPONENT SAFETY INFORMATION (BCSI) GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES.

- ROOF DIAPHRAGM UNDER FILL FRAMING. ROOF PLYWOOD SHALL BE CONTINUOUS UNDER CALIFORNIA FILL FRAMING.
- ROOF DIAPHRAGM AT RIDGES. MINIMUM 2-INCH NOMINAL BLOCKING REQUIRED FOR ROOF DIAPHRAGM NAILING AT RIDGES.
- BLOCKING OF ROOF TRUSSES. MINIMUM 2-INCH NOMINAL BLOCKING REQUIRED BETWEEN TRUSSES AT RIDGE LINES AND AT POINTS OF BEARING AT EXTERIOR WALLS.
- TRUSS CLEARANCE. MINIMUM 1-1/2-INCH CLEARANCE REQUIRED BETWEEN TOP PLATES OF INTERIOR NON-BEARING PARTITIONS AND BOTTOM CHORDS OF TRUSSES.

- FIREBLOCKING. FIREBLOCKING SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS (CRC R302.11 AND CRC R1003.19):
 - IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS:
 - VERTICALLY AT THE CEILING AND FLOOR LEVELS
 - HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET
 - AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS, AND COVE CEILINGS
 - IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN
 - AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES AND WIRES AT CEILING AND FLOOR LEVEL, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION
 - AT CHIMNEYS AND FIREPLACES PER ITEM E-49
 - CORNICES OF A TWO-FAMILY DWELLING AT THE LINE OF DWELLING-UNIT SEPARATION

- FIREBLOCKING MATERIALS. EXCEPT AS OTHERWISE SPECIFIED IN ITEMS E-48 AND E-49, FIREBLOCKING SHALL CONSIST OF THE FOLLOWING MATERIALS WITH THE INTEGRITY MAINTAINED (CRC R302.11.1):
 - ONE-INCH NOMINAL LUMBER
 - TWO THICKNESSES OF ONE-INCH NOMINAL LUMBER WITH BROKEN LAP JOINTS
 - ONE THICKNESS OF 23/32-INCH WOOD STRUCTURAL PANEL WITH JOINTS BACKED BY 23/32-INCH WOOD STRUCTURAL PANEL
 - ONE THICKNESS OF 3/4-INCH PARTICLEBOARD WITH JOINTS BACKED BY 3/4-INCH PARTICLEBOARD
 - 1/2-INCH GYPSUM BOARD
 - 1/4-INCH CEMENT-BASED MILLBOARD
 - BATTS OR BLANKETS OF MINERAL OR GLASS FIBER OF OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE. BATTS OR BLANKETS OF MINERAL OR GLASS FIBER OR OTHER APPROVED NON-RIGID MATERIALS SHALL BE PERMITTED FOR COMPLIANCE WITH THE 10-FOOT HORIZONTAL FIREBLOCKING IN WALLS CONSTRUCTED USING PARALLEL ROWS OF STUDS OR STAGGERED STUDS. UNFACE FIBERGLASS BATT INSULATION USED AS FIREBLOCKING SHALL FILL THE ENTIRE CROSS-SECTION OF THE WALL CAVITY TO A MINIMUM HEIGHT OF 16 INCHES MEASURED VERTICALLY. WHEN PIPING, CONDUIT, OR SIMILAR OBSTRUCTIONS ARE ENCOUNTERED, THE INSULATION SHALL BE PACKED TIGHTLY AROUND THE OBSTRUCTION. LOOSE-FILL INSULATION MATERIAL SHALL NOT BE USED AS A FIREBLOCK UNLESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE ITS ABILITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF FIRE AND HOT GASES.

- FIREBLOCKING AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES, AND WIRES AT CEILING AND FLOOR LEVEL. SUCH OPENINGS SHALL BE FIREBLOCKED WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION. (CRC R302.11)

- FIREBLOCKING OF CHIMNEYS AND FIREPLACES. ALL SPACES BETWEEN CHIMNEYS AND FLOORS AND CEILINGS THROUGH WHICH CHIMNEYS PASS SHALL BE FIREBLOCKED WITH NONCOMBUSTIBLE MATERIAL SECURELY FASTENED IN PLACE. THE FIREBLOCKING OF SPACES BETWEEN CHIMNEYS AND WOOD JOISTS, BEAMS, OR Headers SHALL BE SELF-SUPPORTING OR BE PLACED ON STRIPS OF METAL OR METAL LATH LAID ACROSS THE SPACES BETWEEN COMBUSTIBLE MATERIAL AND THE CHIMNEY. (CRC R1003.19)

- DRAFTSTOPPING. IN COMBUSTIBLE CONSTRUCTION WHERE THERE IS USABLE SPACE BOTH ABOVE AND BELOW THE CONCEALED SPACE OF A FLOOR/CEILING ASSEMBLY, DRAFTSTOPPING SHALL BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED 1000 SQUARE FEET. DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. WHERE THE ASSEMBLY IS ENCLOSED BY A FLOOR MEMBRANE ABOVE AND A CEILING MEMBRANE BELOW, DRAFTSTOPPING SHALL BE PROVIDED IN FLOOR/CEILING ASSEMBLIES UNDER THE FOLLOWING CIRCUMSTANCES (CRC R302.12):
 - CEILING IS SUSPENDED UNDER THE FLOOR FRAMING
 - FLOOR FRAMING IS CONSTRUCTED OF TRUSS-TYPE OPEN-WEB OR PERFORATED MEMBERS

- DRAFTSTOPPING MATERIALS. DRAFTSTOPPING SHALL NOT BE LESS THAN 1/2-INCH GYPSUM BOARD, 3/8-INCH WOOD STRUCTURAL PANELS, OR OTHER APPROVED MATERIALS ADEQUATELY SUPPORTED. DRAFTSTOPPING SHALL BE INSTALLED PARALLEL TO THE FLOOR FRAMING MEMBERS UNLESS OTHERWISE APPROVED BY THE BUILDING OFFICIAL. THE INTEGRITY OF DRAFTSTOPPING SHALL BE MAINTAINED. (CRC R302.12.1)

- COMBUSTIBLE INSULATION CLEARANCE. COMBUSTIBLE INSULATION SHALL BE SEPARATED MINIMUM 3 INCHES FROM RECESSED LUMINAIRES, FAN MOTORS, AND OTHER HEAT-PRODUCING DEVICES. (CRC R302.14)

- PROTECTION OF WOOD AGAINST DECAY. NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS (CRC R317.1):
 - ALL WOOD IN CONTACT WITH GROUND, EMBEDDED IN CONCRETE IN DIRECT CONTACT WITH GROUND, OR EMBEDDED IN CONCRETE EXPOSED TO WEATHER
 - WOOD FRAMING MEMBERS THAT REST ON CONCRETE OR MASONRY EXTERIOR FOUNDATION WALLS AND ARE LESS THAN 8 INCHES FROM EXPOSED EARTH SHALL BE OF NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD
 - WOOD FRAMING, SHEATHING, AND SIDING ON THE EXTERIOR OF THE BUILDING AND HAVING CLEARANCE LESS THAN 6 INCHES FROM THE EXPOSED GROUND OR LESS THAN 2 INCHES VERTICALLY FROM CONCRETE STEPS, PORCH SLABS, PATIO SLABS, AND SIMILAR HORIZONTAL SURFACE EXPOSED TO WEATHER
 - SILLS AND SLEEPERS ON CONCRETE OR MASONRY SLAB IN DIRECT CONTACT WITH GROUND UNLESS SEPARATED FROM SUCH SLAB BY IMPERVIOUS MOISTURE BARRIER

F. BASIS OF DESIGN

NOTE: WINTER DESIGN TEMP, FLOOD HAZARDS, AIR FREEZING INDEX AND MEAN ANNUAL TEMP SECTIONS ARE REQUIRED BY APPLICANT AT TIME OF SUBMITTAL.

GROUND SNOW LOAD	WIND DESIGN SPEED (mph)	SEISMIC DESIGN CAT	SUBJECT TO DAMAGE FROM		ICE BARRIER UNDERLAYMENT REQUIRED	FLOOD HAZARDS	AIR FREEZING INDEX	MEAN ANNUAL TEMP			
			Weathering	Frost Line Depth							
0	110	N	D	<5000'NEG	<5000'>12'	YES	74	<5000' NO	N/A	1500	64

G. GENERAL MATERIAL SPECIFICATIONS

- LUMBERT. ALL JOISTS, RAFTERS, BEAMS, AND POSTS SHALL BE NO. 2 GRADE DOUGLAS FIR-LARCH OR BETTER. STUDS NOT MORE THAN 8 FEET LONG SHALL BE STUD-GRADE DOUGLAS FIR-LARCH OR BETTER WHEN SUPPORTING NOT MORE THAN ONE FLOOR, ROOF, AND CEILING. STUDS LONGER THAN 8 FEET SHALL BE NO. 2 GRADE DOUGLAS FIR-LARCH OR BETTER.
- STRUCTURAL PLYWOOD SHALL CONFORM TO COMMERCIAL STANDARD DOC PS 1-09 AND HAVE A PANEL GRADE OF C-D. WOOD BASED STRUCTURAL-USE PANELS (I.E. ORIENTED STRAND BOARD) SHALL CONFORM TO THE APA PRP-108 PERFORMANCE STANDARD OF THE VOLUNTARY PRODUCT STANDARD DOC PS 2-10. "PERFORMANCE STANDARD FOR WOOD-BASED STRUCTURAL-USE PANELS". PUBLISHED BY THE DEPARTMENT OF COMMERCE AND THE AMERICAN PLYWOOD ASSOCIATION. ALL PLYWOOD AND STRUCTURAL-USE PANELS SHALL BE APA RATED SHEATHING, EXPOSURE 1, SHEATHING EXPOSED TO WEATHER SHALL BE GRADE C-C EXTERIOR WITH A RANGE INDEX AS TO MATCH BODY OF DIAGRAM SPECIFIED.
- CONCRETE. THE QUALITY AND DESIGN OF CONCRETE SHALL BE IN ACCORDANCE WITH 2022 CALIFORNIA BUILDING CODE (CBC), EXCEPT ITEMS NOT SPECIFICALLY COVERED THEREIN SHALL ALSO CONFORM TO ACI 318-14.
- REINFORCING STEEL. REINFORCING STEEL USED IN CONSTRUCTION OF REINFORCED CONCRETE STRUCTURES

J. DRAINAGE NOTES

1. SURFACE DRAINAGE SHALL BE DIVERTED TO A STORM SEWER CONVEYANCE OR OTHER APPROVED POINT OF COLLECTION THAT DOES NOT CREATE A HAZARD [CRC R401.3].
2. LOTS SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS A MINIMUM OF 6 INCHES FOR A DISTANCE OF 10 FEET, EXCEPTION: WHERE SLOPES OR OTHER PHYSICAL BARRIERS PROHIBIT 6 INCHES OF FALL FOR 10 FEET, DRAINS OR SWALES SHALL BE CONSTRUCTED TO ENSURE DRAINAGE AWAY FROM THE STRUCTURE. WHEN DRAINS OR SWALES ARE USED FOR THIS PURPOSE:
 - 2.1. PROVIDE A MINIMUM 5% SLOPE FROM FOUNDATION TO DRAIN/SWALE,
 - 2.2. DRAIN/SWALE SHOULD BE LOCATED AS FAR AS IS PRACTICAL FROM THE FOUNDATION TO MAXIMIZE FALL AND
 - 2.3. DRAIN/SWALE IS TO SLOPE A MINIMUM OF 2%.
3. IMPERVIOUS SURFACES WITHIN 10 FEET OF THE BUILDING FOUNDATION SHALL BE SLOPED NOT LESS THAN 2 PERCENT AWAY FROM THE BUILDING.
4. ON GRADED SITES, THE TOP OF ANY EXTERIOR FOUNDATION (FINISH FLOOR ELEVATION) SHALL EXTEND ABOVE THE ELEVATION OF THE STREET GUTTER AT POINT OF DISCHARGE OR THE INLET OF AN APPROVED DRAINAGE DEVICE NOT LESS THAN 12 INCHES PLUS 2 PERCENT [CRC R403.1.7.3].
5. ALTERNATE SETBACKS AND CLEARANCES ARE PERMITTED, SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL [CRC R403.1.7.4].

K. STREET ADDRESSING

1. SEPARATE STREET ADDRESSING IS REQUIRED FOR THE ADU. INSTALL STREET ADDRESS NUMERALS, AT LEAST FOUR INCHES HIGH WITH MINIMUM $\frac{1}{2}$ -INCH STROKE, MOUNTED ON A CONTRASTING BACKGROUND ON FRONT OF THE BUILDING [CRC R319.1].

HERS SPECIAL FEATURES

REQUIRED SPECIAL FEATURES

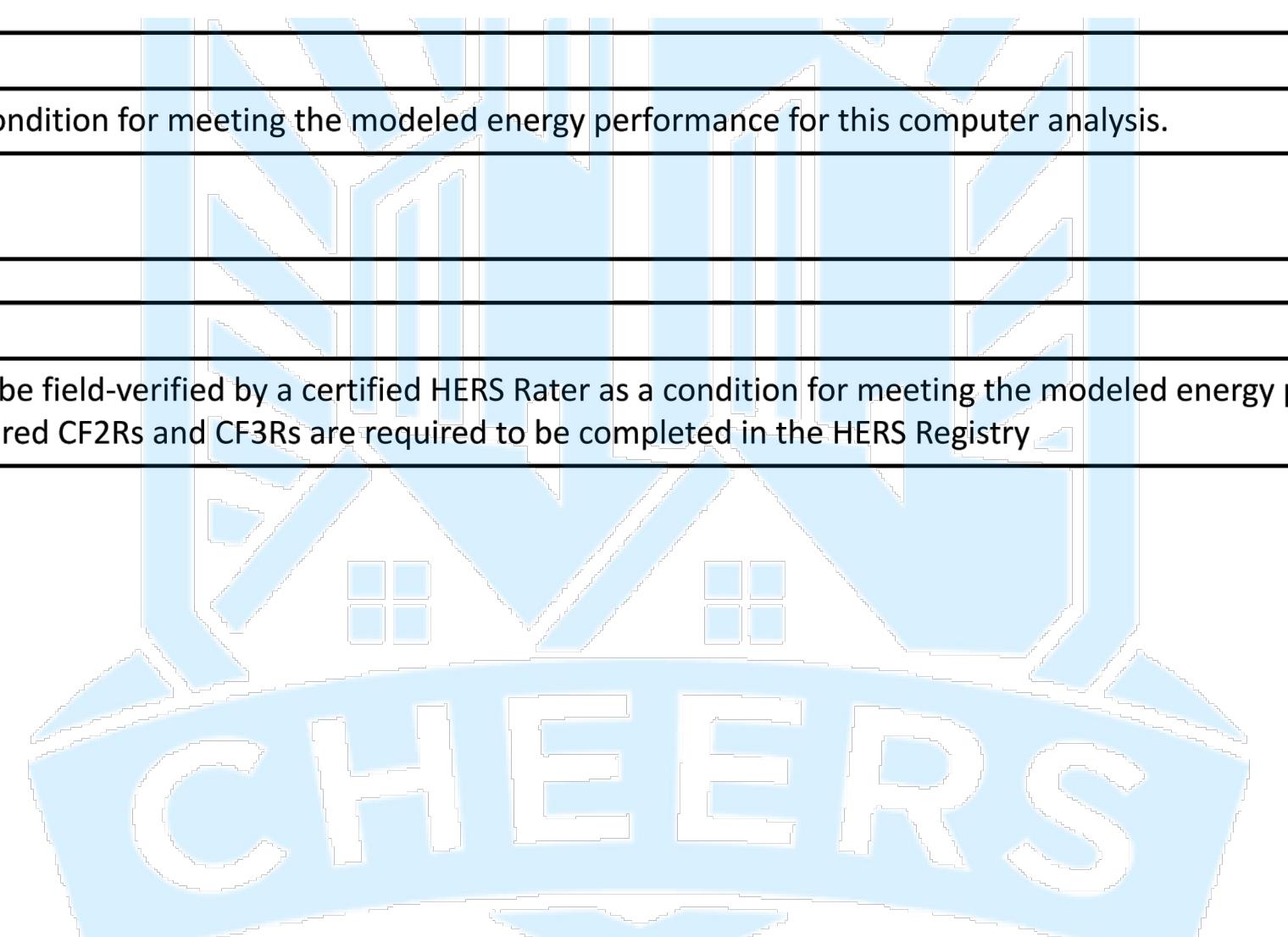
The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.

- Insulation below roof deck
- Window overhangs and/or fins

HERS FEATURE SUMMARY

The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry

- Quality insulation installation (QII)
- Indoor air quality ventilation
- Kitchen range hood
- Minimum Airflow
- Verified EER/EER2
- Verified SEER/SEER2
- Verified Refrigerant Charge
- Fan Efficacy Watts/CFM
- Verified HSPF2
- Verified heat pump rated heating capacity
- Duct leakage testing



These plans and documents have been reviewed for compliance with the applicable codes requirements of the jurisdiction. The stamping of these plans shall not be held to permit or be an approval of any violation of applicable codes and standards nor relieve the owner, design professional of record or contractor of compliance with applicable codes and standards

ROD CARSEY CONSULTING & PLAN CHECK SERVICE

TABLE R602.3(1)
FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a,b}	SPACING OF FASTENERS
Roof			
1	Blocking between joists or rafters to top plate, toe nail	3-8d (2 $\frac{1}{2}$ " x 0.113")	—
2	Ceiling joists to plate, toe nail	3-8d (2 $\frac{1}{2}$ " x 0.113")	—
3	Ceiling joists not attached to parallel rafter, laps over partitions, face nail	3-10d	—
4	Collar tie to rafter, face nail or 1 $\frac{1}{4}$ " x 20 gage ridge strap	3-10d (3" x 0.128")	—
5	Rafter or roof truss to plate, toe nail	3-16d box nails (3 $\frac{1}{2}$ " x 0.135") or 3-10d common nails (3" x 0.148")	2 toe nails on one side and 1 toe nail on opposite side of each rafter or truss ^d
6	Roof rafters to ridge, valley or hip rafters: toe nail face nail	4-16d (3 $\frac{1}{2}$ " x 0.135") 3-16d (3 $\frac{1}{2}$ " x 0.135")	—
Wall			
7	Built-up studs-face nail	10d (3" x 0.128")	24" o.c.
8	Abutting studs at intersecting wall corners, face nail	16d (3 $\frac{1}{2}$ " x 0.135")	12" o.c.
9	Built-up header, two pieces with $\frac{1}{2}$ " spacer	16d (3 $\frac{1}{2}$ " x 0.135")	16" o.c. along each edge
10	Continued header, two pieces	16d (3 $\frac{1}{2}$ " x 0.135")	16" o.c. along each edge
11	Continuous header to stud, toe nail	4-8d (2 $\frac{1}{2}$ " x 0.113")	—
12	Double studs, face nail	10d (3" x 0.128")	24" o.c.
13	Double top plates, face nail	10d (3" x 0.128")	24" o.c.
14	Double top plates, minimum 24-inch offset of end joints, face nail in lapped area	8-16d (3 $\frac{1}{2}$ " x 0.135")	—
15	Sole plate to joist or blocking, face nail	16d (3 $\frac{1}{2}$ " x 0.135")	16" o.c.
16	Sole plate to joist or blocking at braced wall panels	3-16d (3 $\frac{1}{2}$ " x 0.135")	16" o.c.
17	Stud to sole plate, toe nail	3-8d (2 $\frac{1}{2}$ " x 0.113") or 2-16d (3 $\frac{1}{2}$ " x 0.135")	—
18	Top or sole plate to stud, end nail	2-16d (3 $\frac{1}{2}$ " x 0.135")	—
19	Top plates, laps at corners and intersections, face nail	2-10d (3" x 0.128")	—
20	1" brace to each stud and plate, face nail	2-8d (2 $\frac{1}{2}$ " x 0.113") 2 staples 1 $\frac{1}{4}$ "	—
21	1" x 6" sheathing to each bearing, face nail	2-8d (2 $\frac{1}{2}$ " x 0.113") 2 staples 1 $\frac{1}{4}$ "	—
22	1" x 8" sheathing to each bearing, face nail	2-8d (2 $\frac{1}{2}$ " x 0.113") 3 staples 1 $\frac{1}{4}$ "	—
23	Wider than 1" x 8" sheathing to each bearing, face nail	3-8d (2 $\frac{1}{2}$ " x 0.113") 4 staples 1 $\frac{1}{4}$ "	—
Floor			
24	Joist to sill or girder, toe nail	3-8d (2 $\frac{1}{2}$ " x 0.113")	—
25	Rim joist to top plate, toe nail (roof applications also)	8d (2 $\frac{1}{2}$ " x 0.113")	6" o.c.
26	Rim joist or blocking to sill plate, toe nail	8d (2 $\frac{1}{2}$ " x 0.113")	6" o.c.
27	1" x 6" subfloor or less to each joist, face nail	2-8d (2 $\frac{1}{2}$ " x 0.113") 2 staples 1 $\frac{1}{4}$ "	—
28	2" subfloor to joist or girder, blind and face nail	2-16d (3 $\frac{1}{2}$ " x 0.135")	—
29	2" planks (plank & beam - floor & roof)	2-16d (3 $\frac{1}{2}$ " x 0.135")	at each bearing
30	Built-up girders and beams, 2-inch lumber layers	10d (3" x 0.128")	Nail each layer as follows: 32" o.c. at top and bottom and staggered. Two nails at ends and at each splice.
31	Ledger strip supporting joists or rafters	3-16d (3 $\frac{1}{2}$ " x 0.135")	At each joist or rafter
Wood structural panels, subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing			
32	$\frac{3}{8}$ " - 1 $\frac{1}{4}$ "	6d common (2" x 0.113") nail (subfloor, wall) 8d common (2 $\frac{1}{2}$ " x 0.131") nail (roof)	6 12 ^e
33	$\frac{19}{32}$ " - 1"	8d common nail (2 $\frac{1}{2}$ " x 0.131")	6 12 ^e
34	1 $\frac{1}{8}$ " - 1 $\frac{1}{4}$ "	10d common (3" x 0.148") nail or 8d (2 $\frac{1}{2}$ " x 0.131") deformed nail	6 12
Other wall sheathing ^f			
35	1 $\frac{1}{8}$ " structural cellulose fiberboard sheathing	1 $\frac{1}{8}$ " galvanized roofing nail, 7 $\frac{1}{16}$ " crown or 1" crown staple 16 ga., 1 $\frac{1}{4}$ " long	3 6
36	2 $\frac{1}{2}$ " structural cellulose fiberboard sheathing	1 $\frac{1}{8}$ " galvanized roofing nail, 7 $\frac{1}{16}$ " crown or 1" crown staple 16 ga., 1 $\frac{1}{2}$ " long	3 6
37	1 $\frac{1}{2}$ " gypsum sheathing ^d	1 $\frac{1}{2}$ " galvanized roofing nail; staple galvanized, 1 $\frac{1}{2}$ " long; 1 $\frac{1}{4}$ " screws, Type W or S	7 7
38	5 $\frac{1}{8}$ " gypsum sheathing ^d	1 $\frac{1}{2}$ " galvanized roofing nail; staple galvanized, 1 $\frac{1}{2}$ " long; 1 $\frac{1}{4}$ " screws, Type W or S	7 7
Wood structural panels, combination subfloor underlayment to framing			
39	3 $\frac{1}{4}$ " and less	6d deformed (2" x 0.120") nail or 8d common (2 $\frac{1}{2}$ " x 0.131") nail	6 12
40	7 $\frac{1}{8}$ " - 1"	8d common (2 $\frac{1}{2}$ " x 0.131") nail or 8d deformed (2 $\frac{1}{2}$ " x 0.120") nail	6 12
41	1 $\frac{1}{8}$ " - 1 $\frac{1}{4}$ "	10d common (3" x 0.148") nail or 8d deformed (2 $\frac{1}{2}$ " x 0.120") nail	6 12

For St: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s; 1 ksi = 6.895 MPa.

a. Nails are smooth-common, box or deformed shanks except where otherwise stated. Nails used for framing and sheathing connections shall have minimum average bending yield strengths as shown: 80 ksi for shank diameter of 0.192 inch (20d common nail), 90 ksi for shank diameters larger than 0.142 inch but not larger than 0.177 inch, and 100 ksi for shank diameters of 0.142 inch or less.

b. Staples are 16 gauge wire and have a minimum 7/16-inch on diameter crown width.

c. Nails shall be spaced at not more than 6 inches on center at all supports where spans are 48 inches or greater.

d. Four-foot by 4-foot or 4-foot by 9-foot panels shall be applied vertically.

e. Spacing of fasteners not included in the table shall be based on Table R602.3(2).

f. For wood structural panel roof sheathing attached to gable end roof framing and to intermediate supports within 48 inches of roof edges and ridges, nails shall be spaced at 6 inches on center where the ultimate design wind speed is less than 130 mph and shall be spaced 4 inches on center where the ultimate design wind speed is 130 mph or greater but less than 140 mph.

g. Gypsum sheathing shall conform to ASTM C1396 and shall be installed in accordance with GA 253. Fiberboard sheathing shall conform to ASTM C208.

h. Spacing of fasteners on floor sheathing panel edges applies to panel edges supported by framing members and required blocking and at floor perimeters only. Spacing of fasteners on roof sheathing panel edges applies to panel edges supported by framing members and required blocking. Blocking of roof or floor sheathing panel edges perpendicular to the framing members need not be provided except as required by other provisions of this code. Floor perimeter shall be supported by framing members or solid blocking.

i. Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule, provide two toe nails on one side of the rafter and toe nails from the ceiling joist to top plate in accordance with this schedule. The toe nail on the opposite side of the rafter shall not be required.

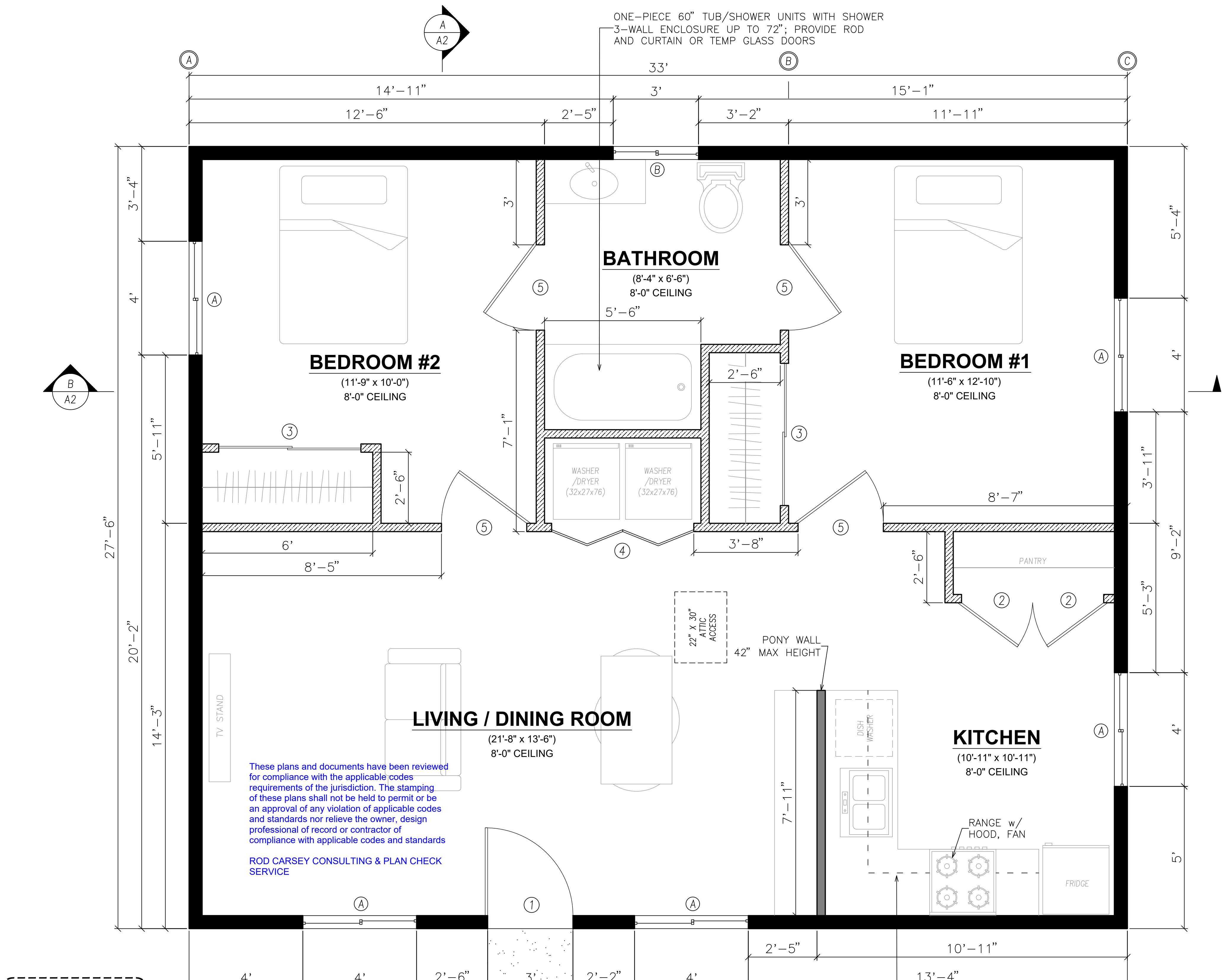
j. RSRS-01 is a Roof Sheathing Ring Shank nail meeting the specifications in ASTM F1667.

DISCLAIMER:
BY USING THESE STANDARD PLANS, THE USER AGREES TO RELEASE THE CITY OF HANFORD FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS AND DEMANDS ON ACCOUNT OF ANY INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY, ARISING OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS. THE USE OF THESE PLANS DOES NOT ELIMINATE OR REDUCE THE USER'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION.



PROJECT TITLE	CITY OF HANFORD - PRE-REVIEWED ADU PROGRAM	
ADU SQFT	908	
AGENCY	SJV REAP	DATE
		10/28/2024
DRAWING SCALE		

CITY OF HANFORD BUILDING DIVISION APPROVED		
THIS SHEET PLANS AND SPECIFICATIONS MAY BE USED FOR ONE YEAR FROM THE DATE OF ISSUANCE. NO CHANGES OR ALTERATIONS SHALL BE MADE EXCEPT BY THE BUILDING DIVISION.		
THE STAMPING ON THIS SHEET PLANS AND SPECIFICATIONS SHALL NOT BE HELD TO PERMIT OR TO BE AN APPROVAL OF THE WORK. THE BUILDING DIVISION MAY OR MAY NOT APPROVE THE WORK IN ACCORDANCE WITH THE CITY OF HANFORD BUILDING CODE COMPLIANCE.		
BY: <i>Michelle Coach</i> 12/11/2025		



AGING-IN-PLACE

AGING-IN-PLACE DESIGN AND FALL PREVENTION. NEWLY CONSTRUCTED DWELLINGS SUBJECT TO THE REQUIREMENTS OF THIS CODE SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH SECTIONS R327.1.1 THROUGH R327.1.4.PAGE

AT LEAST ONE BATHROOM ON THE ENTRY LEVEL SHALL BE PROVIDED WITH REINFORCEMENT INSTALLED IN ACCORDANCE WITH THIS SECTION. WHERE THERE IS NO BATHROOM ON THE ENTRY LEVEL, AT LEAST ONE BATHROOM ON THE SECOND OR THIRD FLOOR OF THE DWELLING SHALL COMPLY WITH THIS SECTION. [CRC R327.1.1]

INFORMATION AND/OR DRAWINGS IDENTIFYING THE LOCATION OF GRAB BAR REINFORCEMENT SHALL BE PLACED IN THE OPERATION AND MAINTENANCE MANUAL IN ACCORDANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS CODE, CHAPTER 4, DIVISION 4.4.[CRC R327.1.1.1]

ELECTRICAL RECEPTACLE OUTLET, SWITCH AND CONTROL HEIGHTS. ELECTRICAL RECEPTACLE OUTLETS, SWITCHES AND CONTROLS (INCLUDING CONTROLS FOR HEATING, VENTILATION AND AIR CONDITIONING) INTENDED TO BE USED BY OCCUPANTS SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE OUTLET BOX AND NOT LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE OUTLET BOX ABOVE THE FINISH FLOOR. [CRC R327.1.2]

EFFECTIVE JULY 1, 2024, AT LEAST ONE BATHROOM AND ONE BEDROOM ON THE ENTRY LEVEL SHALL PROVIDE A DOORWAY WITH A NET CLEAR OPENING OF NOT LESS THAN 32 INCHES, MEASURED WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM THE CLOSED POSITION; OR, IN THE CASE OF A TWO-OR THREE-STORY SINGLE FAMILY DWELLING, ON THE SECOND OR THIRD FLOOR OF THE DWELLING IF A BATHROOM OR BEDROOM IS NOT LOCATED ON THE ENTRY LEVEL. [CRC R327.1.3]

DOORBELL BUTTONS OR CONTROLS, WHEN INSTALLED, SHALL NOT EXCEED 48 INCHES (1219.2 MM) ABOVE EXTERIOR FLOOR OR LANDING, MEASURED FROM THE TOP OF THE DOORBELL BUTTON ASSEMBLY. WHERE DOORBELL BUTTONS INTEGRATED WITH OTHER FEATURES ARE REQUIRED TO BE INSTALLED ABOVE 48 INCHES MEASURED FROM THE EXTERIOR FLOOR OR LANDING, A STANDARD DOORBELL BUTTON OR CONTROL SHALL ALSO BE PROVIDED AT A HEIGHT NOT EXCEEDING 48 INCHES ABOVE EXTERIOR FLOOR OR LANDING, MEASURED FROM THE TOP OF THE DOORBELL BUTTON OR CONTROL. [CRC R327.1.4]

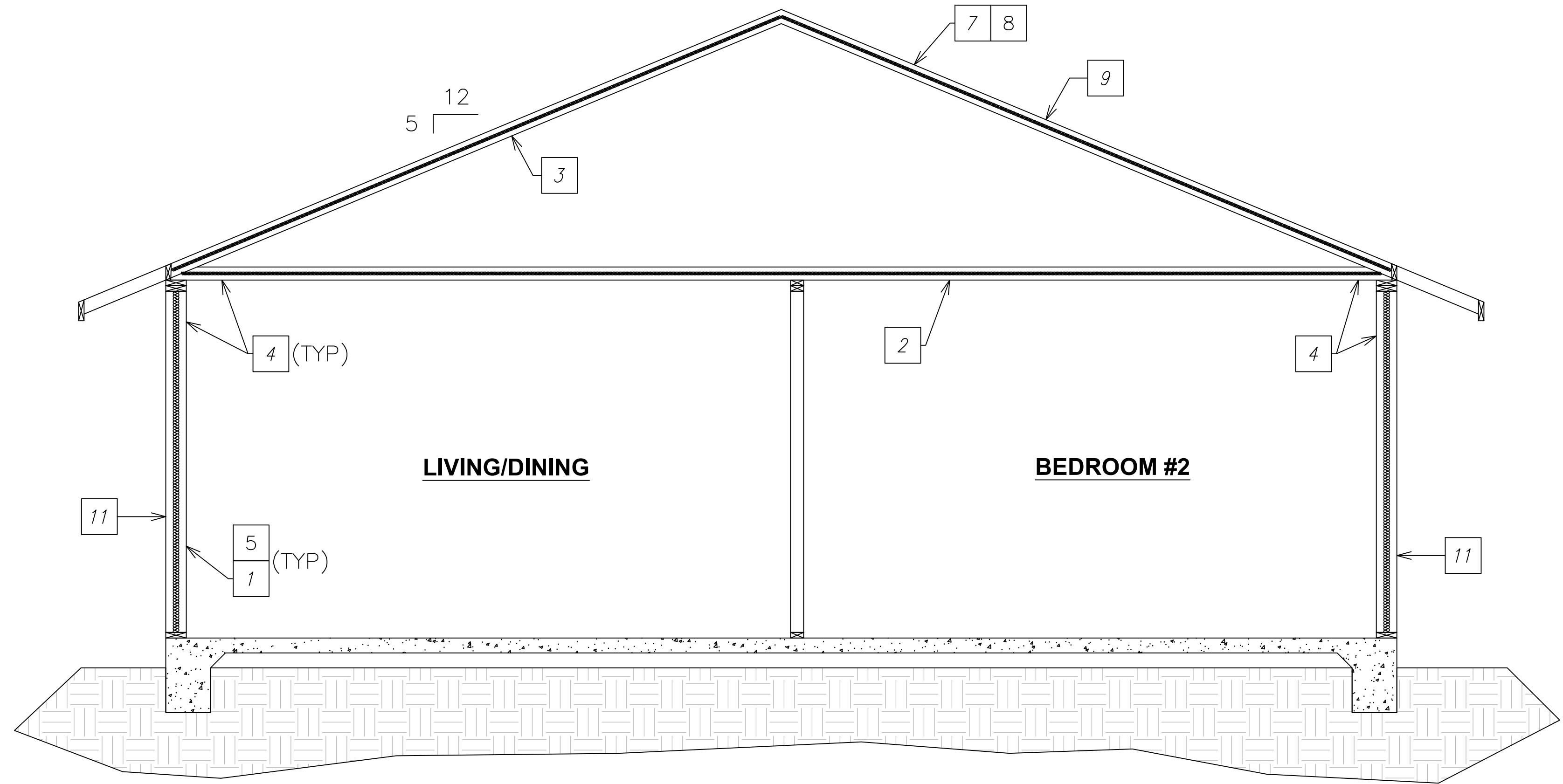
OPTIONAL ROLL-IN SHOWER PLAN NOTES

NOTE: OPTIONAL ROLL IN SHOWERS OFFERED FOR CONVENIENCE NOT FOR COMPLIANCE WITH ACCESSIBILITY STANDARDS.

1. SHOWER COMPARTMENT SEAT
 - MUST BE FOLDING TYPE, NOT TO EXCEED MORE THAN 6 INCHES FROM MOUNTING WALL WHEN FOLDED
 - LOCATED WITHIN 27 INCHES OF SHOWER CONTROLS
 - MOUNTED MINIMUM 17 INCHES AND MAXIMUM 19 INCHES ABOVE BATHROOM FINISHED FLOOR.
 - SEAT INSTALLED ON SIDE WALL ADJACENT TO CONTROLS AND EXTENDING FROM BACK WALL TO POINT WITHIN 3 INCHES OF SHOWER COMPARTMENT ENTRY
 - STRUCTURAL ADEQUACY OF MOUNTING HARDWARE AND FASTENERS TO ACCOMMODATE 250 POUND POINT LOAD APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE
2. SHOWER GRAB BARS
 - MOUNTED MINIMUM 33 INCHES AND MAXIMUM 36 INCHES ABOVE SHOWER FLOOR
 - NOT EXTENDING OVER SHOWER SEAT
 - IF CROSS SECTION IS CIRCULAR, MINIMUM 1-1/4" AND MAXIMUM 2" OUTSIDE DIAMETER
 - IF CROSS SECTION IS NON-CIRCULAR, MINIMUM 4" AND MAXIMUM 4.8" PERIMETER AND MAXIMUM 2-1/4" CROSS SECTION DIMENSION
 - GRAB BARS MOUNTED ADJACENT TO A WALL, 1-1/2" ABSOLUTE SPACE BETWEEN WALL AND GRAB BAR
 - MINIMUM 1-1/2" SPACE BETWEEN GRAB BAR AND PROJECTING OBJECTS BELOW AND AT ENDS
 - MINIMUM 12 INCH SPACE BETWEEN GRAB BAR AND PROJECTING OBJECTS ABOVE
 - SURFACE MATERIAL OF ANY WALLS OR OBJECTS ADJACENT TO GRAB BARS MUST BE FREE OF SHARP OR ABRASIVE ELEMENTS AND HAVE ROUNDED EDGES.
 - STRUCTURAL ADEQUACY OF MOUNTING HARDWARE AND FASTENERS TO ACCOMMODATE 250 POUND POINT LOAD APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE
 - WALL REINFORCEMENT TO BE PROVIDED AT LOCATION OF GRAB BARS (E.G. BLOCKING)
 - REINFORCEMENT SHALL BE A SOLID LUMBER OR OTHER CONSTRUCTION MATERIALS APPROVED BY THE ENFORCING AGENCY
 - REINFORCEMENT SHALL NOT BE LESS THAN 2"x8" NOMINAL LUMBER (1-1/2"x7-1/4" ACTUAL DIMENSION) OR OTHER CONSTRUCTION MATERIAL PROVIDING EQUAL HEIGHT AND LOAD CAPACITY. REINFORCEMENT SHALL BE LOCATED BETWEEN 32 INCHES AND 39-1/4 INCHES ABOVE THE FINISHED FLOOR FLUSH WITH THE WALL FRAMING.
 - SHOWER REINFORCEMENTS SHALL BE CONTINUOUS WHERE WALL FRAMING IS PROVIDED.
3. OPERABLE PARTS OF SHOWER CONTROLS AND FAUCETS:
 - INSTALLED ON BACK WALL OF SHOWER COMPARTMENT ADJACENT TO SEAT WALL
 - LOCATED MINIMUM 19 INCHES AND MAXIMUM 27 INCHES FROM SEAT WALL
 - LOCATED ABOVE GRAB BAR BUT NO HIGHER THAN 48 INCHES ABOVE SHOWER FLOOR
 - CENTERLINE AT MINIMUM 39 INCHES AND MAXIMUM 41 INCHES ABOVE SHOWER FLOOR
 - SINGLE-LEVER DESIGN
 - OPERABLE WITH MAXIMUM 5 POUNDS OF FORCE
 - OPERABLE WITH ONE HAND AND WITHOUT TIGHT GRASPING, PINCHING, OR TWISTING OF WRIST
4. SPRAYER UNIT AND ASSOCIATED OPERABLE PARTS SHALL BE PROVIDED PER THE FOLLOWING:
 - OPERABLE PARTS, INCLUDING HANDLE, TO BE INSTALLED ON BACK WALL OF SHOWER COMPARTMENT MINIMUM 19 INCHES AND MAXIMUM 27 INCHES FROM SEAT WALL
 - OPERABLE PARTS LOCATED ABOVE GRAB BAR BUT NO HIGHER THAN 48 INCHES ABOVE SHOWER FLOOR, MEASURED TO TOP OF MOUNTING BRACKET
 - MINIMUM 59 INCH LONG HOSE
 - CAPABLE FOR USE AS FIXED SHOWER HEAD AND HAND HELD SHOWER
 - ON/OFF CONTROL WITH NON-POSITIVE SHUT OFF
 - ADJUSTABLE –HEIGHT SHOWER HEADS ON VERTICAL BAR SHALL NOT OBSTRUCT USE OF BATHTUB GRAB BARS
5. WHERE SOAP DISHES ARE PROVIDED, MAXIMUM 40 INCHES ABOVE SHOWER FLOOR AND WITHIN REACH LIMITS FROM THE SHOWER SEAT
6. MAXIMUM 2.1% SLOPE IN ALL DIRECTIONS OF ROLL-IN SHOWER FLOORS
7. MAXIMUM $\frac{1}{2}$ " HIGH THRESHOLDS WITH MAXIMUM 50% BEVELED SLOPE AT ROLL-IN SHOWERS
8. WHERE DRAINS ARE PROVIDED AT ROLL-IN SHOWERS, MAXIMUM $\frac{1}{4}$ " GRATE OPENINGS FLUSH WITH SHOWER FLOOR SURFACE



REVISIONS			
- - - - -			
PROJECT TITLE	CITY OF HANFORD – PRE-REVIEWED ADU PROGRAM		
SHEET DESCRIPTION	FLOOR PLAN		
AGENCY	DATE	SJV REAP	
ADU SQFT	10/28/2024	908	
DRAWING SCALE			
$1/2" = 1'$			
OF HANFORD		BUILDING DIVISION	
APPROVED			
SHEET			
IS SET OUT PLANS AND SPECIFICATIONS BE KEPT ON THE JOB AT ALL TIMES AND CHANGES OR ALTERATIONS SHALL BE DE except BY THE BUILDING DIVISION.			
THE STAMPING OF THIS PLAN AND SPECIFICATIONS SHALL NOT BE HELD TO REMIT OR TO BE AN APPROVAL OF THE ACTION OF ANY PROVISIONS OF ANY CITY OR STATE LAW. "REVIEWED FOR CODE COMPLIANCE."			
BY: <i>Mitchell Coach</i>			
12/11/2025			



SECTION KEYNOTES

- 1 WALL INSULATION: R21
- 2 CEILING INSULATION: R38
- 3 ROOF INSULATION: R13
- 4 INTERIOR FINISH: $\frac{1}{2}$ " GYPSUM BOARD (UNLESS WALL IS FIRE RESISTANT ASSEMBLE)
- 5 EXTERIOR WALL: 2x6 STUD WALL @ 24" O.C.
- 6 INTERIOR WALL: 2x4 STUD WALL @ 24" O.C.
- 7 RADIANT BARRIER IS REQUIRED
- 8 ROOFING: REFER TO ELEVATIONS
- 9 PRE-ENGINEERED, PRE-FABRICATED ROOF TRUSSES (REQUIRED BY APPLICANT AT TIME OF SUBMITTAL)
- 10 MANUFACTURED DRAGG TRUSS
- 11 EXTERIOR WALL COVERING AS DENOTED AT EXTERIOR ELEVATION. ALL WALL COVERINGS SHALL BE APPLIED OVER WATER RESISTIVE BARRIER APPLIED TO WOOD SHEATHING PER (CRC 703.7.3.1)

DISCLAIMER:
BY USING THESE STANDARD PLANS, THE USER AGREES TO RELEASE THE CITY OF HANFORD FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS AND DEMANDS ON ACCOUNT OF ANY INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY, ARISING OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS. THE USE OF THESE PLANS DOES NOT ELIMINATE OR REDUCE THE USER'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION.

CITY OF HANFORD



REVISIONS

PROJECT TITLE CITY OF HANFORD –
SHEET DESCRIPTION PRE-REVIEWED ADU PROGRAM

ADU SQFT 908

DRAWING SCALE

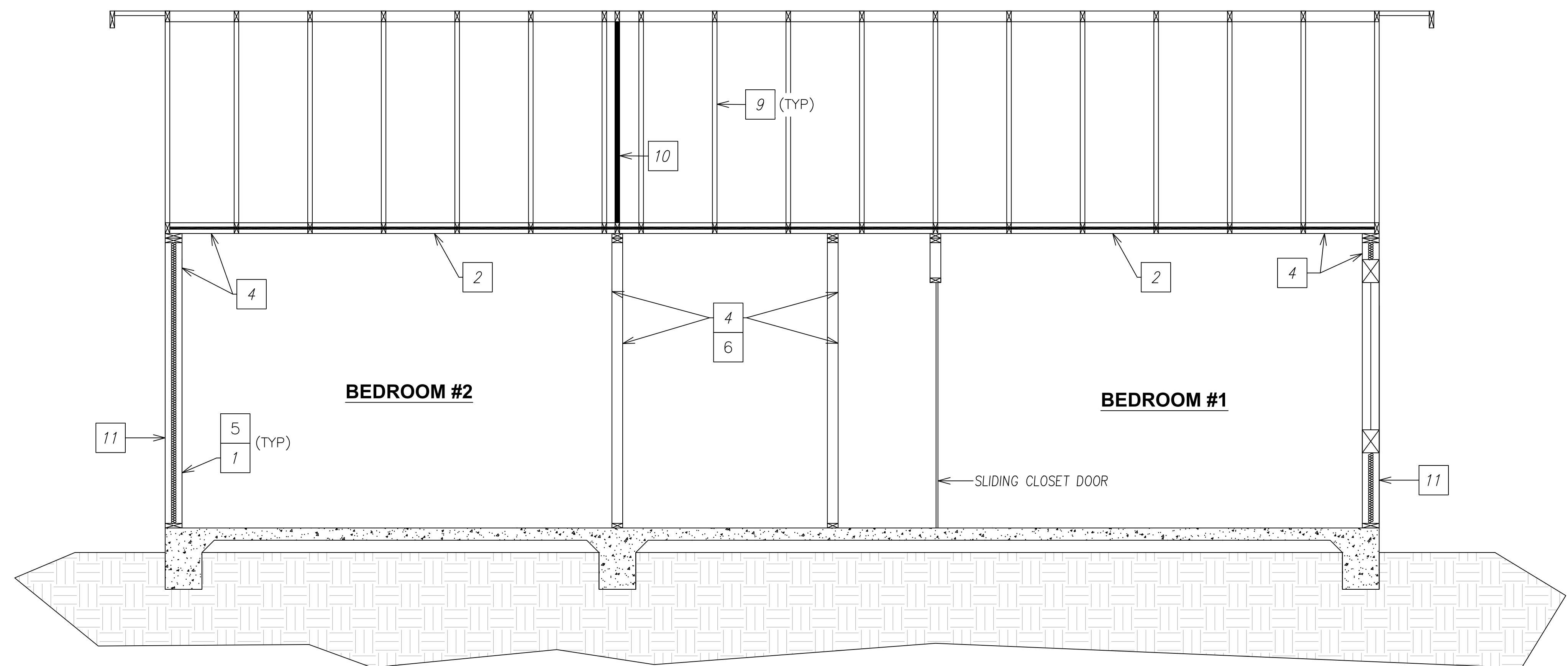
1/2" = 1'

CITY OF HANFORD BUILDING DIVISION
APPROVED

THESE PLANS AND SPECIFICATIONS
MAY NOT BE USED OR REFERENCED AT ANY TIME
NO CHANGES OR ALTERATIONS SHALL BE
MADE EXCEPT BY THE BUILDING DIVISION.

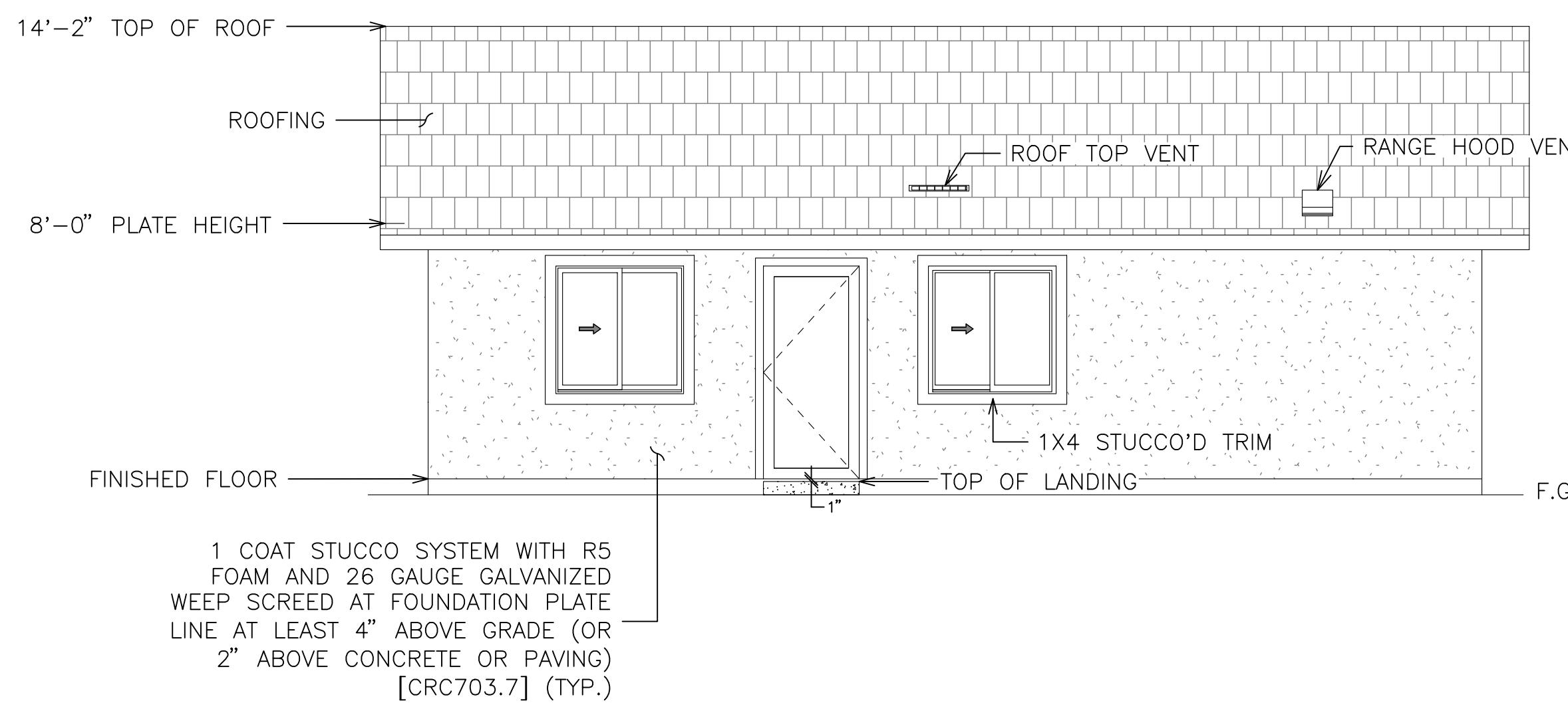
THE STAMPING ON THIS SHEET
SPECIFICATIONS SHALL NOT BE HELD TO
PERMIT OR TO BE AN APPROVAL OF THE
WORK. THIS SHEET IS THE PROPERTY OF THE
CITY OF HANFORD AND IS TO BE KEPT FOR
CODE COMPLIANCE.

BY: *Michael Couch*
12/11/2025

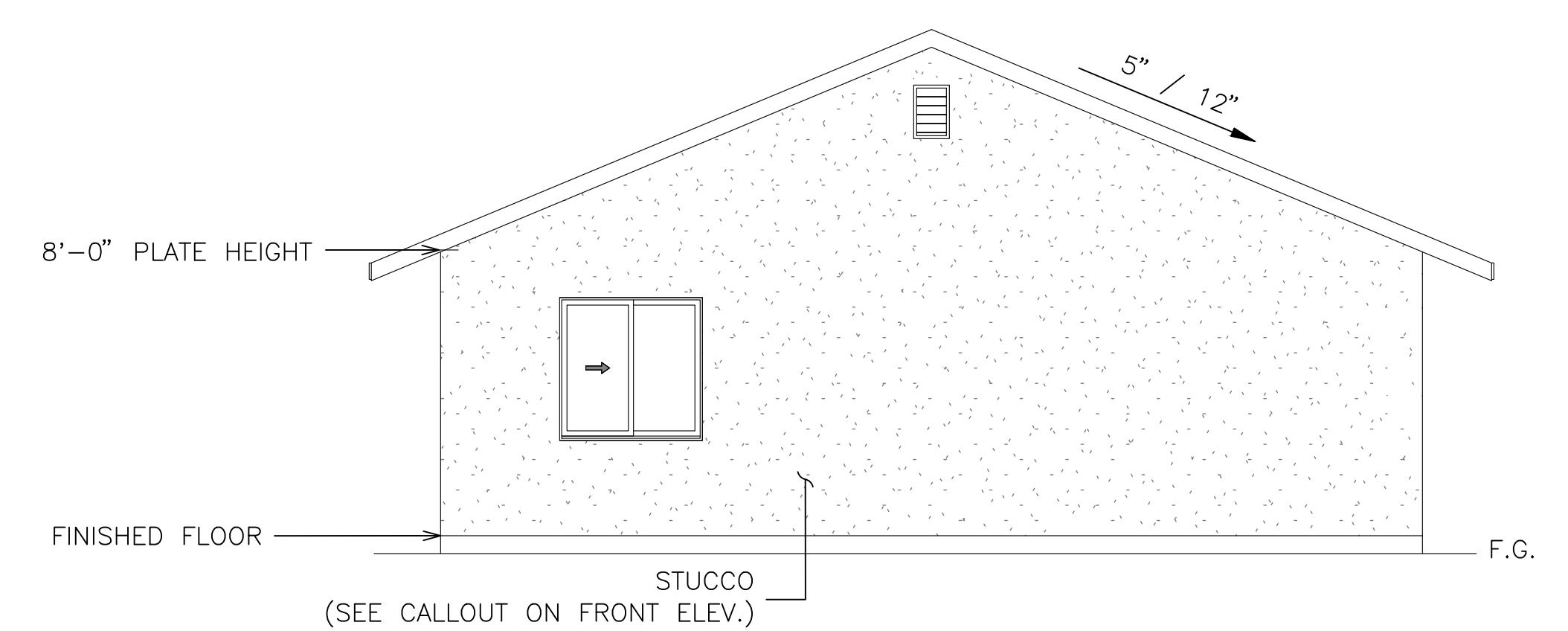


These plans and documents have been reviewed for compliance with the applicable codes requirements of the jurisdiction. The stamping of these plans shall not be held to permit or be an approval of any violation of applicable codes and standards nor relieve the owner, design professional of record or contractor of compliance with applicable codes and standards

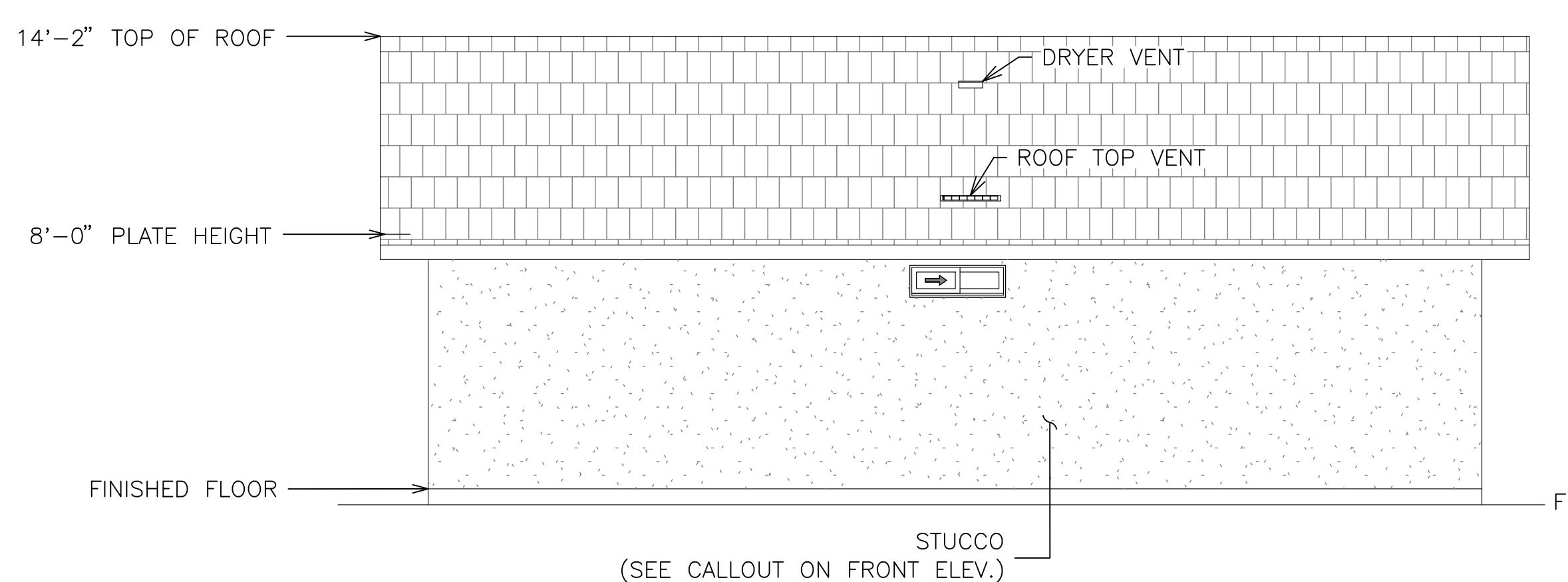
ROD CARSEY CONSULTING & PLAN CHECK
SERVICE



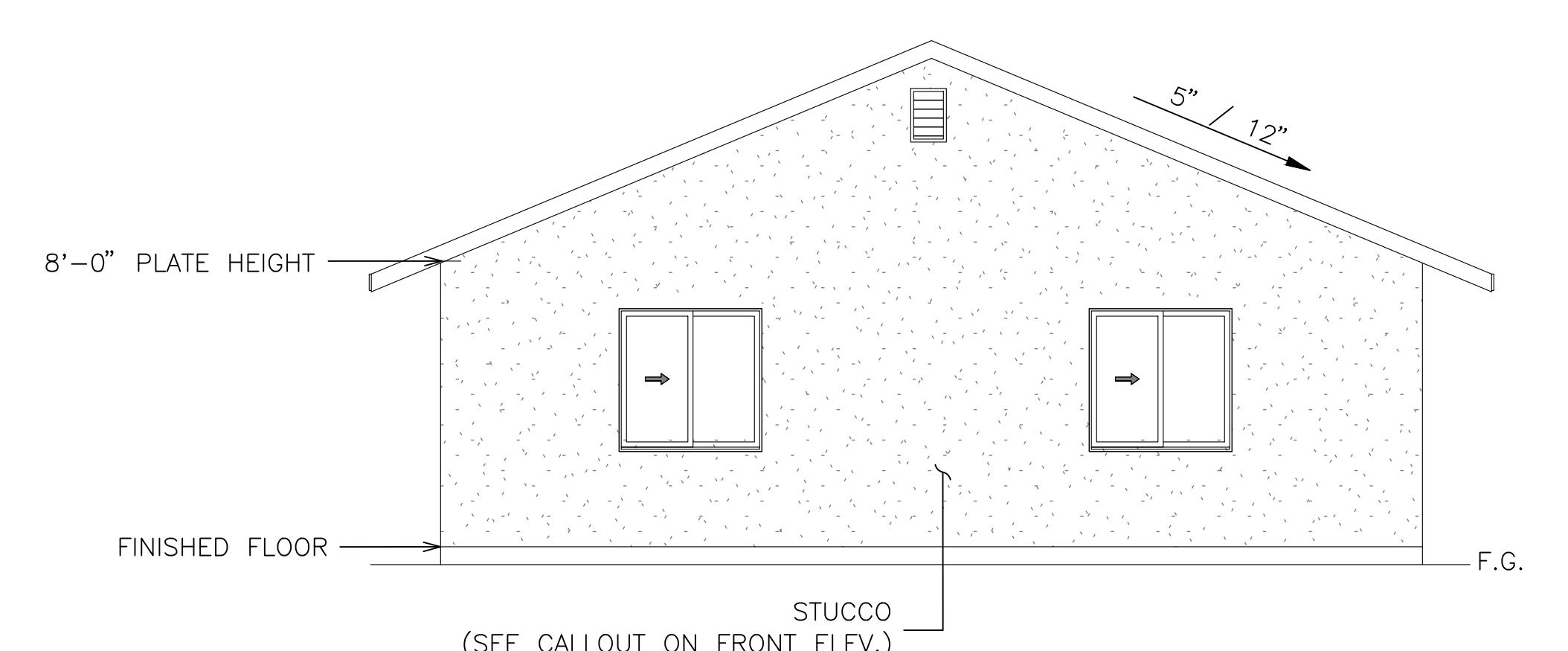
FRONT ELEVATION



LEFT ELEVATION



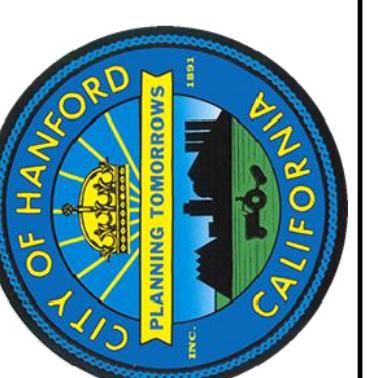
REAR ELEVATION



RIGHT ELEVATION

DISCLAIMER:
BY USING THESE STANDARD PLANS, THE USER AGREES TO RELEASE THE CITY OF HANFORD FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS AND DEMANDS ON ACCOUNT OF ANY INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY, ARISING OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS. THE USE OF THESE PLANS DOES NOT ELIMINATE OR REDUCE THE USER'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION.

CITY OF HANFORD



REVISIONS

PROJECT TITLE	CITY OF HANFORD – PRE-REVIEWED ADU PROGRAM	ELEVATION A
ADU SQFT	SHEET DESCRIPTION	DATE
908	S.JV REAP	10/28/2024

DRAWING SCALE	
1/4" = 1'	

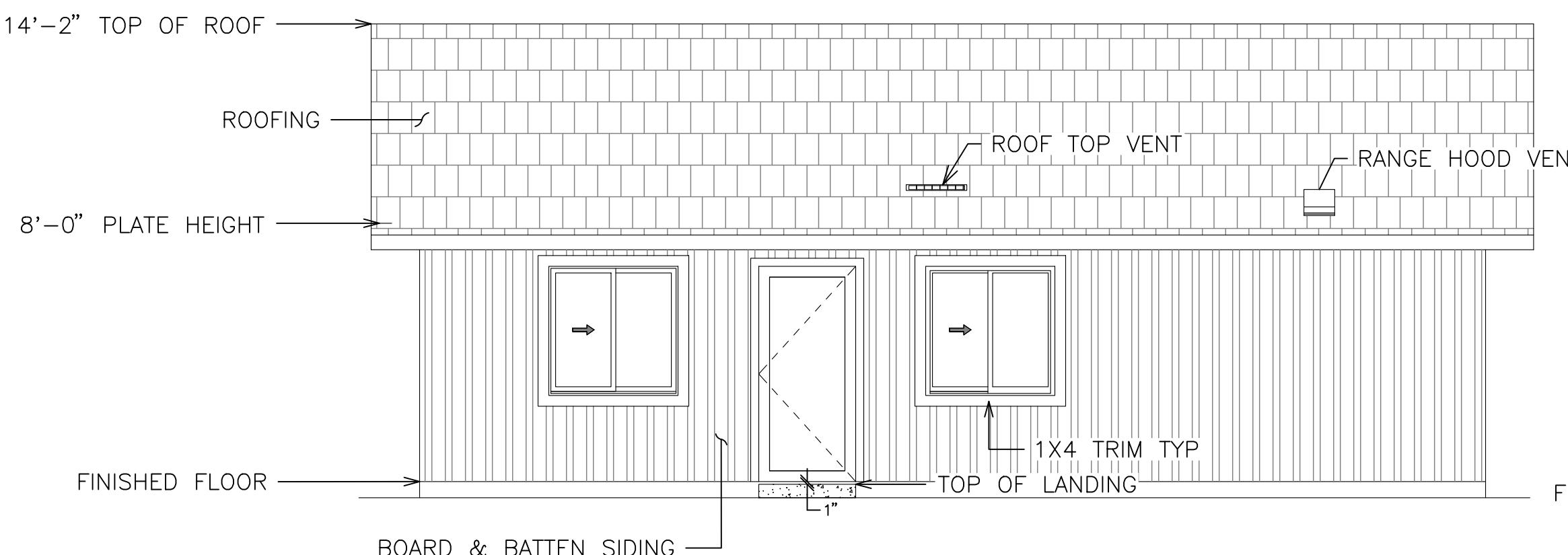
CITY OF HANFORD **BUILDING DIVISION**
APPROVED

THIS SHEET PLANS AND SPECIFICATIONS
MAY NOT BE USED OR REFERRED TO AT ANY TIME
AND NO CHANGES OR ALTERATIONS SHALL BE
MADE EXCEPT BY THE BUILDING DIVISION.

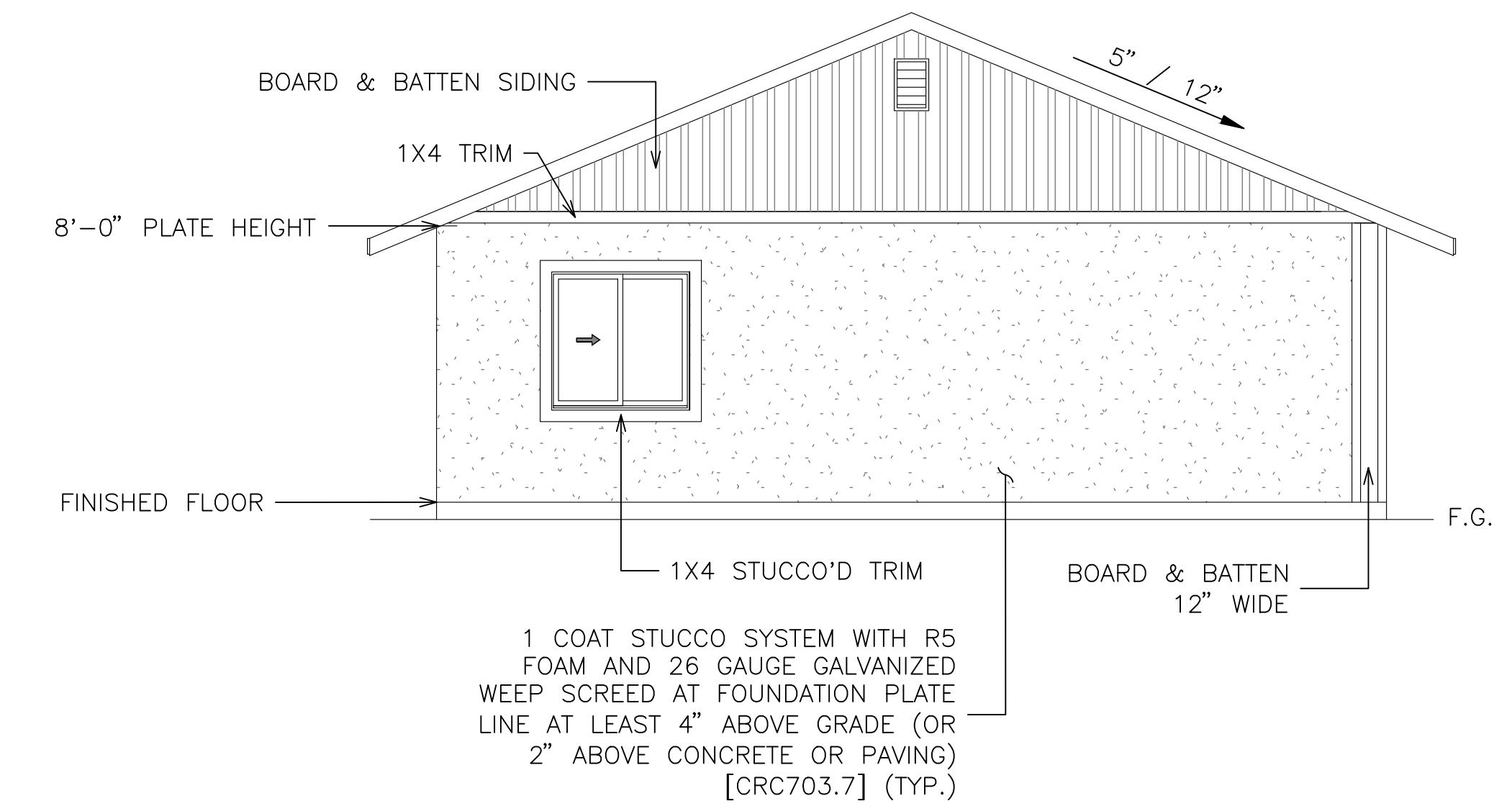
THE STAMPING ON THIS SHEET
SPECIFICATIONS SHALL NOT BE USED TO
PERMIT OR TO GRANT APPROVAL OF THE
WORK. THIS SHEET PLANS AND SPECIFICATIONS
SHALL BE KEPT ON FILE FOR A PERIOD OF
TIME AS REQUIRED BY THE CITY OF HANFORD
ORDINANCE OR STATE LAW AS REVIEWED FOR
CODE COMPLIANCE.

BY: *Michelle Couch*
12/11/2025

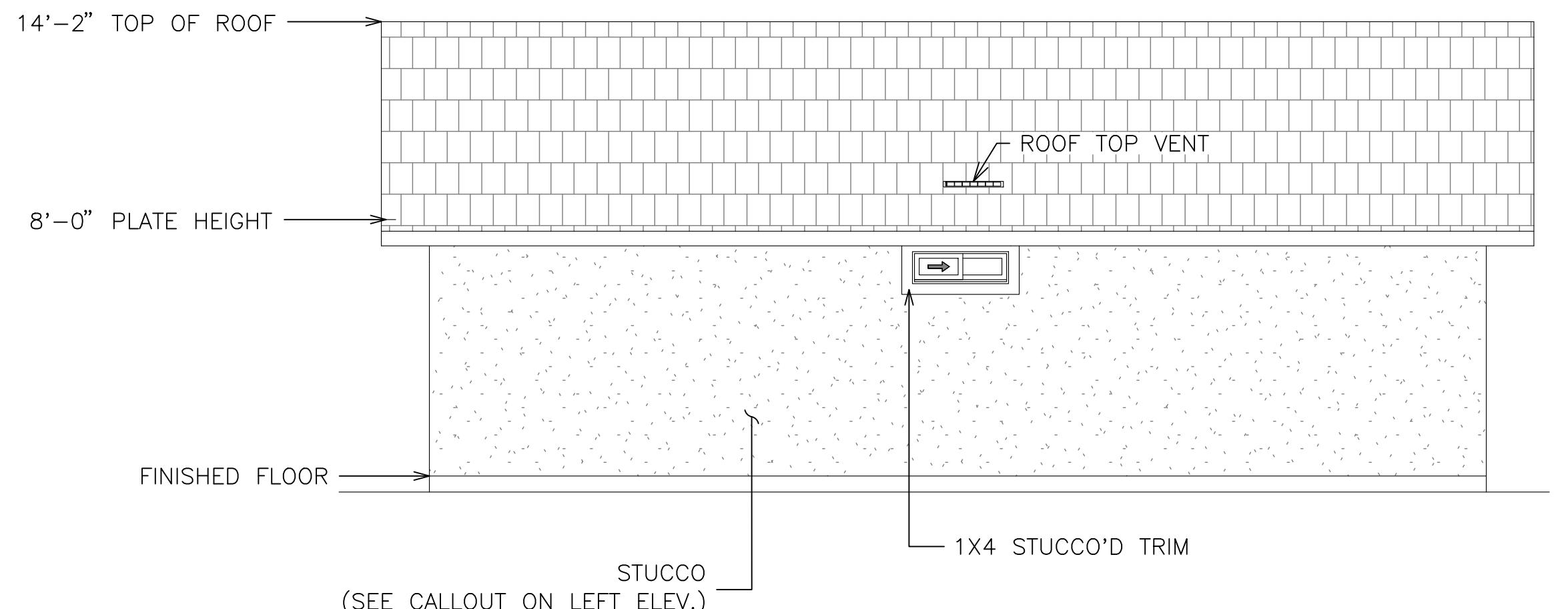
3



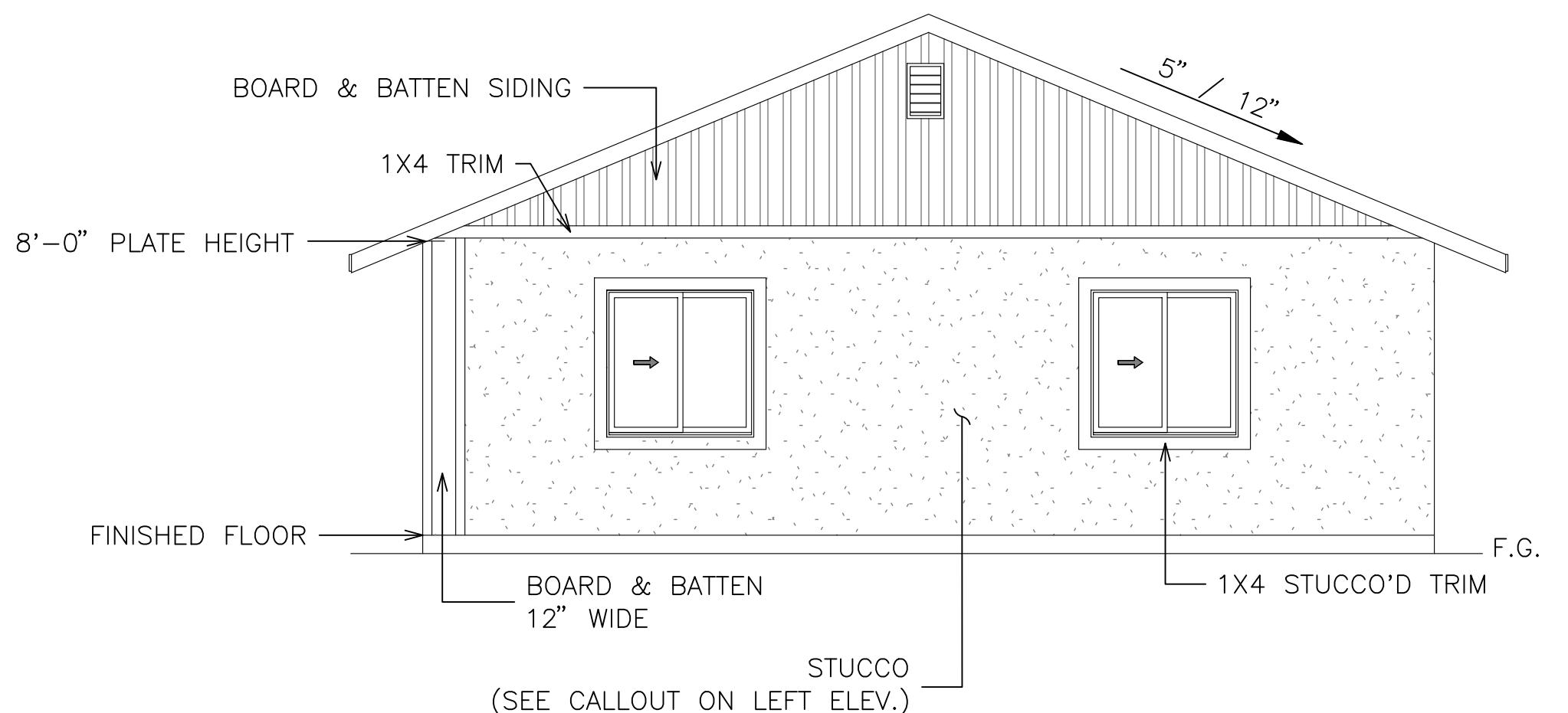
FRONT ELEVATION



LEFT ELEVATION



REAR ELEVATION

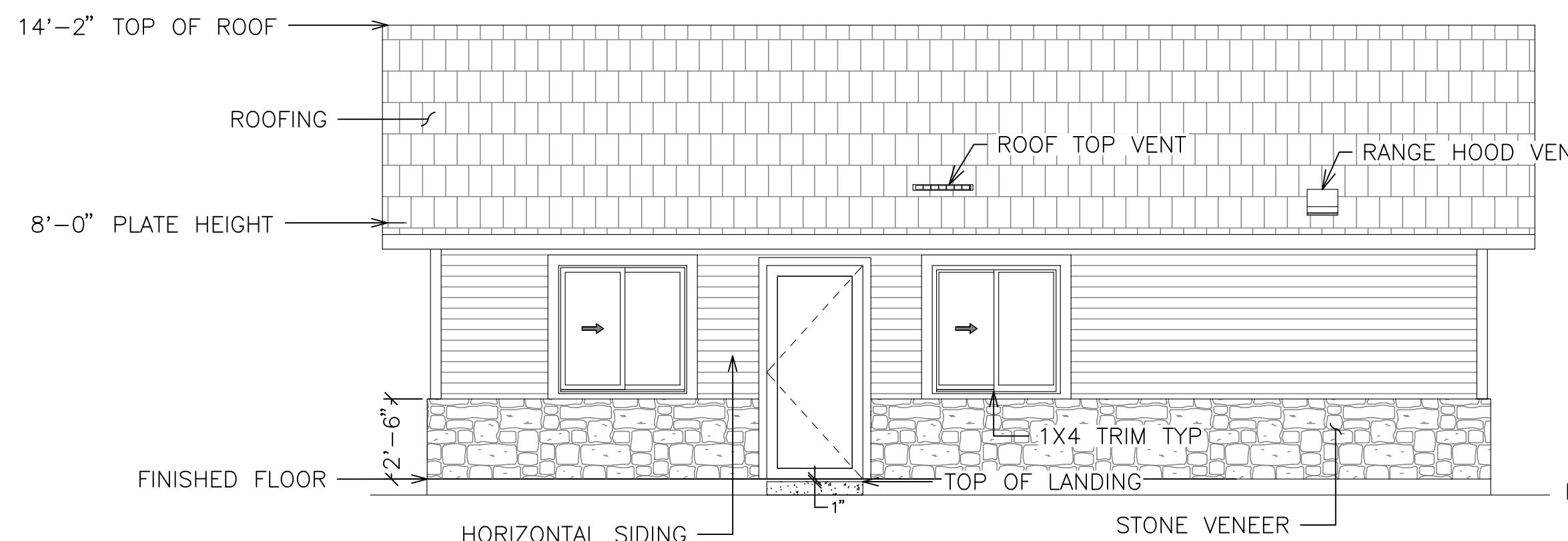


RIGHT ELEVATION

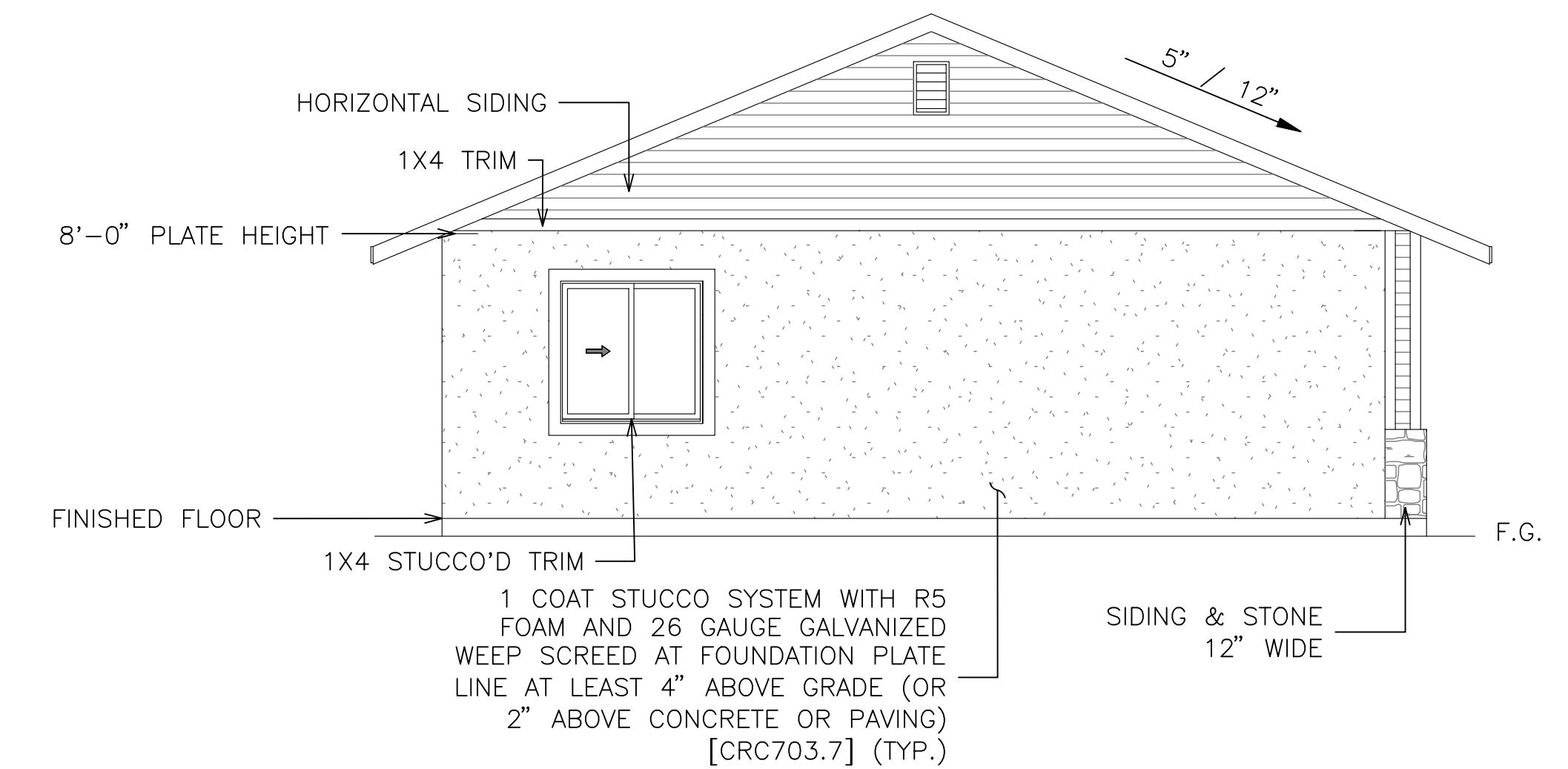
These plans and documents have been reviewed for compliance with the applicable codes and standards of the jurisdiction. The stamping of these plans shall not be held to permit or be an approval of any violation of applicable codes and standards nor relieve the owner, design professional of record or contractor of compliance with applicable codes and standards.

OD CARSEY CONSULTING & PLAN CHECK
ERVICE

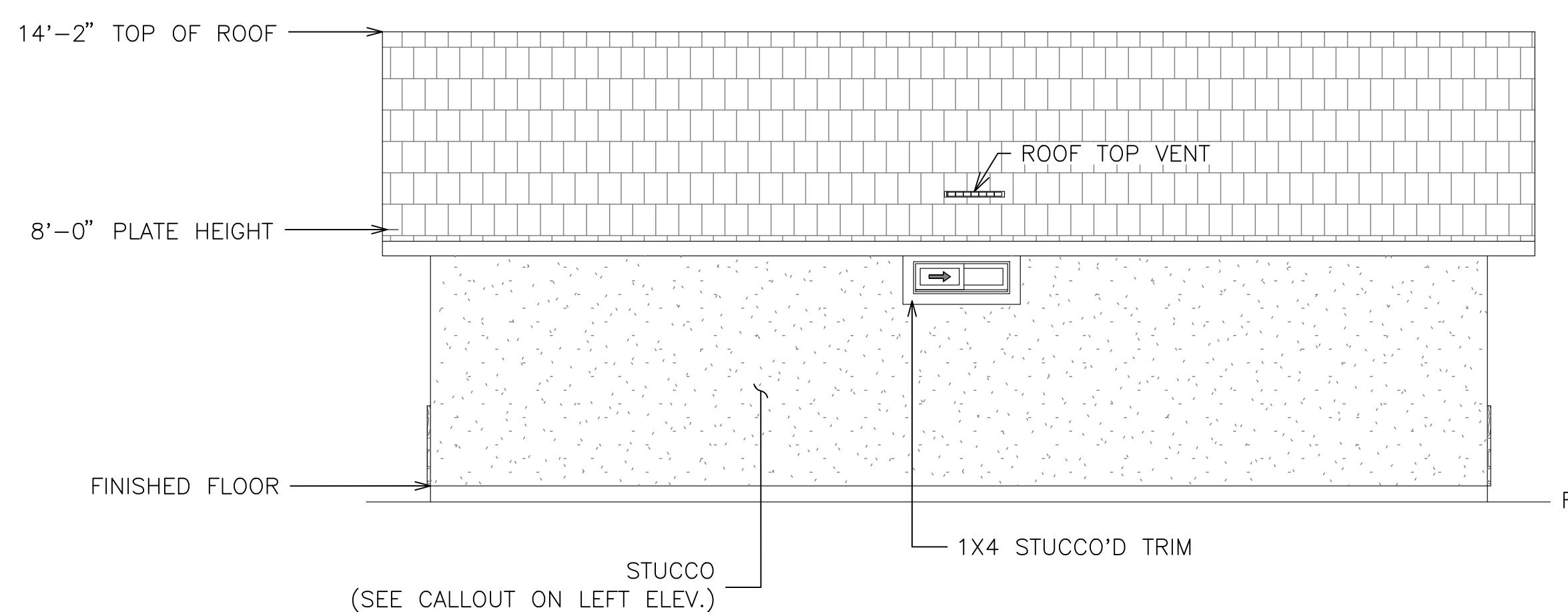
REVISIONS			
PROJECT TITLE	CITY OF HANFORD – PRE-REVIEWED ADU PROGRAM	SHEET DESCRIPTION	AGENCY
ADU	SQFT	ELEVATION B	DATE
			10/28/2024
908			
DRAWING SCALE			
$1/4" = 1'$			
CITY OF HANFORD		BUILDING DIVISION	
APPROVED			
SHEET THIS SET OF PLANS AND SPECIFICATIONS MUST BE KEPT ON THE JOB AT ALL TIMES AND NO CHANGES OR ALTERATIONS SHALL BE MADE EXCEPT BY THE BUILDING DIVISION.			
THE STAMPING OF THIS PLAN AND SPECIFICATIONS SHALL NOT BE HELD TO PERMIT OR TO BE AN APPROVAL OF THE VIOLATION OF ANY PROVISIONS OF ANY CITY ORDINANCE OR STATE LAW. "REVIEWED FOR CODE COMPLIANCE."			
BY: <i>Mitchell Coach</i> 12/11/2025			



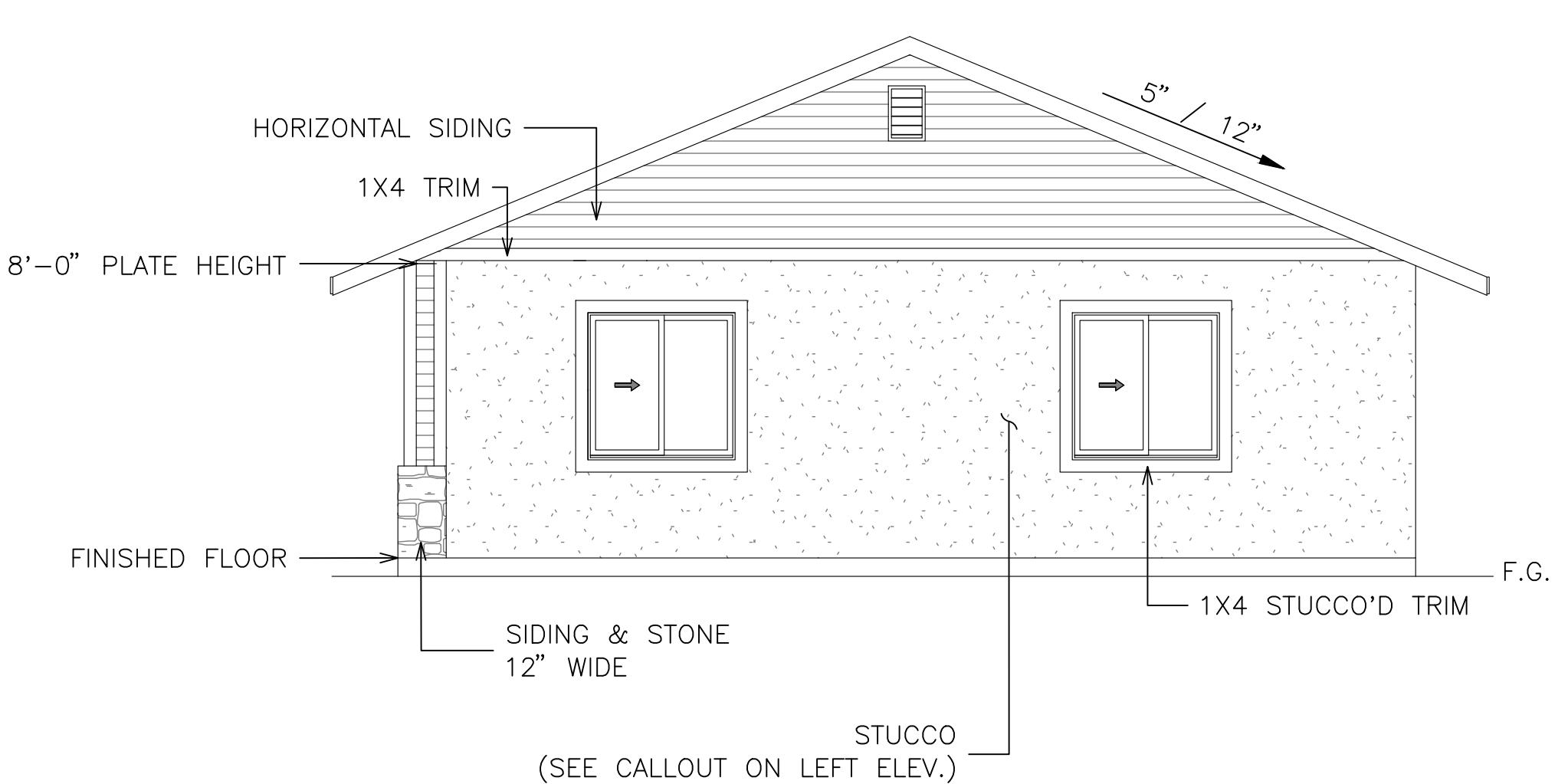
FRONT ELEVATION



LEFT ELEVATION

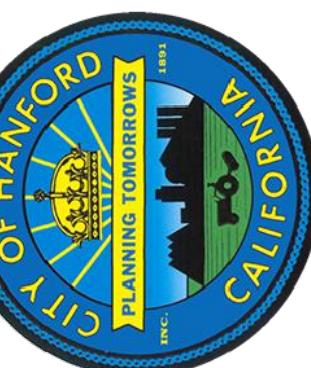


REAR ELEVATION



RIGHT ELEVATION

CITY OF HANFORD



REVISIONS

PROJECT TITLE
CITY OF HANFORD -
PRE-REVIEWED ADU PROGRAM

SHEET DESCRIPTION
ADU SQFT

908

AGENCY
SJV REAP

DATE
10/28/2024

DRAWING SCALE
1/4" = 1'
CITY OF HANFORD
BUILDING DIVISION
APPROVED

THIS SHEET PLANS AND SPECIFICATIONS
MAY NOT BE CITED AS A PERMIT. THERE
ARE NO CHANGES OR ALTERATIONS SHALL BE
MADE EXCEPT BY THE BUILDING DIVISION.

THE STAMPING ON THIS SHEET
SPECIFICATIONS SHALL NOT BE HELD TO
PERMIT OR TO AN APPROVAL OF THE
WORK. THIS SHEET PLANS AND SPECIFICATIONS
SHALL BE HELD TO THE APPROVAL OF THE
ORDINANCE OR STATE LAW AS REVIEWED FOR
CODE COMPLIANCE.

BY: *Michelle Couch*
12/11/2025

5

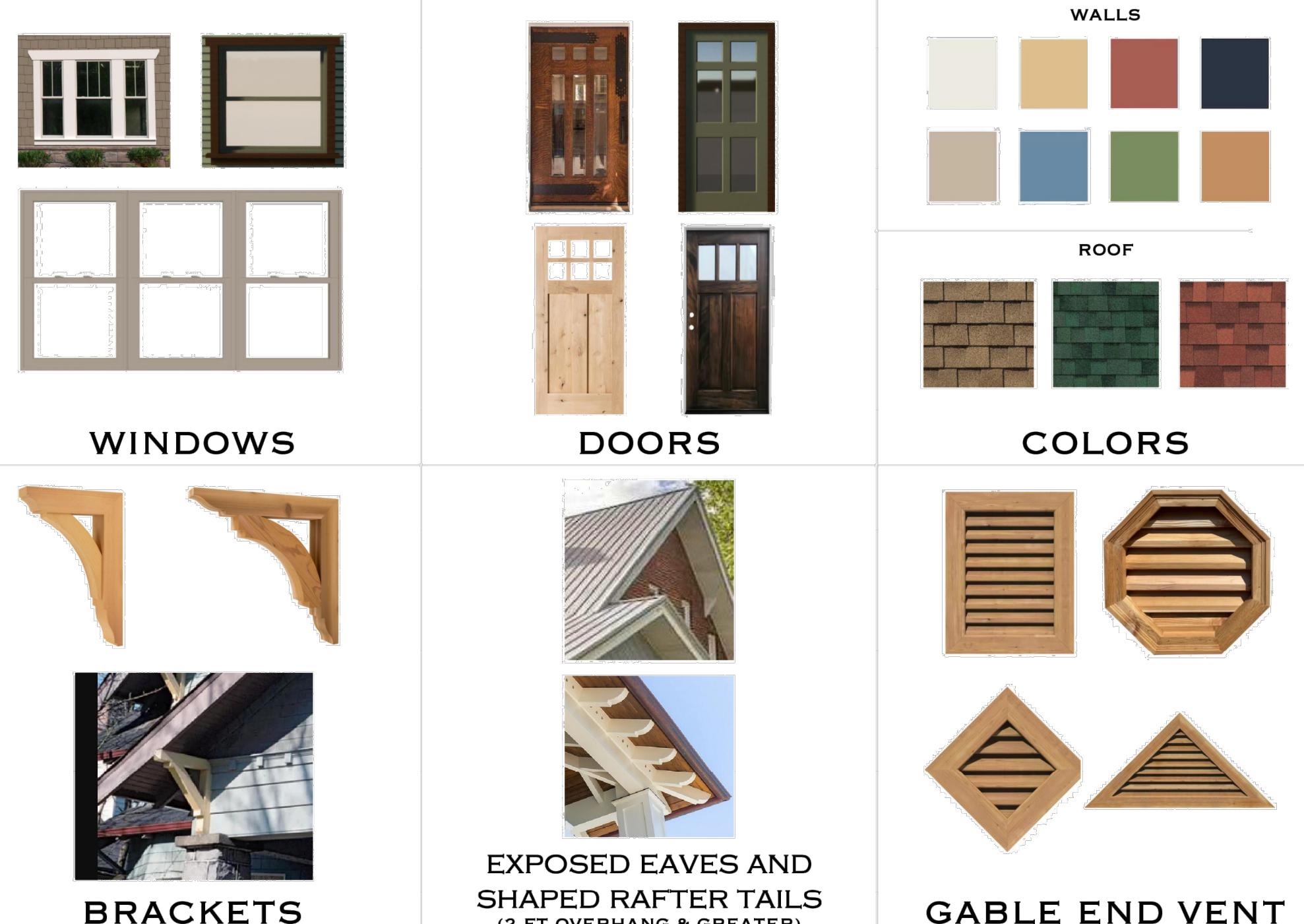
DISCLAIMER:
BY USING THESE STANDARD PLANS, THE USER AGREES TO
RELEASE THE CITY OF HANFORD FROM ANY AND ALL CLAIMS,
LIABILITIES, SUITS AND DEMANDS ON ACCOUNT OF ANY
INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY,
OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS. THE
USER'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION.

ARCHITECTURAL DETAILS

CRAFTSMAN / BUNGALOW



CRAFTSMAN ARCHITECTURE IS KNOWN FOR ITS EMPHASIS ON SIMPLICITY, FUNCTIONALITY, SOLIDLY MADE WITH NATURAL MATERIALS AND NATURE-INSPIRED COLORS AND MOTIFS.

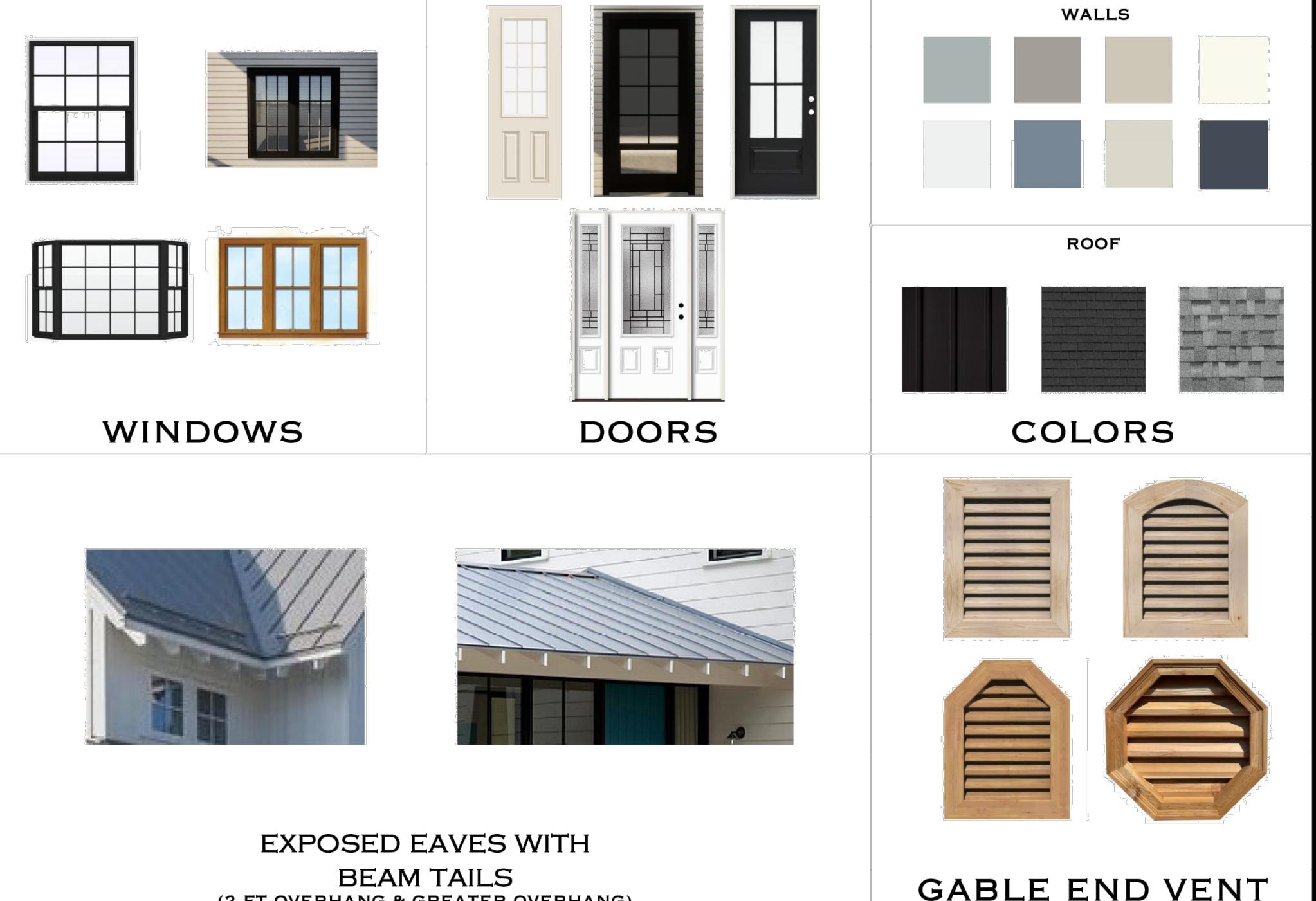


LIGHT FIXTURES

MODERN / FARMHOUSE



MODERN FARMHOUSE ARCHITECTURE BLENDS THE SIMPLICITY AND CHARM OF TRADITIONAL FARMHOUSES WITH CONTEMPORARY DESIGN ELEMENTS AND COLOR SCHEMES.

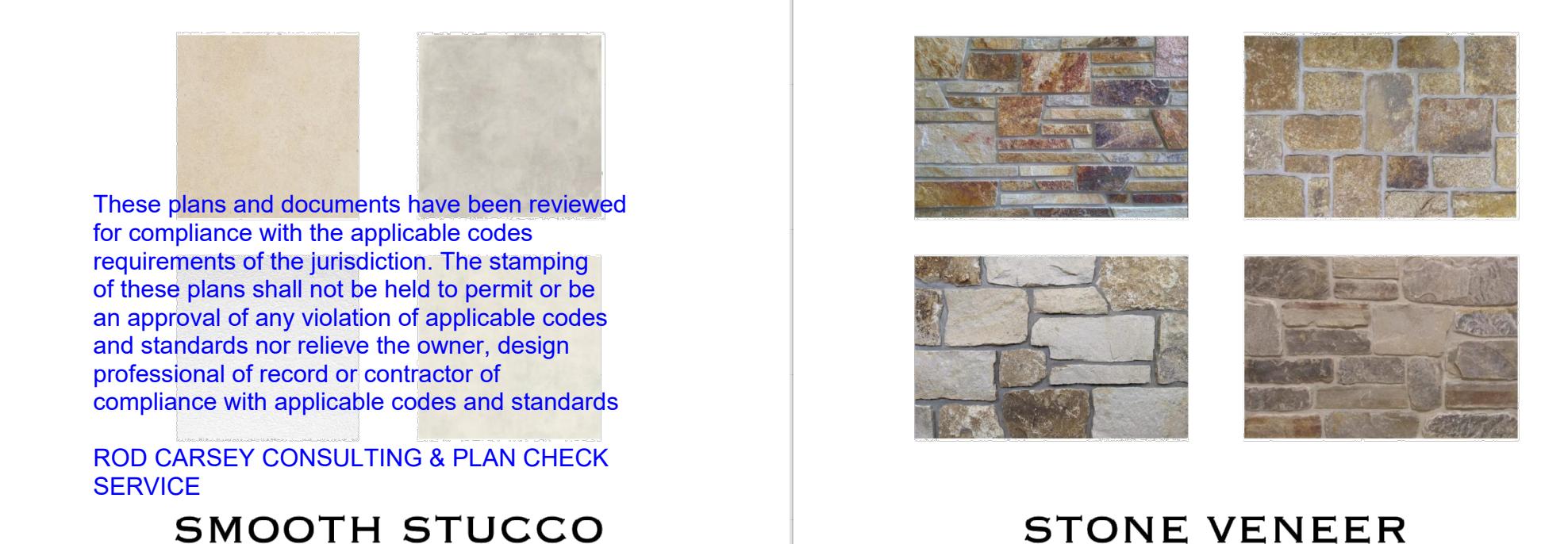
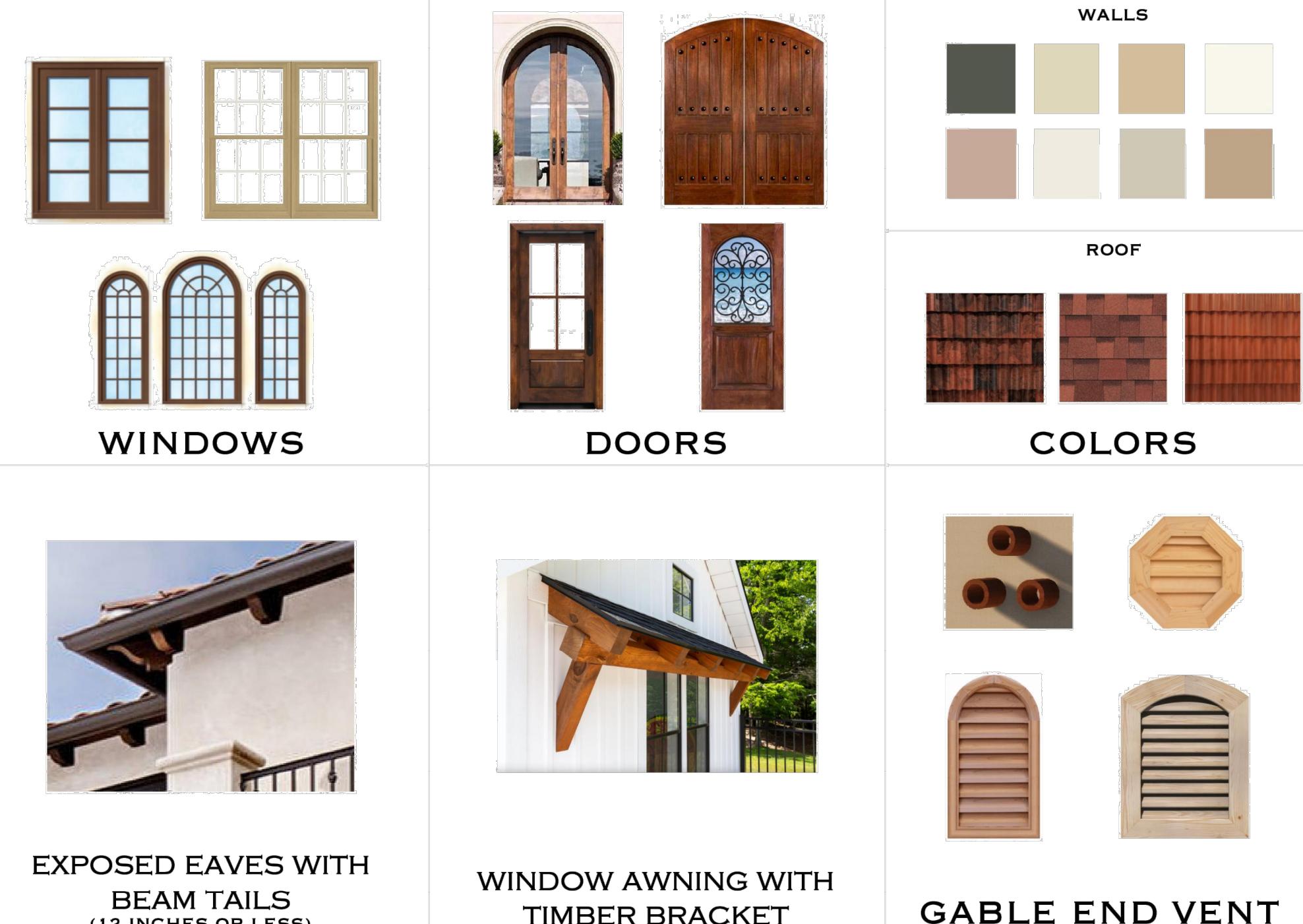


LIGHT FIXTURES

SPANISH / MEDITERRANEAN



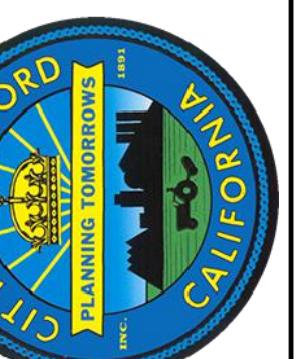
SPANISH MEDITERRANEAN ARCHITECTURE IS CHARACTERIZED BY ITS WARM AND INVITING AESTHETIC, THE ARE GENERALLY FREE ADAPTATIONS IN THE MISSION STYLE.



LIGHT FIXTURES

DISCLAIMER:
BY USING THESE STANDARD PLANS, THE USER AGREES TO RELEASE THE CITY OF HANFORD FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS AND DEMANDS ON ACCOUNT OF ANY INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY, INCLUDING INJURY OR DEATH, OR ECONOMIC LOSSES, ARISING OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS. THE USE OF THESE PLANS DOES NOT ELIMINATE OR REDUCE THE USER'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION.

CITY OF HANFORD



PROJECT TITLE	CITY OF HANFORD – PRE-REVIEWED ADU PROGRAM	
SHEET DESCRIPTION	ARCHITECTURAL DETAILS	
ADU SQFT	S.JV REAP	DATE 10/28/2024

908

DRAWING SCALE

CITY OF HANFORD BUILDING DIVISION APPROVED
SHEET PLANS AND SPECIFICATIONS MADE BY THE CITY OF HANFORD AT THIS TIME AND NO CHANGES OR ALTERATIONS SHALL BE MADE EXCEPT BY THE BUILDING DIVISION.
THE STAMPING SHALL NOT BE HELD TO PERMIT OR TO BE AN APPROVAL OF THE WORK. THE WORK MUST BE IN ACCORDANCE WITH THE CITY OF HANFORD BUILDING CODE OR WITH THE CITY OF HANFORD BUILDING DIVISION APPROVAL FOR CODE COMPLIANCE.
BY: *Michelle Couch*
12/11/2025

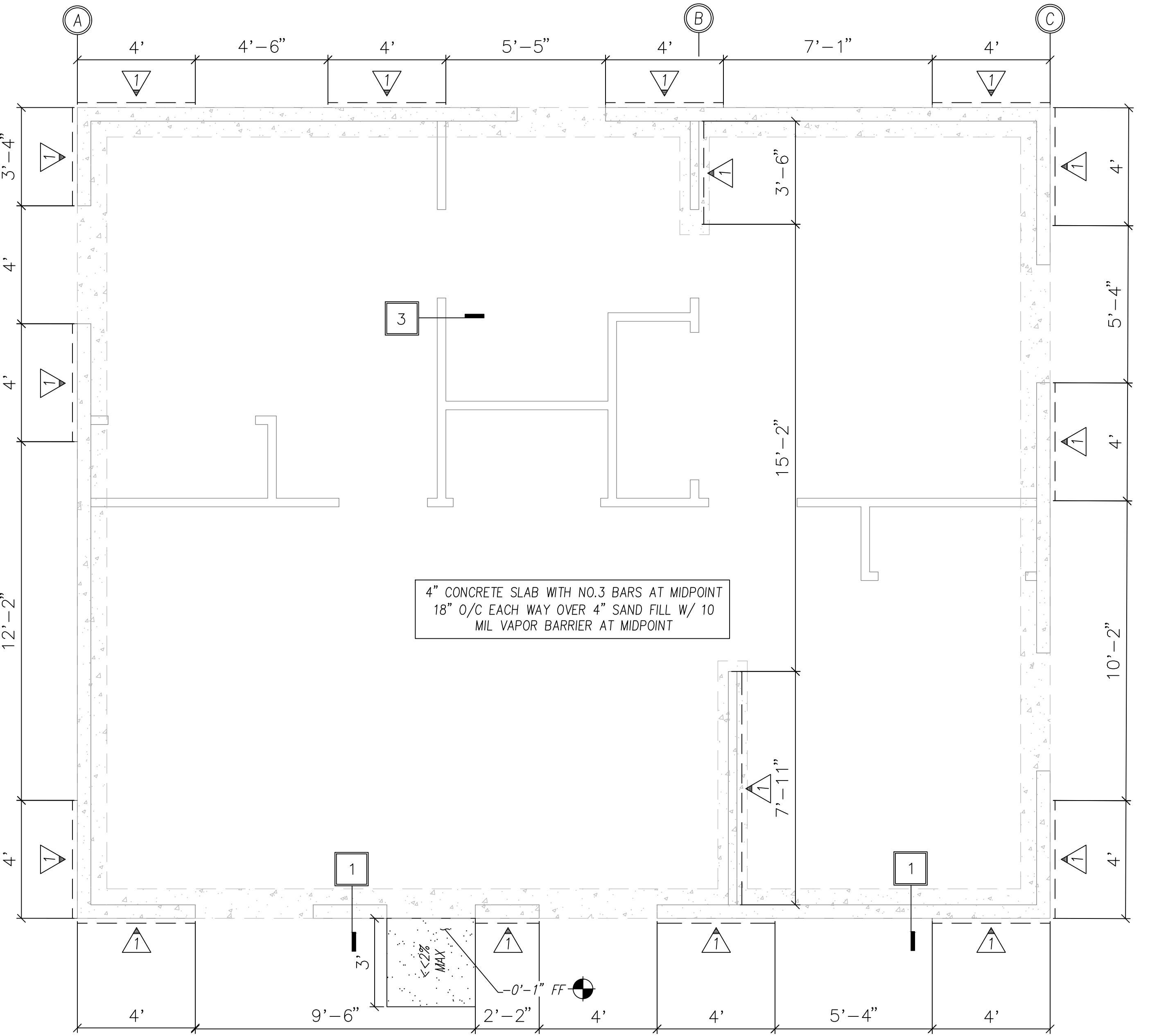
DISCLAIMER:
BY USING THESE STANDARD PLANS, THE USER AGREES TO
RELEASE THE CITY OF HANFORD FROM ANY AND ALL CLAIMS,
LIABILITIES, SUITS AND DEMANDS ON ACCOUNT OF ANY
INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY,
INCLUDING INJURY OR DEATH, OR ECONOMIC LOSSES, ARISING
OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS. THE
USE OF THESE PLANS DOES NOT ELIMINATE OR REDUCE THE
USER'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION.

CITY OF HANFORD



REVISIONS

PROJECT TITLE	CITY OF HANFORD – PRE-REVIEWED ADU PROGRAM	
SHEET DESCRIPTION	FOUNDATION PLAN	
AGENCY	SJN REAP	DATE
ADU SQFT	908	10/28/2024



KEYNOTES/LEGEND

- #1 BRACED WALL LINE
- #2 FOUNDATION PLAN DETAIL FOUND ON SHEET S3
- #3 INDICATES CONCRETE FOOTING AREA

WALL BRACING SCHEDULE		
TYPE	MATERIAL	NAILING/STAPLING
1	3/8" PLYWD ²	6d NAILS; EDGES @ 6" O.C., FIELD NAIL @ 12" O.C.

1. EXPANDED METAL OR WOVEN WIRE LATH STAPLED TO ALL STUDS, TOP AND BTM.
2. STRUCTURAL PANEL SHEATHING TO BE USED ON ALL EXTERIOR SURFACES INCLUDING AREAS ABOVE AND BELOW OPENINGS.

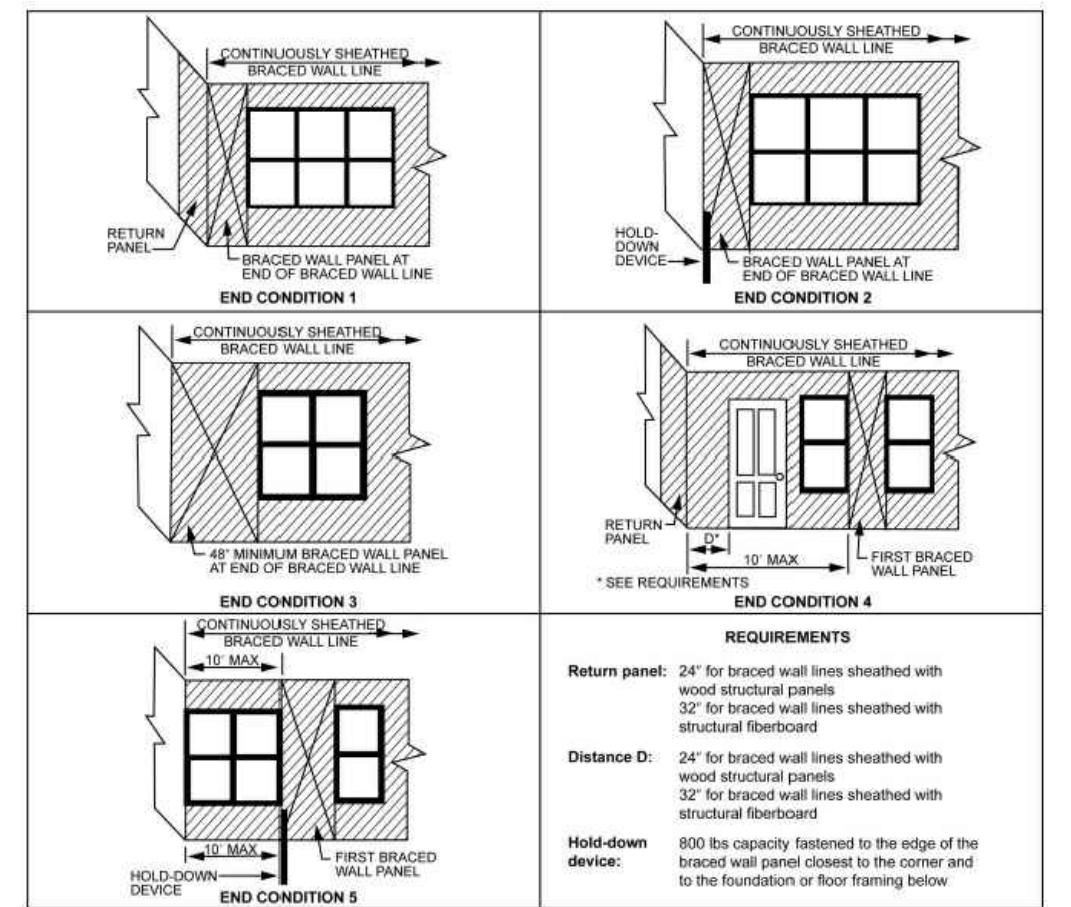
TABLE R602.3(3)
REQUIREMENTS FOR WOOD STRUCTURAL PANEL WALL SHEATHING USED TO RESIST WIND PRESSURES^{a,b,c}

SIZE	Penetration (inches)	MINIMUM WOOD STRUCTURAL PANEL SPAN RATING	MINIMUM NOMINAL PANEL THICKNESS (inches)	MAXIMUM WALL STUD SPACING (inches)	PANEL NAIL SPACING			ULTIMATE DESIGN WIND SPEED V_{ult} (mph)	
					Wind exposure category				
					Edges (inches o.c.)	Field (inches o.c.)	B		
6d Common (2.0" x 0.113")	1.5	24/0	3/8	16	6	12	140	115 110	
8d Common (2.5" x 0.131")	1.75	24/16	7/16	16	6	12	170	140 135	
				24	6	12	140	115 110	

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s.

- a. Panel strength axis parallel or perpendicular to supports. Three-ply plywood sheathing with studs spaced more than 16 inches on center shall be applied with panel strength axis perpendicular to supports.
- b. Table is based on wind pressures acting toward and away from building surfaces in accordance with Section R301.2. Lateral bracing requirements shall be in accordance with Section R602.10.
- c. Wood structural panels with span ratings of Wall-16 or Wall-24 shall be permitted as an alternate to panels with a 24/0 span rating. Plywood siding rated 16 o.c. or 24 o.c. shall be permitted as an alternate to panels with a 24/16 span rating. Wall-16 and Plywood siding 16 o.c. shall be used with studs spaced not more than 16 inches on center.

FIGURE R602.10.7
END CONDITIONS FOR BRACED WALL LINES
WITH CONTINUOUS SHEATHING



WALL BRACING NOTES

1. FOR THE PURPOSE OF DETERMINING THE AMOUNT AND LOCATION OF BRACING REQUIRED IN EACH STORY LEVEL OF A BUILDING, BRACED WALL LINES SHALL BE DESIGNATED AS STRAIGHT LINES IN THE BUILDING PLAN PLACED IN ACCORDANCE WITH THIS SECTION. (CRC602.10.1)
2. THE LENGTH OF A BRACED WALL LINE SHALL BE THE DISTANCE BETWEEN ITS ENDS. THE END OF A BRACED WALL LINE SHALL BE THE INTERSECTION WITH A PERPENDICULAR BRACED WALL LINE, AN ANGLED BRACED WALL LINE AS PERMITTED IN SECTION R602.10.1.4 OR AN EXTERIOR WALL AS SHOWN IN FIGURE R602.10.1.1. (CRC602.10.1.1)
3. EACH BRACED WALL LINE SHALL BE LOCATED SUCH THAT NO MORE THAN TWO-THIRDS OF THE REQUIRED BRACED WALL PANEL LENGTH IS LOCATED TO ONE SIDE OF THE BRACED WALL LINE. BRACED WALL PANELS SHALL BE PERMITTED TO BE OFFSET UP TO 4 FEET (1219 MM) FROM THE DESIGNATED BRACED WALL LINE. BRACED WALL PANELS PARALLEL TO A BRACED WALL LINE SHALL BE OFFSET NOT MORE THAN 4 FEET (1219 MM) FROM THE DESIGNATED BRACED WALL LINE LOCATION AS SHOWN IN FIGURE R602.10.1.1. EXTERIOR WALLS PARALLEL TO A BRACED WALL LINE SHALL BE OFFSET NOT MORE THAN 4 FEET (1219 MM) FROM THE DESIGNATED BRACED WALL LINE LOCATION AS SHOWN IN FIGURE R602.10.1.1. INTERIOR WALLS USED AS BRACING SHALL BE OFFSET NOT MORE THAN 4 FEET (1219 MM) FROM A BRACED WALL LINE THROUGH THE INTERIOR OF THE BUILDING AS SHOWN IN FIGURE R602.10.1.2. (CRC602.10.1.2)
4. THE SPACING BETWEEN PARALLEL BRACED WALL LINES SHALL BE IN ACCORDANCE WITH TABLE R602.10.1.3. INTERMEDIATE BRACED WALL LINES THROUGH THE INTERIOR OF THE BUILDING SHALL BE PERMITTED. (CRC602.10.1.3)

TABLE R602.10.1.3
BRACED WALL LINE SPACING

APPLICATION	CONDITION	BUILDING TYPE	BRACED WALL LINE SPACING CRITERIA	
			Maximum Spacing	Exception to Maximum Spacing
Wind bracing	Ultimate design wind speed 100 mph to < 140 mph	Detached, townhouse	60 feet	None
	SDC A - C	Detached		Use wind bracing
	SDC A - B	Townhouse		Use wind bracing
Seismic bracing	SDC C	Townhouse	35 feet	Up to 50 feet when length of required bracing per Table R602.10.3(3) is adjusted in accordance with Table R602.10.3(4)
	SDC D ₀ , D ₁ , D ₂	Detached, townhouses, one- and two-story only	25 feet	Up to 35 feet to allow for a single room not to exceed 900 square feet. Spacing of all other braced wall lines shall not exceed 25 feet.
	SDC D ₀ , D ₁ , D ₂	Detached, townhouse	25 feet	Up to 35 feet when length of required bracing per Table R602.10.3(3) is adjusted in accordance with Table R602.10.3(4)

For SI: 1 foot = 304.8 mm, 1 square foot = 0.0929 m², 1 mile per hour = 0.447 m/s.

5. BRACED WALL LINES WITH A LENGTH OF 16 FEET (4877 MM) OR LESS SHALL HAVE NOT LESS THAN TWO BRACED WALL PANELS OF ANY LENGTH OR ONE BRACED WALL PANEL EQUAL TO 48 INCHES (1219 MM) OR MORE. BRACED WALL LINES GREATER THAN 16 FEET (4877 MM) SHALL HAVE NOT LESS THAN TWO BRACED WALL PANELS. (CRC602.10.2.3)

6. TABLE R602.10.3(1) AND THE APPLICABLE ADJUSTMENT FACTORS IN TABLE R602.10.2(2) (CRC602.10.3)

TABLE R602.10.3(3)
BRACING REQUIREMENTS BASED ON SEISMIC DESIGN CATEGORY

Seismic Design Category	Story Location	Braced Wall Line Length (feet) ^d	MINIMUM TOTAL LENGTH (FEET) OF BRACED WALL PANELS REQUIRED ALONG EACH BRACED WALL LINE ^{e,f}			
			Method LIB ^d	Method GB	Methods DWB, SFB, PBS, PCP, HPS, CS-SFB	Method WSP
D ₀	10' - 1"	10	NP	2.8	2.8	1.8 1.6
		20	NP	5.5	5.5	3.6 3.1
		30	NP	8.3	8.3	5.4 4.6
		40	NP	11.0	11.0	7.2 6.1
		50	NP	13.8	13.8	9.0 7.7
	20' - 0"	10	NP	5.3	5.3	3.8 3.2
		20	NP	10.5	10.5	7.5 6.4
		30	NP	15.8	15.8	11.3 9.6
		40	NP	21.0	21.0	15.0 12.8
		50	NP	26.3	26.3	18.8 16.0
	30' - 0"	10	NP	7.3	7.3	5.3 4.5
		20	NP	14.5	14.5	10.5 9.0
		30	NP	21.8	21.8	15.8 13.4
		40	NP	29.0	29.0	21.0 17.9
		50	NP	36.3	36.3	26.3 22.3

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound per square foot = 0.0479 kPa.

NP = Not Permitted.

a. Linear interpolation shall be permitted.

b. Wall bracing lengths are based on a soil class "D." Interpolation of bracing length between the S_{br} values associated with the seismic design categories shall be permitted when a site-specific S_{br} value is determined in accordance with Section 1613.2 of the California Building Code.

c. Where the braced wall line length is greater than 50 feet, braced wall lines shall be permitted to be divided into shorter segments having lengths of 50 feet or less, and the amount of bracing within each segment shall be in accordance with this table.

d. Method LIB shall have gypsum board fastened to not less than one side with nails or screws in accordance with Table R602.3(1) for exterior sheathing or Table R702.3.5 for interior gypsum board. Spacing of fasteners at panel edges shall not exceed 8 inches.

e. Methods PFG and CS-SFB do not apply in Seismic Design Categories D₀, D₁, and D₂.

f. Where more than one bracing method is used, mixing methods shall be in accordance with Section R602.10.4.1.

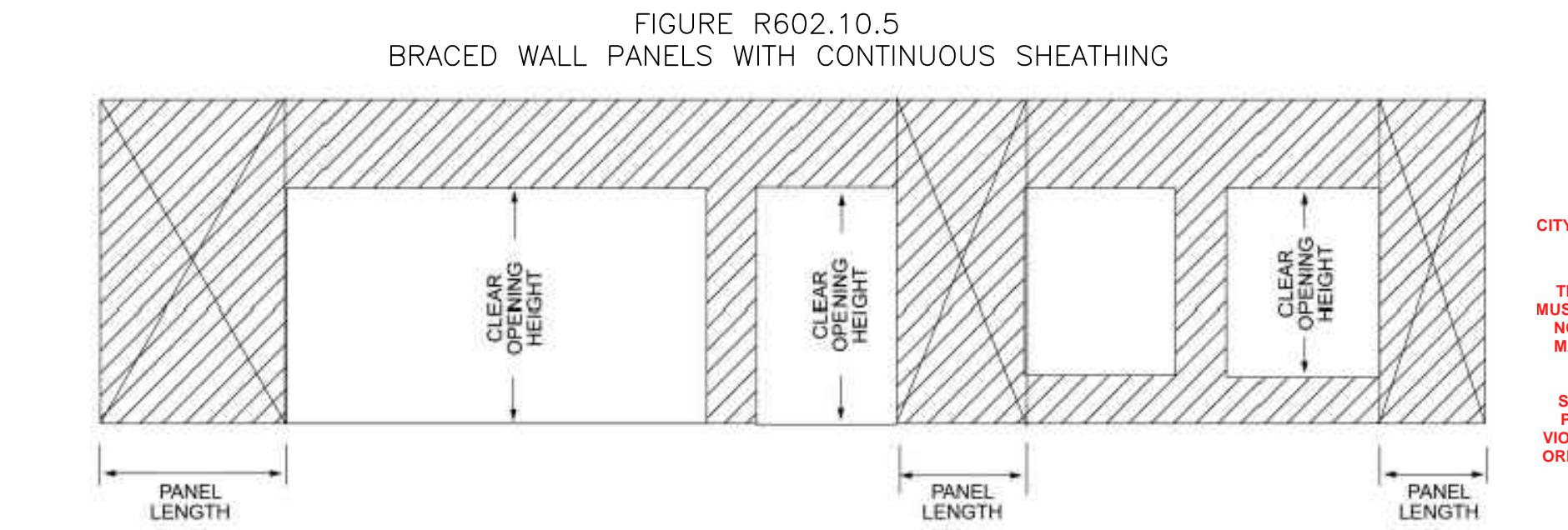
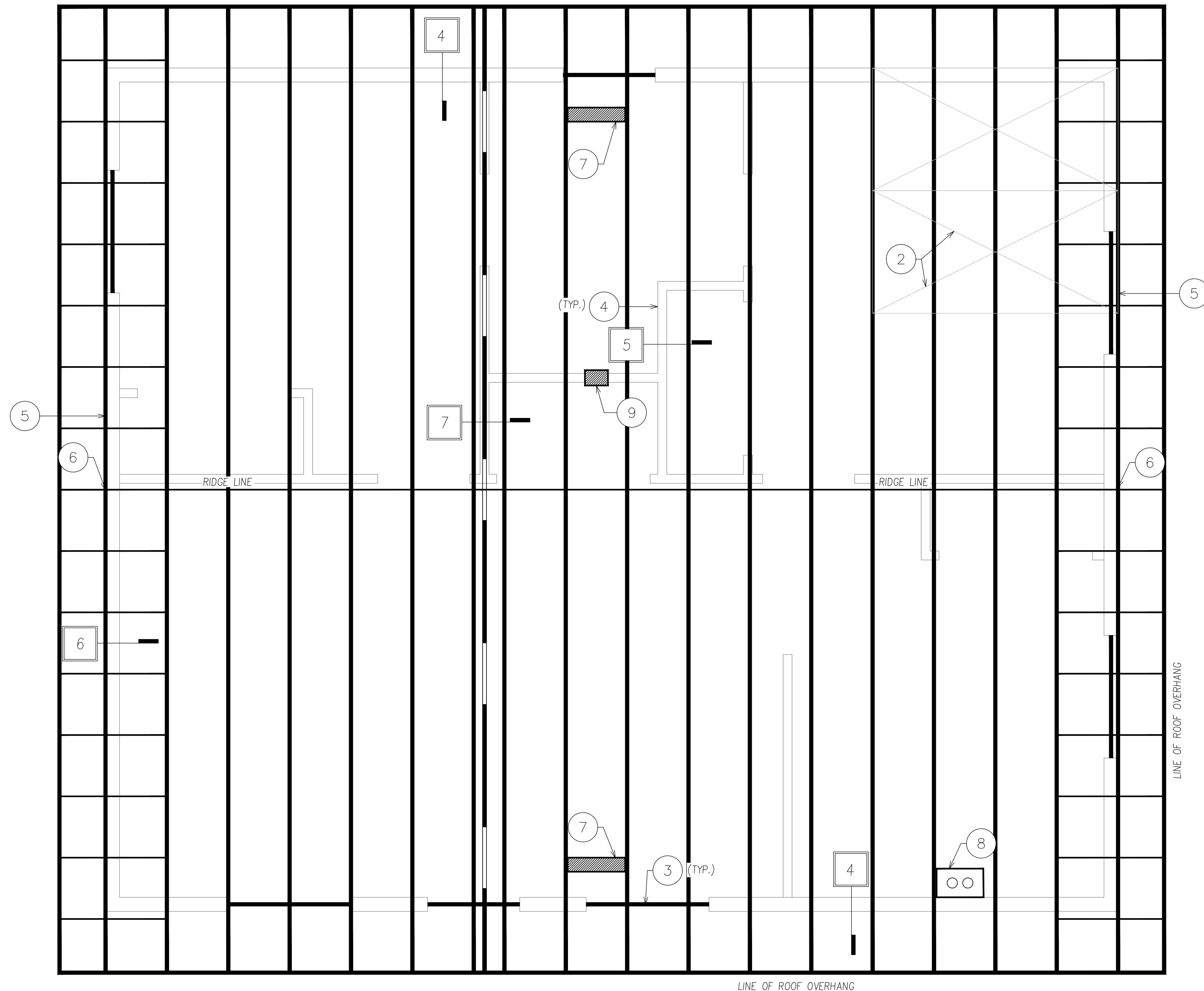


FIGURE R602.10.5
BRACED WALL PANELS WITH CONTINUOUS SHEATHING

3/8" = 1'
CITY OF HANFORD BUILDING DIVISION APPROVED
SHEET PLANS AND SPECIFICATIONS MADE IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE
THE STAMPING SHALL NOT BE HELD TO PERMIT OR TO BE AN APPROVAL OF THE VIEWS OR DRAWINGS, BUT ONLY FOR CODE COMPLIANCE.
BY: Michael Coach
12/11/2025



KEYNOTES

- (1) PRE-MFR. TRUSSES @ 24" O.C.
- (2) 15/32" APA RATED PLYWD OR OSB, P.I. 32/16, EDGE NAIL W/8D @ 6" O.C. & FIELD NAIL @ 6" O.C.
- (3) 6X8 D.F. # 2
- (4) TOP OF NON-BEARING, NON-BRACED WALL. SEE DETAIL 5.
- (5) SEE DETAIL 3 FOR END WALL TRUSS SHEAR TRANSFER DESIGN REQUIREMENT
- (6) LOCATION OF 12"x18" GABLE END VENT
- (7) LOCATION OF 5 1/2" x 22 1/2" ROOF TOP VENT
- (8) LOCATION OF RANGE HOOD VENT
- (9) LOCATION OF DRYER VENT
- (#) FRAMING PLAN DETAIL FOUND ON SHEET S3

NOTES

1. TRUSS CALCULATIONS (FROM THE TRUSS MANUFACTURER) SHALL BE PROVIDED TO THE BUILDING DEPARTMENT PRIOR TO A REQUEST FOR ROOF AND SHEAR INSPECTION

ATTIC VENTILATION REQUIREMENTS

$$\frac{908 \text{ SQFT}}{300} \cdot 144 \text{ in}^2/\text{ft} = (436 \text{ in}^2)$$

PROVIDE:

$$\begin{aligned} 2 - 12'' \times 18'' \text{ GABLE END VENT } (140 \text{ in}^2) &= (280 \text{ in}^2) \\ 2 - 5-1/2'' \times 22-1/2'' \text{ ROOF TOP VENT } (83 \text{ in}^2) &= (166 \text{ in}^2) \\ \text{TOTAL PROVIDED:} &= (446 \text{ in}^2) \end{aligned}$$

These plans and documents have been reviewed for compliance with the applicable codes requirements of the jurisdiction. The stamping of these plans shall not be held to permit or be an approval of any violation of applicable codes and standards nor relieve the owner, design professional of record or contractor of compliance with applicable codes and standards.

ROD CARSEY CONSULTING & PLAN CHECK SERVICE

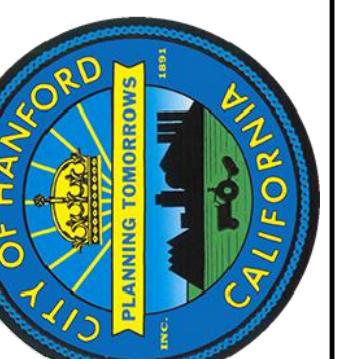
DISCLAIMER:
BY USING THESE STANDARD PLANS, THE USER AGREES TO RELEASE THE CITY OF HANFORD FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS AND DEMANDS ON ACCOUNT OF ANY INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY, ARISING OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS. THE USE OF THESE PLANS DOES NOT ELIMINATE OR REDUCE THE USER'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION.



PROJECT TITLE	CITY OF HANFORD – PRE-REVIEWED ADU PROGRAM	
ADU SQFT	SHEET DESCRIPTION	
	ROOF FRAMING PLAN	
AGENCY	SJV REAP	DATE
	10/28/2024	
DRAWING SCALE		
1/2" = 1'		
CITY OF HANFORD BUILDING DIVISION APPROVED		
SHEET PLANS AND SPECIFICATIONS MAY NOT BE USED OR REFERRED TO AT THIS TIME NO CHANGES OR ALTERATIONS SHALL BE MADE EXCEPT BY THE BUILDING DIVISION.		
THE STAMPING ON THIS PLAN AND SPECIFICATIONS SHALL NOT BE HELD TO PERMIT OR TO BE AN APPROVAL OF THE WORK. THIS PLAN AND SPECIFICATIONS ARE NOT A BUILDING PERMIT AND ARE NOT A COMPLIANCE WITH ANY CITY OF HANFORD ORDINANCE OR CODE. THEY ARE TO BE REVIEWED FOR CODE COMPLIANCE.		
BY: <i>Michelle Couch</i> 12/11/2025		

DISCLAIMER:
BY USING THESE STANDARD PLANS, THE USER AGREES TO
RELEASE THE CITY OF HANFORD FROM ANY AND ALL CLAIMS,
LIABILITIES, SUITS AND DEMANDS ON ACCOUNT OF ANY
INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY,
INCLUDING INJURY OR DEATH, OR ECONOMIC LOSSES, ARISING
OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS. THE
USE OF THESE PLANS DOES NOT ELIMINATE OR REDUCE THE
USER'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION.

CITY OF HANFORD

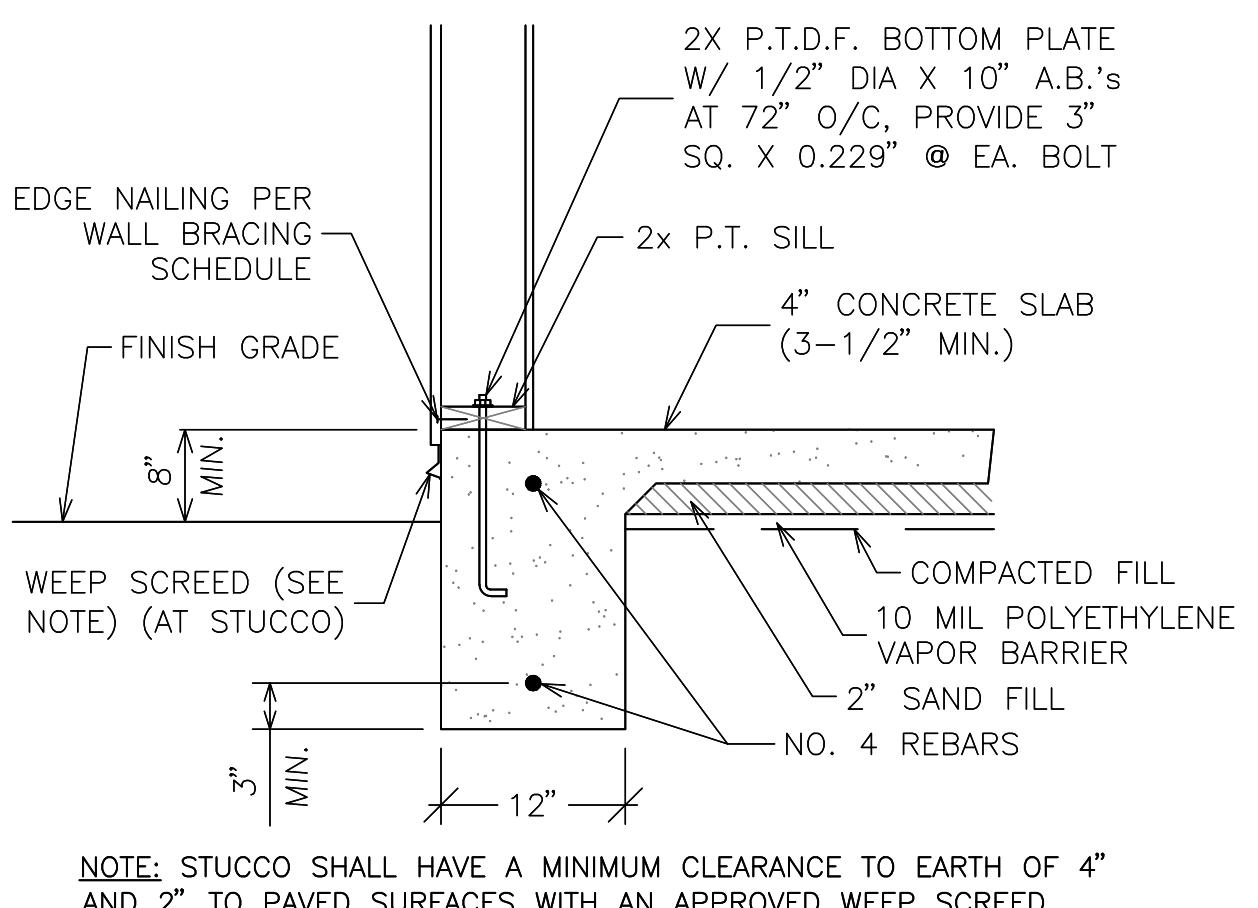


REVISIONS	-	-	-
-----------	---	---	---

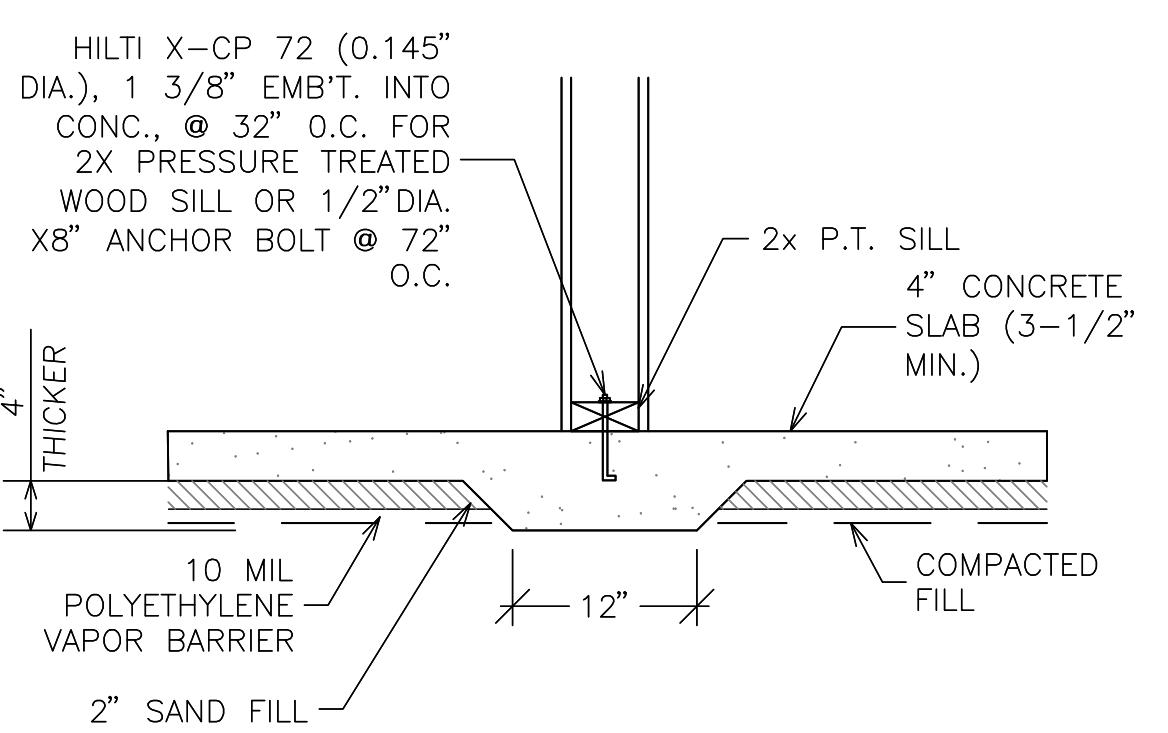
PROJECT TITLE	CITY OF HANFORD - PRE-REVIEWED ADU PROGRAM	DETAILS
ADU SQFT	908	DATE 10/28/2024

DRAWING SCALE

CITY OF HANFORD BUILDING DIVISION
APPROVED
SHEET PLANS AND SPECIFICATIONS
MAY NOT BE USED OR COPIED AT THIS TIME
NO CHANGES OR ALTERATIONS SHALL BE
MADE EXCEPT BY THE BUILDING DIVISION.
THE STAMPING ON THIS SHEET
SPECIFICATION SHALL NOT BE USED TO
PERMIT OR TO BE AN APPROVAL OF THE
WORK. THE WORK MUST BE IN ACCORDANCE
WITH THE CITY OF HANFORD BUILDING
ORDINANCE OR LOCAL LAW AND REVIEWED FOR
CODE COMPLIANCE.
BY: *Michael Couch*
12/11/2025

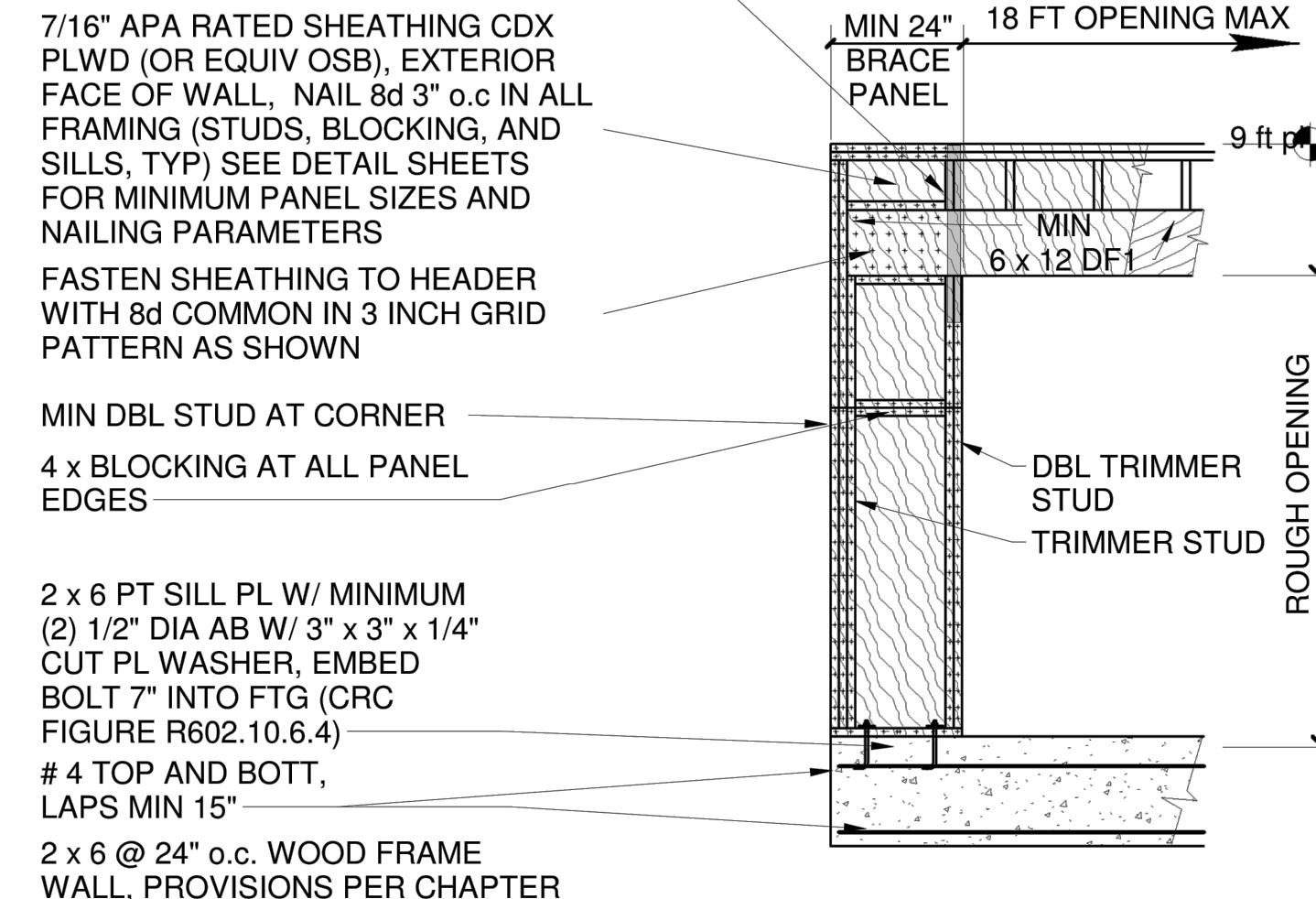


1 EXTERIOR FOOTING
N.T.S.

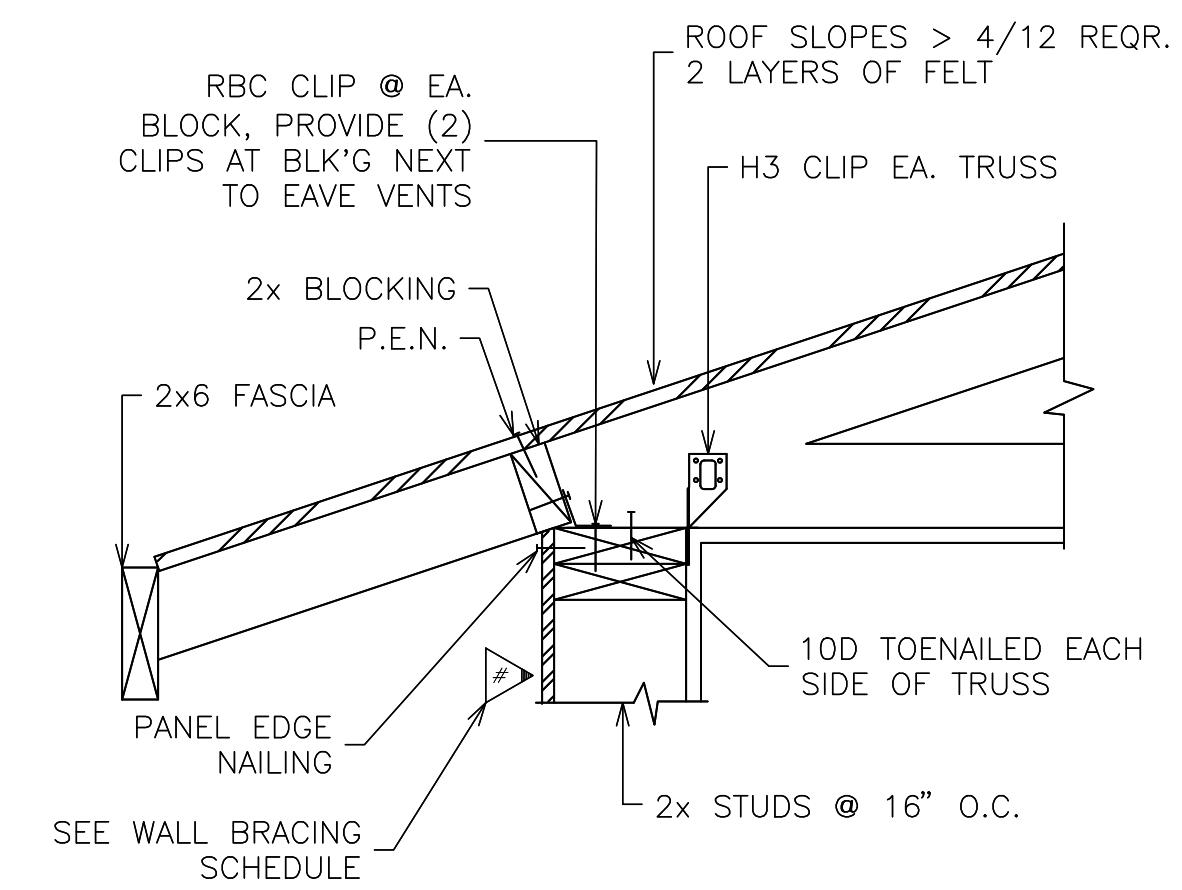


2 NON-BEARING INTERIOR FOOTING
N.T.S.

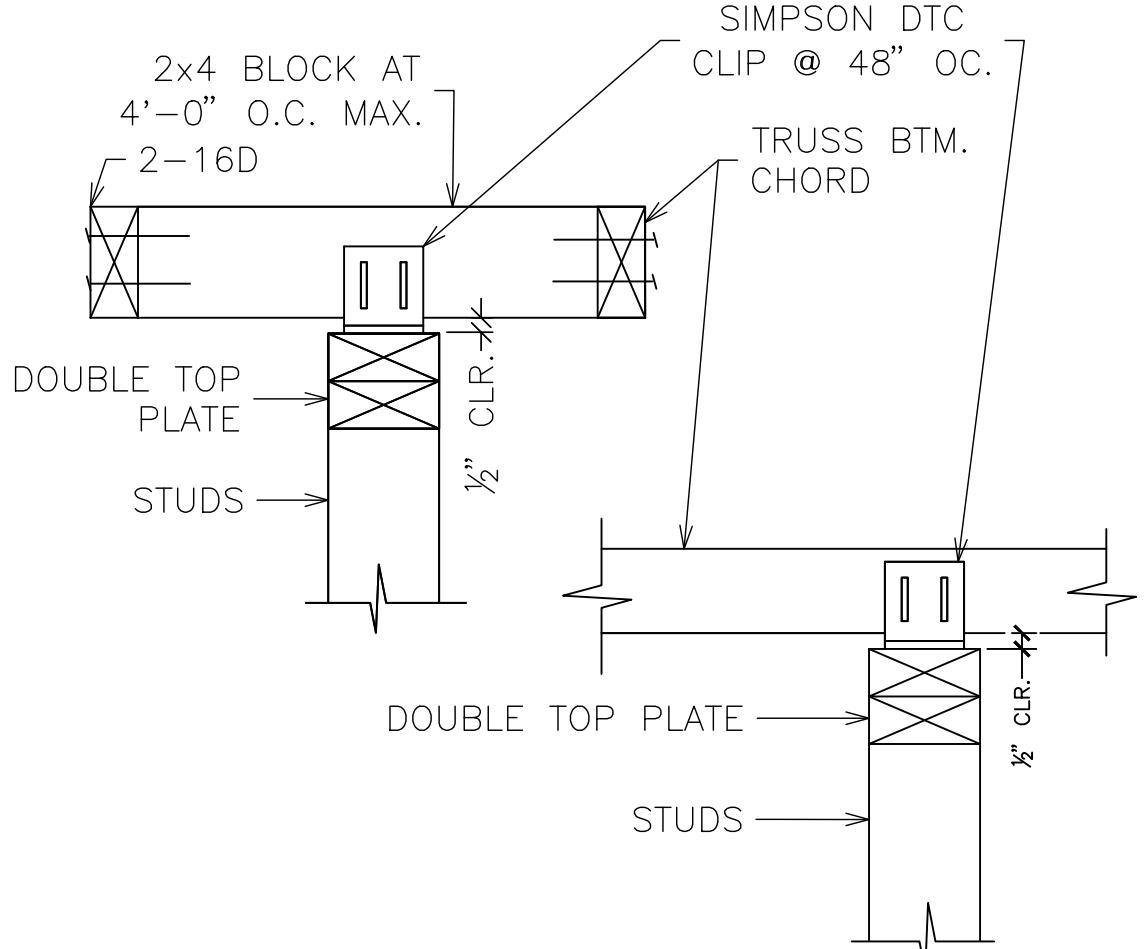
TENSION STRAP AT INTERIOR FACE
OF WALL, STRAP ACROSS HEADER
AND JAMB STUDS:
SIMPSON MSTA 30 (2,050 lbs TENSION)



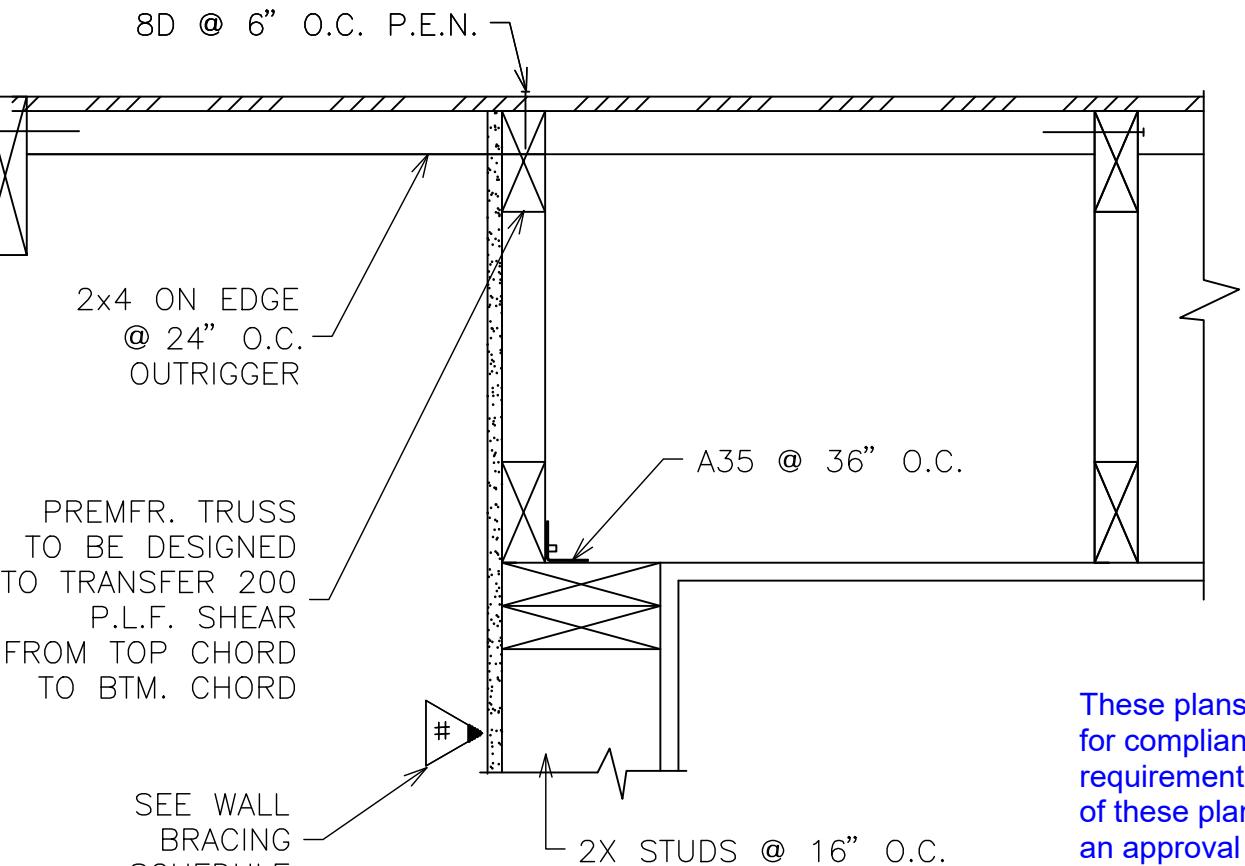
DERIVED FROM CRC
FIGURE R602.10.4.2



4 EAVE DETAIL
N.T.S.



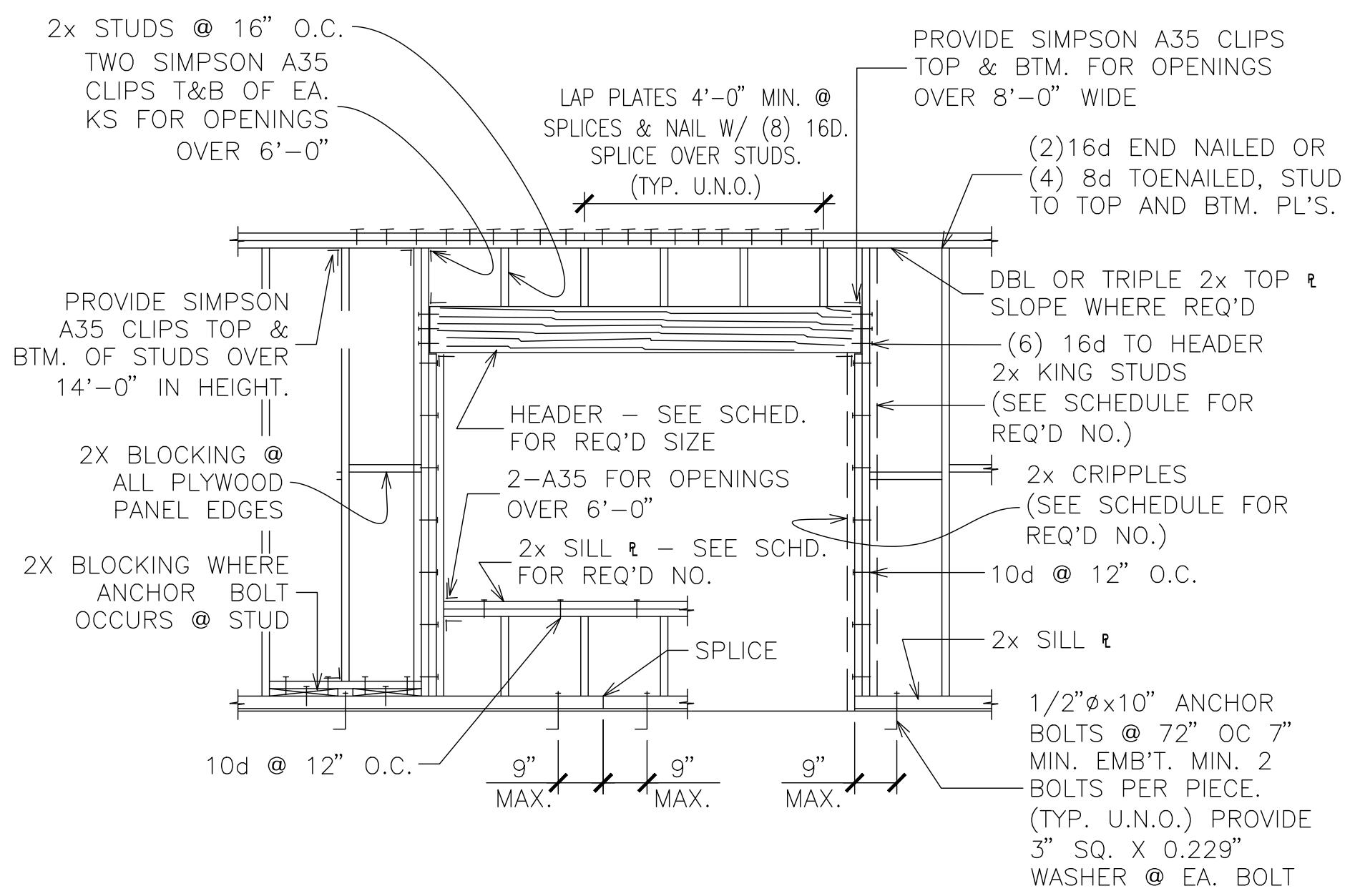
5 NON-BRG., NON-BRACED WALL CONNECTION
N.T.S.



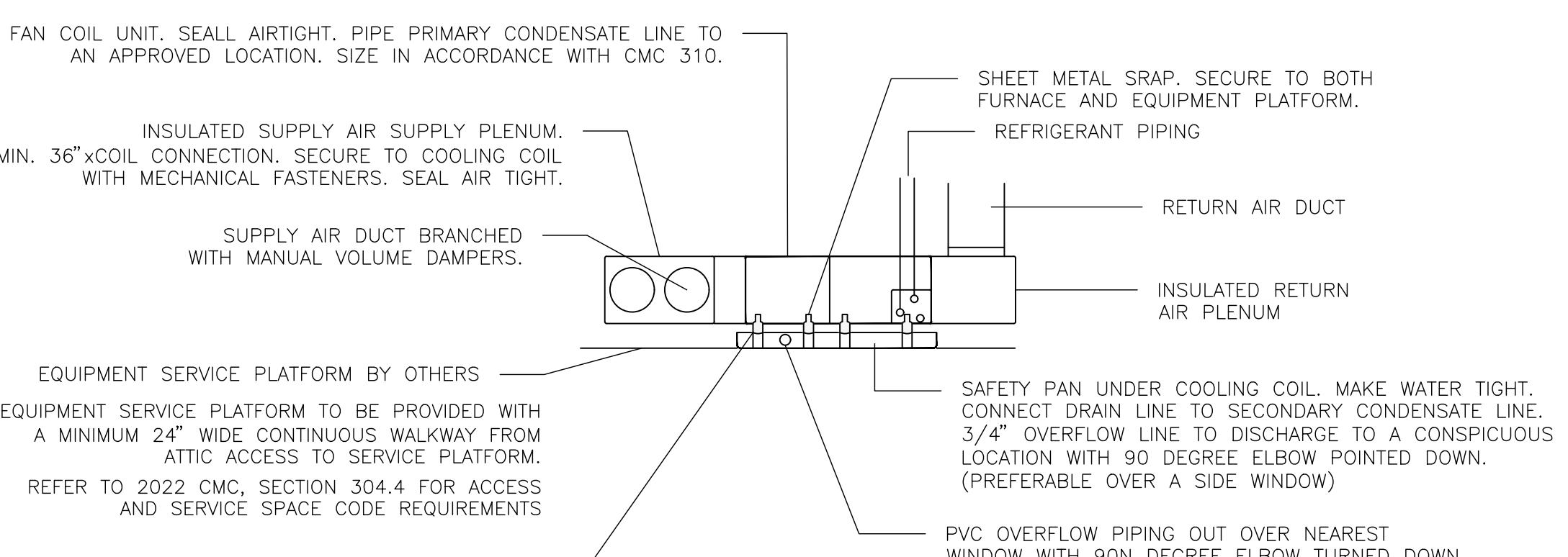
6 GABLE END DETAIL
N.T.S.

These plans and documents have been reviewed
for compliance with the applicable codes
requirements of the jurisdiction. The stamping
of these plans shall not be held to permit or be
an approval of any violation of applicable codes
and standards nor relieve the owner, design
professional of record or contractor of
compliance with applicable codes and standards

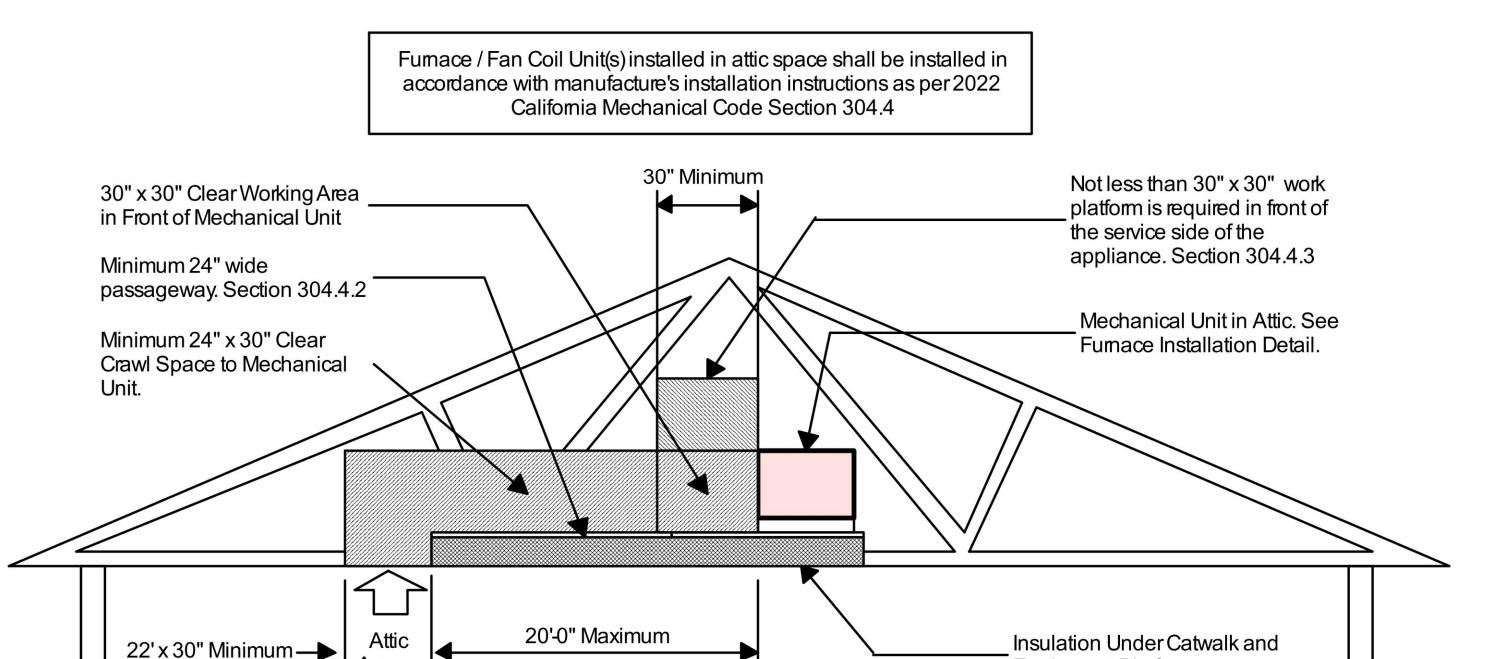
ROD CARSEY CONSULTING & PLAN CHECK
SERVICE



7 TYP. WALL FRAMING AT OPENING
N.T.S.



7 FAN COIL INSTALLATION IN ATTIC
N.T.S.



NOTES:
1. ATTIC ACCESS DOORS SHALL HAVE PERMANENTLY ATTACHED INSULATION USING
ADHESIVE OR MECHANICAL FASTENERS. THE ATTIC ACCESS SHALL BE GASKETED TO
PREVENT AIR LEAKAGE.
[CA. ENERGY CODE 150.0(g)2]
2. FURNACE/FAN COIL UNIT(S) INSTALLED IN ATTIC SPACE SHALL BE INSTALLED IN
ACCORDANCE WITH MANUFACTURE'S INSTALLATION INSTRUCTIONS AS PER (CMC 304.4)

8 ATTIC MOUNTED AIR HANDLER
N.T.S.

CLEAR SPAN OF OPENING	HEADER SIZE NOTE 1		NUMBER OF CRIPPLES		NUMBER OF KING STUDS		NUMBER OF SILL PLATES	
	BEARING WALL	NON-BRG WALL	BRG WALL	NON-BRG WALL	EXTERIOR	INTERIOR	EXTERIOR	INTERIOR
UP TO 6'-0"	4 x 8	4 x 6	1	1	1	1	1	1

NOTES:

1. 4x header size shown is for 2x4 stud wall, revise to 6x for 2x6 stud walls and 8x for 2x8 stud walls.
2. Details and member sizes are typical unless otherwise noted or detailed.
3. Notes and member sizes shown on framing plans shall take precedence over schedule.

9 HEADER DETAIL
N.T.S.

DISCLAIMER:
BY USING THESE STANDARD PLANS, THE USER AGREES TO
RELEASE THE CITY OF HANFORD FROM ANY AND ALL CLAIMS,
LIABILITIES, SUITS AND DEMANDS ON ACCOUNT OF ANY
INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY,
OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS. THE
USE OF THESE PLANS DOES NOT ELIMINATE OR REDUCE THE
USER'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION.

CITY OF HANFORD



REVISIONS

PROJECT TITLE	CITY OF HANFORD – PRE-REVIEWED ADU PROGRAM	DETAILS
AGENCY	S.J.V REAP	DATE
908		10/28/2024

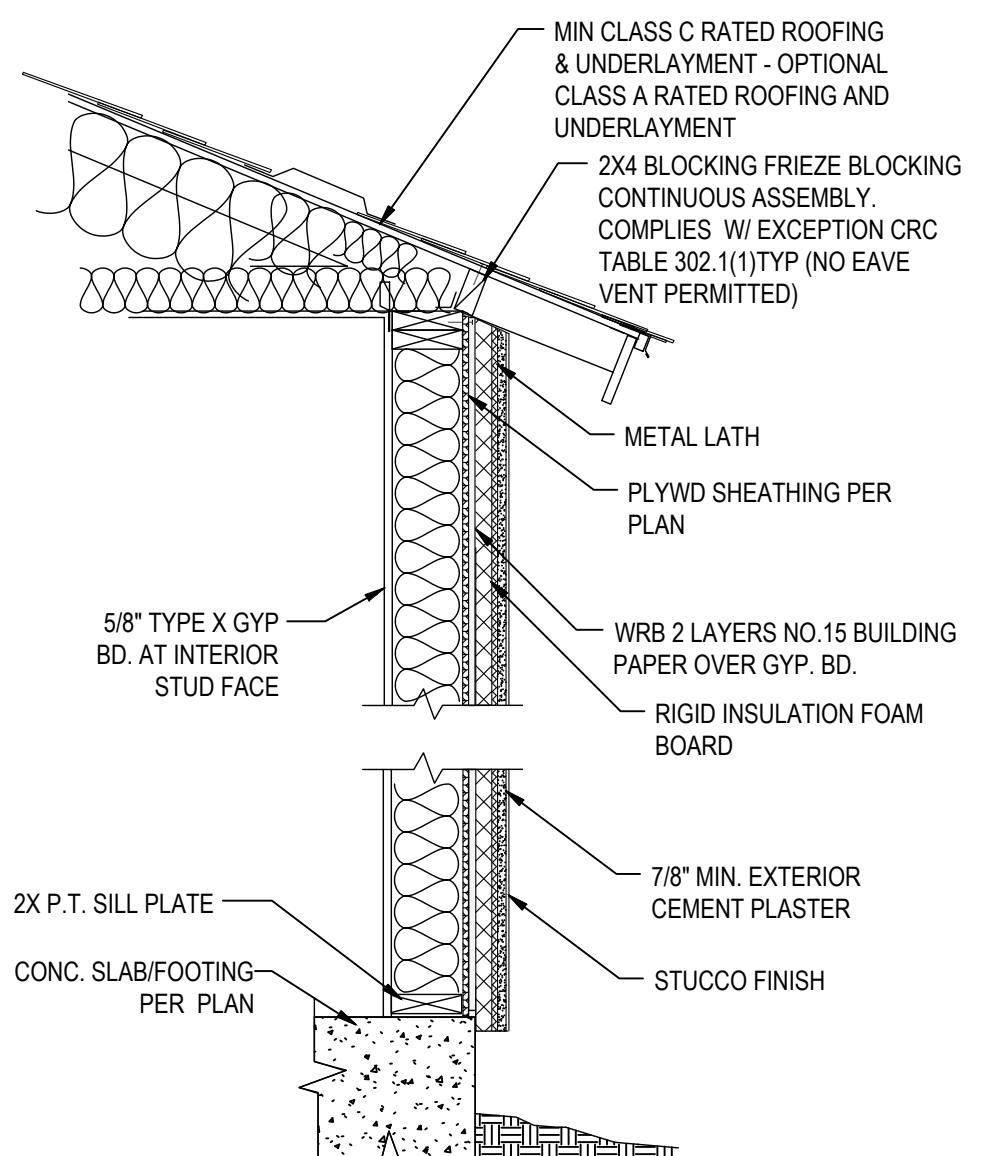
PROJECT TITLE	CITY OF HANFORD – PRE-REVIEWED ADU PROGRAM	DETAILS
AGENCY	S.J.V REAP	DATE
908		10/28/2024

CITY OF HANFORD BUILDING DIVISION
APPROVED

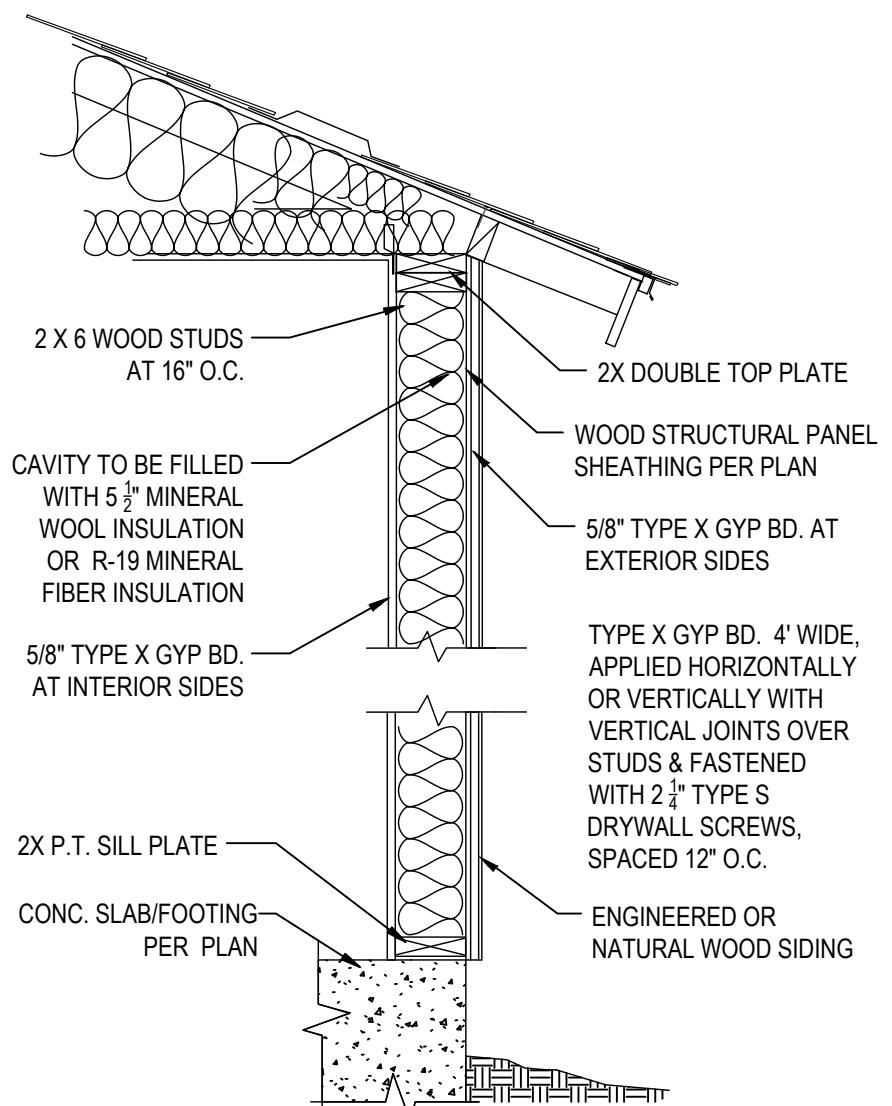
Sheet Plans and Specifications
MAY NOT BE USED OUTSIDE OF THIS DIVISION
NO CHANGES OR ALTERATIONS SHALL BE
MADE EXCEPT BY THE BUILDING DIVISION.

The stamping on this plan and
specification shall not be held to
permit or to be an approval of the
work. It is the responsibility of the
ordinance or code law, "Reviewed for
code compliance."

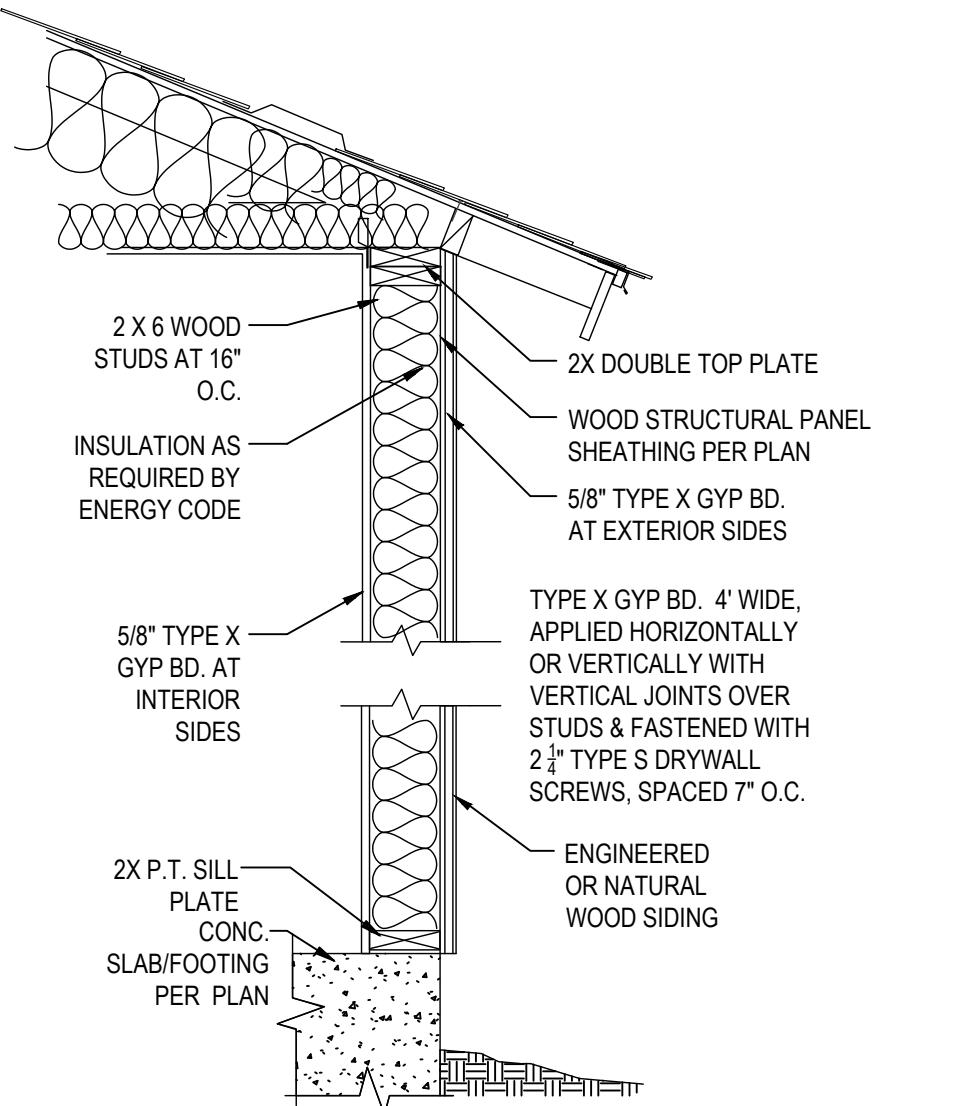
BY: *Michael Couch*
12/11/2025



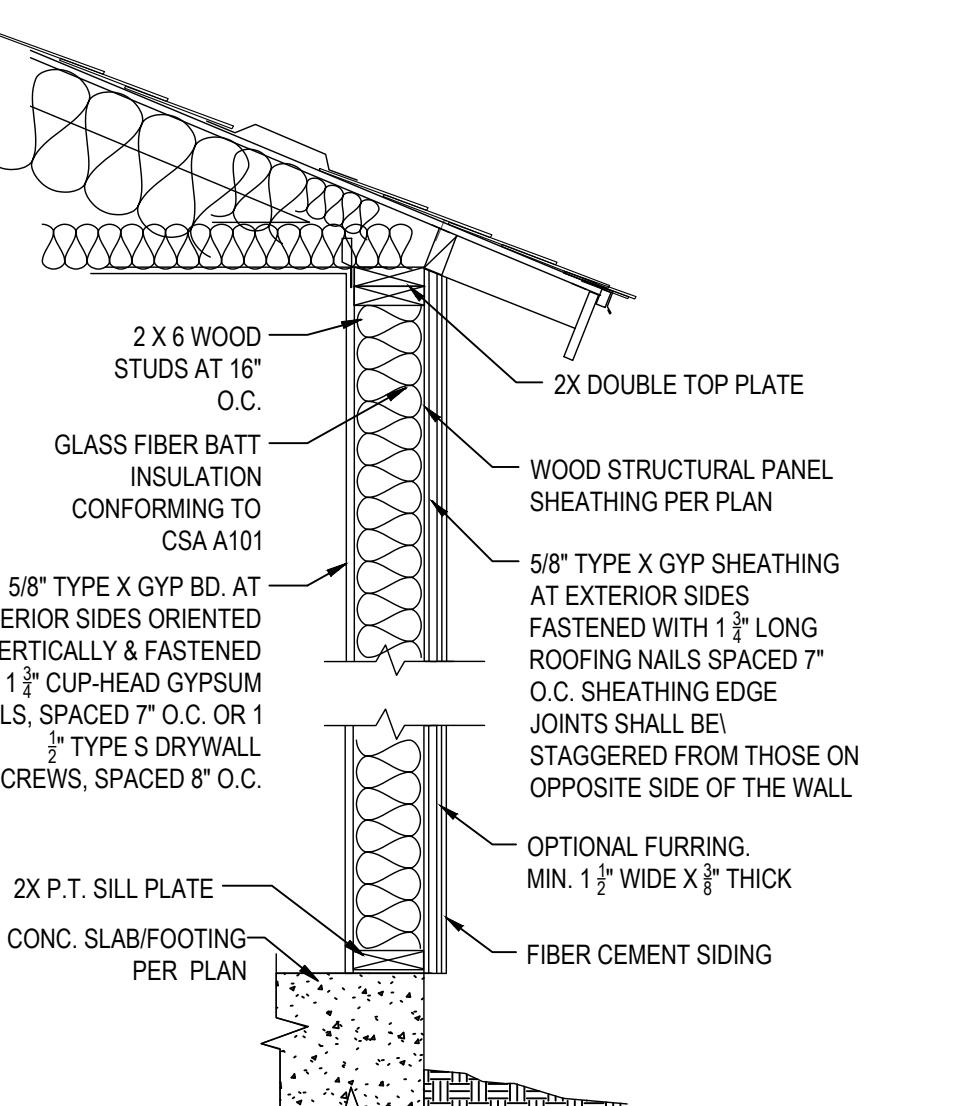
10 1-HOUR FIRE RATED ASSEMBLY FOR STUCCO FINISH
N.T.S.



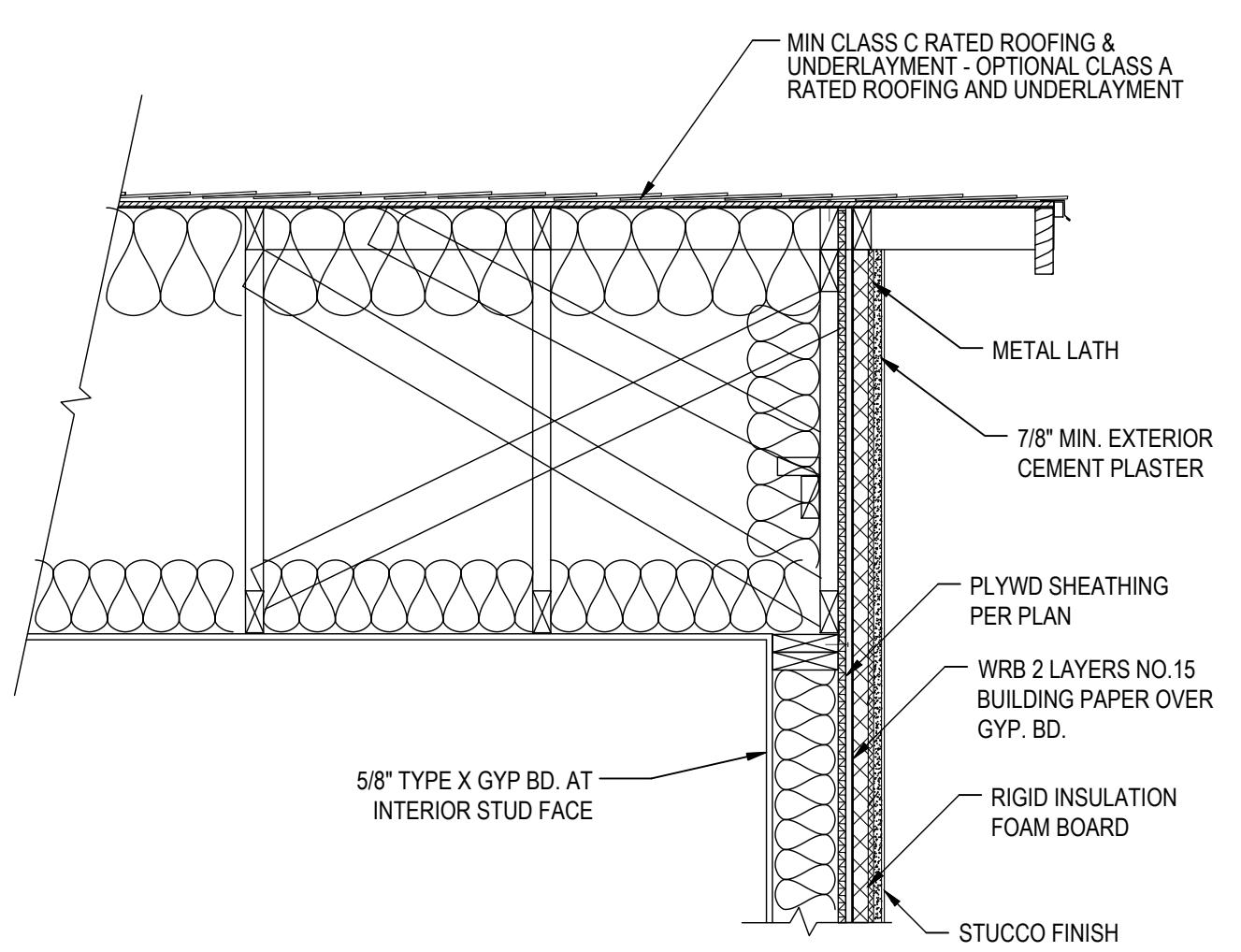
11 1-HOUR FIRE RATED ASSEMBLY FOR
ENGINEERED OR NATURAL WOOD SIDING
N.T.S.



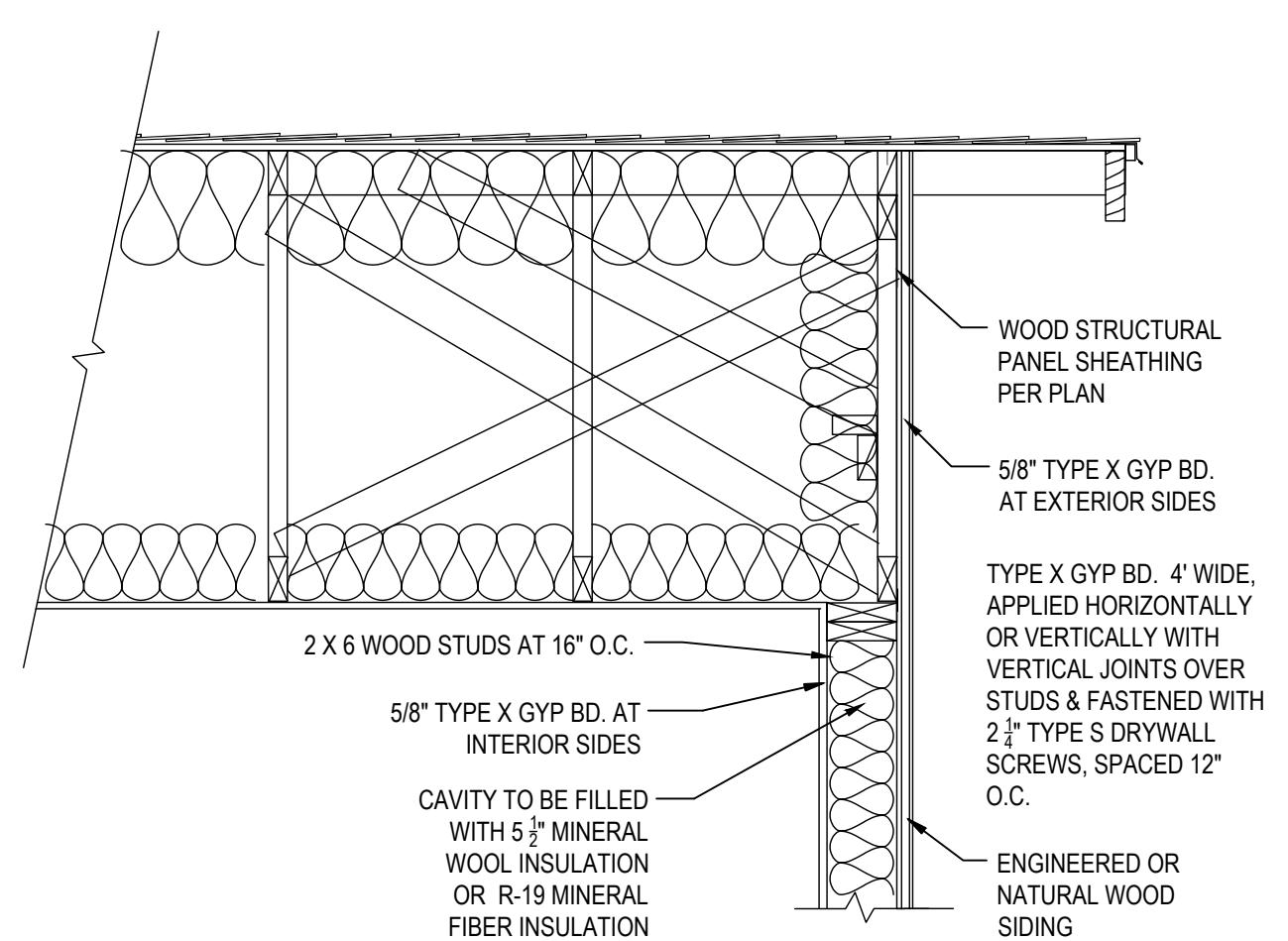
12 1-HOUR FIRE RATED ASSEMBLY FOR
ENGINEERED OR NATURAL WOOD SIDING
N.T.S.



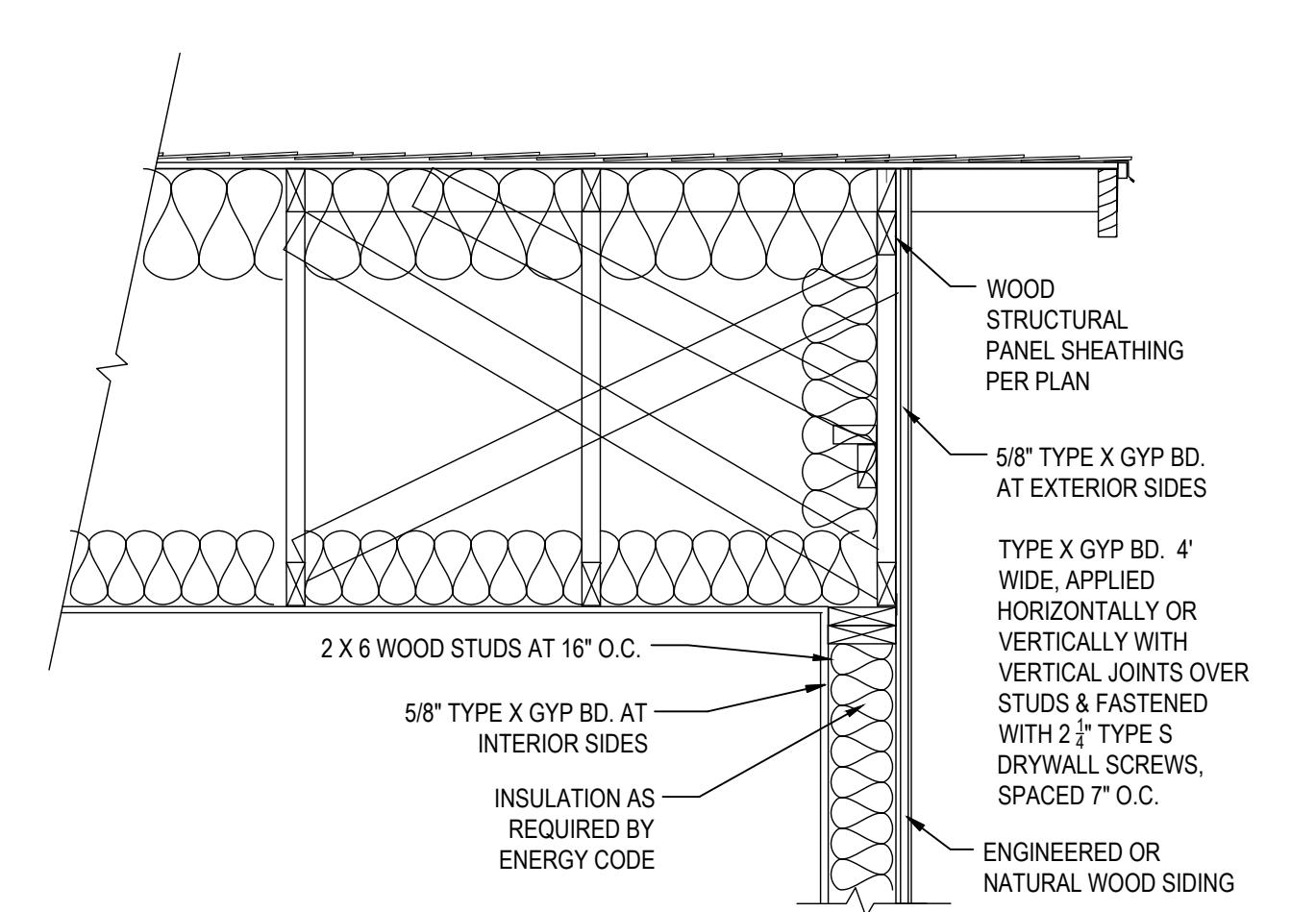
13 1-HOUR FIRE RATED ASSEMBLY FOR
FIBER CEMENT SIDING
N.T.S.



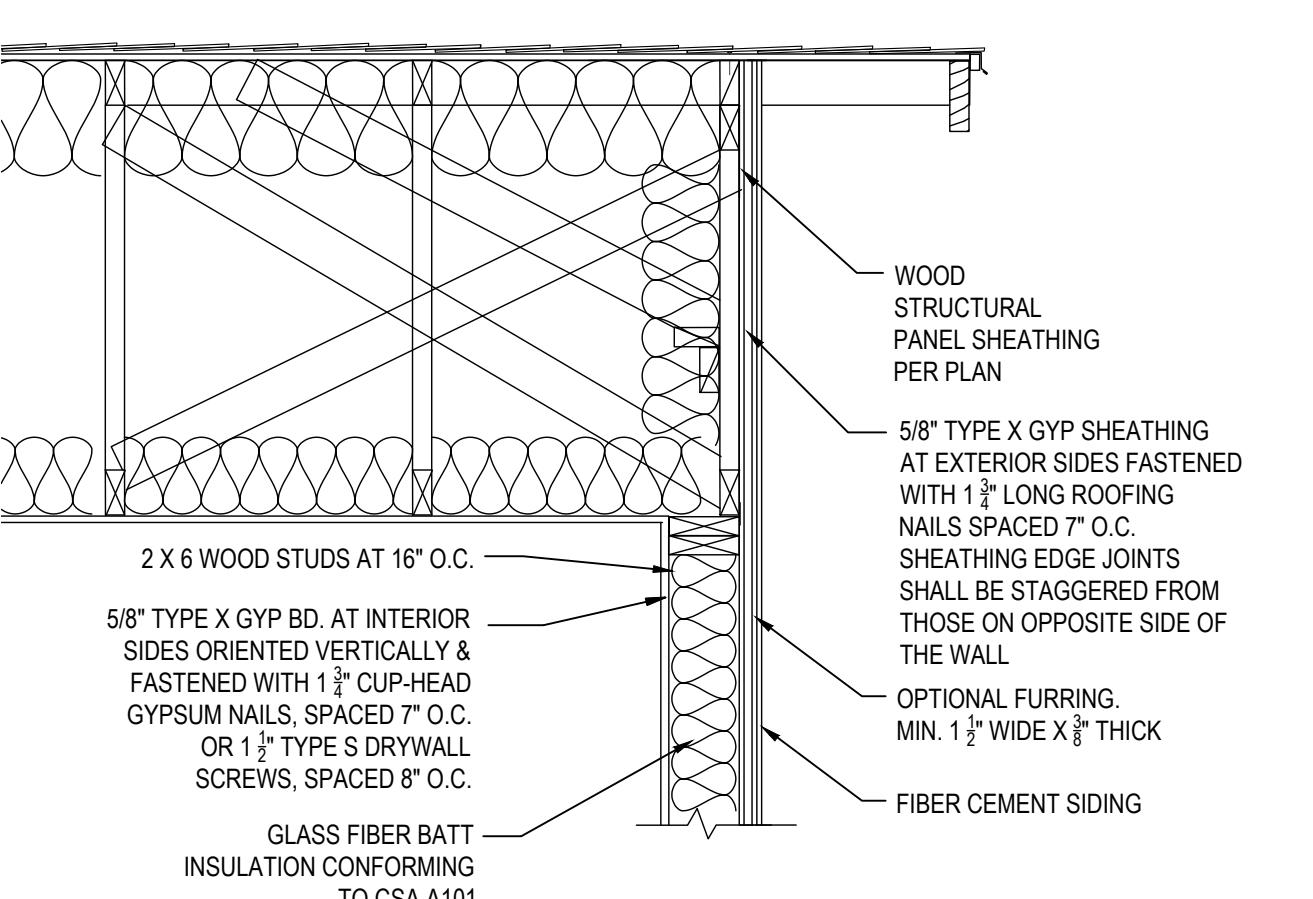
14 1-HOUR FIRE RATED GABLE END FOR STUCCO FINISH
N.T.S.



15 1-HOUR FIRE RATED GABLE END FOR ENGINEERED OR
NATURAL WOOD SIDING
N.T.S.



16 1-HOUR FIRE RATED GABLE END FOR ENGINEERED OR
NATURAL WOOD SIDING
N.T.S.



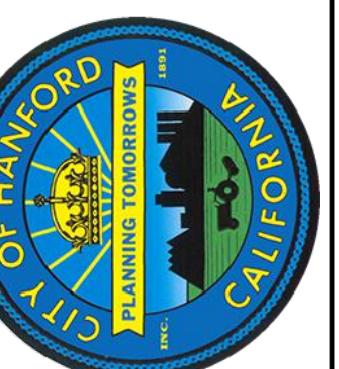
17 1-HOUR FIRE RATED GABLE END FOR FIBER CEMENT SIDING
N.T.S.

These plans and documents have been reviewed
for compliance with the applicable codes
requirements of the jurisdiction. The stamping
of these plans shall not be held to permit or be
an approval of any violation of applicable codes
and standards nor relieve the owner, design
professional of record or contractor of
compliance with applicable codes and standards

ROD CARSEY CONSULTING & PLAN CHECK
SERVICE

DISCLAIMER:
BY USING THESE STANDARD PLANS, THE USER AGREES TO
RELEASE THE CITY OF HANFORD FROM ANY AND ALL CLAIMS,
LIABILITIES, SUITS AND DEMANDS ON ACCOUNT OF ANY
INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY,
OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS, THE
USER'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION.

CITY OF HANFORD



REVISIONS

—
—
—
—

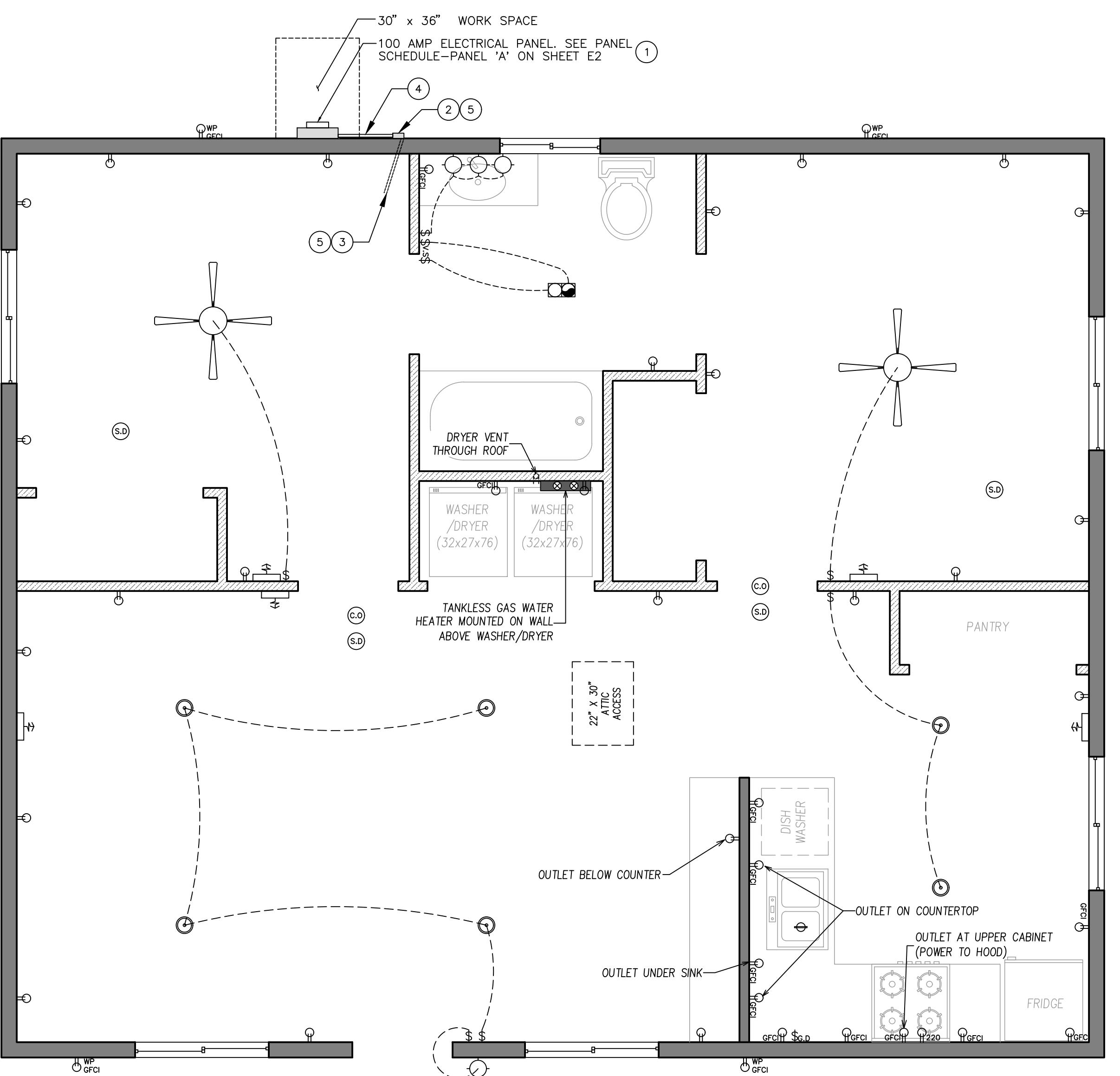
PROJECT TITLE	CITY OF HANFORD – PRE-REVIEWED ADU PROGRAM
ADU SQFT	908
SHEET DESCRIPTION	ELECTRICAL PLAN
AGENCY	DATE
S.V. REAP	10/28/2024

DRAWING SCALE
3/8" = 1'

CITY OF HANFORD BUILDING DIVISION
APPROVED

THESE PLANS AND SPECIFICATIONS
MAY NOT BE COPIED OR ALTERED AT ANY TIME
NO CHANGES OR ALTERATIONS SHALL BE
MADE EXCEPT BY THE BUILDING DIVISION.
THE STAMPING ON THIS PLAN
SPECIFICATIONS SHALL NOT BE HELD TO
PERMIT OR TO BE AN APPROVAL OF THE
WORKS. THE STAMPING IS FOR THE
PURPOSE OF VERIFYING THAT THE WORKS
CONFORM TO THE STATED CODES AND
ORDINANCES OR STANDARDS. "REVIEWED FOR
CODE COMPLIANCE."

BY: *Michael Cook*
12/11/2025



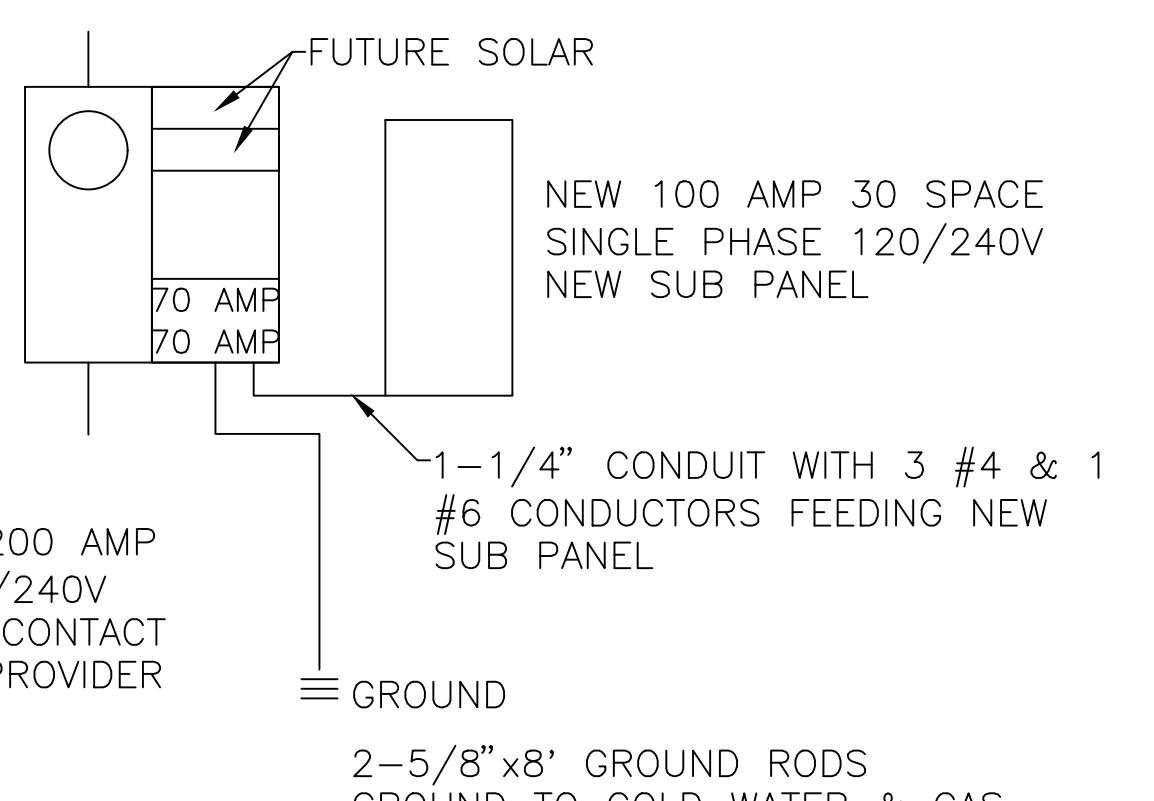
SOLAR READY KEYNOTES

NOTE: SOLAR READY NOTES SHOWN TO DEMONSTRATE PLAN IS SOLAR READY. SEPARATE PERMIT AND FEES ARE REQUIRED. IF REQUIRED, CONTACT A PV/SOLAR PROVIDER FOR PLANS AND PERMITS.

1. THE MAIN ELECTRICAL SERVICE PANEL SHALL NOT BE OF A TYPE WITH A CENTER-FED MAIN CIRCUIT BREAKER AND SHALL INCLUDE RESERVED SPACE ALLOWING FOR INSTALLATION OF DOUBLE-POLE CIRCUIT BREAKERS FOR A FUTURE SOLAR PHOTOVOLTAIC SYSTEM. SUCH RESERVED SPACE SHALL BE POSITIONED AT THE OPPOSITE (LOAD) END FROM THE INPUT FEEDER OR MAIN CIRCUIT BREAKER LOCATION. THE RESERVED SPACE SHALL BE PERMANENTLY AND VISIBLY MARKED AS "FOR FUTURE SOLAR PHOTOVOLTAIC"
2. APPROVED MINIMUM 4-INCH SQUARE ELECTRICAL JUNCTION BOX LOCATED WITHIN 72 INCHES HORIZONTALLY AND 12 INCHES VERTICAL OF MAIN ELECTRICAL SERVICE PANEL
3. MINIMUM 1 INCH DIAMETER LISTED ELECTRICAL METALLIC RACEWAY ORIGINATING AT READILY ACCESSIBLE ATTIC LOCATION WITH PROXIMITY TO SOLAR ZONE AREA AND TERMINATING AT THE REQUIRED ELECTRICAL JUNCTION BOX
4. MINIMUM 1 INCH DIAMETER LISTED ELECTRICAL METALLIC RACEWAY ORIGINATING AT THE REQUIRED ELECTRICAL JUNCTION BOX AND TERMINATING AT THE MAIN ELECTRICAL SERVICE PANEL
5. ELECTRICAL JUNCTION BOX AND SEGMENT OF METALLIC RACEWAY IN THE ATTIC SHALL BE PERMANENTLY AND VISIBLY MARKED AS "FOR FUTURE SOLAR PHOTOVOLTAIC"

N.T.S.

SUB-PANEL & SWITCH GEAR FOR FUTURE BATTERY STORAGE



CLOTHES DRYER VENT NOTES

1. 4" Ø DRYER VENT WITH MAXIMUM 14 FOOT COMBINED HORIZONTAL AND VERTICAL LENGTH WITH TWO 90 DEGREE ELBOWS.
2. SMALL APPLIANCE CIRCUIT LOAD
IN EACH DWELLING UNIT, THE LOAD SHALL BE CALCULATED AT 1500 VOLT-AMPERES FOR EACH 2-WIRE SMALL APPLIANCE BRANCH CIRCUIT AS COVERED BY 2010.11(C)(1). WHERE THE LOAD IS SUBDIVIDED THROUGH TWO OR MORE FEEDERS, THE CALCULATED LOAD FOR EACH SHALL INCLUDE NOT LESS THAN 1500 VOLT-AMPERES FOR EACH 2-WIRE SMALL APPLIANCE BRANCH CIRCUIT. THESE LOADS SHALL BE PERMITTED TO BE INCLUDED WITH THE GENERAL LIGHTING LOAD AND SUBJECTED TO THE DEMAND FACTORS PROVIDED IN TABLE 220.42.
- 2.1. THE INDIVIDUAL BRANCH CIRCUIT PERMITTED BY 210.52(B)(1). EXCEPTION NO. 2, SHALL BE PERMITTED TO EB EXCLUDED FROM THE CALCULATION REQUIRED BY 220.52.
3. LAUNDRY CIRCUIT LOAD
A LOAD OF NOT LESS THAN 1500 VOLT-AMPERES SHALL BE INCLUDED FOR EACH 2-WIRE LAUNDRY BRANCH CIRCUIT INSTALLED AS COVERED BY 210.11(C)(2). THIS LOAD SHALL BE SUBJECTED TO THE DEMAND FACTORS PROVIDED IN TABLE 220.42. [CEC 220.43(B)]
4. APPLIANCE LOAD-DWELLING UNITS
IT SHALL BE PERMISSIBLE TO APPLY A DEMAND FACTOR OF 75 PERCENT TO THE NAMEPLATE RATING LOAD OF FOUR OR MORE APPLIANCES RATED 1/2 HP OR GREATER, OR 500 WATTS OR GREATER, THAT ARE FASTENED IN PLACE AND THAT ARE SERVED BY THE SAME FEEDER OR SERVICE IN A ONE-FAMILY, TWO-FAMILY, OR MULTIFAMILY DWELLING. THIS DEMAND FACTOR SHALL NOT APPLY TO: HOUSEHOLD ELECTRIC COOKING EQUIPMENT THAT IS FASTENED IN PLACE, CLOTHES DRYERS, SPACE HEATING EQUIPMENT, AND AIR-CONDITIONING EQUIPMENT. [CEC 210.52]
5. ELECTRIC CLOTHES DRYER
THE LOAD FOR HOUSEHOLD ELECTRIC CLOTHES DRYERS IN A DWELLING UNIT SHALL BE EITHER 5,000 WATTS OR THE NAMEPLATE RATING, WHICHEVER IS LARGER, FOR EACH DRYER SERVED. THE USE OF THE DEMAND FACTORS IN TABLE 220.54 SHALL BE PERMITTED. WHERE TWO OR MORE SINGLE-PHASE DRYERS ARE SUPPLIED BY A 3-PHASE, 4-WIRE FEEDER OR SERVICE, THE TOTAL LOAD SHALL BE CALCULATED ON THE BASIS OF TWICE THE MAX. NUMBER CONNECTED BETWEEN ANY TWO PHASES. KILOWOLT-AMPERES SHALL BE CONSIDERED EQUIVALENT TO KILOWATTS FOR LOADS CALCULATED IN THIS SECTION.

OUTLET NOTES

1. RECEPTACLES SHALL BE INSTALLED SUCH THAT NO POINT MEASURED HORIZONTALLY ALONG THE FLOOR LINE OF ANY WALL SPACE IS MORE THAN 6 FEET FROM A RECEPTACLE OUTLET. [CEC 210.52(A)(1)]
2. GFCI OUTLETS. GROUND FAULT CIRCUIT INTERRUPTER (GFCI) OUTLETS ARE REQUIRED IN BATHROOMS, AT KITCHEN COUNTERTOPS, AT LAUNDRY AND WET BAR SINKS, IN GARAGES, IN CRAWLSPACES, IN UNFINISHED BASEMENTS, AND OUTDOORS. (CEC 210.8)
3. AFCI OUTLETS. ELECTRICAL CIRCUITS IN BEDROOMS, LIVING ROOMS, DINING ROOMS, DENS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS MUST BE PROTECTED BY ARC FAULT CIRCUIT INTERRUPTERS (AFCI). (CEC 210.12)
4. RECEPTACLE OUTLETS SHALL BE LOCATED IN ONE OR MORE OF THE FOLLOWING:
 - 4.1. ON OR ABOVE COUNTERTOP OR WORK SURFACES: ON OR ABOVE, BUT NOT MORE THAN 20 INCHES ABOVE, THE COUNTERTOP OR WORK SURFACE.
 - 4.2. IN COUNTERTOP OR WORK SURFACES: RECEPTACLE OUTLET ASSEMBLIES LISTED FOR USE IN COUNTERTOPS OR WORK SURFACES SHALL BE PERMITTED TO BE INSTALLED IN COUNTERTOPS OR WORK SURFACES.
 - 4.3. BELOW COUNTERTOP OR WORK SURFACES: NOT MORE THAN 12 INCHES BELOW THE COUNTERTOP OR WORK SURFACE. RECEPTACLES INSTALLED BELOW A COUNTERTOP OR WORK SURFACE SHALL NOT BE LOCATED WHERE THE COUNTERTOP OR WORK SURFACE EXTENDS MORE THAN 6 INCHES BEYOND ITS SUPPORT BASE. [CEC 210.52(C)(3)]
5. BATHROOMS
AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED IN BATHROOMS WITHIN 3FEET OF THE OUTSIDE EDGE OF EACH BASIN. THE RECEPTACLE OUTLET SHALL BE LOCATED ON A WALL OR PARTITION THAT IS ADJACENT TO THE BASIN OR BASIN COUNTERTOP, LOCATED ON THE COUNTERTOP, OR INSTALLED ON THE SIDE OR FACE OF THE BASIN CABINET. IN NO CASE SHALL THE RECEPTACLE BE LOCATED MORE THAN 12 INCHES BELOW THE TOP OF THE BASIN OR BASIN COUNTERTOP RECEPTACLE OUTLET ASSEMBLIES LISTED FOR USE IN THE COUNTERTOPS SHALL BE PERMITTED TO BE INSTALLED IN THE COUNTERTOP. [CEC 210.52(D)]
6. OUTDOOR OUTLETS
ALL EXTERIOR RECEPTACLES SHALL BE WP/GFCI PROTECTED.
FOR A ONE-FAMILY DWELLING THAT IS AT GRADE LEVEL, AT LEAST ONE RECEPTACLE OUTLET READILY ACCESSIBLE FROM GRADE AND NOT MORE THAN 6 1/2 FEET ABOVE GRADE LEVEL SHALL BE INSTALLED AT THE FRONT AND BACK OF THE DWELLING. [210.52(E)(1)]
7. LAUNDRY AREAS
IN DWELLING UNITS, AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED IN AREAS DESIGNATED FOR THE INSTALLATION OF LAUNDRY EQUIPMENT. [210.52(F)]
8. GFCI OUTLETS. GROUND FAULT CIRCUIT INTERRUPTER (GFCI) OUTLETS ARE REQUIRED IN BATHROOMS, AT KITCHEN COUNTERTOPS, AT LAUNDRY AND WET BAR SINKS, IN GARAGES, IN CRAWLSPACES, IN UNFINISHED BASEMENTS, AND OUTDOORS. (CEC 210.8)
9. AFCI OUTLETS. ARC FAULT CIRCUIT INTERRUPTERS (AFCI) PROTECTION IS REQUIRED THROUGHOUT ALL 15 AND 20-AMP 120V CIRCUITRY THAT IS NOT GFCI PROTECTED. (CEC 210.12)

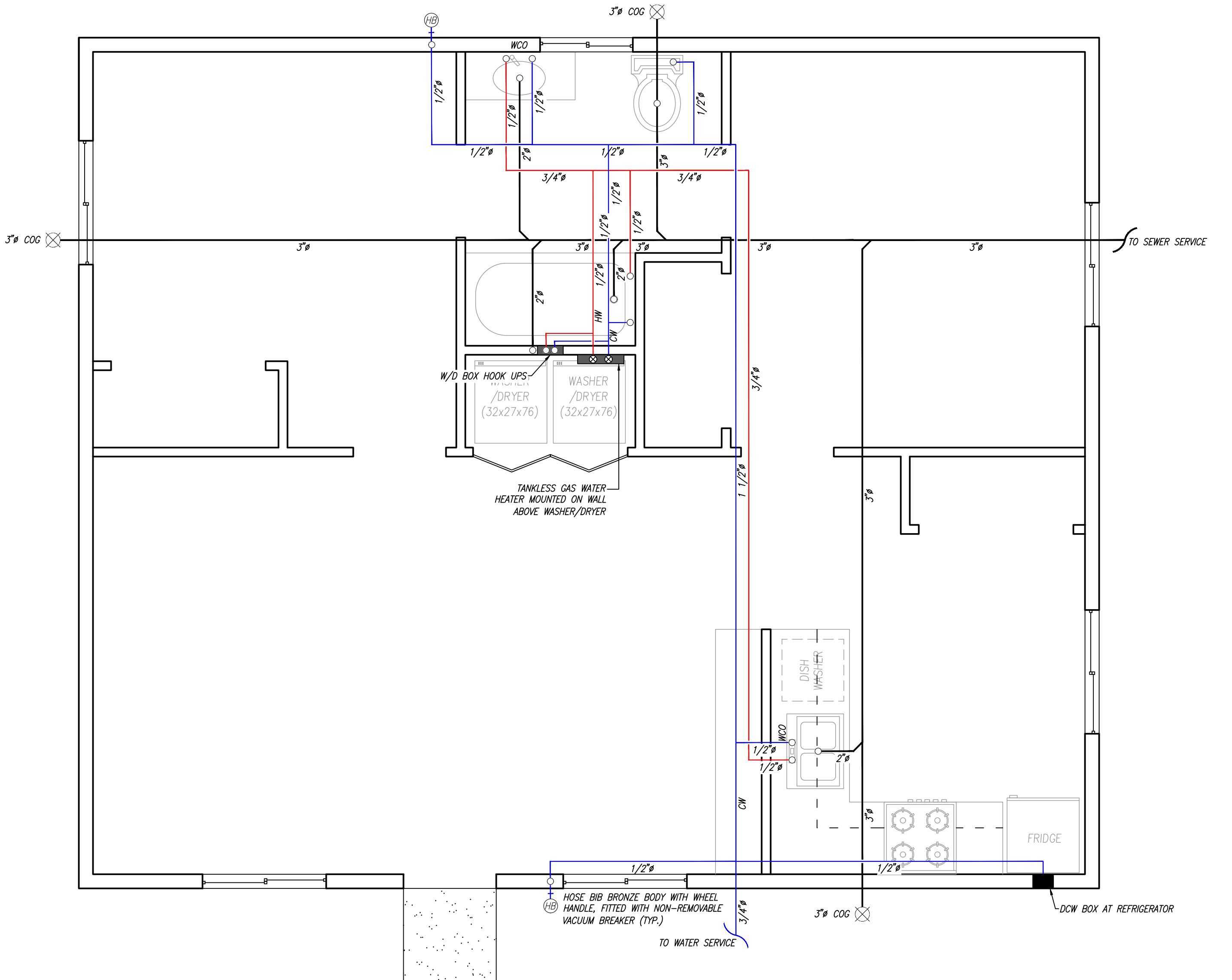


TABLE 610.4
Fixture Unit Table for Determining Water Pipe and Meter Sizes

METER AND STREET SERVICE (inches)	BUILDING SUPPLY AND BRANCHES (inches)	MAXIMUM ALLOWABLE LENGTH (feet)													
		40	60	80	100	150	200	250	300	400	500	600	700	800	900
PRESSURE RANGE - 30 to 45 psi ¹															
3/4	1/2 ²	6	5	4	3	2	1	1	0	0	0	0	0	0	0
3/4	3/4	16	16	14	12	9	6	5	5	4	4	3	2	2	2
3/4	1	29	25	23	21	17	15	13	12	10	8	6	6	6	6
1	1	36	31	27	25	20	17	15	13	12	10	8	6	6	6
3/4	1 1/4	36	33	31	28	24	23	21	19	17	16	13	12	12	11
1	1 1/4	54	47	42	38	32	28	25	23	19	17	14	12	12	11
1 1/2	1 1/4	78	68	57	48	38	32	28	25	21	18	15	12	12	11
1	1 1/2	85	84	79	65	56	48	43	38	32	28	26	22	21	20
1 1/2	1 1/2	150	124	105	91	70	57	49	45	36	31	26	23	21	20
2	1 1/2	151	129	129	110	80	64	53	46	38	32	27	23	21	20
1	2	85	85	85	85	85	82	80	66	61	57	52	49	46	43
1 1/2	2	220	205	190	176	155	138	127	120	104	85	70	61	57	54
2	2	370	327	292	265	217	185	164	147	124	96	70	61	57	54
2	2 1/2	445	418	390	370	330	300	280	265	240	220	198	175	158	143
For SI units: 1 inch = 25 mm, 1 foot = 304.8 mm, 1 pound-force per square inch = 6.8947 kPa															

Notes:

¹ Available static pressure after head loss.

² Building supply, not less than 3/4 of an inch (20 mm) nominal size.

NOTES

ASSUMPTION: 3/4" MUNICIPAL WATER SERVICE

CONNECTION TO BE DETERMINED ON SITE

610.3 Quantity of Water

The quantity of water required to be supplied to every plumbing fixture shall be represented by fixture units, as shown in Table 610.3. Equivalent fixture values shown in Table 610.3 include both hot and cold water demand.

TABLE 610.3
WATER SUPPLY FIXTURE UNITS (WSFU) AND MINIMUM FIXTURE BRANCH PIPE SIZES³

APPLIANCES, APPURTENANCES OR FIXTURES ²	MINIMUM FIXTURE BRANCH PIPE SIZE ^{1,4} (inches)	PRIVATE	PUBLIC	ASSEMBLY ⁵
Bathtub or Combination Bath/Shower (fill)	1/2	4.0	4.0	—
3/4 inch Bathtub Fill Valve	3/4	10.0	10.0	—
Bidet	1/2	1.0	—	—
Clothes Washer	1/2	4.0	4.0	—
Dental Unit, cuspidor	1/2	—	1.0	—
Dishwasher, domestic	1/2	1.5	1.5	—
Drinking Fountain or Water Cooler	1/2	0.5	0.5	0.75
Hose Bibb	1/2	2.5	2.5	—
Hose Bibb, each additional ⁶	1/2	1.0	1.0	—
Lavatory	1/2	1.0	1.0	1.0
Lawn Sprinkler, each head ⁵	—	1.0	1.0	—
Mobilehome or Manufactured Home, each (minimum) ⁹	—	6.0	—	—
Sinks	—	—	—	—
Bar	1/2	1.0	2.0	—
Clinical Faucet	1/2	—	3.0	—
Clinical Flushometer Valve with or without faucet	1	—	8.0	—
Kitchen, domestic with or without dishwasher	1/2	1.5	1.5	—
Laundry	1/2	1.5	1.5	—
Service or Mop Basin	1/2	2.0	3.0	—
Washup, each set of faucets	1/2	—	2.0	—
Shower, per head	1/2	2.0	2.0	—
Urinal, 1.0 GPF Flushometer Valve	3/4	See Footnote ⁷	—	—
Urinal, greater than 1.0 GPF Flushometer Valve	3/4	See Footnote ⁷	—	—
Urinal, flush tank	1/2	2.0	2.0	3.0
Urinal with Drain Cleansing Action	1/2	1.0	1.0	1.0
Wash Fountain, circular spray	3/4	—	4.0	—
Water Closet, 1.6 GPF Gravity Tank	1/2	2.5	2.5	3.5
Water Closet, 1.6 GPF Flushometer Tank	1/2	2.5	2.5	3.5
Water Closet, 1.6 GPF Flushometer Valve	1	See Footnote ⁷	—	—
Water Closet, greater than 1.6 GPF Gravity Tank	1/2	3.0	5.5	7.0
Water Closet, greater than 1.6 GPF Flushometer Valve	1	See Footnote ⁷	—	—

For SI units: 1 inch = 25 mm

Notes:

¹ Size of the cold branch pipe, or both the hot and cold branch pipes.

² Appliances, appurtenances, or fixtures not referenced in this table shall be permitted to be sized by reference to fixtures having a similar flow rate and frequency of use.

³ The listed fixture unit values represent their load on the cold water building supply. The separate cold water and hot water fixture unit value for fixtures having both hot and cold water connections shall be permitted to be each taken as three-quarter of the listed total value of the fixture.

⁴ The listed minimum supply branch pipe sizes for individual fixtures are the nominal (LD) pipe size.

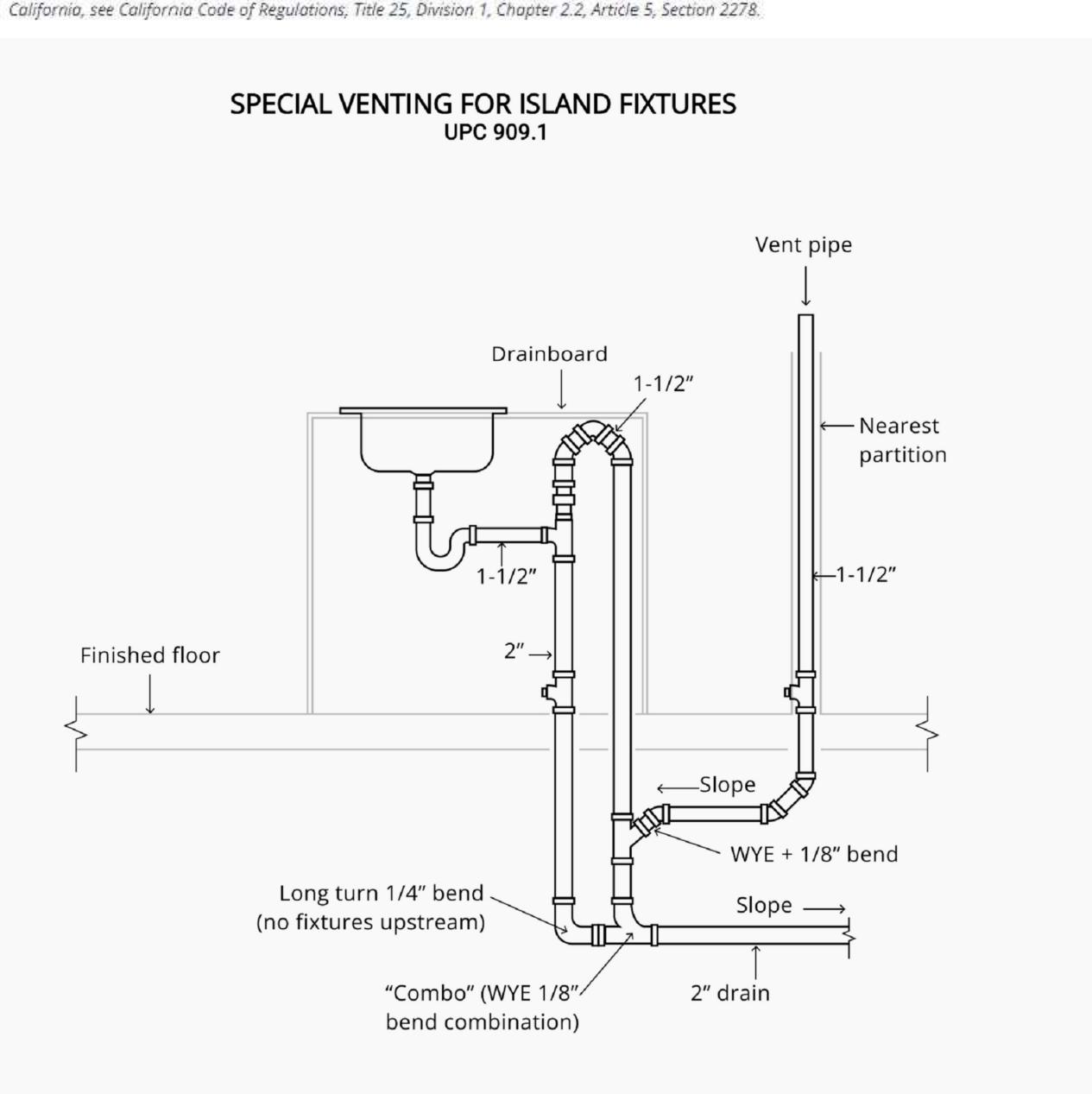
⁵ For fixtures or supply connections likely to impose continuous flow demands, determine the required flow in gallons per minute (gpm) (L/s), and add it separately to the demand in gpm (L/s) for the distribution system or portions thereof.

⁶ Assembly [Public Use (See Table 422.1)].

⁷ Where sizing flushometer systems, see Section 610.10.

⁸ Reduced fixture unit loading for additional hose bibbs is to be used where sizing total building demand and for pipe sizing where more than one hose bibb is supplied by a segment of water distribution pipe. The fixture branch to each hose bibb shall be sized on the basis of 2.5 fixture units.

⁹ For water supply fixture unit values related to lots within mobilehome parks in all parts of the State of California, see California Code of Regulations, Title 25, Division 1, Chapter 2, Article 5, Section 1278. For water supply fixture unit values related to lots within special occupancy parks in all parts of the State of California, see California Code of Regulations, Title 25, Division 1, Chapter 2, Article 5, Section 2278.



DISCLAIMER:
BY USING THESE STANDARD PLANS, THE USER AGREES TO
RELEASE THE CITY OF HANFORD FROM ANY AND ALL CLAIMS,
LIABILITIES, SUITS AND DEMANDS ON ACCOUNT OF ANY
INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY,
ARISING OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS. THE
USER AGREES NOT TO EMBARK ON ANY ACTIVITIES RELATED TO
THE USE OF THESE PLANS WITHOUT VERIFYING ANY AND ALL INFORMATION.



PROJECT TITLE	CITY OF HANFORD - PRE-REVIEWED ADU PROGRAM	
ADU SQFT	908	
DRAWING SCALE	3/8" = 1'	
AGENCY	SJV REAP	DATE
CITY OF HANFORD BUILDING DIVISION APPROVED		
SHEET PLANS AND SPECIFICATIONS MAY NOT BE USED AT THIS TIME NO CHANGES OR ALTERATIONS SHALL BE MADE EXCEPT BY THE BUILDING DIVISION.		
THE STAMPING ON THESE PLANS AND SPECIFICATIONS SHALL NOT BE HELD TO PERMIT OR TO BE AN APPROVAL OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE APPROPRIATE CODE OR STATE LAW. "REVIEWED FOR CODE COMPLIANCE."		
BY: Mitchell Couch 12/11/2025		



2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

<input checked="" type="checkbox"/> N/A <input type="checkbox"/> RESP. PARTY		<input type="checkbox"/> N/A <input checked="" type="checkbox"/> RESP. PARTY		<input type="checkbox"/> N/A <input checked="" type="checkbox"/> RESP. PARTY		<input type="checkbox"/> N/A <input checked="" type="checkbox"/> RESP. PARTY		<input type="checkbox"/> N/A <input checked="" type="checkbox"/> RESP. PARTY		<input type="checkbox"/> N/A <input checked="" type="checkbox"/> RESP. PARTY	
CHAPTER 3 GREEN BUILDING SECTION 301 GENERAL											
<p>301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.</p> <p>301.1.1 Addition and alteration. The mandatory provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or alteration.</p> <p>The mandatory provision of Section 4.106.4.2 may apply to additions or alterations of existing parking facilities or the addition of new parking facilities serving existing multifamily buildings. See Section 4.106.4.3 for application.</p> <p>Note: Repairs, including, but not limited to, resurfacing, restriping and repairing or maintaining existing lighting fixtures are not considered alterations for the purpose of this section.</p> <p>Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or improvements shall replace non-compliant plumbing fixtures with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.</p> <p>301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] The provisions of individual sections of CALGreen may apply to either low-rise residential buildings high-rise residential buildings, or both. Individual sections will be designated by banners to indicate where the section applies specifically to low-rise (LR) or high-rise (HR). When the section applies to both low-rise and high-rise buildings, no banner will be used.</p>											
<p>SECTION 302 MIXED OCCUPANCY BUILDINGS</p> <p>302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.</p> <p>Exception:</p> <ul style="list-style-type: none"> 1. [HCD] Accessory structures and accessory occupancies serving residential buildings shall comply with Chapter 4 and Appendix A4, as applicable. 2. [HCD] For purposes of CALGreen, live/work units, complying with Section 419 of the California Building Code, shall not be considered mixed occupancies. Live/Work units shall comply with Chapter 4 and Appendix A4, as applicable. 											
<p>DIVISION 4.1 PLANNING AND DESIGN</p> <p>ABBREVIATION DEFINITIONS:</p> <p>HCD Department of Housing and Community Development BSC California Building Standards Commission DSA-SS Division of the State Architect, Structural Safety OSHPD Office of Statewide Health Planning and Development LR Low Rise HR High Rise AA Additions and Alterations N New</p> <p>CHAPTER 4 RESIDENTIAL MANDATORY MEASURES</p> <p>SECTION 4.102 DEFINITIONS</p> <p>4.102.1 DEFINITIONS</p> <p>The following terms are defined in Chapter 2 (and are included here for reference)</p> <p>FRENCH DRAIN. A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar pervious material used to collect or channel drainage or runoff water.</p> <p>WATTLES. Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also used for perimeter and inlet controls.</p> <p>4.106 SITE DEVELOPMENT</p> <p>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.</p> <p>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.</p> <ul style="list-style-type: none"> 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. <p>Note: Refer to the State Water Resources Control Board for projects which disturb one acre or more of soil, or are part of a larger common plan of development which in total disturbs one acre or more of soil.</p> <p>(Website: https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html)</p> <p>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:</p> <ul style="list-style-type: none"> 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. <p>Exception: Additions and alterations not altering the drainage path.</p> <p>4.106.4 Electric vehicle (EV) charging for new construction. New construction shall comply with Sections 4.106.4.1 or 4.106.4.2 to facilitate future installation and use of EV chargers. Electric vehicle supply equipment (EVSE) shall be installed in accordance with the California Electrical Code, Article 625.</p> <p>Exceptions:</p> <ul style="list-style-type: none"> 1. 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: <ul style="list-style-type: none"> 1.1 Where there is no local utility power supply or the local utility is unable to supply adequate power. 1.2 Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements directly relate to the implementation of Section 4.106.4, may adversely impact the construction cost of the project. 2. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional parking facilities. <p>4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each dwelling unit, there is a raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway shall not be less than trade size 1 1/2 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere 208/240-volt minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.</p> <p>Exception: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed in close proximity to the proposed location of an EV charger at the time of original construction in accordance with the California Electrical Code.</p> <p>4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".</p>											
<p>4.106.4.2 New multifamily developments, hotels and motels and new residential parking facilities. Where new multifamily developments, hotels and motels and new residential parking facilities are required to be provided, parking spaces for temporary residents, before space is required to meet the requirements of Sections 4.106.4.2.1 and 4.106.4.2.2. Calculations for spaces shall be rounded up to the nearest whole number. A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by a local jurisdiction. See Vehicle Code Section 22511.2 for further details.</p> <p>4.106.4.2.1 Multifamily developments projects with less than 20 dwelling units; and hotels and motels with less than 20 sleeping units or guest rooms. The number of dwelling units, sleeping units or guest rooms shall be based on all buildings on a project site subject to this section.</p> <p>4.106.4.2.2 Multifamily development projects with 20 or more dwelling units, hotels and motels with 20 or more sleeping units or guest rooms. The number of dwelling units, sleeping units or guest rooms shall be based on all buildings on a project site subject to this section.</p> <p>4.106.4.2.3 Electric vehicle charging for additions and alterations of parking facilities serving existing multifamily buildings. When new parking facilities are added, or electrical systems or lighting of existing parking facilities are added or altered and the work requires a building permit, ten (10) percent of the total number of parking spaces added or altered shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 EVSE. Electrical load calculations shall demonstrate that the electrical panel service capacity and electrical system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all EVs at all required EV spaces at a minimum of 40 amperes.</p> <p>4.106.4.2.4 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code.</p> <p>4.106.4.2.5 Electric Vehicle Ready Space Signage. Electric vehicle ready spaces shall be identified by signage or pavement markings, in compliance with Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).</p> <p>4.106.4.3 Electric vehicle charging for additions and alterations of parking facilities serving existing multifamily buildings. When new parking facilities are added, or electrical systems or lighting of existing parking facilities are added or altered and the work requires a building permit, ten (10) percent of the total number of parking spaces added or altered shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 EVSE.</p> <p>Notes:</p> <ul style="list-style-type: none"> 1. Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging. 2. There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use. <p>DIVISION 4.2 ENERGY EFFICIENCY</p> <p>4.201 GENERAL</p> <p>4.201.1 SCOPE. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory standards.</p>											
<p>DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION</p> <p>4.303 INDOOR WATER USE</p> <p>4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and 4.303.4.4.</p> <p>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.</p> <p>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.</p> <p>4.303.1.3 Showerheads.</p> <ul style="list-style-type: none"> 1. Single Showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads. 2. Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to only allow one shower outlet to be in operation at a time. <p>4.303.1.4 Handheld shower. A handheld shower shall be considered a showerhead.</p> <p>4.303.1.4.1 Residential Lavatory Faucets. The maximum flow rate of residential lavatory faucets shall not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall not be less than 0.8 gallons per minute at 20 psi.</p> <p>4.303.1.4.2 Lavatory Faucets. Residential lavatory faucets installed in common and/or multiple units (with applicable exceptions) in residential buildings shall not exceed 0.5 gallons per minute at 60 psi.</p> <p>4.303.1.4.3 Metering Faucets. Metering faucets shall be held to the applicable codes and standards for metering, shall not exceed 0.2 gallons per cycle on approval of any violation of applicable codes and standards, nor relieve the owner, designer, manufacturer, or supplier of liability for maximum rate, but not to exceed 2.2 gallons per minute, in compliance with applicable codes and standards per minute at 60 psi.</p> <p>4.303.1.4.4 Kitchen Faucets. Kitchen faucets shall be held to the applicable codes and standards per minute at 60 psi. Kitchen faucets shall not exceed 1.8 gallons per minute at 60 psi. Kitchen faucets shall be held to the applicable codes and standards per minute at 60 psi.</p> <p>4.303.1.4.5 Pre-rinse spray valves. When installed, shall meet the requirements in the California Code of Regulations, Title 20 (Appliance Efficiency Regulations), Sections 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d)(7) and shall be equipped with an integral automatic shutoff.</p> <p>4.303.1.4.6 Rod Carsey Consulting & Plan Check Service. Where complying faucet requirements are not met, other means may be used to achieve reduction.</p> <p>4.303.1.4.7 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.8 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.9 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.10 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.11 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.12 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.13 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.14 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.15 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.16 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.17 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.18 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.19 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.20 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.21 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.22 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.23 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.24 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.25 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.26 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.27 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.28 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.29 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.30 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.31 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.32 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.33 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.34 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.35 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.36 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.37 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.38 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.39 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.40 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.41 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.42 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.43 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.44 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.45 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.46 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.47 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.48 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.49 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.50 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.51 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.52 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.53 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.54 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.55 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.56 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.57 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.58 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.59 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.60 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.61 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.62 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.63 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.64 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.65 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.66 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.67 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.68 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.69 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.70 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.71 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.72 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.73 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.74 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.75 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.76 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.77 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.78 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.79 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.80 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.81 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.82 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.83 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.84 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.85 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.86 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.87 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.88 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.89 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.90 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.91 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.92 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.93 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.94 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.95 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.96 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.97 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.98 These plans and documents have been reviewed and approved by the City of Hanford.</p> <p>4.303.1.4.99 These plans and documents have been reviewed and approved by the City of Hanford.</p</p>											



California

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2023)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

Y	N/A	RESPON. PARTY																																																														
MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base Residue Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundreds of a gram (g O ₃ /g ROG). Note: MIR values for individual compounds and hydrocarbon solvents are specified in CCR, Title 17, Sections 94700 and 94701.																																																																
MOISTURE CONTENT. The weight of the water in wood expressed in percentage of the weight of the oven-dry wood.																																																																
PRODUCT-WEIGHTED MIR (PWWIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWWIR is the total product reactivity expressed to hundreds of a gram of ozone formed per gram of product (excluding container and packaging). Note: PWWIR is calculated according to equations found in CCR, Title 17, Section 94521 (a).																																																																
REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.																																																																
VOC. A volatile organic compound (VOC) broadly defined as a chemical compound based on carbon chains or rings with vapor pressure greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).																																																																
4.503 FIREPLACES																																																																
4.503.1 GENERAL. Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances.																																																																
4.504 POLLUTANT CONTROL																																																																
4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. At the time of rough installation, during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of water, dust or debris which may enter the system.																																																																
4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with this section.																																																																
4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealant and caulk used on the project shall meet the requirements of the following standards unless more stringent local or regional air pollution or air quality management district rules apply:																																																																
1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulk shall comply with local or regional air pollution control or air quality management district rules where applicable or SCAGMD Rule 1168 VOC limits, as shown in Table 4.504.1 or 4.504.2, as applicable. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products, as specified in Subsection 2 below.																																																																
2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than 1 pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with section 94504.2.																																																																
4.504.2.2 Paints and Coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Suggested Control Measure, as shown in Table 4.504.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 4.504.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 4.504.3 shall apply.																																																																
4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and coatings shall meet the Product-weighted MIR limits for ROC in Section 94522(e)(2) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(e)(1) and (f)(1) of California Code of Regulations, Title 17, commencing with Section 94520, and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8, Rule 49.																																																																
4.504.2.4 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:																																																																
1. Manufacturer's product specification. 2. Field verification of on-site product containers.																																																																
TABLE 4.504.1 - ADHESIVE VOC LIMIT_{1,2} (Less Water and Less Exempt Compounds in Grams per Liter)																																																																
<table border="1"> <thead> <tr> <th>ARCHITECTURAL APPLICATIONS</th> <th>VOC LIMIT</th> </tr> </thead> <tbody> <tr><td>INDOOR CARPET ADHESIVES</td><td>50</td></tr> <tr><td>CARPET PAD ADHESIVES</td><td>50</td></tr> <tr><td>OUTDOOR CARPET ADHESIVES</td><td>150</td></tr> <tr><td>WOOD FLOORING ADHESIVES</td><td>100</td></tr> <tr><td>RUBBER FLOOR ADHESIVES</td><td>60</td></tr> <tr><td>SUBFLOOR ADHESIVES</td><td>50</td></tr> <tr><td>CERAMIC TILE ADHESIVES</td><td>65</td></tr> <tr><td>VCT & ASPHALT TILE ADHESIVES</td><td>50</td></tr> <tr><td>DRYWALL & PANEL ADHESIVES</td><td>50</td></tr> <tr><td>COVE BASE ADHESIVES</td><td>50</td></tr> <tr><td>MULTIPURPOSE CONSTRUCTION ADHESIVE</td><td>70</td></tr> <tr><td>STRUCTURAL GLAZING ADHESIVES</td><td>100</td></tr> <tr><td>SINGLE-PLY ROOF MEMBRANE ADHESIVES</td><td>250</td></tr> <tr><td>OTHER ADHESIVES NOT LISTED</td><td>50</td></tr> <tr><td colspan="2">SPECIALTY APPLICATIONS</td></tr> <tr><td>PVC WELDING</td><td>510</td></tr> <tr><td>CPVC WELDING</td><td>490</td></tr> <tr><td>ABS WELDING</td><td>325</td></tr> <tr><td>PLASTIC CEMENT WELDING</td><td>250</td></tr> <tr><td>ADHESIVE PRIMER FOR PLASTIC</td><td>550</td></tr> <tr><td>CONTACT ADHESIVE</td><td>80</td></tr> <tr><td>SPECIAL PURPOSE CONTACT ADHESIVE</td><td>250</td></tr> <tr><td>STRUCTURAL WOOD MEMBER ADHESIVE</td><td>140</td></tr> <tr><td>TOP & TRIM ADHESIVE</td><td>250</td></tr> <tr><td colspan="2">SUBSTRATE SPECIFIC APPLICATIONS</td></tr> <tr><td>METAL TO METAL</td><td>30</td></tr> <tr><td>PLASTIC FOAMS</td><td>50</td></tr> <tr><td>POROUS MATERIAL (EXCEPT WOOD)</td><td>50</td></tr> <tr><td>WOOD</td><td>30</td></tr> <tr><td>FIBERGLASS</td><td>80</td></tr> </tbody> </table>			ARCHITECTURAL APPLICATIONS	VOC LIMIT	INDOOR CARPET ADHESIVES	50	CARPET PAD ADHESIVES	50	OUTDOOR CARPET ADHESIVES	150	WOOD FLOORING ADHESIVES	100	RUBBER FLOOR ADHESIVES	60	SUBFLOOR ADHESIVES	50	CERAMIC TILE ADHESIVES	65	VCT & ASPHALT TILE ADHESIVES	50	DRYWALL & PANEL ADHESIVES	50	COVE BASE ADHESIVES	50	MULTIPURPOSE CONSTRUCTION ADHESIVE	70	STRUCTURAL GLAZING ADHESIVES	100	SINGLE-PLY ROOF MEMBRANE ADHESIVES	250	OTHER ADHESIVES NOT LISTED	50	SPECIALTY APPLICATIONS		PVC WELDING	510	CPVC WELDING	490	ABS WELDING	325	PLASTIC CEMENT WELDING	250	ADHESIVE PRIMER FOR PLASTIC	550	CONTACT ADHESIVE	80	SPECIAL PURPOSE CONTACT ADHESIVE	250	STRUCTURAL WOOD MEMBER ADHESIVE	140	TOP & TRIM ADHESIVE	250	SUBSTRATE SPECIFIC APPLICATIONS		METAL TO METAL	30	PLASTIC FOAMS	50	POROUS MATERIAL (EXCEPT WOOD)	50	WOOD	30	FIBERGLASS	80
ARCHITECTURAL APPLICATIONS	VOC LIMIT																																																															
INDOOR CARPET ADHESIVES	50																																																															
CARPET PAD ADHESIVES	50																																																															
OUTDOOR CARPET ADHESIVES	150																																																															
WOOD FLOORING ADHESIVES	100																																																															
RUBBER FLOOR ADHESIVES	60																																																															
SUBFLOOR ADHESIVES	50																																																															
CERAMIC TILE ADHESIVES	65																																																															
VCT & ASPHALT TILE ADHESIVES	50																																																															
DRYWALL & PANEL ADHESIVES	50																																																															
COVE BASE ADHESIVES	50																																																															
MULTIPURPOSE CONSTRUCTION ADHESIVE	70																																																															
STRUCTURAL GLAZING ADHESIVES	100																																																															
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250																																																															
OTHER ADHESIVES NOT LISTED	50																																																															
SPECIALTY APPLICATIONS																																																																
PVC WELDING	510																																																															
CPVC WELDING	490																																																															
ABS WELDING	325																																																															
PLASTIC CEMENT WELDING	250																																																															
ADHESIVE PRIMER FOR PLASTIC	550																																																															
CONTACT ADHESIVE	80																																																															
SPECIAL PURPOSE CONTACT ADHESIVE	250																																																															
STRUCTURAL WOOD MEMBER ADHESIVE	140																																																															
TOP & TRIM ADHESIVE	250																																																															
SUBSTRATE SPECIFIC APPLICATIONS																																																																
METAL TO METAL	30																																																															
PLASTIC FOAMS	50																																																															
POROUS MATERIAL (EXCEPT WOOD)	50																																																															
WOOD	30																																																															
FIBERGLASS	80																																																															
1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.																																																																
2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.																																																																

TABLE 4.504.2 - SEALANT VOC LIMIT	
(Less Water and Less Exempt Compounds in Grams per Liter)	
SEALANTS	VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NON-POROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

TABLE 4.504.5 - FORMALDEHYDE LIMITS	
MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION	
PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD	0.13

CHAPTER 7 INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS	
702 QUALIFICATIONS	
702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:	
1. State certified apprenticeship programs. 2. Public utility training programs. 3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. 4. Programs sponsored by manufacturing organizations. 5. Other programs acceptable to the enforcing agency.	
702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:	
1. Certification by a national or regional green building program or standard publisher. 2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors. 3. Successful completion of a third party apprentice training program in the appropriate trade. 4. Other programs acceptable to the enforcing agency.	
Notes:	
1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. 2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).	
[BSC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.	
Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.	

DISCLAIMER: BY USING THESE STANDARD PLANS, THE USER AGREES TO RELEASE THE CITY OF HANFORD FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS AND DEMANDS ON ACCOUNT OF ANY INJURY, DAMAGE, OR DEATH, OR ECONOMIC LOSSES, ARISING OUT OF THE USE OF THESE PLANS, WHETHER OR NOT THE USE OF THESE PLANS DOES NOT ELIMINATE OR REDUCE THE USER'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION.



REVISIONS	—	—	—	—
PROJECT TITLE	CITY OF HANFORD - PRE-REVIEWED ADU PROGRAM	SHEET DESCRIPTION	CALGREEN FORM	AGENCY
ADU SQFT	908	SJV REAP	DATE	10/28/2024
DRAWING SCALE	---			
CITY OF HANFORD BUILDING DIVISION APPROVED				
THIS SHEET PLANS AND SPECIFICATIONS MAY NOT BE USED OR REFERENCED AT THIS TIME AND NO CHANGES OR ALTERATIONS SHALL BE MADE EXCEPT BY THE BUILDING DIVISION.				
THE STAMP ON THIS SHEET PLANS AND SPECIFICATIONS SHALL NOT BE USED TO PERMIT OR TO BE AN APPROVAL OF THE VARIOUS BUILDING DIVISIONS OF THE CITY OF HANFORD OR ANY ORDINANCE OR CODE THAT IS NOT REVISED FOR CODE COMPLIANCE.				
BY: <i>Michael Couch</i> 12/11/2025				

22

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

Y	N/A	RESPON. PARTY																																																																																	
4.504.3 VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS₃																																																																																			
GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS																																																																																			
<table border="1"> <thead> <tr> <th>COATING CATEGORY</th> <th>VOC LIMIT</th> </tr> </thead> <tbody> <tr><td>FLAT COATINGS</td><td>50</td></tr> <tr><td>NON-FLAT COATINGS</td><td>100</td></tr> <tr><td>NONFLAT-HIGH GLOSS COATINGS</td><td>150</td></tr> <tr><td>SPECIALTY COATINGS</td><td></td></tr> <tr><td>ALUMINUM ROOF COATINGS</td><td>400</td></tr> <tr><td>BASEMENT SPECIALTY COATINGS</td><td>400</td></tr> <tr><td>BITUMINOUS ROOF COATINGS</td><td>50</td></tr> <tr><td>BOND BREAKERS</td><td>350</td></tr> <tr><td>CONCRETE CURING COMPOUNDS</td><td>350</td></tr> <tr><td>CONCRETE/MASONRY SEALERS</td><td>100</td></tr> <tr><td>DRIVEWAY SEALERS</td><td>50</td></tr> <tr><td>DRY VOC COATINGS</td><td>150</td></tr> <tr><td>FAUX FINISHING COATINGS</td><td>350</td></tr> <tr><td>FIRE RESISTIVE COATINGS</td><td>350</td></tr> <tr><td>FLOOR COATINGS</td><td>100</td></tr> <tr><td>FORM-RELEASE COMPOUNDS</td><td>250</td></tr> <tr><td>GRAPHIC ARTS COATINGS (SIGN PAINTS)</td><td>500</td></tr> <tr><td>HIGH TEMPERATURE COATINGS</td><td>420</td></tr> <tr><td>INDUSTRIAL MAINTENANCE COATINGS</td><td>250</td></tr> <tr><td>LOW SOLIDS COATINGS</td><td>120</td></tr> <tr><td>MAGNESITE CEMENT COATINGS</td><td>450</td></tr> <tr><td>MASTIC TEXTURE COATINGS</td><td>100</td></tr> <tr><td>METALLIC PIGMENTED COATINGS</td><td>500</td></tr> <tr><td>MULTICOLOR COATINGS</td><td>250</td></tr> <tr><td>PRETREATMENT WASH PRIMERS</td><td>420</td></tr> <tr><td>PRIMERS, SEALERS, & UNDERCOATERS</td><td>100</td></tr> <tr><td>REACTIVE PENETRATING SEALERS</td><td>350</td></tr> <tr><td>RECYCLED COATINGS</td><td>250</td></tr> <tr><td>ROOF COATINGS</td><td>50</td></tr> <tr><td>RUST PREVENTATIVE COATINGS</td><td>250</td></tr> <tr><td>SHELLAC</td><td></td></tr> <tr><td>CLEAR</td><td>730</td></tr> <tr><td>OPAQUE</td><td>550</td></tr> <tr><td>SPECIALTY PRIMERS, SEALERS & UNDERCOATERS</td><td>100</td></tr> <tr><td>STAINS</td><td>250</td></tr> <tr><td>STONE CONSOLIDANTS</td><td>450</td></tr> <tr><td>SWIMMING POOL COATINGS</td><td>340</td></tr> <tr><td>TRAFFIC MARKING COATINGS</td><td>100</td></tr> <tr><td>TUB & TILE REFINISH COATINGS</td><td>420</td></tr> <tr><td>WATERPROOFING MEMBRANES</td><td>250</td></tr> <tr><td>WOOD</td></tr></tbody></table>	COATING CATEGORY	VOC LIMIT	FLAT COATINGS	50	NON-FLAT COATINGS	100	NONFLAT-HIGH GLOSS COATINGS	150	SPECIALTY COATINGS		ALUMINUM ROOF COATINGS	400	BASEMENT SPECIALTY COATINGS	400	BITUMINOUS ROOF COATINGS	50	BOND BREAKERS	350	CONCRETE CURING COMPOUNDS	350	CONCRETE/MASONRY SEALERS	100	DRIVEWAY SEALERS	50	DRY VOC COATINGS	150	FAUX FINISHING COATINGS	350	FIRE RESISTIVE COATINGS	350	FLOOR COATINGS	100	FORM-RELEASE COMPOUNDS	250	GRAPHIC ARTS COATINGS (SIGN PAINTS)	500	HIGH TEMPERATURE COATINGS	420	INDUSTRIAL MAINTENANCE COATINGS	250	LOW SOLIDS COATINGS	120	MAGNESITE CEMENT COATINGS	450	MASTIC TEXTURE COATINGS	100	METALLIC PIGMENTED COATINGS	500	MULTICOLOR COATINGS	250	PRETREATMENT WASH PRIMERS	420	PRIMERS, SEALERS, & UNDERCOATERS	100	REACTIVE PENETRATING SEALERS	350	RECYCLED COATINGS	250	ROOF COATINGS	50	RUST PREVENTATIVE COATINGS	250	SHELLAC		CLEAR	730	OPAQUE	550	SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100	STAINS	250	STONE CONSOLIDANTS	450	SWIMMING POOL COATINGS	340	TRAFFIC MARKING COATINGS	100	TUB & TILE REFINISH COATINGS	420	WATERPROOFING MEMBRANES	250	WOOD
COATING CATEGORY	VOC LIMIT																																																																																		
FLAT COATINGS	50																																																																																		
NON-FLAT COATINGS	100																																																																																		
NONFLAT-HIGH GLOSS COATINGS	150																																																																																		
SPECIALTY COATINGS																																																																																			
ALUMINUM ROOF COATINGS	400																																																																																		
BASEMENT SPECIALTY COATINGS	400																																																																																		
BITUMINOUS ROOF COATINGS	50																																																																																		
BOND BREAKERS	350																																																																																		
CONCRETE CURING COMPOUNDS	350																																																																																		
CONCRETE/MASONRY SEALERS	100																																																																																		
DRIVEWAY SEALERS	50																																																																																		
DRY VOC COATINGS	150																																																																																		
FAUX FINISHING COATINGS	350																																																																																		
FIRE RESISTIVE COATINGS	350																																																																																		
FLOOR COATINGS	100																																																																																		
FORM-RELEASE COMPOUNDS	250																																																																																		
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500																																																																																		
HIGH TEMPERATURE COATINGS	420																																																																																		
INDUSTRIAL MAINTENANCE COATINGS	250																																																																																		
LOW SOLIDS COATINGS	120																																																																																		
MAGNESITE CEMENT COATINGS	450																																																																																		
MASTIC TEXTURE COATINGS	100																																																																																		
METALLIC PIGMENTED COATINGS	500																																																																																		
MULTICOLOR COATINGS	250																																																																																		
PRETREATMENT WASH PRIMERS	420																																																																																		
PRIMERS, SEALERS, & UNDERCOATERS	100																																																																																		
REACTIVE PENETRATING SEALERS	350																																																																																		
RECYCLED COATINGS	250																																																																																		
ROOF COATINGS	50																																																																																		
RUST PREVENTATIVE COATINGS	250																																																																																		
SHELLAC																																																																																			
CLEAR	730																																																																																		
OPAQUE	550																																																																																		
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100																																																																																		
STAINS	250																																																																																		
STONE CONSOLIDANTS	450																																																																																		
SWIMMING POOL COATINGS	340																																																																																		
TRAFFIC MARKING COATINGS	100																																																																																		
TUB & TILE REFINISH COATINGS	420																																																																																		
WATERPROOFING MEMBRANES	250																																																																																		
WOOD																																																																																			

Heating, Ventilating and Air Conditioning INSTALLATION REQUIREMENTS

General Notes

- The following Codes apply to this plan: 2022 California Residential Code, 2022 California Building Code, 2022 California Mechanical Code, 2022 California Energy Code, and the 2022 California Green Code.
- Calculations and specifications are based upon Title 24 documents provided at the time the design was performed. Any subsequent changes or additions to these documents or structure may affect the design attached herewith.
- Mechanical exhaust systems in bathrooms shall be in accordance with California 2022 Green Building Standards, Section 4.506.1 a. Bathroom is room which contains a bathtub, shower or tub/shower combination.
- Mechanical exhaust systems in private toilet rooms are required and shall have a minimum capacity of 50 CFM intermittent or 25 CFM continuous as per 2022 California Mechanical Code, Table 4.4.
- All mechanical equipment and devices shall be installed in accordance to applicable federal, state and local codes and standards. All applicable codes shall supersede any feature directly or indirectly implied by these plans and specifications. Where work of a higher degree is indicated in the plans and specifications, this requirement shall govern.
- Equipment, registers and grilles are to be as specified, or equal. Substitutions must demonstrate equivalence on unit capacities and airflow performance based upon design conditions, including SEER, EER, AFUE, sensible capacity at design conditions, heating output, airflow at design static pressure, cooling coil static pressure drop across wet coil, etc. All equipment must be installed in accordance with manufacturer's recommendations.
- Where mechanical equipment is located in the attic provide access and passage way in accordance with 2022 California Mechanical Code, Section 304.4. Provide a minimum 24" wide and 48" high access to the equipment. The centerline distance from the access point to the equipment shall not exceed 20'. The passage way must be unobstructed and the access shall be large enough to remove the largest piece of equipment.
- Adhesives, sealants and caulk used on the project shall meet requirements of the 2022 California Green Code, Section 4.504.1.
- This design was based upon the architectural and structural plans provided to the designer at the time this design was performed. It is the owner/builders responsibility to coordinate these plans with framing and other trades.
- Installing contractor shall review the design and assume full responsibility for proper installation, operation, and acceptable noise levels.

Installation Notes

- Locations of equipment, registers, grilles and duct shown on these plans are approximate and are shown for schematic purposes only and for clarity. If the actual location of equipment, registers, grilles and duct significantly vary from the plans to the extent that airflow may be impeded or reduced, it is the installing contractor's responsibility to meet the intended design performance.
- Cooling coils/condensate and overflow lines are to be properly trapped, vented, and sloped for drainage in accordance with 2022 California Mechanical Code, Sections 310.4, 310.5 and 310.6.
- Cooling coils installed in attic spaces are to be installed over an auxiliary water-tight pan. Safety pan is to have drainage in case of cooling coil overflow. Drainage overflow piping is to be piped to an outside wall and over a window. Pipe through wall is to be terminated with a 90-degree elbow, turned down. Piping through walls is to be flashed and made water-tight.
- Exact location of heating and cooling units is to be verified and determined on site.
- All ductwork shall be installed and supported in accordance with 2022 California Mechanical Code and manufacturer's published recommendations.
- All supply air registers boots are to be provided and installed with sheet rock grounds and transitional duct connections (PH1, PH2 or PH3) B-Boxes or shallow boots with tap-ins is not allowed unless approved otherwise.
- All return air boots are to be a minimum of 6" in depth and be provide and installed with sheet rock grounds.
- In accordance with 2022 California Green Code, Section 4.504.1, At time of rough installation, ordering storage on the construction site and until final start up of the heating and cooling equipment, all duct and other related air distribution component openings shall be covered.
- All sheet metal duct and fittings and register/grille boots, including seams, are to be sealed air tight with approved duct sealant. After installation, the entire system shall be tested and certified in accordance with the Title 24 CF-IR documents.
- All sheet metal duct and fittings are to be externally insulated in accordance with Title 24 specifications. Insulation is to be lapped, pulled tight and sealed in accordance with manufacturer's recommendations. Pulling up flexible duct insulation and vinyl covering over sheet metal insulation is NOT acceptable.
- Exhaust fan discharge air is to be discharged outside. As per 2022 California Mechanical Code, Section 407.2, the point of discharge air shall be located a minimum of 10ft. from any mechanical ventilation intake and a minimum of 10ft. from any occupied areas, doors or windows which allows air entry into the building.
- All cavities and spaces provided to convey supply, return or fresh air shall be fully ducted using duct board, sheet metal, flexible duct or other approved materials. Plywood, drywall, OSB, 2x4's, 2x6's, etc are NOT approved materials. Boxed in framing members, panned joists and stud bays, or other non-ducted building cavities are prohibited.
- This design incorporates trunk and branch layouts for the strict purpose of zoning and air balancing. The installing contractor shall furnish and install inline-balancing dampers, with locking quadrants, in all main ducts leading away from the primary supply air plenum and/or where shown on plans.
- Final air balancing is the responsibility of the installing contractor as per 2022 California Mechanical Code, Section 314.1. Air balancing is to be performed on every home using a calibrated Balometer. Unless otherwise noted, the CFM shown at each register is an average design CFM of cardinal orientations, unless specified otherwise, required to meet the room heating and cooling loads. Air balancing using register adjustments is acceptable for fine tuning to air balance only. When an Air Balancing Schedule is provided, airbalance to the specific orientation.
- Refrigerant line sets are to be sized in accordance with manufacturer's recommendations and are not to exceed the maximum distance per manufacturer's specifications.
- Refrigerant service ports located outdoors shall be fitted with locking type tamper-resistant caps or shall be protected from unauthorized access by means acceptable to the Enforcing Agency in accordance with 2022 California Mechanical Code, Section 1105.11.
- Refrigerant suction piping is to be insulated in accordance with T24 Mandatory Measures 150.02. Building Energy Efficiency Standards Table 150-8 and Equation 150-A. Protection of insulation shall be in accordance with Section 150(B)A - Mandatory Features and Devices.
- If applicable, special care must be taken in laying out, cutting and installing duct through TJI floor joists. Passage through floor joist is to be in accordance with floor joist manufacturer's recommendations and guidelines.
- Thermostats shall be 5-day/2-day programmable night setback.

2022 Energy Efficiency Contractor Requirements

It is the Builder and Installing Contractor responsibility to refer to the Title 24 CF1R Certificates of Energy Compliance for verification of energy measures and required contractor testing.

After installation the installing contractor shall submit an Installation Certificate (Form, CF2R), completed and signed by the installer, listing the equipment installed (manufacturer, model, and efficiencies), along with other field verifications and testing as specified in the Title 24 Certificate of Compliance (Form CF1R).

Registered copies of Installing Contractor CF2R and HERS Rater CF3R Field Verified and Diagnostic Testing Forms are to be submitted prior to final inspection in accordance with CEEs Sections 10-103(a)(3) and 10-103 (a)(5).

Indoor Air Quality (IAQ)
Minimum calculated ventilation rate is calculated in accordance the 2022 Residential Compliance Manual Section 4.6.5. When the performance compliance approach is used, the compliance software completes all the calculations given in Equations 4-1, 4-2, 4-3, and 4-4, and Q_{fan} is reported on the CF1R.
Minimum Calculated CFM per CF1R = 45 CFM

HVAC Title 24
2022 Energy Standards
See T24 CF-IR Energy Compliance Document for Selected and/or Required Energy Measures.

Minimum Air Filtration
2022 California Mechanical Code ASHRAE 62.2, Section 401.2 requires that minimum filtration be no less than MERV 13, installed prior to occupancy in HVAC systems outside air and return air having more than 10 ft of ductwork.
MANDATORY: Filter racks or filter grilles shall be gasketed or sealed to prevent air from bypassing the filter per Section 150.0(m)2Bv

Installer and Special Inspector Qualifications
2022 California Green Building Standards, Chapter 7
702.1 HVAC Systems installer shall be trained and certified in the proper installation of HVAC systems.
702.2 Special inspectors employed to provide compliance with this code shall be qualified and/or certified in the discipline they are inspecting.
703.1 Documentation shall be provided showing compliance with the mandatory measures for this code.

Heating, Ventilation and Air Conditioning Design Note
Heating and Air Conditioning System Design is in accordance with 2022 California Green Building Standards, Section 4.507.2. Note: 1) Duct system is sized in accordance with ACCA Manual J Load Calculations and Manual D Duct Sizing based upon maximum airflow requirement for cooling CFM. 2) Duct has been oversized one duct size (i.e. 7" to 8") but not undersized. Oversizing reduces air velocity, therefore, the mechanical contractor is to install manual volume dampers as specified in Title-24 Energy Compliance Document Form CF-1R. 3) CFM distribution noted on plans represent the air flow requirements for the noted orientation. 4) Ducts can be oversized in oversized duct in order to adjust air flow and maintain balance in the duct system. 5) Heating and cooling equipment is sized in accordance with ACCA Manual S based upon building loads calculated in accordance with ACCA Manual J. 6) Contractor to verify SEER, EER, Duct R-value and testing requirements as specified in Title-24 Energy Compliance Document Form CF-1R.

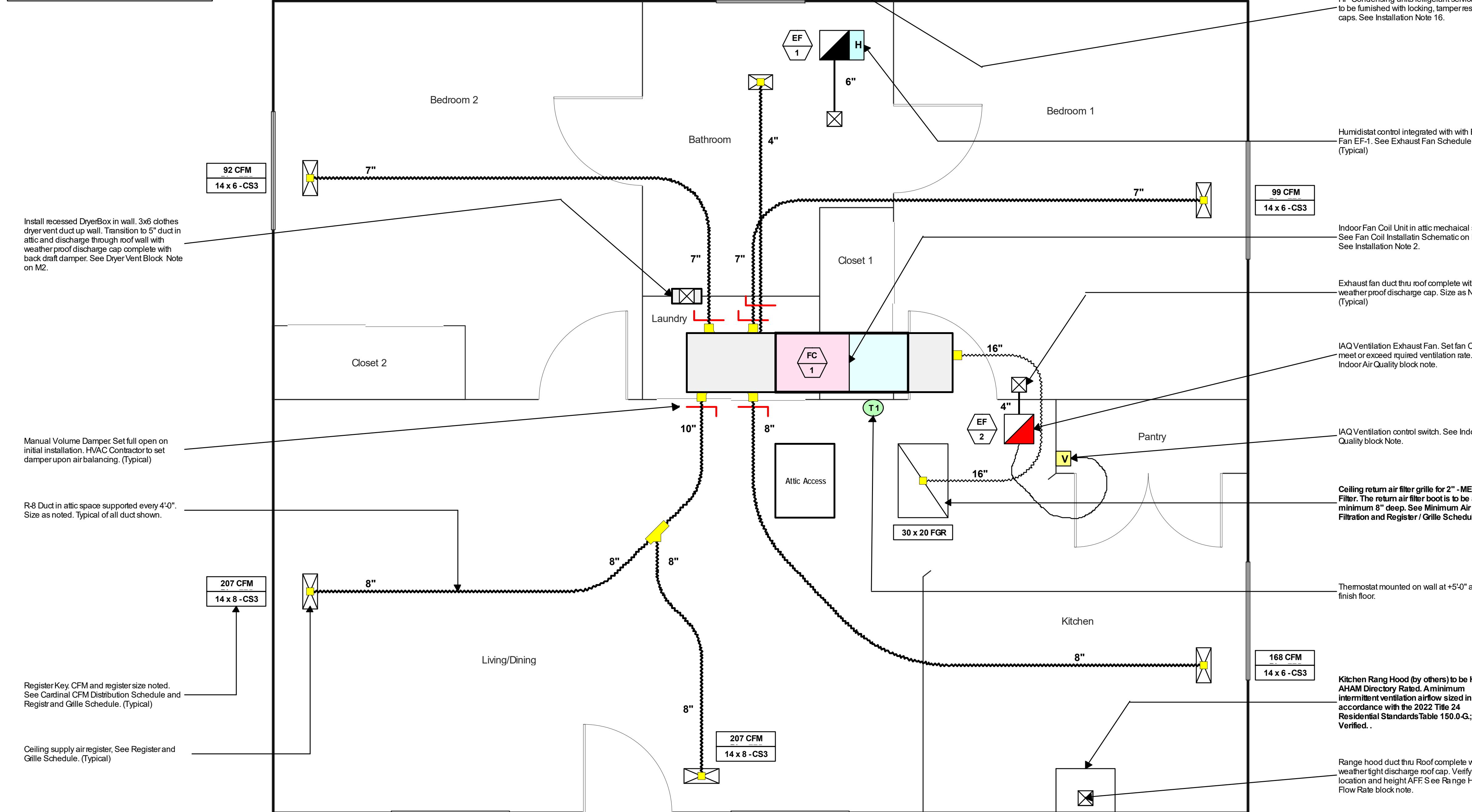
Wright's Universal, Version 24.0.01
Energy and HVAC Consulting Services

Mar. 17, 2024

DISCLAIMER:
BY USING THESE STANDARD PLANS, THE USER AGREES TO RELEASE THE CITY OF HANFORD FROM ANY AND ALL LIABILITY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY, INCLUDING INJURY OR DEATH, OR ECONOMIC LOSSES, ARISING OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS. THE USE OF THESE PLANS DOES NOT ELIMINATE OR REDUCE THE USER'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION.

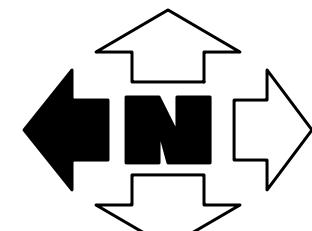


PROJECT TITLE	CITY OF HANFORD – PRE-REVIEWED ADU PROGRAM		
AGENCY	SJW REAP	DATE	04/22/2024
SHEET DESCRIPTION		HVAC PLAN	
ADU SQFT	908	DRAWING SCALE	1/2" = 1'
CITY OF HANFORD BUILDING DIVISION APPROVED			
THE SHEET PLANS AND SPECIFICATIONS MAKE UP THE CONTRACT DOCUMENTS AND NO CHANGES OR ALTERATIONS SHALL BE MADE EXCEPT BY THE BUILDING DIVISION.			
THE STAMPING OF THIS PLAN AND SPECIFICATION SHALL NOT BE HELD TO BE AN APPROVAL OF THE BUILDING DIVISION OR THE CITY OF HANFORD TO CONSTRUCT ANY ORDINANCE OR STATE LAW. IT IS REVIEWED FOR CODE COMPLIANCE.			
BY: Mitchell Couch 12/11/2025			



HVAC Floor Plan

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



DISCLAIMER:
BY USING THESE STANDARD PLANS, THE USER AGREES TO
RELEASE THE CITY OF HANFORD FROM ANY AND ALL CLAIMS,
LIABILITIES, SUITS AND DEMANDS ON ACCOUNT OF ANY
INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY,
OR ECONOMIC LOSSES, ARISING
OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS. THE
USE OF THESE PLANS DOES NOT ELIMINATE OR REDUCE THE
USER'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION.



REVISIONS

—

—

—

—

—

—

—

—

—

—

—

—

—

—

—

—

—

—

—

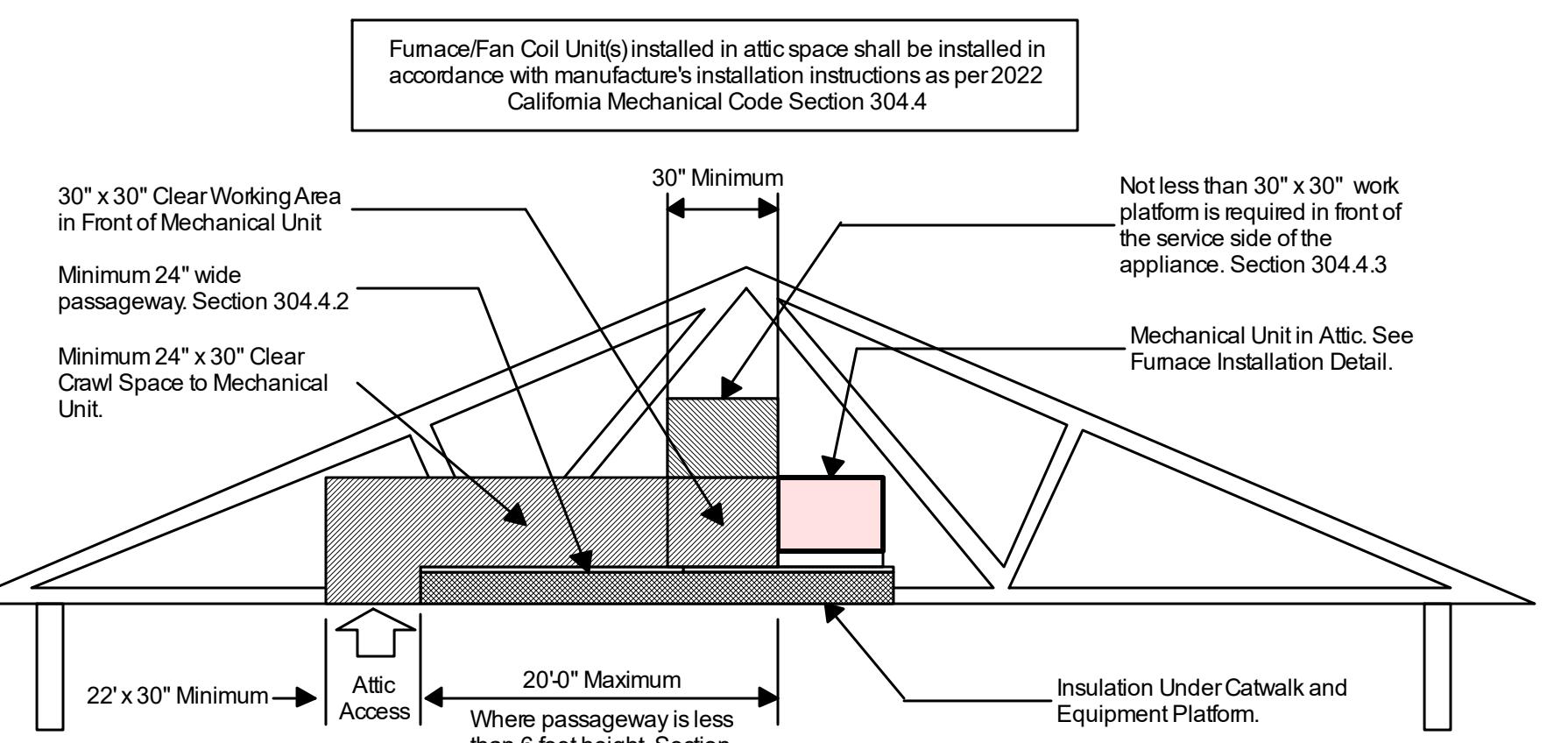
—

—

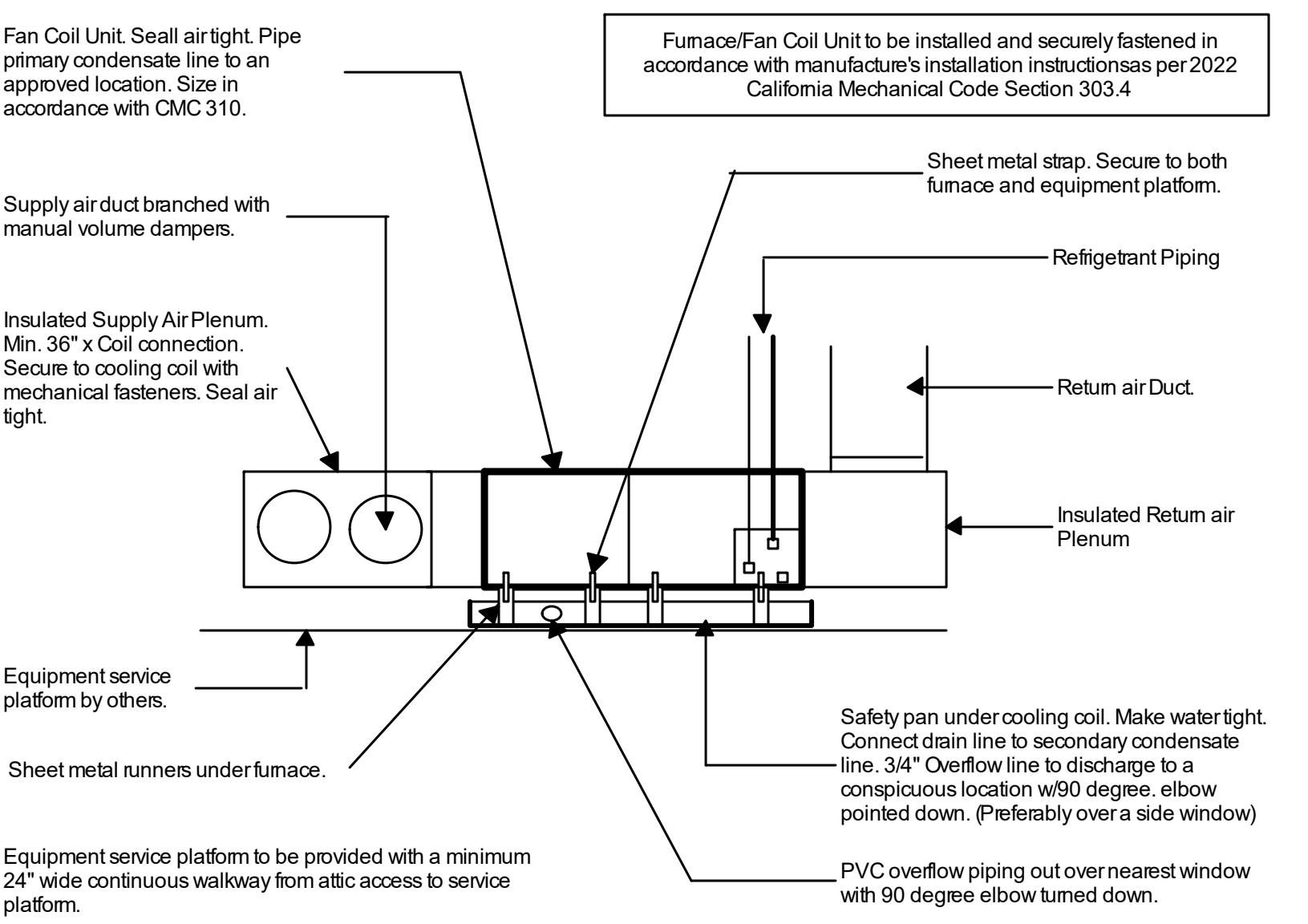
—

—

—



Minimum Attic Equipment Access Requirements



These plans and documents have been reviewed for compliance with the applicable codes requirements of the jurisdiction. The stamping of these plans shall not be held to permit or be an approval of any violation of applicable codes and standards nor relieve the owner, design professional of record or contractor of compliance with applicable codes and standards

ROD CARSEY CONSULTING & PLAN CHECK SERVICE

Kitchen Range Hood Air Flow Rates		
Table 150.0.G Kitchen Range Hood Airflow Rates (cfm) and AS TME 308.7 Capture Efficiency (CE) Ratings According to Dwelling Unit Floor Area and Kitchen Range Fuel. The Energy Code requires verification that range hoods are HVI or AHAM-certified to provide at least one speed setting at which they can deliver at least 100 CFM at a noise level of 3 sones or less type		
Dwelling Unit Floor Area (SqFt)	Hood Over Electric Range	Hood Over Natural Gas Range
>1500	50% CE or 110 cfm	70% CE or 180 cfm
>1000 - 1500	50% CE or 110 cfm	80% CE or 250 cfm
750 - 1000	55% CE or 130 cfm	85% CE or 280 cfm
<750	65% CE or 160 cfm	85% CE or 280 cfm

Plan 908						
CFM Distribution Schedule						
Room Name	House Facing			Max	Min	Average
	North	East	South	West	Max	Min
Ground Floor Zone						
Living Room	414	330	394	336	414	330
Kitchen	168	197	168	186	197	168
Bedroom 1	99	129	96	117	129	96
Bathroom	27	27	35	27	35	27
Bedroom 2	92	117	107	134	134	92
Total CFM	800	800	800	800	909	713

Air Balancing Notes: 1) CFM delivery allocations is based upon ACCA Manual J room-by-room heat gain/heat loss calculations. 2) Depending upon homeowner lifestyle and space usage, air balancing requirements may vary. 3) Air Balance to within +/- 15% of stated air flow. 4) After air balancing to the above, it is the homeowners responsibility to fine tune air flows to individual requirements.



Register Boot Installation

Heating and Cooling Equipment Schedule											
Outdoor Heat Pump Unit											
Mark	Mfr	Model Number	Nom. Tons	Cooling MBH		Heating MBH		Electrical		WT LBS	
				Total	Sens.	47degF	17degF	Volts/Ph	MCA	MOP	
HP-1	Goodman	GSZH5024	2.0	23.2	18.4	22.8	13.6	208/230-1	15.3	25	193

Fan Coil Unit w/Electric Heat											
Mark	Mfr	Model Number	CFM	ESP		Electrical Single Circuit		WT LBS		Remarks	
				In. W.C.	Type	Load	Volts/Ph	MCA	MOP		
FC-1	Goodman	AMST30BU	800	0.7	HP	3/4	208/230-1	5.6/5.6	15/15	129	R-410A w/TXV

AHRI Certificate											
Electric Heat Pack Installed											
Mark	Certificate No.	SEER2	EER2	HSPF2	Mark	Mfr	Model Number	KW	AMPS	MCA	MOP
HP/FC-1	208509795	15.2	12.5	7.8	FC-1	Goodman	HKS*05XC	5	17.3/20	2730.6	30/35

Register and Grille Schedule											
Mark	Mfr	Model	Service	Type	Pattern	Size	CFM	Electrical			
								Watts	CFM/Watts	Volts	Ph
CS2	Shoemaker	202	Supply	Ceiling	2-Way	As Noted	As Noted				
CS3	Shoemaker	203	Supply	Ceiling	3-Way	As Noted	As Noted				
CS4	Shoemaker	204	Supply	Ceiling	4-Way	As Noted	As Noted				
SW	Shoemaker	950	Supply	Sidewall	Spread	As Noted	As Noted				
FGR	Shoemaker	935FG2	Return	Ceiling/Sidewall	Bar Faced	As Noted	-				
CR/CTG	Shoemaker	1050	Return	Ceiling/Sidewall	Bar Faced	As Noted	-				

Scheduled registers and grilles are for reference only and can be substituted with "or equal".

Clothes Dryer Venting Note											
The stamping of this plan and specifications shall not be held to permit or to an approval of the building or structure or any changes or alterations shall be made except by the building division.											
The stamping of this plan and specifications shall not be held to permit or to an approval of the building or structure or any changes or alterations shall be made except by the building division.											

<tbl_r cells="1"

DISCLAIMER: BY USING THESE STANDARD PLANS, THE USER AGREES TO RELEASE THE CITY OF HANFORD FROM ANY AND ALL LIABILITY, SUITS AND DEMANDS ON ACCOUNT OF ANY INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY, ARISING OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS. THE USE OF THESE PLANS DOES NOT ELIMINATE OR REDUCE THE USER'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION.



REVISIONS

PROJECT TITLE	CITY OF HANFORD – PRE-REVIEWED ADU PROGRAM
AGENCY	DATE
SJ/V REAP	10/24/2024
SHEET DESCRIPTION	ENERGY COMPLIANCE

908

DRAWING SCALE

1/2" = 1'

CITY OF HANFORD BUILDING DIVISION APPROVED

THE DRAWING PLANS AND SPECIFICATIONS MADE A PART OF THIS DOCUMENT ARE FOR THE USE OF THE CITY OF HANFORD AND NO CHANGES OR ALTERATIONS SHALL BE MADE EXCEPT BY THE BUILDING DIVISION.

THE STAMPING OF THIS PLAN AND SPECIFICATIONS SHALL NOT BE MADE UNLESS THE DRAWING HAS BEEN APPROVED BY THE BUILDING DIVISION AND THE DRAWING HAS BEEN REVIEWED BY THE CITY OF HANFORD.

BY: *Michael Coach*
12/11/2025

<p>CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Hanford Plan 908 ADU Calculation Date/Time: 2024-10-23T16:34:47-07:00 Input File Name: Precision Engineering_Hanford Plan 908 ADU.rbd22x (Page 1 of 13)</p>		<p>C1R-PRF-01-E Project Name: Hanford Plan 908 ADU Calculation Date/Time: 2024-10-23T16:34:47-07:00 Input File Name: Precision Engineering_Hanford Plan 908 ADU.rbd22x (Page 2 of 13)</p>		<p>C1R-PRF-01-E Project Name: Hanford Plan 908 ADU Calculation Date/Time: 2024-10-23T16:34:47-07:00 Input File Name: Precision Engineering_Hanford Plan 908 ADU.rbd22x (Page 3 of 13)</p>		<p>C1R-PRF-01-E Project Name: Hanford Plan 908 ADU Calculation Date/Time: 2024-10-23T16:34:47-07:00 Input File Name: Precision Engineering_Hanford Plan 908 ADU.rbd22x (Page 4 of 13)</p>																																																																																																																																																																																																																																																																																																																													
<p>GENERAL INFORMATION</p> <table border="1"> <tr> <td>01</td><td>Project Name</td><td colspan="5">Hanford Plan 908 ADU</td></tr> <tr> <td>02</td><td>Run Type</td><td colspan="5">Title 24 Analysis</td></tr> <tr> <td>03</td><td>Project Location</td><td colspan="5">Various Locations</td></tr> <tr> <td>04</td><td>City</td><td colspan="5">Hanford</td></tr> <tr> <td>05</td><td>Zip Code</td><td colspan="5">93638</td></tr> <tr> <td>06</td><td>Building Type</td><td colspan="5">Single Family</td></tr> <tr> <td>07</td><td>Climate Zone</td><td colspan="5">1A</td></tr> <tr> <td>08</td><td>Building Scope</td><td colspan="5">Newly Constructed</td></tr> <tr> <td>09</td><td>Number of Dwelling Units</td><td colspan="5">1</td></tr> <tr> <td>10</td><td>Number of Bedrooms</td><td colspan="5">2</td></tr> <tr> <td>11</td><td>Number of Stories</td><td colspan="5">1</td></tr> <tr> <td>12</td><td>Additional Cond. Floor Area (ft²)</td><td colspan="5">15</td></tr> <tr> <td>13</td><td>Existing Cond. Floor Area (ft²)</td><td colspan="5">17</td></tr> <tr> <td>14</td><td>Total Cond. Floor Area (ft²)</td><td colspan="5">19</td></tr> <tr> <td>15</td><td>Glazing Percentage (%)</td><td colspan="5">14%</td></tr> <tr> <td>16</td><td>Fenestration Average U-factor</td><td colspan="5">0.3</td></tr> <tr> <td>17</td><td>ADU Bedding Count</td><td colspan="5">21</td></tr> <tr> <td>18</td><td>ADU Condensed Floor Area</td><td colspan="5">n/a</td></tr> <tr> <td>19</td><td>Net Dwelling Units</td><td colspan="5">23</td></tr> <tr> <td>20</td><td>Fuel Type</td><td colspan="5">Natural gas</td></tr> <tr> <td>21</td><td>Gas Type</td><td colspan="5">n/a</td></tr> </table> <p>COMPLIANCE RESULTS</p> <table border="1"> <tr> <td>01</td><td>Building Complies with Computer Performance</td><td colspan="5">Yes</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><td colspan="5">No</td></tr> <tr> <td>03</td><td>This building incorporates one or more Special Features shown below</td><td colspan="5">No</td></tr> </table>		01	Project Name	Hanford Plan 908 ADU					02	Run Type	Title 24 Analysis					03	Project Location	Various Locations					04	City	Hanford					05	Zip Code	93638					06	Building Type	Single Family					07	Climate Zone	1A					08	Building Scope	Newly Constructed					09	Number of Dwelling Units	1					10	Number of Bedrooms	2					11	Number of Stories	1					12	Additional Cond. Floor Area (ft ²)	15					13	Existing Cond. Floor Area (ft ²)	17					14	Total Cond. Floor Area (ft ²)	19					15	Glazing Percentage (%)	14%					16	Fenestration Average U-factor	0.3					17	ADU Bedding Count	21					18	ADU Condensed Floor Area	n/a					19	Net Dwelling Units	23					20	Fuel Type	Natural gas					21	Gas Type	n/a					01	Building Complies with Computer Performance	Yes					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.	No					03	This building incorporates one or more Special Features shown below	No					<p>ENERGY DESIGN RATINGS</p> <table border="1"> <thead> <tr> <th rowspan="2">Energy Use</th> <th colspan="2">Energy Design Ratings</th> <th colspan="2">Compliance Margins</th> <th rowspan="2">Compliance Margin (%)</th> <th rowspan="2">Compliance Margin (EDR)</th> </tr> <tr> <th>Source Energy (EDR)</th> <th>Efficiency¹ EDR (EDR²Efficiency)</th> <th>Total³ EDR</th> <th>Source Energy (EDR)</th> <th>Efficiency¹ EDR (EDR²Efficiency)</th> <th>Total³ EDR (EDR)</th> </tr> </thead> <tbody> <tr> <td>Standard Design</td> <td>49.7</td> <td>45.4</td> <td>33.8</td> <td>Proposed Design</td> <td>49.7</td> <td>45.4</td> </tr> <tr> <td>North Facing</td> <td>47.9</td> <td>44.8</td> <td>33.4</td> <td>1.8</td> <td>0.6</td> <td>0.4</td> </tr> <tr> <td>East Facing</td> <td>47.7</td> <td>43.7</td> <td>32.7</td> <td>2</td> <td>1.7</td> <td>1.1</td> </tr> <tr> <td>South Facing</td> <td>47.6</td> <td>43.8</td> <td>32.8</td> <td>2.1</td> <td>1.6</td> <td>1</td> </tr> <tr> <td>West Facing</td> <td>47.7</td> <td>44.6</td> <td>33.3</td> <td>2</td> <td>0.8</td> <td>0.5</td> </tr> </tbody> </table> <p>RESULTS⁴ - PASS</p> <p>¹Efficiency EDR includes improvements like a better building envelope and more efficient equipment ²Total EDR includes efficiency and demand response measures such as photovoltaic (PV) system and batteries ³Building complies with source energy efficiency and total compliance margins are greater than zero and unmet load hour limits are not exceeded</p>		Energy Use	Energy Design Ratings		Compliance Margins		Compliance Margin (%)	Compliance Margin (EDR)	Source Energy (EDR)	Efficiency ¹ EDR (EDR ² Efficiency)	Total ³ EDR	Source Energy (EDR)	Efficiency ¹ EDR (EDR ² Efficiency)	Total ³ EDR (EDR)	Standard Design	49.7	45.4	33.8	Proposed Design	49.7	45.4	North Facing	47.9	44.8	33.4	1.8	0.6	0.4	East Facing	47.7	43.7	32.7	2	1.7	1.1	South Facing	47.6	43.8	32.8	2.1	1.6	1	West Facing	47.7	44.6	33.3	2	0.8	0.5	<p>ENERGY USE SUMMARY</p> <table border="1"> <thead> <tr> <th>Energy Use</th> <th>Standard Design Source Energy (EDR) (kBtu/ft²-yr)</th> <th>Standard Design TVD Energy (EDR) (kBtu/ft²-yr)</th> <th>Proposed Design Source Energy (EDR) (kBtu/ft²-yr)</th> <th>Proposed Design TVD Energy (EDR) (kBtu/ft²-yr)</th> <th>Compliance Margin (%)</th> <th>Compliance Margin (EDR)</th> </tr> </thead> <tbody> <tr> <td>Space Heating</td> <td>1.53</td> <td>11.38</td> <td>1.54</td> <td>11.62</td> <td>-0.01</td> <td>-0.24</td> </tr> <tr> <td>Space Cooling</td> <td>2.32</td> <td>46.7</td> <td>2.35</td> <td>48.67</td> <td>-0.03</td> <td>-1.97</td> </tr> <tr> <td>IAQ Ventilation</td> <td>0.42</td> <td>4.47</td> <td>0.42</td> <td>4.47</td> <td>0</td> <td>0</td> </tr> <tr> <td>Water Heating</td> <td>8.55</td> <td>35.92</td> <td>7.67</td> <td>32.37</td> <td>0.88</td> <td>3.55</td> </tr> <tr> <td>Self Utilization/Resiliency Credit</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>South Facing Efficiency Compliance Total</td> <td>12.82</td> <td>98.47</td> <td>11.98</td> <td>97.13</td> <td>0.84</td> <td>1.34</td> </tr> <tr> <td>Space Heating</td> <td>1.53</td> <td>11.38</td> <td>1.52</td> <td>11.26</td> <td>0.01</td> <td>0.12</td> </tr> <tr> <td>Space Cooling</td> <td>2.32</td> <td>46.7</td> <td>2.3</td> <td>46.72</td> <td>0.02</td> <td>-0.02</td> </tr> <tr> <td>IAQ Ventilation</td> <td>0.42</td> <td>4.47</td> <td>0.42</td> <td>4.47</td> <td>0</td> <td>0</td> </tr> <tr> <td>Water Heating</td> <td>8.55</td> <td>35.92</td> <td>7.67</td> <td>32.37</td> <td>0.88</td> <td>3.55</td> </tr> <tr> <td>Self Utilization/Resiliency Credit</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>East Facing Efficiency Compliance Total</td> <td>12.82</td> <td>98.47</td> <td>11.91</td> <td>94.82</td> <td>0.91</td> <td>1.63</td> </tr> </tbody> </table>		Energy Use	Standard Design Source Energy (EDR) (kBtu/ft ² -yr)	Standard Design TVD Energy (EDR) (kBtu/ft ² -yr)	Proposed Design Source Energy (EDR) (kBtu/ft ² -yr)	Proposed Design TVD Energy (EDR) (kBtu/ft ² -yr)	Compliance Margin (%)	Compliance Margin (EDR)	Space Heating	1.53	11.38	1.54	11.62	-0.01	-0.24	Space Cooling	2.32	46.7	2.35	48.67	-0.03	-1.97	IAQ Ventilation	0.42	4.47	0.42	4.47	0	0	Water Heating	8.55	35.92	7.67	32.37	0.88	3.55	Self Utilization/Resiliency Credit		0	0	0	0	0	South Facing Efficiency Compliance Total	12.82	98.47	11.98	97.13	0.84	1.34	Space Heating	1.53	11.38	1.52	11.26	0.01	0.12	Space Cooling	2.32	46.7	2.3	46.72	0.02	-0.02	IAQ Ventilation	0.42	4.47	0.42	4.47	0	0	Water Heating	8.55	35.92	7.67	32.37	0.88	3.55	Self Utilization/Resiliency Credit		0	0	0	0	0	East Facing Efficiency Compliance Total	12.82	98.47	11.91	94.82	0.91	1.63	<p>ENERGY USE</p> <table border="1"> <tr> <td>Registration Number: 424-P01259909A-000-000-000000-0000</td> <td>Registration Date/Time: 10/24/2024 13:48</td> <td>HERS Provider: CHEERS</td> </tr> <tr> <td>NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (CHEERS) using information submitted by third parties not affiliated with or related to CHEERS. Therefore, CHEERS is not responsible for, and cannot guarantee, the accuracy or completeness of the information contained in this document.</td> <td></td> <td></td> </tr> <tr> <td>Report Version: 2022.0.000</td> <td>Report Generated: 2024-10-23 16:35:17</td> <td>Schema Version: rev 2020901</td> </tr> </table>		Registration Number: 424-P01259909A-000-000-000000-0000	Registration Date/Time: 10/24/2024 13:48	HERS Provider: CHEERS	NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (CHEERS) using information submitted by third parties not affiliated with or related to CHEERS. Therefore, CHEERS is not responsible for, and cannot guarantee, the accuracy or completeness of the information contained in this document.			Report Version: 2022.0.000	Report Generated: 2024-10-23 16:35:17	Schema Version: rev 2020901
01	Project Name	Hanford Plan 908 ADU																																																																																																																																																																																																																																																																																																																																	
02	Run Type	Title 24 Analysis																																																																																																																																																																																																																																																																																																																																	
03	Project Location	Various Locations																																																																																																																																																																																																																																																																																																																																	
04	City	Hanford																																																																																																																																																																																																																																																																																																																																	
05	Zip Code	93638																																																																																																																																																																																																																																																																																																																																	
06	Building Type	Single Family																																																																																																																																																																																																																																																																																																																																	
07	Climate Zone	1A																																																																																																																																																																																																																																																																																																																																	
08	Building Scope	Newly Constructed																																																																																																																																																																																																																																																																																																																																	
09	Number of Dwelling Units	1																																																																																																																																																																																																																																																																																																																																	
10	Number of Bedrooms	2																																																																																																																																																																																																																																																																																																																																	
11	Number of Stories	1																																																																																																																																																																																																																																																																																																																																	
12	Additional Cond. Floor Area (ft ²)	15																																																																																																																																																																																																																																																																																																																																	
13	Existing Cond. Floor Area (ft ²)	17																																																																																																																																																																																																																																																																																																																																	
14	Total Cond. Floor Area (ft ²)	19																																																																																																																																																																																																																																																																																																																																	
15	Glazing Percentage (%)	14%																																																																																																																																																																																																																																																																																																																																	
16	Fenestration Average U-factor	0.3																																																																																																																																																																																																																																																																																																																																	
17	ADU Bedding Count	21																																																																																																																																																																																																																																																																																																																																	
18	ADU Condensed Floor Area	n/a																																																																																																																																																																																																																																																																																																																																	
19	Net Dwelling Units	23																																																																																																																																																																																																																																																																																																																																	
20	Fuel Type	Natural gas																																																																																																																																																																																																																																																																																																																																	
21	Gas Type	n/a																																																																																																																																																																																																																																																																																																																																	
01	Building Complies with Computer Performance	Yes																																																																																																																																																																																																																																																																																																																																	
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.	No																																																																																																																																																																																																																																																																																																																																	
03	This building incorporates one or more Special Features shown below	No																																																																																																																																																																																																																																																																																																																																	
Energy Use	Energy Design Ratings		Compliance Margins		Compliance Margin (%)	Compliance Margin (EDR)																																																																																																																																																																																																																																																																																																																													
	Source Energy (EDR)	Efficiency ¹ EDR (EDR ² Efficiency)	Total ³ EDR	Source Energy (EDR)			Efficiency ¹ EDR (EDR ² Efficiency)	Total ³ EDR (EDR)																																																																																																																																																																																																																																																																																																																											
Standard Design	49.7	45.4	33.8	Proposed Design	49.7	45.4																																																																																																																																																																																																																																																																																																																													
North Facing	47.9	44.8	33.4	1.8	0.6	0.4																																																																																																																																																																																																																																																																																																																													
East Facing	47.7	43.7	32.7	2	1.7	1.1																																																																																																																																																																																																																																																																																																																													
South Facing	47.6	43.8	32.8	2.1	1.6	1																																																																																																																																																																																																																																																																																																																													
West Facing	47.7	44.6	33.3	2	0.8	0.5																																																																																																																																																																																																																																																																																																																													
Energy Use	Standard Design Source Energy (EDR) (kBtu/ft ² -yr)	Standard Design TVD Energy (EDR) (kBtu/ft ² -yr)	Proposed Design Source Energy (EDR) (kBtu/ft ² -yr)	Proposed Design TVD Energy (EDR) (kBtu/ft ² -yr)	Compliance Margin (%)	Compliance Margin (EDR)																																																																																																																																																																																																																																																																																																																													
Space Heating	1.53	11.38	1.54	11.62	-0.01	-0.24																																																																																																																																																																																																																																																																																																																													
Space Cooling	2.32	46.7	2.35	48.67	-0.03	-1.97																																																																																																																																																																																																																																																																																																																													
IAQ Ventilation	0.42	4.47	0.42	4.47	0	0																																																																																																																																																																																																																																																																																																																													
Water Heating	8.55	35.92	7.67	32.37	0.88	3.55																																																																																																																																																																																																																																																																																																																													
Self Utilization/Resiliency Credit		0	0	0	0	0																																																																																																																																																																																																																																																																																																																													
South Facing Efficiency Compliance Total	12.82	98.47	11.98	97.13	0.84	1.34																																																																																																																																																																																																																																																																																																																													
Space Heating	1.53	11.38	1.52	11.26	0.01	0.12																																																																																																																																																																																																																																																																																																																													
Space Cooling	2.32	46.7	2.3	46.72	0.02	-0.02																																																																																																																																																																																																																																																																																																																													
IAQ Ventilation	0.42	4.47	0.42	4.47	0	0																																																																																																																																																																																																																																																																																																																													
Water Heating	8.55	35.92	7.67	32.37	0.88	3.55																																																																																																																																																																																																																																																																																																																													
Self Utilization/Resiliency Credit		0	0	0	0	0																																																																																																																																																																																																																																																																																																																													
East Facing Efficiency Compliance Total	12.82	98.47	11.91	94.82	0.91	1.63																																																																																																																																																																																																																																																																																																																													
Registration Number: 424-P01259909A-000-000-000000-0000	Registration Date/Time: 10/24/2024 13:48	HERS Provider: CHEERS																																																																																																																																																																																																																																																																																																																																	
NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (CHEERS) using information submitted by third parties not affiliated with or related to CHEERS. Therefore, CHEERS is not responsible for, and cannot guarantee, the accuracy or completeness of the information contained in this document.																																																																																																																																																																																																																																																																																																																																			
Report Version: 2022.0.000	Report Generated: 2024-10-23 16:35:17	Schema Version: rev 2020901																																																																																																																																																																																																																																																																																																																																	
<p>CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Hanford Plan 908 ADU Calculation Date/Time: 2024-10-23T16:34:47-07:00 Input File Name: Precision Engineering_Hanford Plan 908 ADU.rbd22x (Page 5 of 13)</p>		<p>C1R-PRF-01-E Project Name: Hanford Plan 908 ADU Calculation Date/Time: 2024-10-23T16:34:47-07:00 Input File Name: Precision Engineering_Hanford Plan 908 ADU.rbd22x (Page 6 of 13)</p>		<p>C1R-PRF-01-E Project Name: Hanford Plan 908 ADU Calculation Date/Time: 2024-10-23T16:34:47-07:00 Input File Name: Precision Engineering_Hanford Plan 908 ADU.rbd22x (Page 7 of 13)</p>		<p>C1R-PRF-01-E Project Name: Hanford Plan 908 ADU Calculation Date/Time: 2024-10-23T16:34:47-07:00 Input File Name: Precision Engineering_Hanford Plan 908 ADU.rbd22x (Page 8 of 13)</p>																																																																																																																																																																																																																																																																																																																													
<p>ENERGY USE INTENSITY</p> <table border="1"> <thead> <tr> <th></th> <th>Standard Design (kBtu/ft²-yr)</th> <th>Proposed Design (kBtu/ft²-yr)</th> <th>Compliance Margin (kBtu/ft²-yr)</th> <th>Margin Percentage</th> </tr> </thead> <tbody> <tr> <td>North Facing</td> <td>29.77</td> <td>29.03</td> <td>0.74</td> <td>2.49</td> </tr> <tr> <td>East Facing</td> <td>29.77</td> <td>28.95</td> <td>0.84</td> <td>2.82</td> </tr> <tr> <td>South Facing</td> <td>29.77</td> <td>28.95</td> <td>0.82</td> <td>2.75</td> </tr> <tr> <td>West Facing</td> <td>29.77</td> <td>28.98</td> <td>0.79</td> <td>2.65</td> </tr> </tbody> </table> <p>NOTES</p> <p>1. Total EDR (Energy Use Total) (not including PV) / Total Building Area. 2. Net EDR (Energy Use Total (including PV) / Total Building Area.</p>			Standard Design (kBtu/ft ² -yr)	Proposed Design (kBtu/ft ² -yr)	Compliance Margin (kBtu/ft ² -yr)	Margin Percentage	North Facing	29.77	29.03	0.74	2.49	East Facing	29.77	28.95	0.84	2.82	South Facing	29.77	28.95	0.82	2.75	West Facing	29.77	28.98	0.79	2.65	<p>REQUIRED PV SYSTEMS</p> <table border="1"> <thead> <tr> <th>01</th> <th>02</th> <th>03</th> <th>04</th> <th>05</th> <th>06</th> <th>07</th> <th>08</th> <th>09</th> <th>10</th> <th>11</th> <th>12</th> </tr> </thead> <tbody> <tr> <td>DC System Size (kWdc)</td> <td>NA</td> <td>Exception</td> <td>Module Type</td> <td>Array Type</td> <td>Power Electronics</td> <td>CPI</td> <td>Azimuth (deg)</td> <td>Tilt (deg)</td> <td>Array Angle (deg)</td> <td>Eff. (in %)</td> <td>Inverter EDR (kWdc)</td> <td>Annual Solar (kWh)</td> </tr> <tr> <td>Net EDR¹</td> <td>15.04</td> <td>NA</td> <td>Standard (14-17%)</td> <td>Fixed</td> <td>none</td> <td>true</td> <td>150-270</td> <td>n/a</td> <td>n/a</td> <td><7.32</td> <td>96</td> <td>98</td> </tr> </tbody> </table> <p>REQUIRED SPECIAL FEATURES</p> <p>The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.</p> <ul style="list-style-type: none"> Insulation below roof deck Window weatherstripping/fins <p>RESOURCES</p> <p>The following is a summary of the features that must be field-verified as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered C2Rs and C3Rs are required to be completed in the HERS Registry.</p> <ul style="list-style-type: none"> Quality insulation installation (20) Indoor air quality ventilation Kitchen range hood Attic insulation Verified EER/EER² Verified SEER/SEER² Verified AFUE/AFUE² Verified PSC/PSC² Verified RHPD/RHPD² Verified HPS/HPS² Verified heat pump rated heating capacity Other features <p>BUILDING FEATURES INFORMATION</p> <table border="1"> <thead> <tr> <th>01</th> <th>02</th> <th>03</th> <th>04</th> <th>05</th> <th>06</th> <th>07</th> </tr> <tr> <td>Project Name</td> <td>Conditioned Floor Area (ft²)</td> <td>Number of Dwelling Units</td> <td>Number of Bedrooms</td> <td>Number of Zones</td> <td>Number of Ventilation Cooling Units</td> <td>Number of Water Heating Systems</td> </tr> </thead> <tbody> <tr> <td>Hanford Plan 908 ADU</td> <td>908</td> <td>1</td> <td>2</td> <td>1</td> <td>0</td> <td>1</td> </tr> </tbody> </table> <p>NOTES</p> <p>Registration Number: 424-P01259909A-000-000-000000-0000</p> <p>NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (CHEERS) using information submitted by third parties not affiliated with or related to CHEERS. Therefore, CHEERS is not responsible for, and cannot guarantee, the accuracy or completeness of the information contained in this document.</p> <p>Report Version: 2022.0.000</p> <p>Report Generated: 2024-10-23 16:35:17</p> <p>Schema Version: rev 2020901</p>		01	02	03	04	05	06	07	08	09	10	11	12	DC System Size (kWdc)	NA	Exception	Module Type	Array Type	Power Electronics	CPI	Azimuth (deg)	Tilt (deg)	Array Angle (deg)	Eff. (in %)	Inverter EDR (kWdc)	Annual Solar (kWh)	Net EDR ¹	15.04	NA	Standard (14-17%)	Fixed	none	true	150-270	n/a	n/a	<7.32	96	98	01	02	03	04	05	06	07	Project Name	Conditioned Floor Area (ft ²)	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Units	Number of Water Heating Systems	Hanford Plan 908 ADU	908	1	2	1	0	1	<p>CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Hanford Plan 908 ADU Calculation Date/Time: 2024-10-23T16:34:47-07:00 Input File Name: Precision Engineering_Hanford Plan 908 ADU.rbd22x (Page 9 of 13)</p>		<p>C1R-PRF-01-E Project Name: Hanford Plan 908 ADU Calculation Date/Time: 2024-10-23T16:34:47-07:00 Input File Name: Precision Engineering_Hanford Plan 908 ADU.rbd22x (Page 10 of 13)</p>		<p>C1R-PRF-01-E Project Name: Hanford Plan 908 ADU Calculation Date/Time: 2024-10-23T16:34:47-07:00 Input File Name: Precision Engineering_Hanford Plan 908 ADU.rbd22x (Page 11 of 13)</p>		<p>C1R-PRF-01-E Project Name: Hanford Plan 908 ADU Calculation Date/Time: 2024-10-23T16:34:47-07:00 Input File Name: Precision Engineering_Hanford Plan 908 ADU.rbd22x (Page 12 of 13)</p>																																																																																																																																																																																																																																					
	Standard Design (kBtu/ft ² -yr)	Proposed Design (kBtu/ft ² -yr)	Compliance Margin (kBtu/ft ² -yr)	Margin Percentage																																																																																																																																																																																																																																																																																																																															
North Facing	29.77	29.03	0.74	2.49																																																																																																																																																																																																																																																																																																																															
East Facing	29.77	28.95	0.84	2.82																																																																																																																																																																																																																																																																																																																															
South Facing	29.77	28.95	0.82	2.75																																																																																																																																																																																																																																																																																																																															
West Facing	29.77	28.98	0.79	2.65																																																																																																																																																																																																																																																																																																																															
01	02	03	04	05	06	07	08	09	10	11	12																																																																																																																																																																																																																																																																																																																								
DC System Size (kWdc)	NA	Exception	Module Type	Array Type	Power Electronics	CPI	Azimuth (deg)	Tilt (deg)	Array Angle (deg)	Eff. (in %)	Inverter EDR (kWdc)	Annual Solar (kWh)																																																																																																																																																																																																																																																																																																																							
Net EDR ¹	15.04	NA	Standard (14-17%)	Fixed	none	true	150-270	n/a	n/a	<7.32	96	98																																																																																																																																																																																																																																																																																																																							
01	02	03	04	05	06	07																																																																																																																																																																																																																																																																																																																													
Project Name	Conditioned Floor Area (ft ²)	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Units	Number of Water Heating Systems																																																																																																																																																																																																																																																																																																																													
Hanford Plan 908 ADU	908	1	2	1	0	1																																																																																																																																																																																																																																																																																																																													
<p>WATER HEATING SYSTEMS</p> <table border="1"> <thead> <tr> <th>01</th> <th>02</th> <th>03</th> <th>04</th> <th>05</th> <th>06</th> <th>07</th> <th>08</th> <th>09</th> <th>10</th> <th>11</th> <th>12</th> <th>13</th> </tr> <tr> <td>Name</td> <td>System Type</td> <td>Distribution Type</td> <td>Water Heater Name</td> <td>Number of Units</td> <td>Solar Heating</td> <td>Compact</td> <td>Water Heater</td> <td>Efficiency</td> <td>SEER</td> <td>CFR</td> <td>CFR</td> <td>CFR</td> </tr> </thead> <tbody> <tr> <td>DHW Sys 1</td> <td>Domestic Hot Water (DHW)</td> <td>Standard</td> <td>DHW Heater 1</td> <td>1</td> <td>n/a</td> <td>n/a</td> <td>DHW Heater 1</td> <td>n/a</td> <td>n/a</td> <td>n/a</td> <td>n/a</td> <td>n/a</td> </tr> </tbody> </table> <p>WATER HEATERS</p> <table border="1"> <thead> <tr> <th>01</th> <th>02</th> <th>03</th> <th>04</th> <th>05</th> <th>06</th> <th>07</th> <th>08</th> <th>09</th> <th>10</th> <th>11</th> <th>12</th> <th>13</th> </tr> <tr> <td>Name</td> <td>Heating Element</td> <td>Tank Type</td> <td># of Units</td> <td>Tank Vol. (ft³)</td> <td>Efficiency</td> <td>Rated Input (kW)</td> <td>Input Raising or Flat</td> <td>Tank Insulation or Recovery</td> <td>CFR</td> <td>SEER</td> <td>CFR</td> <td>CFR</td> </tr> </thead> <tbody> <tr> <td>Attic Roof/Whole House</td> <td>Attic Roofs</td> <td>Wood Framed Ceiling</td> <td>2x4 @ 24 in. O. C.</td> <td>R-13</td> <td>None / O</td> <td>n/a</td> <td>n/a</td> <td>n/a</td> <td>n/a</td> <td>n/a</td> <td>n/a</td> <td>n/a</td> </tr> <tr> <td>R38 Attic + R13 Roof</td> <td>Ceilings (below attic)</td> <td>Wood Framed Ceiling</td> <td>2x4 @ 24 in. O. C.</td> <td>R-38</td> <td>None / None</td> <td>0.025</td> <td>n/a</td> <td>n/a</td> <td>n/a</td> <td>n/a</td> <td>n/a</td> <td>n/a</td> </tr> <tr> <td>R21 Attic + R13 Ceiling</td> <td>Wood Framed Ceiling</td> <td>2x4 @ 24 in. O. C.</td> <td>R-21</td> <td>None / None</td> <td>0.044</td> <td>n/a</td> <td>n/a</td> <td>n/a</td> <td>n/a</td> <td>n/a</td> <td>n/a</td> <td>n/a</td> </tr> </tbody> </table> <p>BUILDING ENVELOPE - HERS VERIFICATION</p> <table border="1"> <thead> <tr> <th>01</th> <th>02</th> <th>03</th> <th>04</th> <th>05</th> <th>06</th> <th>07</th> </tr> <tr> <td>Quality Insulation Installation (QI)</td> <td>High-R Value Spray Foam Insulation</td> <td>Building Envelope Air Leakage</td> <td>CFMS00</td> <td>CFMS00</td> <td>n/a</td> <td>n/a</td> </tr> </thead> <tbody> <tr> <td>Required</td> <td>Not Required</td> <td>n/a</td> <td>n/a</td> <td>n/a</td> <td>n/a</td> <td>n/a</td> </tr> </tbody> </table> <p>NOTES</p> <p>Registration Number: 424-P01259909A-000-000-000000-0000</p> <p>NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (CHEERS) using information submitted by third parties not affiliated with or related to CHEERS. Therefore, CHEERS is not responsible for, and cannot guarantee, the accuracy or completeness of the information contained in this document.</p> <p>Report Version: 2022.0.000</p> <p>Report Generated: 2024-10-23 16:35:17</p> <p>Schema Version: rev 2020901</p>		01	02	03	04	05	06	07	08	09	10	11	12	13	Name	System Type	Distribution Type	Water Heater Name	Number of Units	Solar Heating	Compact	Water Heater	Efficiency	SEER	CFR	CFR	CFR	DHW Sys 1	Domestic Hot Water (DHW)	Standard	DHW Heater 1	1	n/a	n/a	DHW Heater 1	n/a	n/a	n/a	n/a	n/a	01	02	03	04	05	06	07	08	09	10	11	12	13	Name	Heating Element	Tank Type	# of Units	Tank Vol. (ft ³)	Efficiency	Rated Input (kW)	Input Raising or Flat	Tank Insulation or Recovery	CFR	SEER	CFR	CFR	Attic Roof/Whole House	Attic Roofs	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-13	None / O	n/a	n/a	n/a	n/a	n/a	n/a	n/a	R38 Attic + R13 Roof	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-38	None / None	0.025	n/a	n/a	n/a	n/a	n/a	n/a	R21 Attic + R13 Ceiling	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-21	None / None	0.044	n/a	n/a	n/a	n/a	n/a	n/a	n/a	01	02	03	04	05	06	07	Quality Insulation Installation (QI)	High-R Value Spray Foam Insulation	Building Envelope Air Leakage	CFMS00	CFMS00	n/a	n/a	Required	Not Required	n/a	n/a	n/a	n/a	n/a	<p>CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Hanford Plan 908 ADU Calculation Date/Time: 2024-10-23T16:34:47-07:00 Input File Name: Precision Engineering_Hanford Plan 908 ADU.rbd22x<br</p>																																																																																																																																																																																																				
01	02	03	04	05	06	07	08	09	10	11	12	13																																																																																																																																																																																																																																																																																																																							
Name	System Type	Distribution Type	Water Heater Name	Number of Units	Solar Heating	Compact	Water Heater	Efficiency	SEER	CFR	CFR	CFR																																																																																																																																																																																																																																																																																																																							
DHW Sys 1	Domestic Hot Water (DHW)	Standard	DHW Heater 1	1	n/a	n/a	DHW Heater 1	n/a	n/a	n/a	n/a	n/a																																																																																																																																																																																																																																																																																																																							
01	02	03	04	05	06	07	08	09	10	11	12	13																																																																																																																																																																																																																																																																																																																							
Name	Heating Element	Tank Type	# of Units	Tank Vol. (ft ³)	Efficiency	Rated Input (kW)	Input Raising or Flat	Tank Insulation or Recovery	CFR	SEER	CFR	CFR																																																																																																																																																																																																																																																																																																																							
Attic Roof/Whole House	Attic Roofs	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-13	None / O	n/a	n/a	n/a	n/a	n/a	n/a	n/a																																																																																																																																																																																																																																																																																																																							
R38 Attic + R13 Roof	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-38	None / None	0.025	n/a	n/a	n/a	n/a	n/a	n/a																																																																																																																																																																																																																																																																																																																							
R21 Attic + R13 Ceiling	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-21	None / None	0.044	n/a	n/a	n/a	n/a	n/a	n/a	n/a																																																																																																																																																																																																																																																																																																																							
01	02	03	04	05	06	07																																																																																																																																																																																																																																																																																																																													
Quality Insulation Installation (QI)	High-R Value Spray Foam Insulation	Building Envelope Air Leakage	CFMS00	CFMS00	n/a	n/a																																																																																																																																																																																																																																																																																																																													
Required	Not Required	n/a	n/a	n/a	n/a	n/a																																																																																																																																																																																																																																																																																																																													