

ACCESSORY DWELLING UNIT - 2 BEDROOM

PROJECT DATA:

PROJECT:
OWNER: _____
ADDRESS: _____
APN NUMBER: _____
STORIES: 1
FIRE SPRINKLERS: YES/NO
SQUARE FOOTAGE: 746 SQ. FT.
TYPE OF CONSTRUCTION: V-B
OCCUPANCY GROUP: R-3
ZONING : _____
CLIMATE ZONE: 3
EXPOSURE CATEGORY: B
SEISMIC DESIGN CATEGORY (D₀, D₁, D₂)

APPLICABLE BUILDING CODES:

2022 CALIFORNIA BUILDING CODE (CBC)
2022 CALIFORNIA RESIDENTIAL CODE (CRC)
2022 CALIFORNIA PLUMBING CODE (CPC)
2022 CALIFORNIA MECHANICAL CODE (CMC)
2022 CALIFORNIA ELECTRIC CODE (CEC)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC)
2022 CALIFORNIA ENERGY CODE
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
2022 CALIFORNIA FIRE CODE
OAKLAND MUNICIPAL CODE TITLES 15 AND 17

GENERAL NOTES

1. The Contractor shall provide adequate stays and bracing of all framing until all elements of design have been incorporated in the project.
2. Contractor shall field verify all dimensions prior to commencing with new work.
3. Work under this permit does not require Special Inspection or structural observation.
4. If applicable fire walls should be provided and shall comply with section R302.
5. Location of HVAC subject to field inspection.
6. HERS Verification required for the HVAC Cooling, HVAC Distribution, & HVAC Fan Systems per T24 Energy Calculation Documentation. Provide completed CalCerts or CHEERS Project Summary Report (PSR) as evidence of Third Party Verification (HERS) to Building Inspector prior to final inspection.

SITE PLAN NOTES AND REQUIREMENTS

- **Applicant shall provide a site plan for property showing the location of the proposed ADU.**
- Location of the ADU shall comply with all setback and Fire Separation Distance requirements of OMC Titles 15 and 17
- Site plan shall be drawn to scale. Site Slope shall not exceed 10%.
- Plans are based on 5' minimum Fire Separation Distance.

SHEET INDEX:

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A0.2	GENERAL NOTES
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PLANNING STAMP

BUILDING STAMP

CALIFORNIA MECHANICAL CODE NOTES

EXHAUST SYSTEMS

- 1. Exhaust ducts shall terminate outside the building and be equipped with back draft dampers. (CMC Section 504.1.1)
- 2. Kitchen range ventilation ducts shall be metal with smooth interior surfaces. (CMC Section 504.3)
- 3. The clothes dryer shall be exhausted using approved 4" Ø min ducting. The ducting shall not exceed 14' with a maximum of 2-90° elbows, unless permitted by manufacturer instructions and the local jurisdiction. (CMC Section 504.4)
- 4. No HVAC or water heater vents shall terminate less than 4'-0" below or to the side, or less than 1'-0" above any door or operable window. (CMC Section 802.8.1)

VENTILATION (Per CMC Section 402 & ASHRAE 62.2)

- 5. Kitchen - 100 cfm (On Demand), 1 SONE, 5" Ø min duct
- 6. Bathroom - 50 cfm (On Demand), 1 SONE, 4" Ø min duct
- Whole House - Per plans
- Indoor Air Quality Fan - Per plans

APPLIANCES

- 7. Appliances installed in attics shall be accessible through an opening and passageway at least as large as the largest component of the appliance and not less than 22" X 30" with minimum 30" headroom clearance. The appliance shall be located within 20' of the passageway access when attic has less than 6' headroom. Passageway shall be unobstructed and shall have solid flooring not less than 24" wide from the entrance to the appliance. A permanent 120- volt receptacle outlet and lighting fixture shall be located at the entrance to the passageway. (CMC 304.4, CPC 509.4)

CALIFORNIA RESIDENTIAL CODE NOTES

WINDOWS

- 1. All new or replaced windows shall be dual glazed with low-E glass. Do not remove NFRC stickers from glazing prior to approved inspection. Bedroom windows shall have a minimum net clear escape opening of 5.7 SF with a minimum net clear opening height of 24" and minimum net clear opening width of 20". The window opening bottom edge shall not be more than 44" above the floor. (CRC Section R310)
- 2. The Contractor shall provide safety glazing for all conditions deemed a "hazardous location" per CRC Section R308.4.

BATHROOMS

- 3. Wall finishes at shower/ bathtub enclosures shall consist of a non- absorbent surface and extend up to six feet above finish floor per CRC R307.2. "Green Board" is not acceptable in shower/ bathtub enclosures. Acceptable tile based materials at shower/ bathtub enclosures include fiber cement, fiber mat reinforced concrete, glass mat gypsum backers, or fiber reinforced gypsum backers. (CRC Section R702.4.2)
- 4. Aging-In-Place and Fall Protection - Grab bar reinforcement, electrical receptacle outlet, switch and control heights, interior door sies, and doorbell buttons per CRC R327.

CALIFORNIA ENERGY CODE NOTES

NEW CONSTRUCTION

- 1. Mandatory measures of section 150 shall apply only to and/or within the specific area of the addition or alteration. (Energy Code Section 150.2) MANDATORY MEASURES (Energy Code Sections 110 & 150)
- 2. MANDATORY REQUIREMENTS TO LIMIT AIR LEAKAGE (Energy Code Section 110.7) - All joist penetrations, and other openings in the building envelope that are potential source for air leakage shall be caulked, gasketed, weather-stripped or otherwise sealed to limit infiltration & exfiltration.
- 3. PHOTOVOLTAIC REQUIREMENTS
All low-rise residential buildings shall have a photovoltaic (PV) system meeting the minimum requirements as specified in Joint Appendix JA11, with annual electrical output equal to or greater than the dwelling's annual electrical usage as determined by Equation 150.1-C
- 4. PIPE INSULATION - (Energy Code Section 150 (j)) Hot water pipe insulation shall have a minimum wall thickness of not less than the diameter of the pipe for a pipe up to 2" diameter. Insulate all pipes used to circulate hot water to kitchen fixtures, to a storage tank or between storage tanks. Insulate the first 5' of piping from the water heater.
- 5. LIGHTING - (Energy Code Section 150 (k))
 - a. Efficacy - All installed luminaries shall be high-efficacy in accordance w/Table 150.0- A
 - b. Recessed downlight luminaries in ceilings - All assemblies shall be IC rated, AT rated, sealed, and comply w/ Joint Appendix JA8. Recessed assemblies shall not contain screw base sockets.
 - c. Interior lighting, Switching Devices & Controls - Dimmers or vacancy sensors shall control all luminaries required to have a light source compliant w/ Joint Appendix JA8. (Closets less than 70sf & hallways do not require dimmers or vacancy sensors). At least one luminaire in a bathrooms, garages, laundry rooms, and utility rooms shall be controlled by an occupant or vacancy sensor.
 - d. Residential Outdoor Lighting - All fixtures shall be controlled by either photocell & motion sensor, photocontrol & automatic time switch, astronomical time clock, or EMCS.
- 6. HVAC - See Title 24 Energy Calculation Documentation
- 7. VENTILATION - (Energy Code Section 150 (o)) All dwelling units shall meet th requirements of ASHRAE 62.2 SEE CALIFORNIA MECHANICAL CODE NOTES.
- 8. All Newly Constructed Buildings are subject to the All-Electric provisions of OMC 15.37.

CALGREEN CODE NOTES

MANDATORY MEASURES (CALGREEN CH 4)

- 1. INDOOR WATER USE - (CALGreen Section 4.303) All new plumbing fixtures, or fixtures part of an addition or alteration shall comply with the following mandatory allowable flow rates.

FIXTURE TYPE	MANDATORY FLOW RATE FOR NEW "WATER CONSERVING" FIXTURES
SHOWERHEADS	1.8 GPM @ 80 PSI
LAVATORY FAUCETS	1.2 GPM @ 60 PSI
KITCHEN FAUCETS	1.8 GPM @ 60 PPSI
GRAVITY TANK TYPE WATER CLOSETS	1.28 GAL/ FLUSH

- A. When single shower fixtures are served by more than one shower-head, the combined flow rate of all the showerheads shall not exceed the maximum flow rates specified.
- 3. ENHANCED DURABILITY AND REDUCED MAINTENANCE - (CALGreen 4.406) Annular spaces around pipes, electric cables, conduits or other openings in plates at exterior walls, shall be protected against the passage of rodents by closing such opening with cement mortar, concrete masonry or similar method acceptable to the building official.
- 4. POLLUTANT CONTROL - (CAL Green Section 4.504) 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 approved method to reduce the amount of water, dust and debris, which may enter the system.
- 5. INTERIOR MOISTURE CONTROL - (CALGreen Section 4.505) Building materials with visible signs of moisture damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19 percent moisture content per CALGreen Section 4.505.3. Insulation products which are visibly wet or have a high moisture content shall be replaced or allowed to dry prior to enclosure in wall or floor cavities. Wet- applied insulation products shall follow the manufacturer's drying recommendations prior to enclosure. Concrete slab foundations required to have a vapor retarder and capillary break.
- 6. INDOOR AIR QUALITY - (CALGreen Section 4.506) Each bathroom shall be mechanically ventilated with ENERGY STAR compliant fan. The fan shall be controlled by a humidity control and ducted outside the building. The humidity control shall be capable of adjustment between a relative humidity range of 50 to 80 percent. A humidity control may utilized manual or automatic means of adjustment. A humidity control may be a separate components to the exhaust fan and is not required to be integral.
- 7. ENVIRONMENTAL COMFORT - (CALGreen Section 4.507) Perform residential load calculations using ANSI/ACCA 2 Manual J approved methods or software. Size ducting in accordance with ANSI/ACCA 1 Manual D. Select cooling equipment according to ANSI/ACCA 3 Manual S.

GENERAL NOTES

OWNER'S NAME:

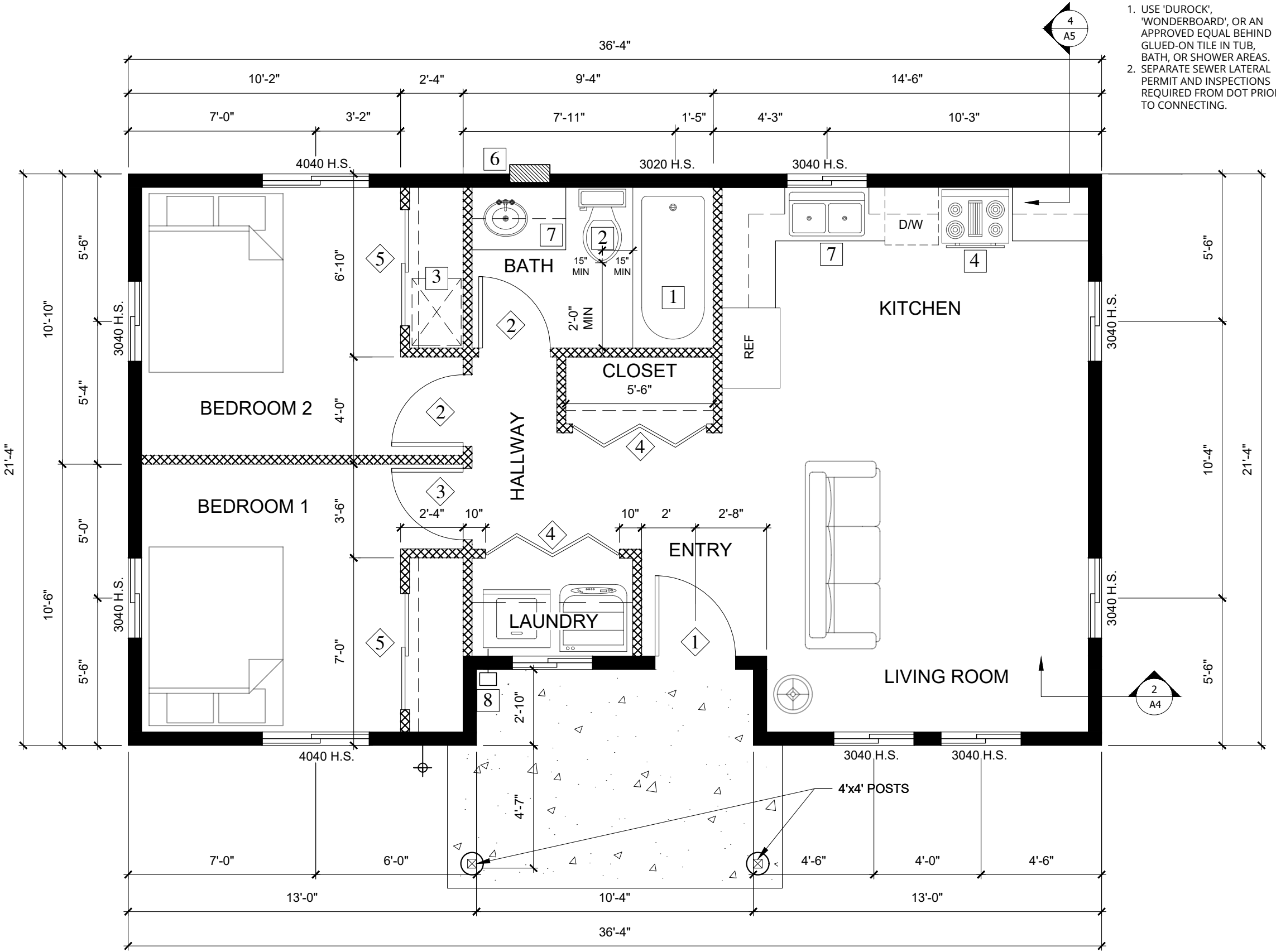
PROJECT ADDRESS:

SHEET:

FLOOR PLAN

SCALE 1/4" = 1'-0"

WALL LEGEND	
<div></div>	2X6 WOOD STUDS @16" O.C.
<div></div>	2X4 WOOD STUDS @16" O.C.



- SHEET NOTES
1. USE 'DUROCK', 'WONDERBOARD', OR AN APPROVED EQUAL BEHIND GLUED-ON TILE IN TUB, BATH, OR SHOWER AREAS.
 2. SEPARATE SEWER LATERAL PERMIT AND INSPECTIONS REQUIRED FROM DOT PRIOR TO CONNECTING.

CALIFORNIA PLUMBING CODE NOTES

1. Provide a back flow prevention device at all hose bibs and water supply lines. (CPC 603.3)
2. Showers and shower/ tub combinations shall have individual control valves of the pressure balance, thermostatic or combination pressure balance/thermostatic mixing valve type. Provide temperature regulation to limit hot water temperature to 120°F. The water heater thermostat shall not be considered appropriate means. (CPC 408.3)
3. No Domestic dishwashing machine shall be directly connected to a drainage system or food waste disposer without the use of an approved dishwasher air gap fitting on the discharge side of the dishwashing machine. Listed air gaps shall be installed with the flood-level (FL) making at or above the flood level of the sink or drainboard, whichever is higher. (CPC 807.3)
4. Water closet stool shall be located minimum 15" from its center to any side wall or obstruction (minimum 30" clear space in width) and have a clear space in front of the water closet stool not less than 24". (CPC 402.5)

DOOR AND FRAME SCHEDULE

SYMBOL	SIZE			
	WD	HGT	THK	STYLE
1	3'-0"	6'-8"	1 3/4"	L.H.
2	2'-8"	6'-8"	1 3/8"	L.H.
3	3'-0"	6'-8"	1 3/8"	R.H
4	5'-0"	6'-8"	1 3/8"	BIFOLD
5	5'-0"	6'-8"	1 3/8"	SLIDER

- NOTE:
- (1) ALL HEADERS AT EXTERIOR DOOR AND WINDOW OPENINGS SHALL BE 4X8 D.F. #2 MIN.
 - (2) WINDOWS IN BEDROOMS THAT ARE A PART OF EMERGENCY EGRESS ESCAPE RESCUE OPENING REQUIREMENTS SHALL HAVE A SILL HEIGHT NO MORE THAN 44" ABOVE FINISHED FLOOR.
 - (3) ALL WINDOWS SHALL HAVE A MAX. WINDOW HEIGHT OF 84"

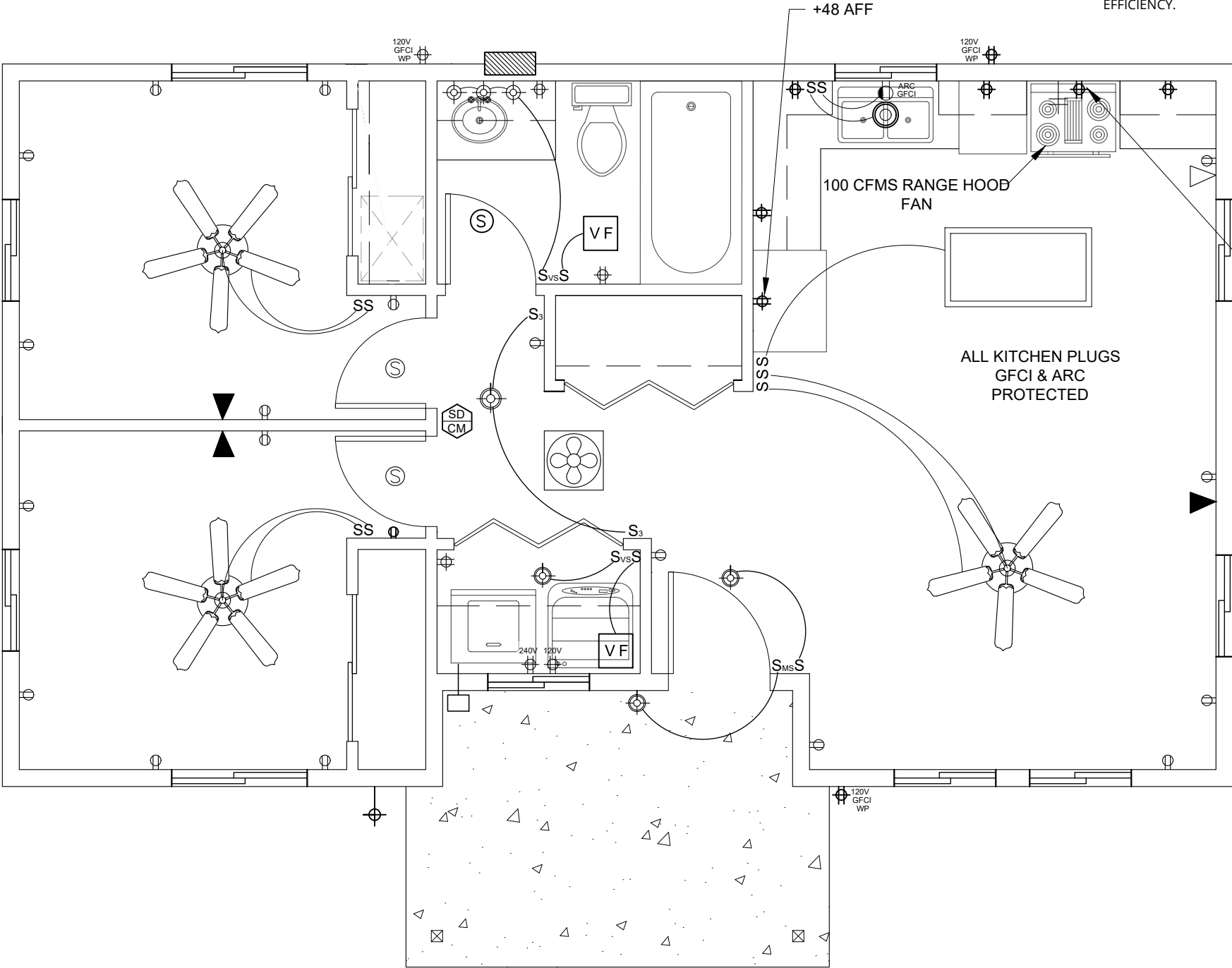
FLOOR PLAN LEGEND

1	72" X 36" TUB/SHOWER UNIT SHOWER HEAD 1.8 GPM
2	TOILET 1.28 GPM
3	22"X30" ATTIC ACCESS PANEL
4	RANGE/OVEN W/ HOOD ABOVE
5	NOT USED
6	EXTERIOR WATER HEATER
7	LAVATORIES 1.2 GPM
8	EXHAUST FOR DRYER

FLOOR PLAN

ELECTRICAL PLAN

SCALE 1/4" = 1'-0"



GENERAL NOTES
1. ALL HVAC EQUIPMENT AND WATER HEATERS TO COMPLY WITH APPROVED ENERGY CALCULATIONS FOR TYPE AND EFFICIENCY.

PROVIDE (1) GFCI & AFCI PROTECTED RECEPTACLE OUTLET FOR RANGE & DISHWASHER AND (1) AFCI PROTECTED RECEPTACLE OUTLET FOR EXHAUST FAN

PROVIDE LIGHTING NEAR THE VICINITY OF MAIN SERVICE PANEL

APPLIANCE EFFICIENCY DIRECTORY 1 SONE REQUIREMENT

CALIFORNIA ELECTRICAL CODE NOTES

GROUNDING

1. Provide UFER ground located at main service panel per CEC Article 250.50.

CIRCUITS

2. Provide two minimum separate amp circuit to kitchen appliances. (CEC Article 220.52 (A)).
3. Provide one minimum 20 amp circuit to laundry appliances. (CEC Article 220.52 (B)).
4. At least one bathroom receptacle outlet supplied by at least one 20-amp branch circuit shall be located within 3' of the at the basin edge. Such circuits shall have no other outlets. (CEC Article 210.52 (D))
5. The following receptacles shall be GFCI protected (CEC Article 210.8):
a. Bathrooms
b. Garages
c. Outdoors
d. Kitchens- where the receptacles are installed to serve the countertop
e. Within 6' of sink basins
f. Laundry Rooms
6. All branch circuits that supply 120-volt, single phase, and 15 and 20 amp outlets installed in dwelling unit bedrooms, family rooms, living rooms, dens, closets, and hallways shall be protected by a listed arc-fault circuit interrupter. (CEC Article 210.12)

RECEPTACLES

7. Receptacle outlets shall be installed so that no point along the floor line in any wall space is more than 6 feet measured horizontally, from an outlet in that space, including any wall space 2 feet more in width. (CEC Article 210-52(A))
8. All 120-volt, 15 and 20 amp receptacles shall be listed tamper resistant. (CEC Article 406.12)
9. Clothes closet light fixtures shall be listed and installed in accordance with their listing (CEC Article 410.16)
10. At least one 120-volt weather-proof receptacle should be located at the front & back at no more than 6.5' above grade. (CEC Article 210.52(E)(1)-(E)(3)).

LIGHTING

11. See CALIFORNIA ENERGY CODE NOTES

FIRE PROTECTION REQUIREMENTS

1. Install combination smoke detector/ carbon monoxide alarms in dwelling units and sleeping units within which fuel-burning appliances are installed and in dwelling units that have attached garages. Alarms shall be interconnected such that activation of one alarm will activate all alarms within the unit.(CRC Section R315.2)

MISCELLANEOUS

2. Ceiling fans shall not be supported by standard outlet boxes. Ceiling fan support boxes shall be listed accordingly. (CEC Article 314.27 (C))
3. Provide a minimum 30" wide by 36" deep by 6 1/2' high illuminated clear working area shall be provided in front of each panel (CEC Article 110.26).

ELECTRICAL KEY

	CEILING FAN WITH HIGH EFFICACY LIGHT FIXTURE		2' X 4' LED PANEL
S	SINGLE WALL SWITCH		RECESSED LIGHT / BULB OR EXTERIOR LIGHT
S _{VS}	WALL SWITCH WITH VACANCY SENSOR		HIGH EFFICACY LIGHTING. IF OUTDOORS OR ABOVE A SHOWER/TUB IT MUST BE LISTED FOR WET OR DAMP LOCATIONS.
S _{MS}	WALL SWITCH EQUIPPED WITH A MOTION SENSOR AND PHOTOCONTROL		WHOLE HOUSE FAN MIN. 1119 CFMS
S ₂	TWO-WAY SWITCH		VENT FAN (MIN 50 CFM EQUIPT WITH HUMIDISTAT & ENERGY STAR COMPLIANT)
	TELEPHONE JACK		SWITCH CONTROLLED RECEPTACLE OUTLET
	TELEVISION JACK		110V DUPLEX RECEPTACLE OUTLET (ARC FAULT PROTECTED)
	GAS		110V DUPLEX OUTLET ABOVE COUNTER HT. (GFCI & ARC FAULT PROTECTED)
	HOSE BIB (LOCATE IN FIELD) PROTECTED BY A BACKFLOW PREVENTION DEVICE		120V DUPLEX OUTLET ABOVE GRADE (WP & GFCI PROTECTED)
	COMBO UNIT SMOKE & CO2		SMOKE DETECTORS (CARBON MONOXIDE DETECTOR NOTED)

NOTE: ALL RECEPTACLE OUTLETS SHALL BE TAMPER RESISTANT

ELECTRICAL PLAN

OWNER'S NAME:
PROJECT ADDRESS:

SHEET:

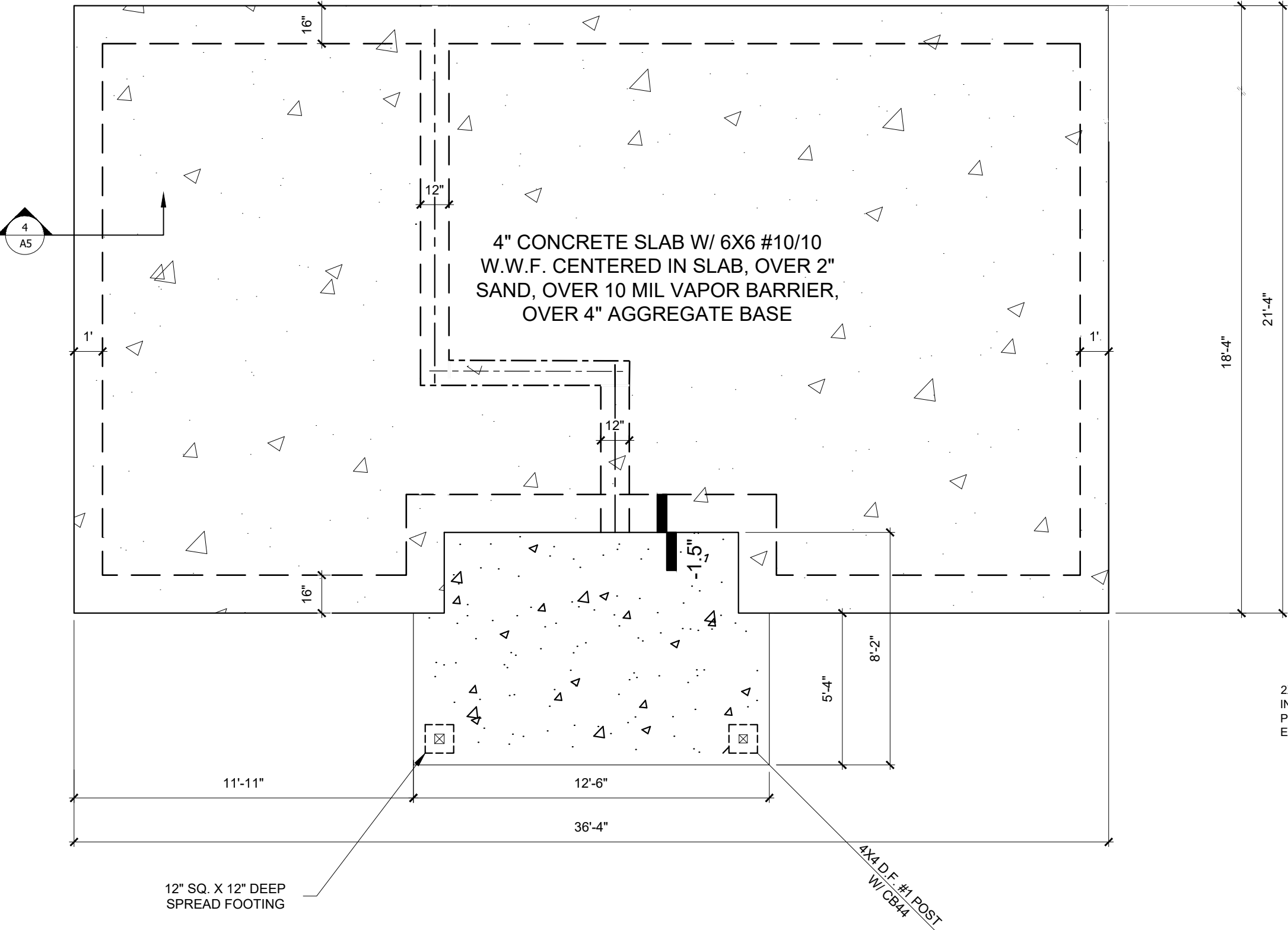
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FOUNDATION PLAN

OWNER'S NAME: _____
PROJECT ADDRESS: _____

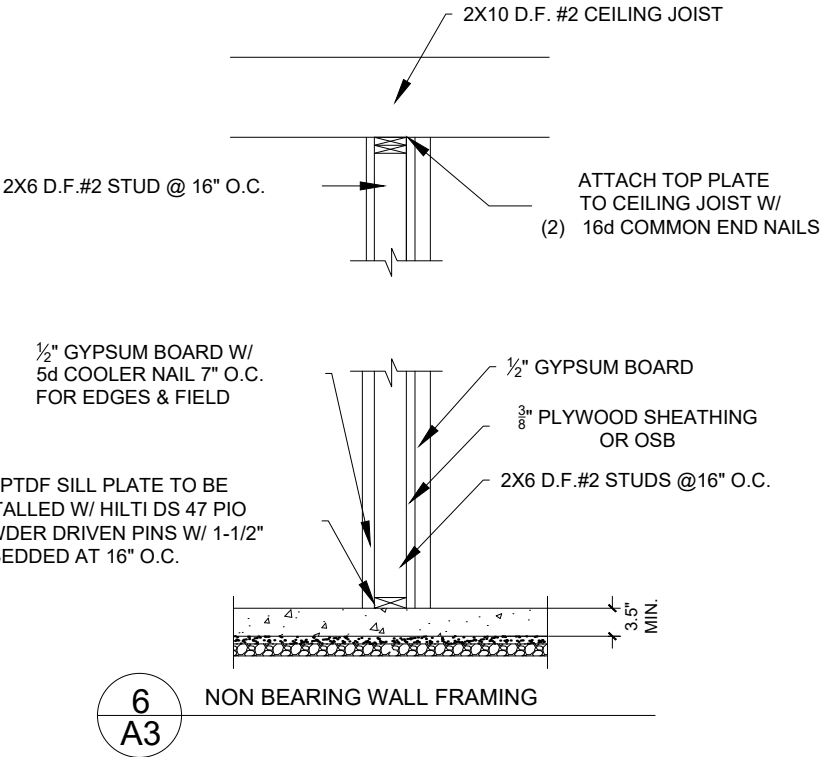
SHEET:

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FOUNDATION NOTES:

CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS. (R402.2)

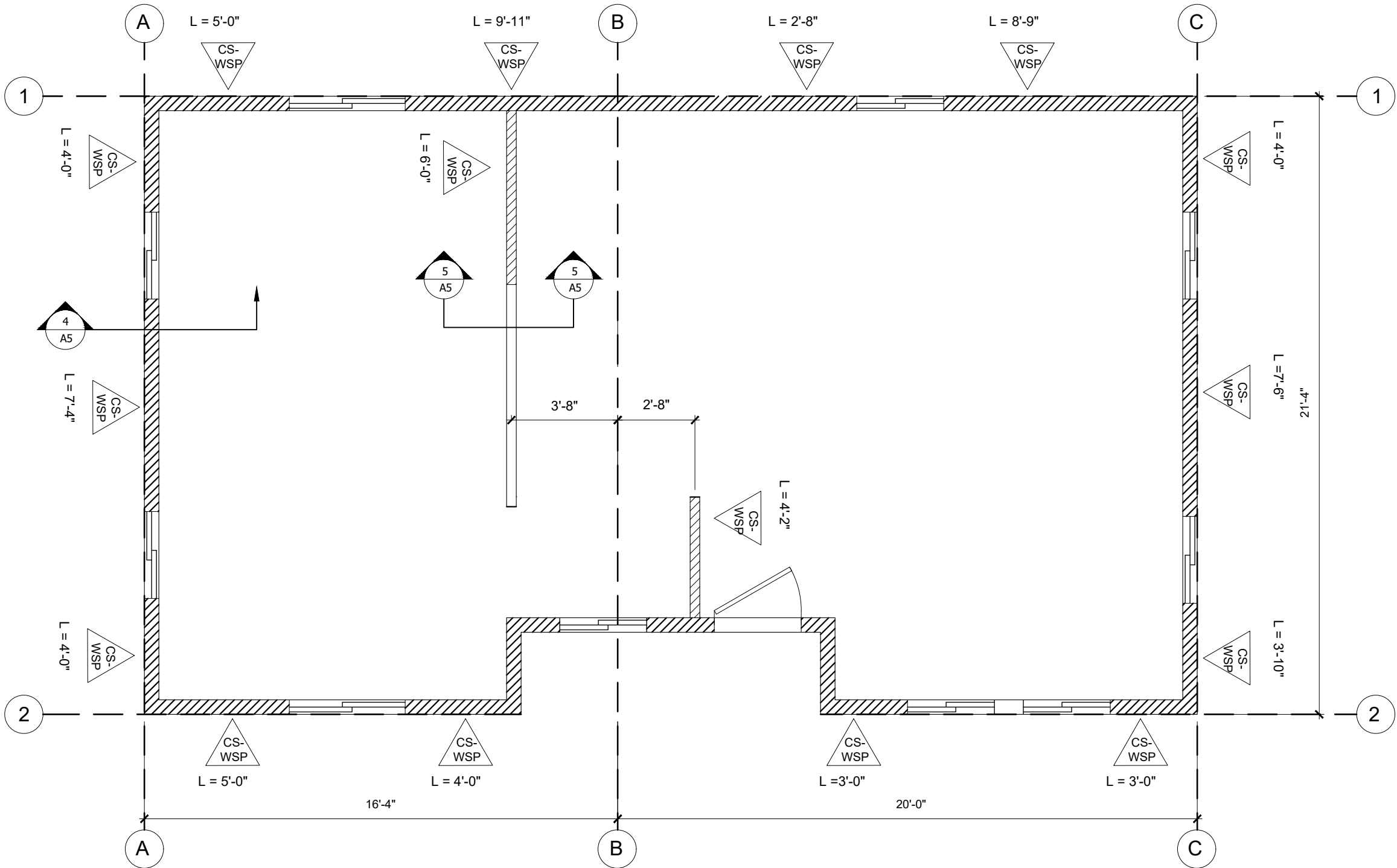


FOUNDATION PLAN

SCALE 1/4" = 1'-0"

BRACED WALL PANEL SCHEDULE								
BWL	METHOD	MATERIAL & THICKNESS	MIN. BWL LENGTH	BWL SPACING	WALL HEIGHT	ADJUSTMENT FACTOR	REQUIRED LENGTH	PROVIDED LENGTH
1	CS-WSP	1/2" OSB	36.33'	21.33'	8'	1.0	8.5'	29.33'
2	CS-WSP	1/2" OSB	36.33'	21.33'	8'	1.0	8.5'	15'
A	CS-WSP	1/2" OSB	21.33'	16.33'	8'	1.0	6.4'	15.33'
B	CS-WSP	1/2" OSB	18.6'	20'	8'	1.0	4.3'	10.16'
C	CS-WSP	1/2" OSB	21.33'	20'	8'	1.0	6.4'	15.33'

BRACED WALL PANEL SCHEDULE				
METHOD	MINIMUM THICKNESS	FASTENERS	EDGE	FIELD
CS-WSP	1/2" OSB	EXTERIOR SHEATHING PER TABLE 602.3(3)	6" O.C.	12" O.C.
		INTERIOR SHEATHING PER TABLE 602.3(1) OR 602.3(2)		



BRACED WALL PLAN

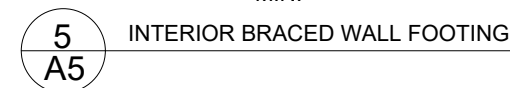
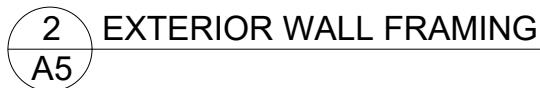
SCALE 1/4" = 1'-0"

BRACED WALL PLAN

OWNER'S NAME:

PROJECT ADDRESS:

SHEET:



- ### 3.1 CEILING JOIST TAPER CUT

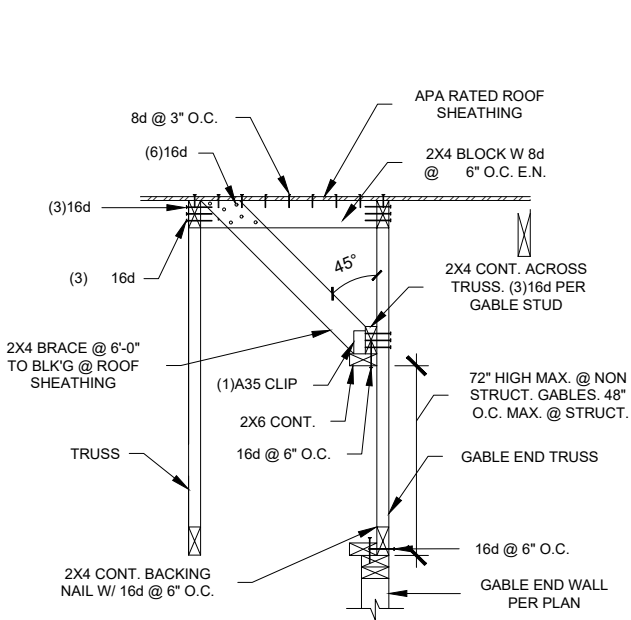


DETAILS

SCALE $\frac{1}{4}" = 1'-0"$

ROOF PLAN

3/16" = 1'-0"

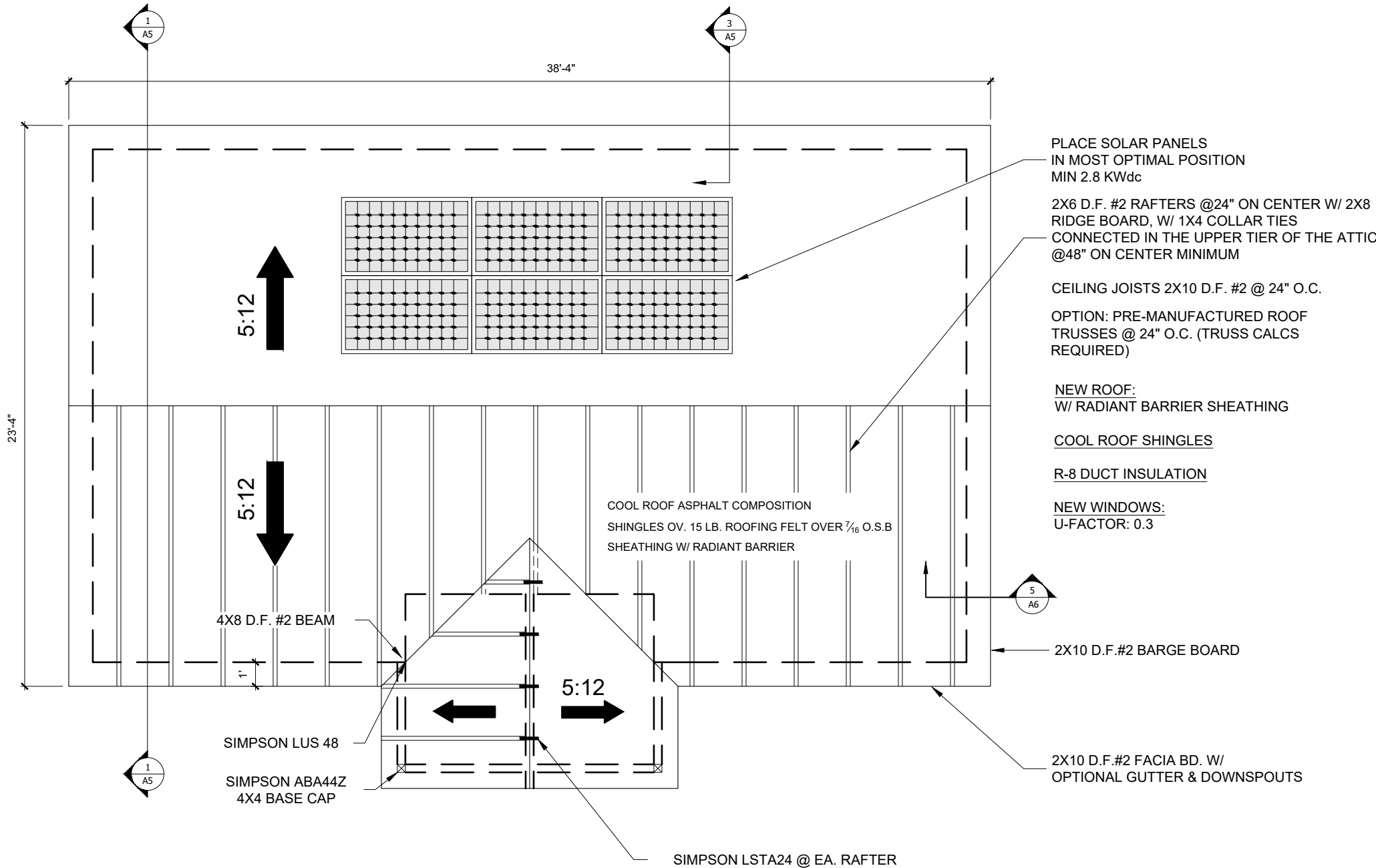


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A6
GABLE END DETAIL

ATTIC VENT CALCULATIONS			
TYPE	SIZE	QUANTITY	TOTAL NET FREE AREA
GABLE VENT	14" X 24"	2	186 SQ IN
EAVE	14" X 6"	14	616 SQ IN

CALCULATION: (ADU SQUARE FOOTAGE)/150 X 144
(746/150) = 4.97 SQ FT.
4.97 X 144 = 716 SQ IN.

NOTE: EVENLY DISTRIBUTE EAVE VENTS

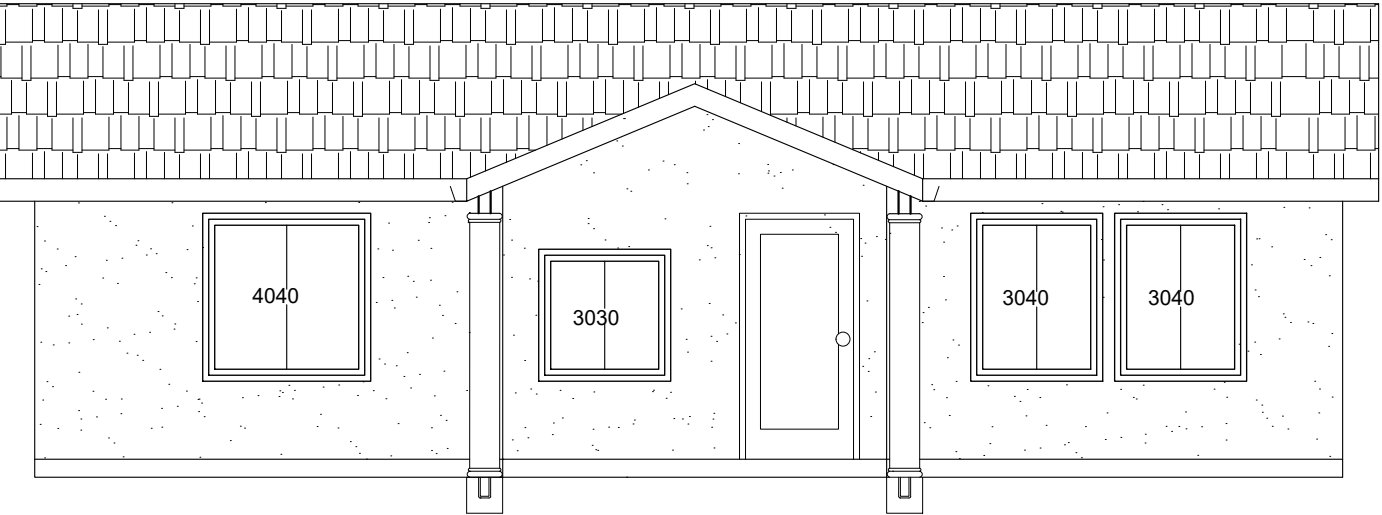


ROOF PLAN

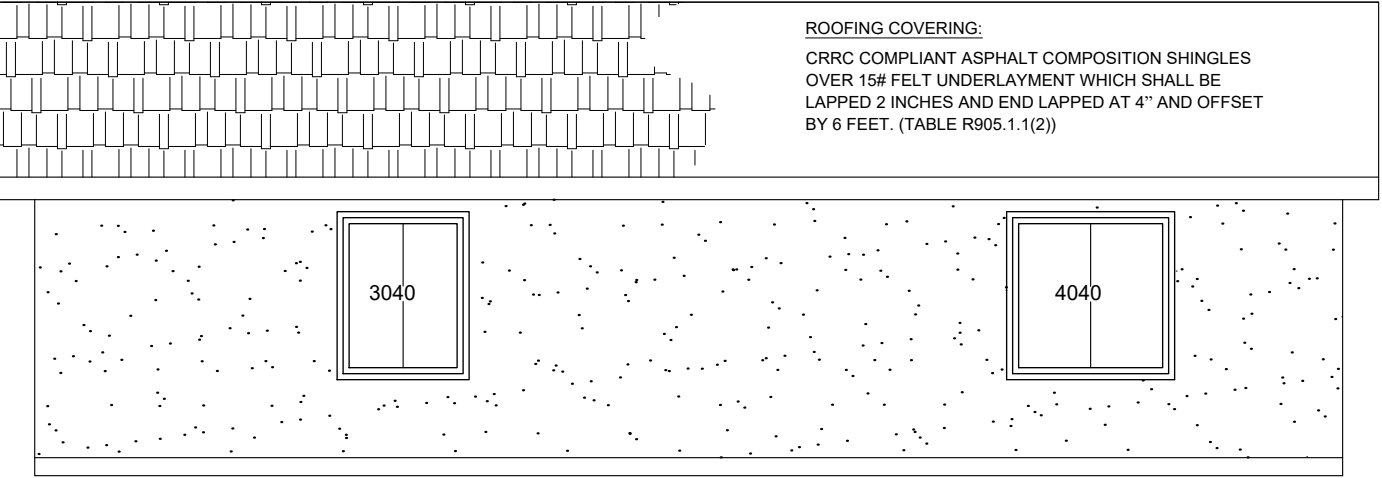
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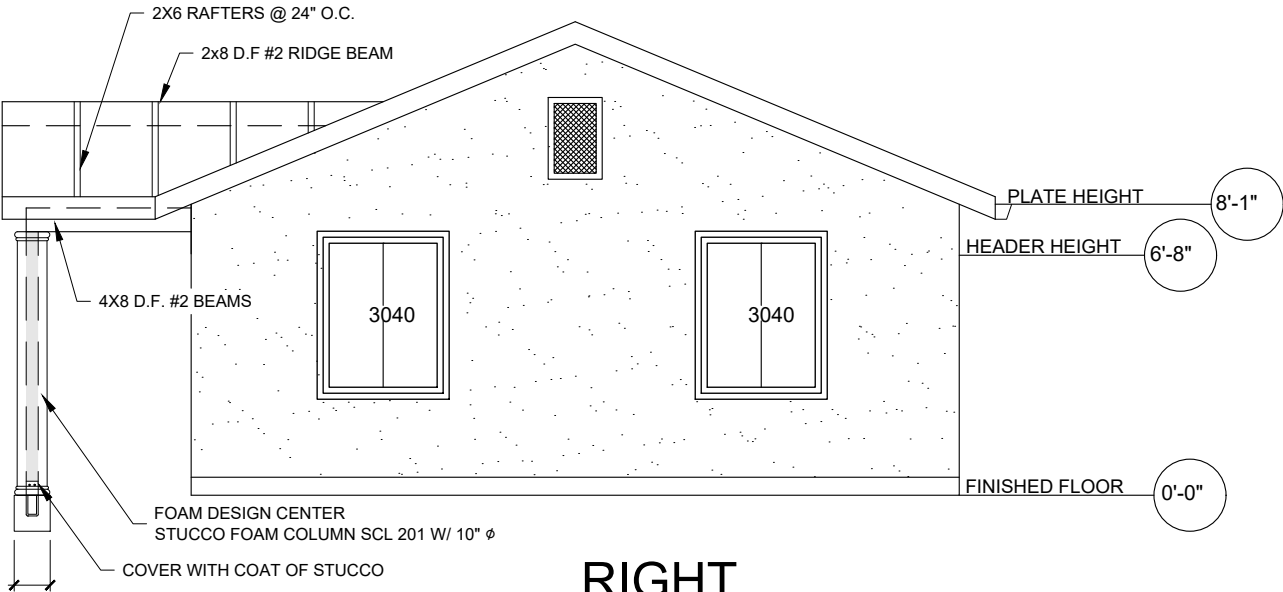
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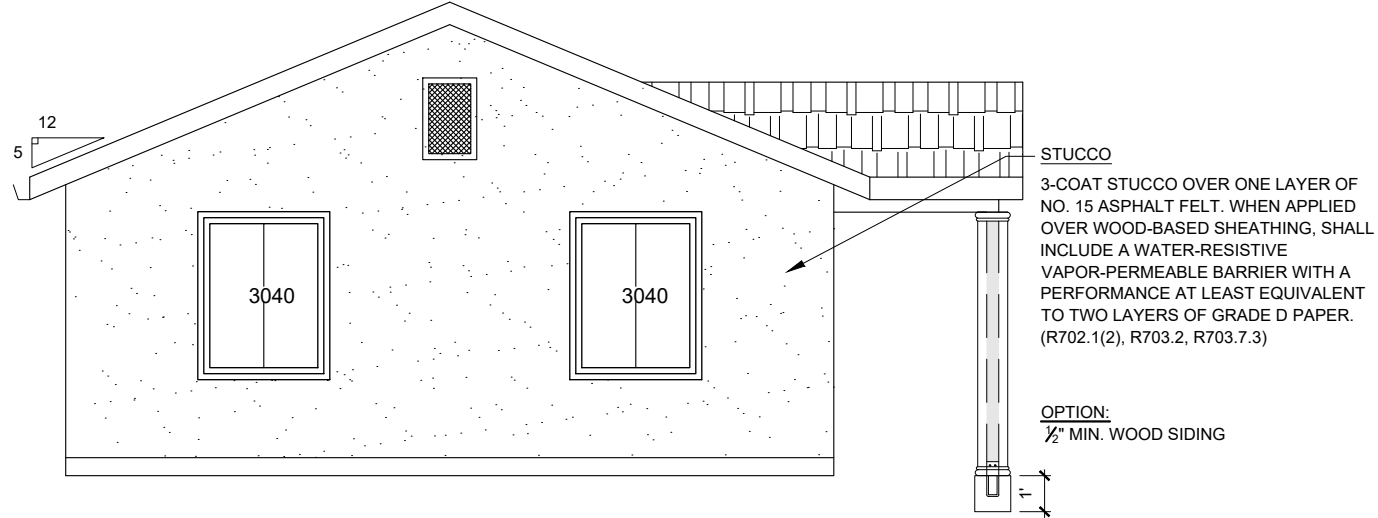
FRONT



BACK



RIGHT



LEFT

ELEVATIONS

SCALE: 3/16" = 1'-0"

ELEVATIONS