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:

2019 CALIFORNIA BUILDING CODE (CBC)

2019 CALIFORNIA RESIDENTIAL CODE (CRC)

2019 CALIFORNIA PLUMBING CODE (CPC)

2019 CALIFORNIA MECHANICAL CODE (CMC)

2019 CALIFORNIA ELECTRIC CODE (CEC)

2019 CALIFORNIA EXISTING BUILDING CODE (CEBC)

2019 CALIFORNIA ENERGY CODE

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

2019 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 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.

S⊢	IEET INDEX:	BUILD
A0.1	COVER SHEET	
A0.2	GENERAL NOTES	
A1	FLOOR PLAN	
A2	ELECTRICAL PLAN	
A3	FOUNDATION PLAN	
A4	BRACED WALL PLAN	
A5	DETAILS	
A6	ROOF PLAN	
A7	ELEVATIONS	
	PLANNING STAMP	

AND PLANNING AND BUILDIN DEPARTMENT CITY OF ING STAMP ш PAGI OVER PROJECT ADDRESS: OWNER'S NAME: SHEET: A0.1

CALIFORNIA MECHANICAL CODE NOTES

EXHAUST SYSTEMS

- Exhaust ducts shall terminate outside the building and be equipped with back draft dampers. (CMC Section 504.1)
- Kitchen range ventilation ducts shall be metal with smooth interior surfaces. 2. (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)
- 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
- 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)
- The Contractor shall provide safety glazing for all conditions deemed a 2. "hazardous location" per CRC Section R308.4.

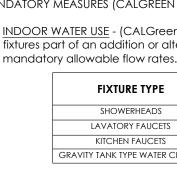
BATHROOMS

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)

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)
- 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. PHOTOVOLTAIC REQUIREMENTS 3.
- 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.
- LIGHTING (Energy Code Section 150 (k)) 5.
- 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.
- HVAC See Title 24 Energy Calculation Documentation 6.
- VENTILATION (Energy Code Section 150 (o)) All dwelling units shall meet 7. th requirements of ASHRAE 62.2 SEE CALIFORNIA MECHANICAL CODE NOTES.



- maximum flow rates specified. 3.
 - method acceptable to the building official.
 - and debris, which may enter the system. retarder and capillary break.
- 7.

6.

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

RE TYPE	MANDATORY FLOW RATE FOR NEW "WATER CONSERVING" FIXTURES
erheads	1.8 GPM @ 80 PSI
ry faucets	1.2 GPM @ 60 PSI
N FAUCETS	1.8 GPM @ 60 PPSI
PE 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

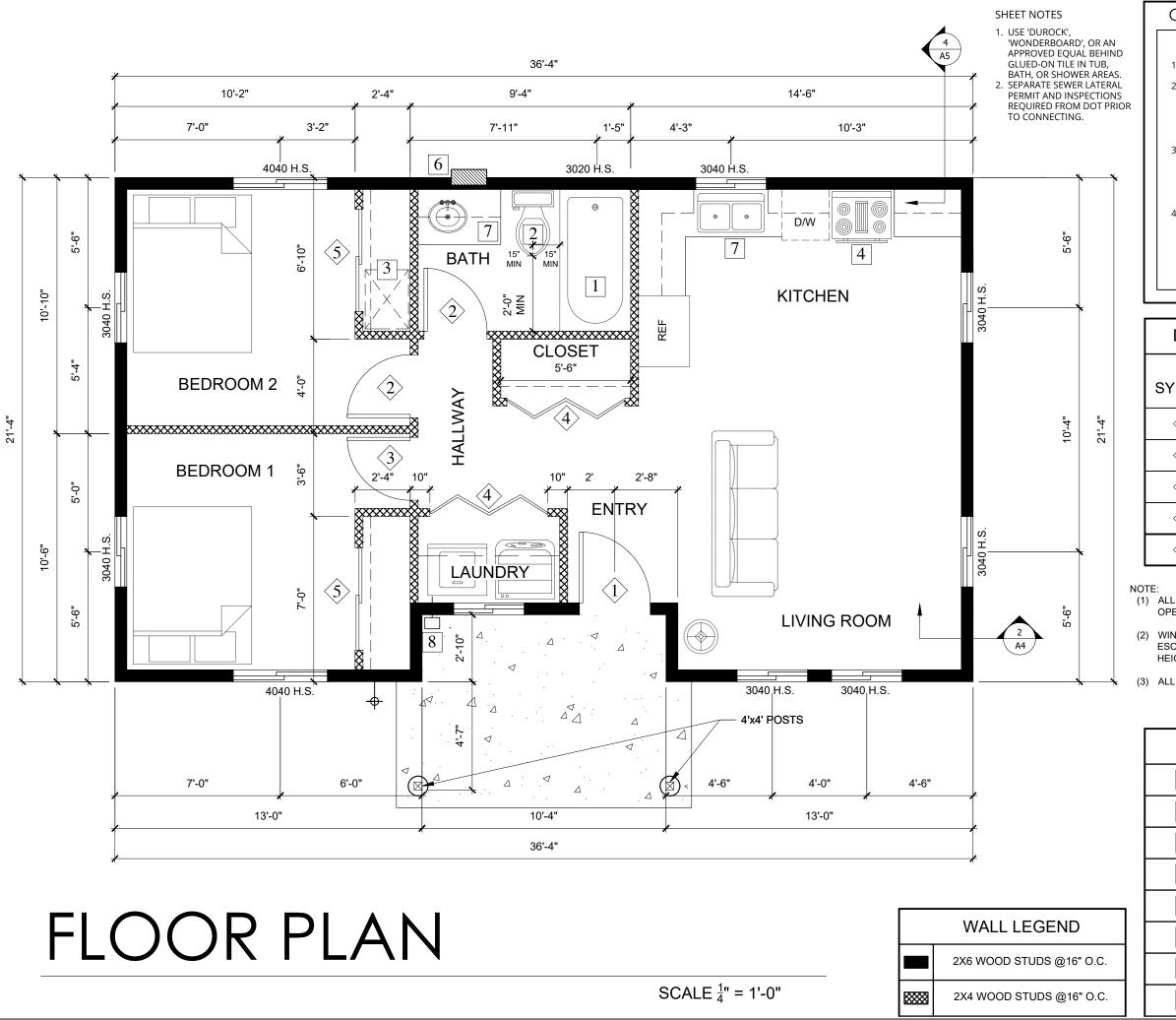
ENHANCED DURABILITY AND REDUCED MAINTENANCE - (CALGreen 4.406) Annular spaces around pipes, electric cables, conduits or other openings in plates at exterior walls, shall be protected against the passage of rodents by closing such opening with cement mortar, concrete masonry or similar

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

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

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. 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.

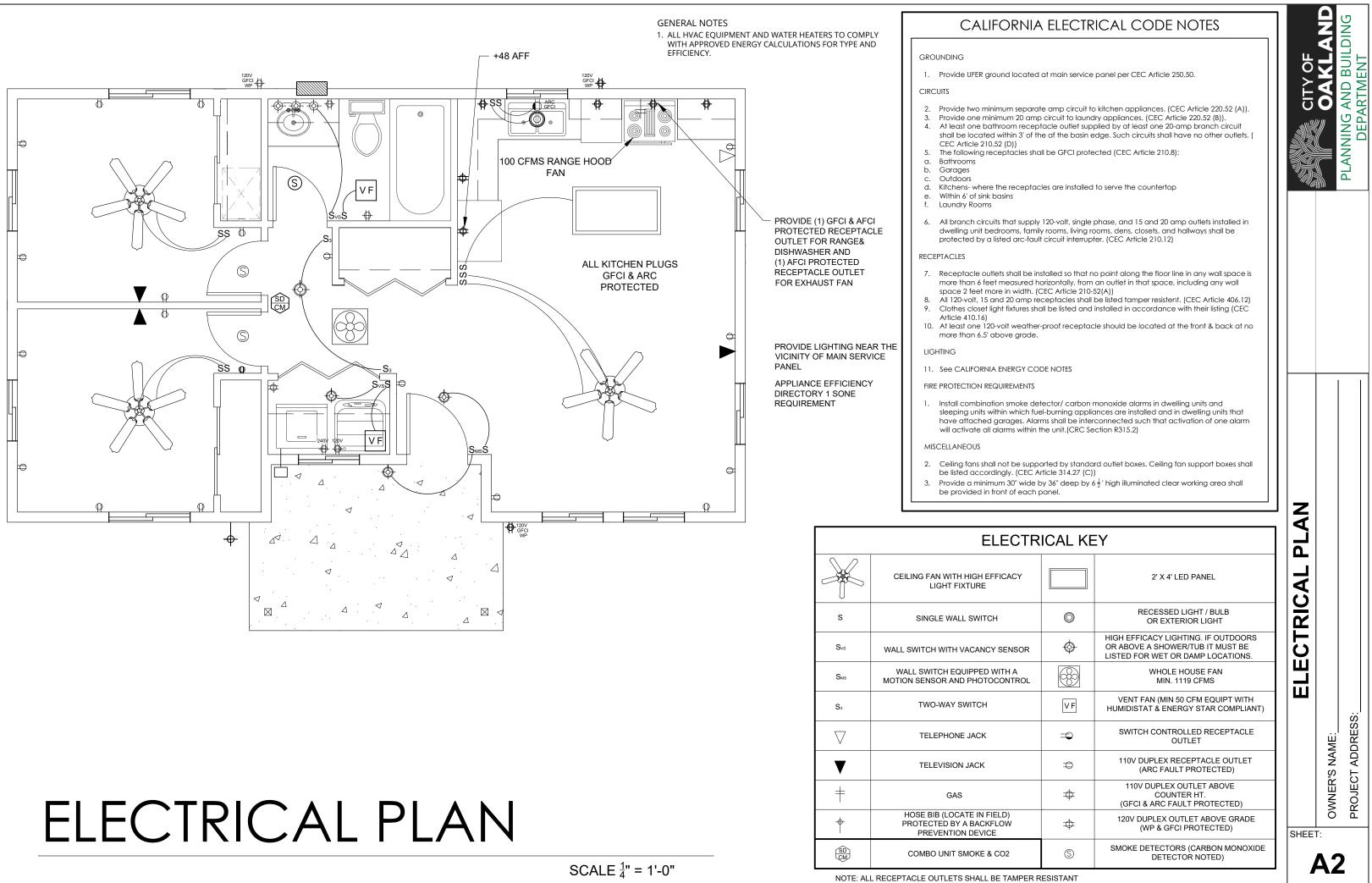
GENERAL NUIES	CITY OF
OWNER'S NAME:	OAKLAND
PROJECT ADDRESS:	PLANNING AND BUILDING



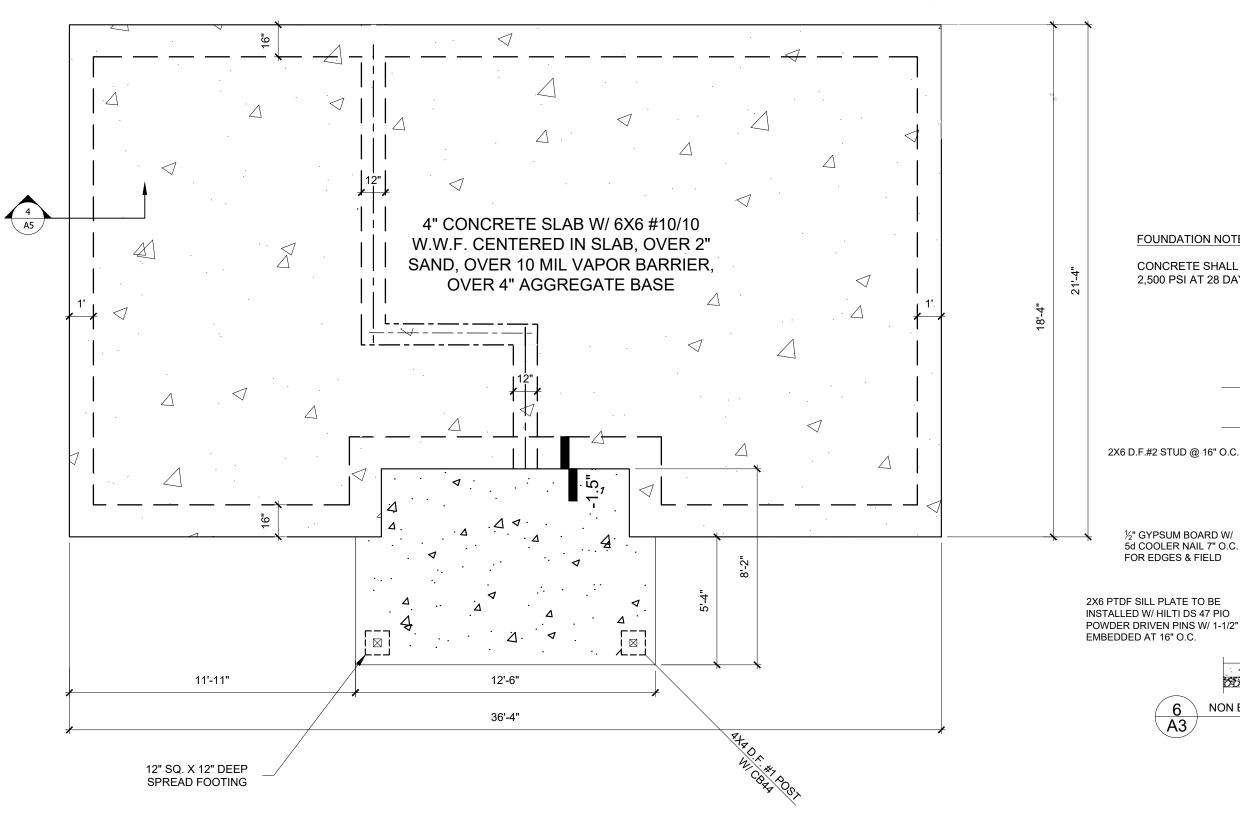
CALIFORNIA PLUMBING CODE NOTES

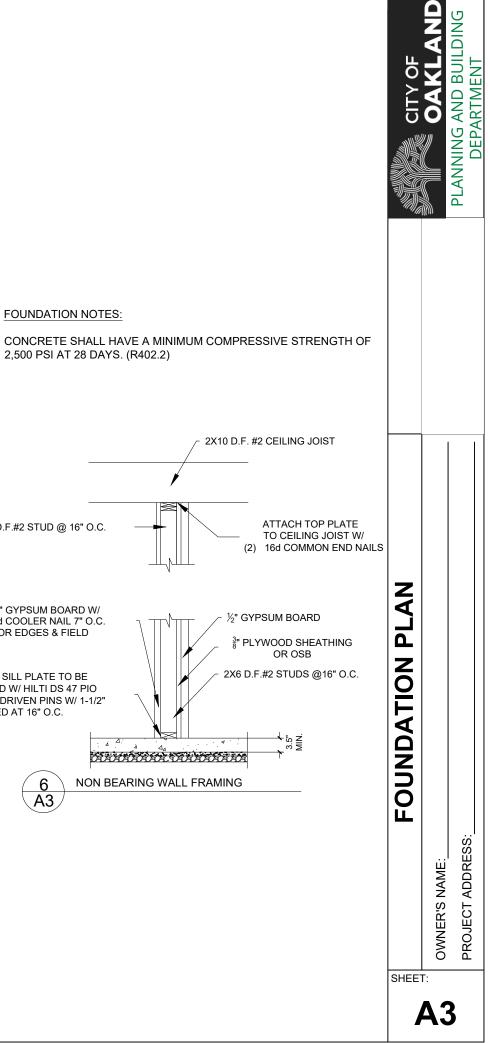
- 1. Provide a back flow prevention device at all hose bibs and water supply lines. (CPC 603.3)
- 2. Showers and shower/ tub combinations shall have individual control valves of the pressure balance, thermostatic or combination pressure balance/thermostatic mixing valve type. Provide temperature regulation 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)

8	7	6	5	4	3	2	1		PENINGS SH INDOWS IN E SCAPE RESC EIGHT NO MC	<u></u>	4	3>	$\langle 2 \rangle$	$\langle 1 \rangle$	YMBOL		DOOR	 Provide a supply lin Showers a control va combinat Provide te 120°F. Th appropria No Dome a drainag approved dishwash flood-leve drainboar Water clc to any sic width) an
		E			22"			FLOOR	AT EXTERIOR ALL BE 4X8 D.F BEDROOMS TH UE OPENING F)RE THAN 44" / S SHALL HAVE /	5'-0"	5'-0"	3'-0"	2'-8"	3'-0"	WD		AND FRA	back flow preve es. (CPC 603.3) and shower/ tub lives of the press ion pressure bal emperature regu e water heater ti the means. (CPC stic dishwasher air, ing machine. Lis e system or food dishwasher air, ing machine. Lis e system or food dishwas
EXHAUST F	LAVATORIE	EXTERIOR W	NOT	IGE/OVEN W	X30" ATTIC A	SHOWER HE TOILET 1.	2" X 36" TUB/		: #2 MIN. AT ARE A PAR REQUIREMENT ABOVE FINISHE	6'-8"	6'-8"	6'-8"	6'-8"	6'-8"	HGT	SIZ	AME SCH	ntion device at a combinations s sure balance, th ance/thermosta lation to limit h dv8.3) machine shall l waste dispose gap fitting on th sted air gaps sha or above the flo nigher. (CPC 807 e located minir ction (minimun space in front o
OR DRYER	ES 1.2 GPM	ATER HEAT					SHOWER U	EGEND	T OF EMERG S SHALL HAV ED FLOOR.	1 3/8"	1 3/8"	1 3/8"	1 3/8"	1 3/4"	THK	ΖE	IEDULE	all hose bibs a shall have indiv ermostatic or tic mixing valv ot water temp not be consid be directly con r without the u e discharge si- all be installed od level of the 7.3) mum 15" from n 30" clear spo
		ER			NEL	M				SLIDER	BIFOLD	R.H	L.H.	L.H.	STYLE			nd water vidual ve type. erature to ered nected to use of an de of the with the e sink or its center ace in
	SHEE								FLOOR PLAN									CITY OF
41	Т: _	MO	JER'S	OWNER'S NAME	 ان													OAKLAND
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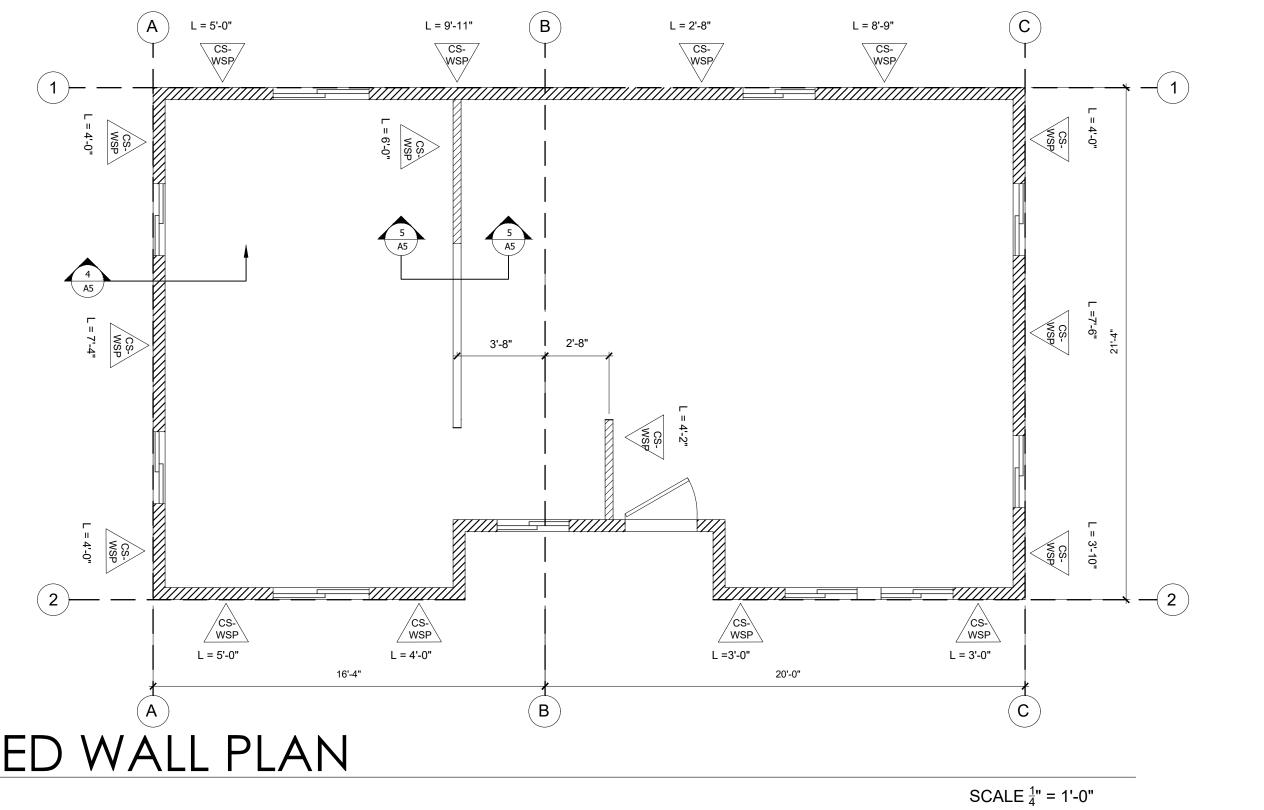


FOUNDATION PLAN

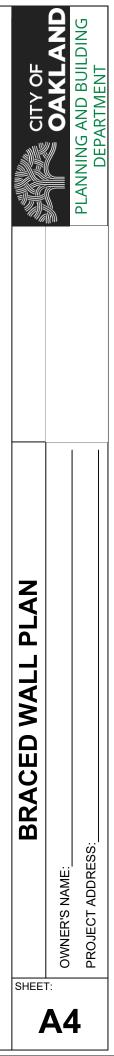




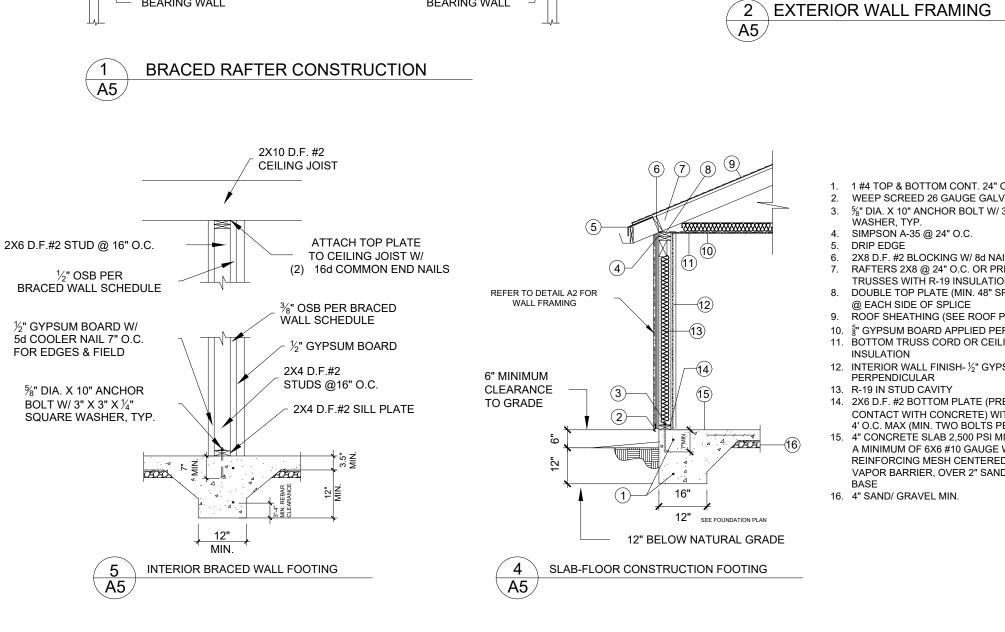
			BRACED	WALL PANE	L SCHEDU	JLE							
BWL	METHOD	MATERIAL MIN. & THICKNESS	BWL LENGTH	BWL SPACING	WALL HEIGHT	ADJUSTMENT FACTOR	REQUIRED LENGTH	PROVIDED LENGTH	BR	ACED WAL	L PANEL SCHE	DULE	
1	CS-WSP	1/2" OSB	36.33'	21.33'	8'	1.0	8.5'	29.33'		MINIMUM			
2	CS-WSP	1/2" OSB	36.33'	21.33'	8'	1.0	8.5'	15'	METHOD	THICKNESS	FASTENERS	EDGE	FIELD
A	CS-WSP	1/2" OSB	21.33'	16.33'	8'	1.0	6.4'	15.33'			EXTERIOR SHEATHING PER TABLE 602.3(3)	6" O.C.	12" O.C.
В	CS-WSP	1/2" OSB	18.6'	20'	8'	1.0	4.3'	10.16'	CS-WSF	¹ / ₂ " OSB	INTERIOR SHEATHING	0 0.0.	12 0.0.
С	CS-WSP	1/2" OSB	21.33'	20'	8'	1.0	6.4'	15.33'			PER TABLE 602.3(1) OR 602.3(2)	

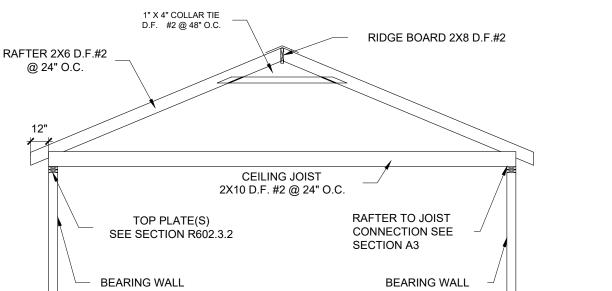


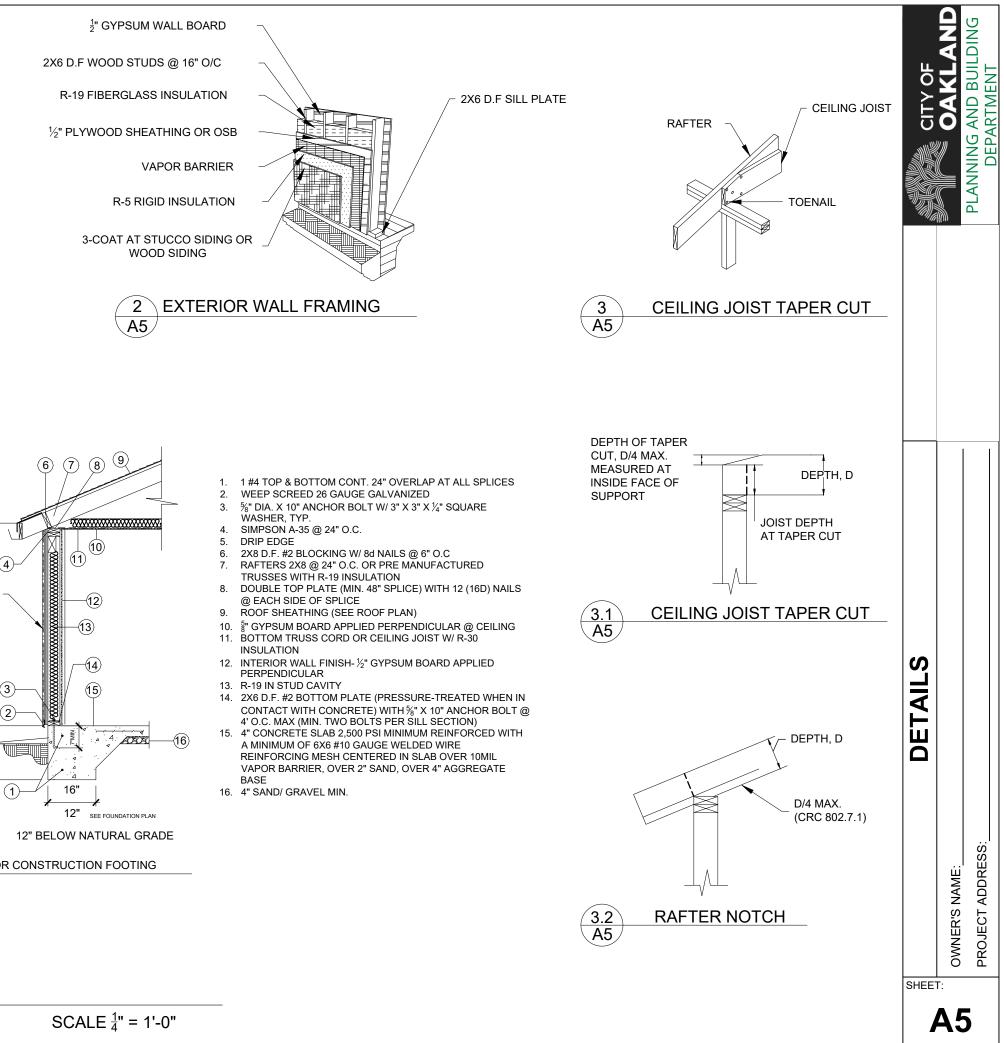
BRACED WALL PLAN

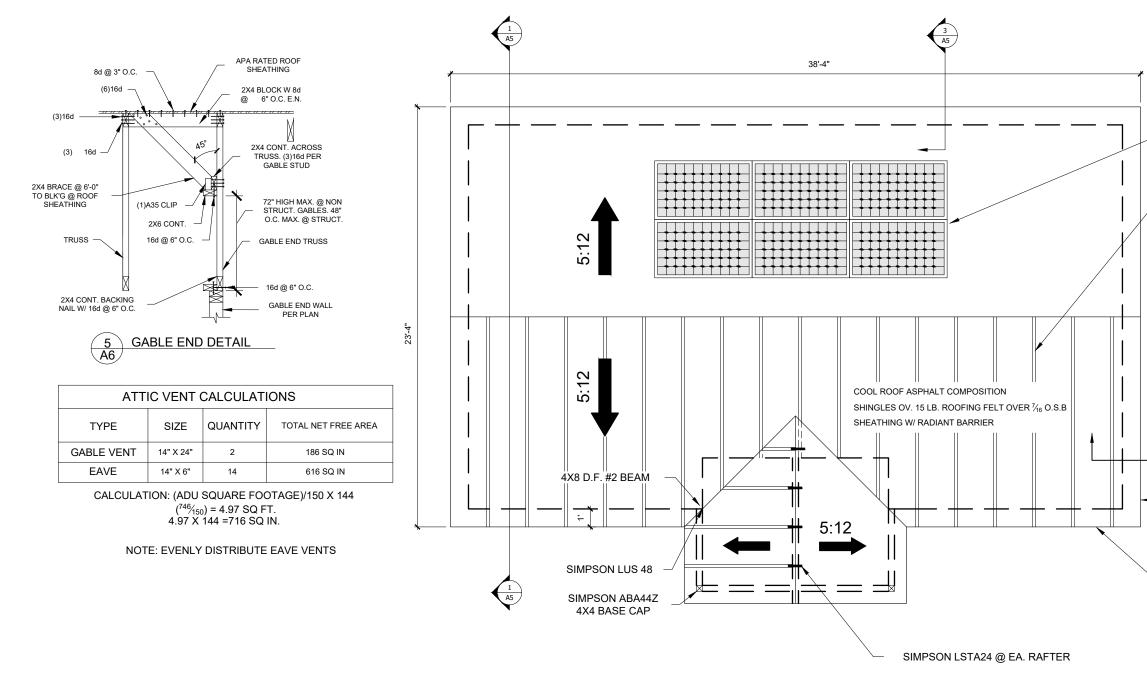


DETAILS









ROOF PLAN

SHEET	ROOF PLAN	CITYOF
46	OWNER'S NAME: PROJECT ADDRESS:	PLANNING AND BUILDING

PLACE SOLAR PANELS IN MOST OPTIMAL POSITION MIN 2.8 KWdc

2X6 D.F. #2 RAFTERS @24" ON CENTER W/ 2X8 RIDGE BOARD, W/ 1X4 COLLAR TIES CONNECTED IN THE UPPER TIER OF THE ATTIC @48" ON CENTER MINIMUM

CEILING JOISTS 2X10 D.F. #2 @ 24" O.C.

OPTION: PRE-MANUFACTURED ROOF TRUSSES @ 24" O.C. (TRUSS CALCS REQUIRED)

NEW ROOF: W/ RADIANT BARRIER SHEATHING

COOL ROOF SHINGLES

R-8 DUCT INSULATION

NEW WINDOWS: U-FACTOR: 0.3

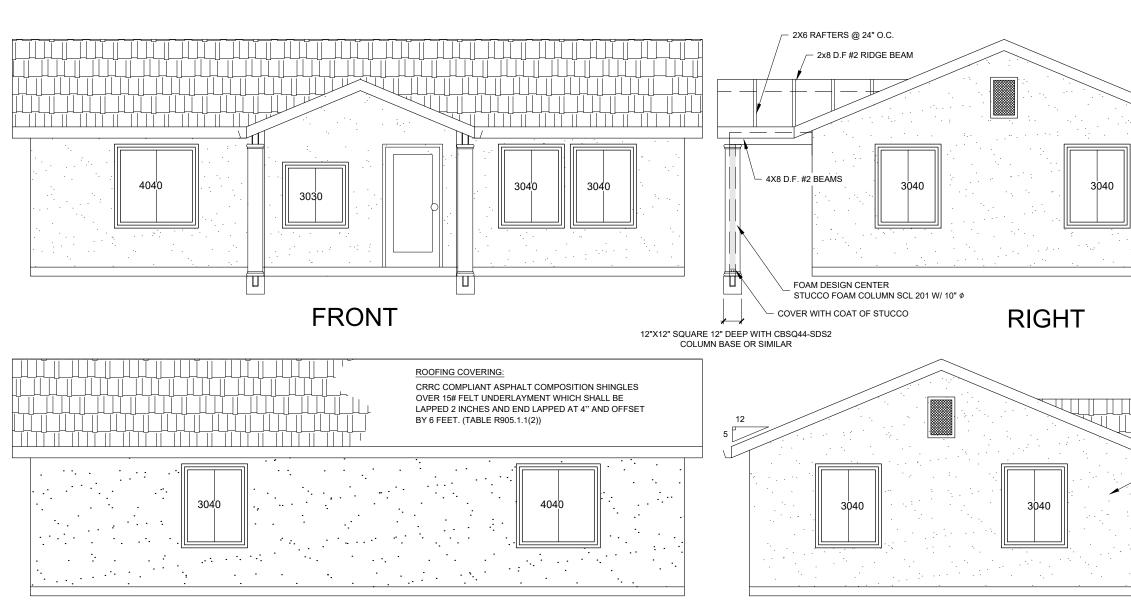
A6

- 2X10 D.F.#2 BARGE BOARD

2X10 D.F.#2 FACIA BD. W/ OPTIONAL GUTTER & DOWNSPOUTS

ELEVATIONS





LEFT

