ACCESSORY DWELLING UNIT - STUDIO

PROJECT DATA:

PROJECT:

OWNER:

ADDRESS:

APN NUMBER:

STORIES: 1

FIRE SPRINKLERS: YES/NO

SQUARE FOOTAGE: 435 SQ. FT.

TYPE OF CONSTRUCTION: V-B

OCCUPANCY GROUP: R-3

ZONING :

CLIMATE ZONE: 3

EXPOSURE CATEGORY: B

SEISMIC DESIGN CATEGORY (D_0, D_1, D_2)

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 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.

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A0.1	COVER SHEET	
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SHEET:	COVER PAGE	CITY OF
0.	OWNER'S NAME:	OAKLAND OAKLAND
.1		PLANNING AND BUILDING
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CALIFORNIA MECHANICAL **CODE NOTES**

EXHAUST SYSTEMS

- 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)
- 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)

- Kitchen 100 cfm (On Demand), 1 SONE, 5" Ø min duct 5.
- 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 alazing 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)
- Aging-In-Place and Fall Protection Grab bar reinforcement, electrical 4. receptacle outlet, switch and control heights, interior door sizes, 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)
- MANDATORY REQUIREMENTS TO LIMIT AIR LEAKAGE (Energy Code Section 2. 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
- PIPE INSULATION (Energy Code Section 150 (j)) Hot water pipe insulation 4 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.
- Interior lighting, Switching Devices & Controls Dimmers or vacancy C. 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.
- Residential Outdoor Lighting All fixtures shall be controlled by either d. photocell & motion sensor, photocontrol & automatic time switch, astronomical time clock, or EMCS.
- 6. HVAC - See Title 24 Energy Calculation Documentation
- VENTILATION (Energy Code Section 150(o)) All dwelling units shall meet 7. the requirements of ASHRAE 62.2 SEE CALIFORNIA MECHANICAL NOTES.
- All Newly Constructed Buildings are subject to the All-Electric provisions of 8. OMC 15.37.

MANDATORY MEASURES (CALGREEN CH 4)

mandatory allowable flow rates.

FIXTUR

	SHOWE	F
L	AVATOR	Y
	KITCHEN	l
	TANK TY	Þ

- maximum flow rates specified.
- 3. method acceptable to the building official. 4
- and debris, which may enter the system. retarder and capillary break.
- 7.

CALGREEN CODE NOTES

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
RHEADS	1.8 GPM @ 80 PSI
Y FAUCETS	1.2 GPM @ 60 PSI
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

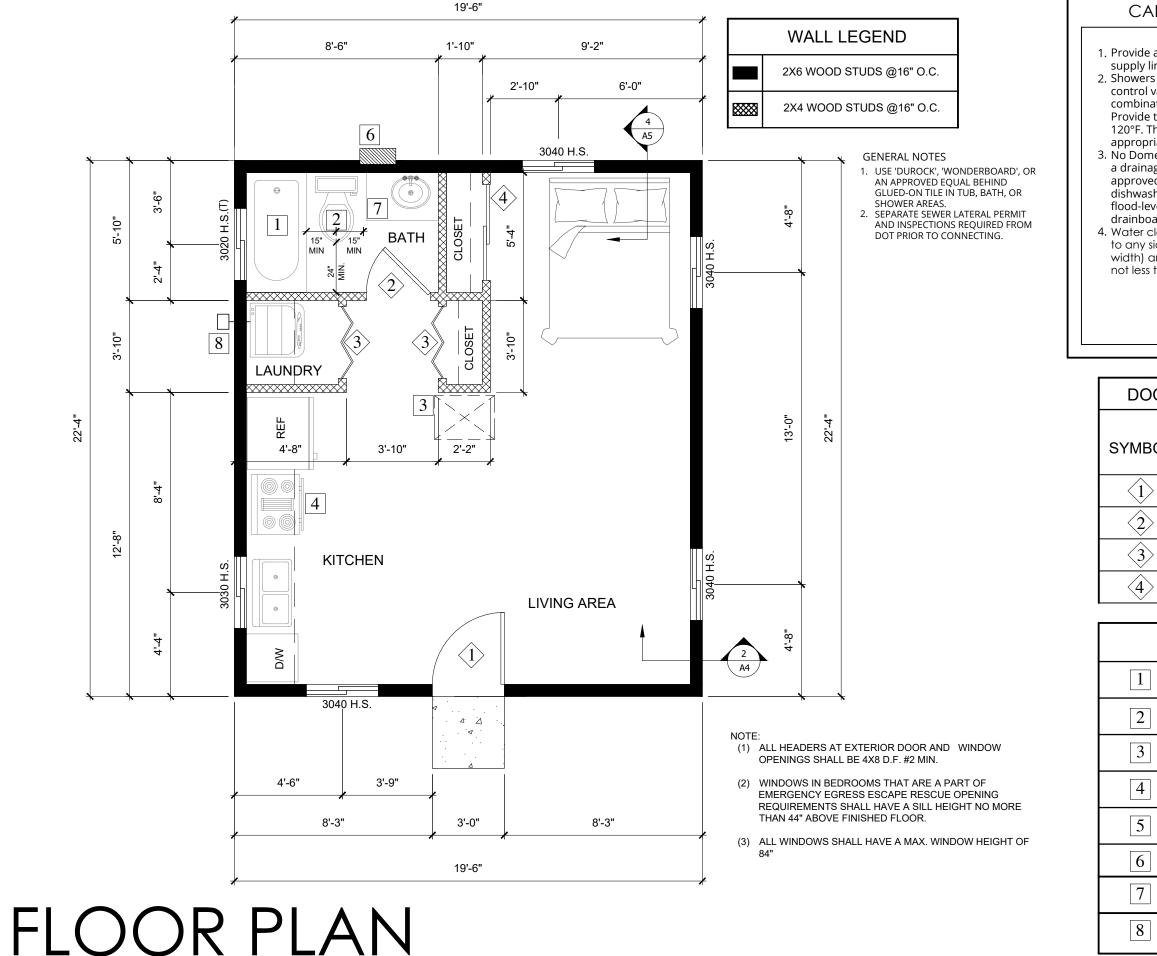
POLLUTANT CONTROL - (CAL Green Section 4.504) At the time of rough installation, during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet 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.

A	GENERAL NOTES	CITY OF
: .0,	OWNER'S NAME:	OAKLAND OAKLAND
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SCALE $\frac{1}{4}$ " = 1'-0"

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)

OR AND FRAME SCHEDULE								
	SIZE							
OL	WD	HGT	THK	STYLE				
>	3'-0"	6'-8"	1 3/4"	L.H.				
>	2'-8"	6'-8"	1 3/8"	L.H.				
>	3'-0"	6'-8"	1 3/8"	BIFOLD				
>	4'-0"	6'-8"	1 3/8"	SLIDER				

FLOOR PLAN LEGEND

60" X 30" TUB/SHOWER UNIT SHOWER HEAD 1.8 GPM

TOILET 1.28 GPM

22"X30" ATTIC ACCESS PANEL

RANGE W/ HOOD ABOVE

NOT USED

EXTERIOR WATER HEATER

LAVATORIES 1.2 GPM

EXHAUST FOR DRYER

SHEE	FLOOR PLAN	CITY OF
τ: Δ ΄	OWNER'S NAME:	OAKLAND
1	PROJECT ADDRESS:	PLANNING AND BUILDING
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ELECTRICAL KEY

✔✔CEILING FAN WITH HIGH EFFICACY LIGHT FIXTURESSINGLE WALL SWITCHS⋅sWALL SWITCH WITH VACANCY SENSORS⋅sWALL SWITCH EQUIPPED WITH A MOTION SENSOR AND PHOTOCONTROLS⋅sTWO-WAY SWITCH✓TELEPHONE JACK✓TELEPHONE JACK✓CAS✓HOSE BIB (LOCATE IN FIELD)✓2' X 4' LED PANEL✓RECESSED LIGHT / BULB OR EXTERIOR LIGHT✓NECESSED LIGHT / BULB OR EXTERIOR LIGHT✓NUMOLE FOUSE FAN MIN. 653 CFMS✓VENT FAN (MIN 50 CFM EQUIPT WITH HUMIDISTAT & ENERGY STAR COMPLIANT)✓SWITCH CONTROLLED RECEPTACLE OUTLET (ARC FAULT PROTECTED)↓110V DUPLEX RECEPTACLE OUTLET (GFCI & ARC FAULT PROTECTED)↓120V DUPLEX OUTLET ABOVE (WP & GFCI PROTECTED)♠120V DUPLEX OUTLET ABOVE GRADE (WP & GFCI PROTECTED)♠SMOKE DETECTORS (CARBON MONOXIDE DETECTOR NOTED)		
Sos WALL SWITCH WITH VACANCY SENSOR Sus WALL SWITCH EQUIPPED WITH A MOTION SENSOR AND PHOTOCONTROL Sus TWO-WAY SWITCH ✓ TELEPHONE JACK ✓ TELEVISION JACK ✓ TELEVISION JACK ✓ HOSE BIB (LOCATE IN FIELD) ✓ 2' X 4' LED PANEL ✓ RECESSED LIGHT / BULB OR EXTERIOR LIGHT ✓ NIGH EFFICACY LIGHTING. IF OUTDOORS OR ABOVE A SHOWERTUB IT MUST BE LISTED FOR WET OR DAMP LOCATIONS. ✓ NUCHT FAN (MIN 50 CFM EQUIPT WITH HUMIDISTAT & ENERGY STAR COMPLIANT) ✓ SWITCH CONTROLLED RECEPTACLE OUTLET (ARC FAULT PROTECTED) ✓ 110V DUPLEX RECEPTACLE OUTLET (GFCI & ARC FAULT PROTECTED) ✓ 1120V DUPLEX OUTLET ABOVE (WP & GFCI PROTECTED) ✓ 1120V DUPLEX OUTLET ABOVE GRADE (WP & GFCI PROTECTED) ✓ 120V DUPLEX OUTLET ABOVE GRADE (WP & GFCI PROTECTED) ✓ 120V DUPLEX OUTLET ABOVE GRADE		
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SMS MOTION SENSOR AND PHOTOCONTROL S₃ TWO-WAY SWITCH ✓ TELEPHONE JACK ▼ TELEVISION JACK ‡ GAS ↓ HOSE BIB (LOCATE IN FIELD) □ 2' X 4' LED PANEL ◎ RECESSED LIGHT / BULB OR EXTERIOR LIGHT ◎ RECESSED LIGHT / BULB OR EXTERIOR LIGHT ● HIGH EFFICACY LIGHTING. IF OUTDOORS OR ABOVE A SHOWER/TUB IT MUST BE LISTED FOR WET OR DAMP LOCATIONS. ● WHOLE HOUSE FAN MIN. 653 CFMS ● VENT FAN (MIN 50 CFM EQUIPT WITH HUMIDISTAT & ENERGY STAR COMPLIANT) ● 110V DUPLEX RECEPTACLE OUTLET ● 110V DUPLEX OUTLET ABOVE COUNTER HT. (GFCI & ARC FAULT PROTECTED) ● 120V DUPLEX OUTLET ABOVE GRADE (WP & GFCI PROTECTED) ● SMOKE DETECTORS (CARBON MONOXIDE	Svs	WALL SWITCH WITH VACANCY SENSOR
Image: State of the second	Sms	
∨ TELEVISION JACK ★ GAS ↓ HOSE BIB (LOCATE IN FIELD) ↓ HOSE BIB (LOCATE IN FIELD) ↓ LUCATE IN FIELD) ↓ 2' X 4' LED PANEL ↓ RECESSED LIGHT / BULB OR EXTERIOR LIGHT ↓ HIGH EFFICACY LIGHTING. IF OUTDOORS OR ABOVE A SHOWER/TUB IT MUST BE LISTED FOR WET OR DAMP LOCATIONS. ↓ HIGH EFFICACY LIGHTING. IF OUTDOORS ↓ VENT FAN (MIN 50 CFM EQUIPT WITH HUMIDISTAT & ENERGY STAR COMPLIANT) ↓ VENT FAN (MIN 50 CFM EQUIPT WITH HUMIDISTAT & ENERGY STAR COMPLIANT) ↓ VENT CONTROLLED RECEPTACLE OUTLET ↓ VENT CONTROLLED RECEPTACLE OUTLET ↓ 110V DUPLEX RECEPTACLE OUTLET ↓ 110V DUPLEX OUTLET ABOVE COUNTER HT. (GFCI & ARC FAULT PROTECTED) ↓ 120V DUPLEX OUTLET ABOVE GRADE (WP & GFCI PROTECTED) ↓ 120V DUPLEX OUTLET ABOVE GRADE	S₃	TWO-WAY SWITCH
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Image: Image	▼	TELEVISION JACK
2' X 4' LED PANEL Image: Constraint of the state of the s	ŧ	GAS
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MIN. 653 CFMS VF VENT FAN (MIN 50 CFM EQUIPT WITH HUMIDISTAT & ENERGY STAR COMPLIANT) SWITCH CONTROLLED RECEPTACLE OUTLET 110V DUPLEX RECEPTACLE OUTLET (ARC FAULT PROTECTED) 110V DUPLEX OUTLET ABOVE COUNTER HT. (GFCI & ARC FAULT PROTECTED) 120V DUPLEX OUTLET ABOVE GRADE (WP & GFCI PROTECTED) SEE COMBO UNIT SMOKE & CO2 SMOKE DETECTORS (CARBON MONOXIDE	\$	OR ABOVE A SHOWER/TUB IT MUST BE
VF HUMIDISTAT & ENERGY STAR COMPLIANT) Image: Complex control of the system		
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Image: Constraint of the second se	Ð	SWITCH CONTROLLED RECEPTACLE OUTLET
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Image: Write with the second secon	\$	COUNTER HT.
SMOKE DETECTORS (CARBON MONOXIDE	\$	
	SD CM	COMBO UNIT SMOKE & CO2
	S	·

NOTE: ALL RECEPTACLE OUTLETS SHALL BE TAMPER RESISTANT

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

SD CM

VF

⊕ śs'

-100 CFMS RANGE

HOOD FAN

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ALL KITCHEN PLUGS

GFCI & ARC

PROTECTED

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+48 AFF

PROVIDE LIGHTING NEAR THE

VICINITY OF MAIN SERVICE

PROVIDE (1) GFCI & AFCI

OUTLET FOR RANGE & DISHWASHER AND (1) ADCI

PROTECTED RECEPTACLE

PROTECTED RECEPTACLE

OUTLET FOR EXHAUST FAN

PANEL

CALIFORNIA ELECTRICAL CODE NOTES

GROUNDING

250.50.

CIRCUITS

- (CEC Article 220.52 (A)). 3. 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 af the basin edge. Such circuits shall have no other outlets. (CEC Article 210.52 (D)) The following receptacles shall be GFCI protected (CEC Article 210.8):
- 5.
- Bathrooms a. b.
- Garages с.
- Outdoors
- d. e. Within 6' of sink basins
- f. Laundry Rooms

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))
- All 120-volt, 15 and 20 amp receptacles shall be listed tamper resistant. 8. (CEC Article 406.12)
- 9. Clothes closet light fixtures shall be listed and installed in accordance with their listing (CEC Article 410.16)
- (CEC Article 210.52(E)(1)-(E)(3))

LIGHTING

- 11. See CALIFORNIA ENERGY CODE NOTES
- FIRE PROTECTION REQUIREMENTS

MISCELLANEOUS

ELECTRICAL PLAN

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

- 2. Provide two minimum separate amp circuit to kitchen appliances.
 - Provide one minimum 20 amp circuit to laundry appliances. (CEC

Kitchens- where the receptacles are installed to serve the countertop

6. All branch circuits that supply 120-volt, single phase, and 15 and 20 amp outlets installed in dwelling unit kitchens, family rooms, dining rooms, living rooms, dens, bedrooms, closets, hallways, and laundry areas shall be protected by a listed arc-fault circuit interrupter. (CEC

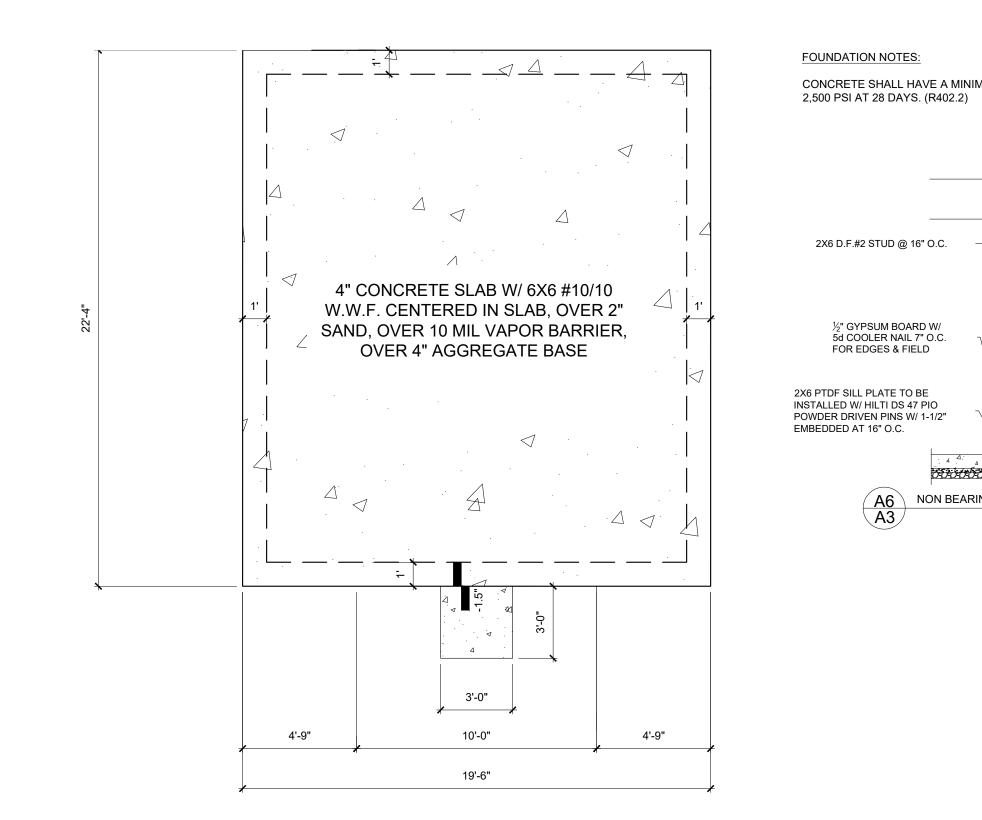
- 10. At least one 120-volt weather-proof receptacle should be located at the front & back at no more than 6.5' above grade

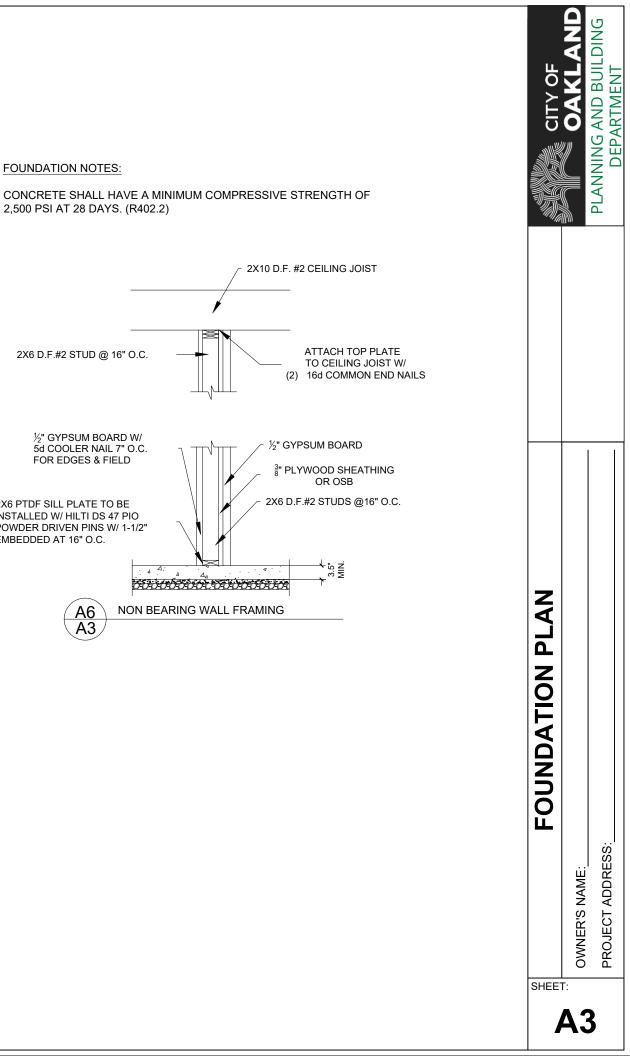
1. Install combination smoke detector/ carbon monoxide alarms in dwelling units and sleeping units within which fuel-burning appliances are installed and in dwelling units that have attached garages. Alarms shall be interconnected such that activation of one alarm will activate all alarms within the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

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 $6\frac{1}{2}$ ' high illuminated clear working area shall be provided in front of each panel (CEC Article 110.26).

SHEET	ELECTRICAL PLAN	CITY OF
г: Д 2	OWNER'S NAME:	OAKLAND
2	PROJECT ADDRESS:	PLANNING AND BUILDING
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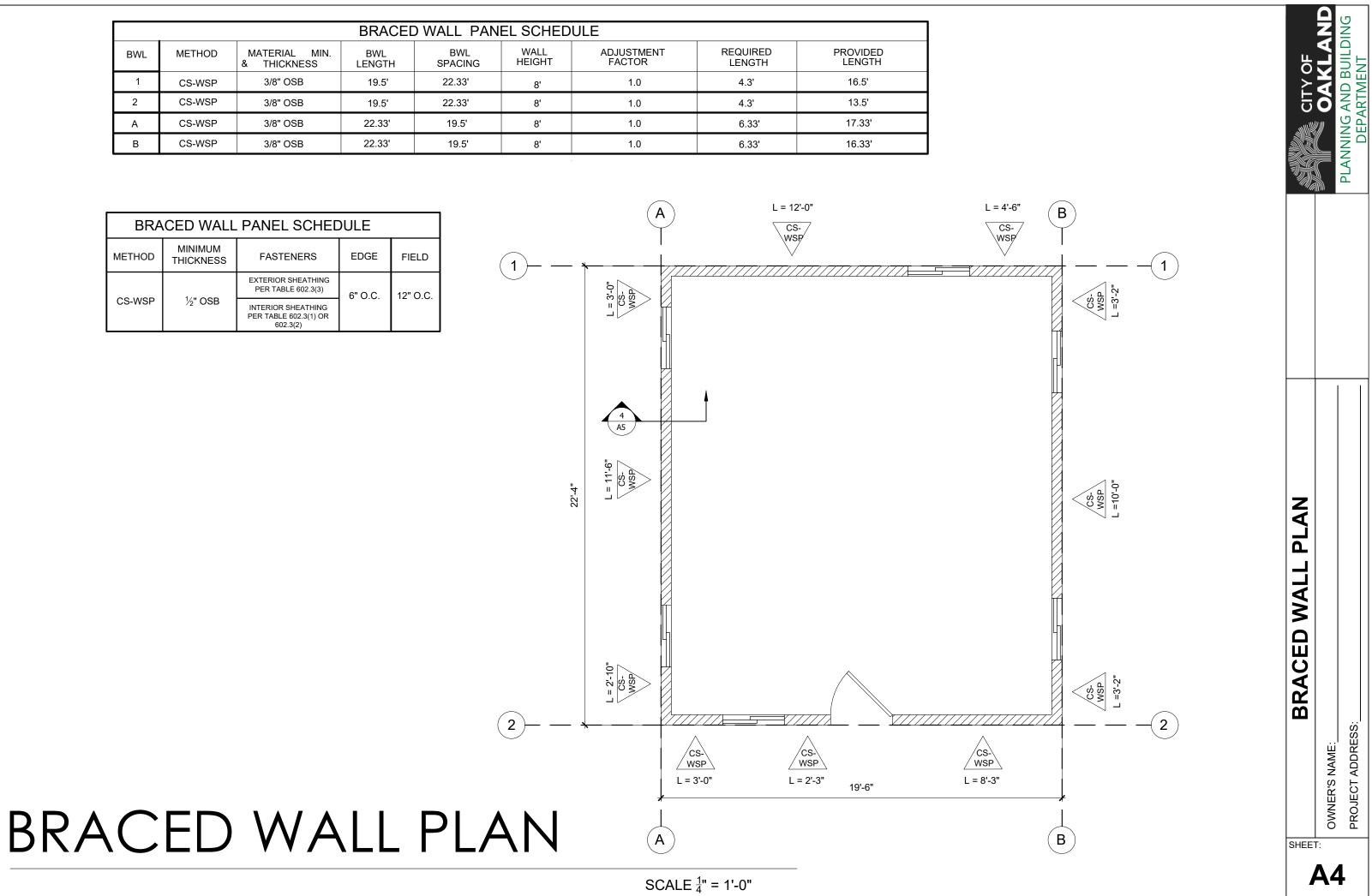
FOUNDATION PLAN

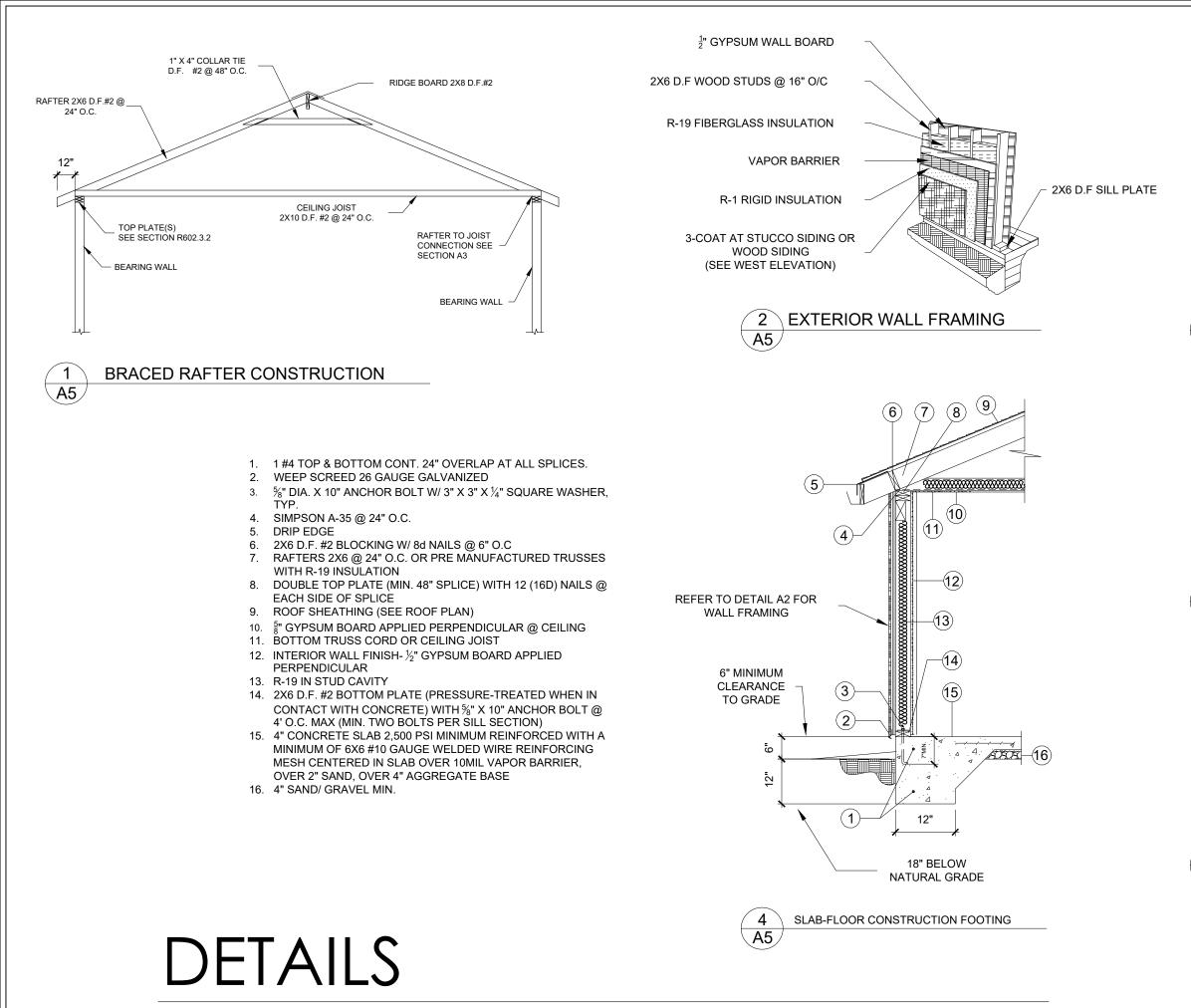




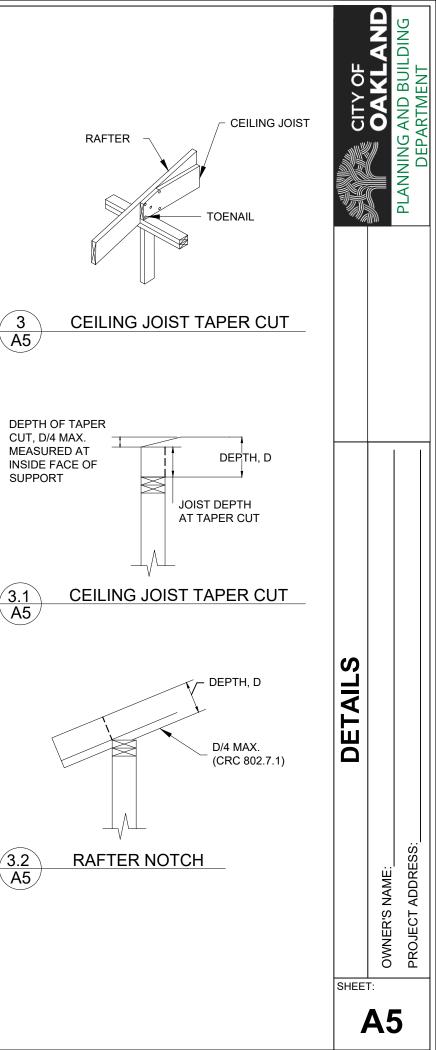
	BRACED WALL PANEL SCHEDULE								
BWL	METHOD	MATERIAL MIN. & THICKNESS	BWL LENGTH	BWL SPACING	WALL HEIGHT	ADJUSTMENT FACTOR	REQUIRED LENGTH	PROVIDED LENGTH	
1	CS-WSP	3/8" OSB	19.5'	22.33'	8'	1.0	4.3'	16.5'	
2	CS-WSP	3/8" OSB	19.5'	22.33'	8'	1.0	4.3'	13.5'	
А	CS-WSP	3/8" OSB	22.33'	19.5'	8'	1.0	6.33'	17.33'	
В	CS-WSP	3/8" OSB	22.33'	19.5'	8'	1.0	6.33'	16.33'	

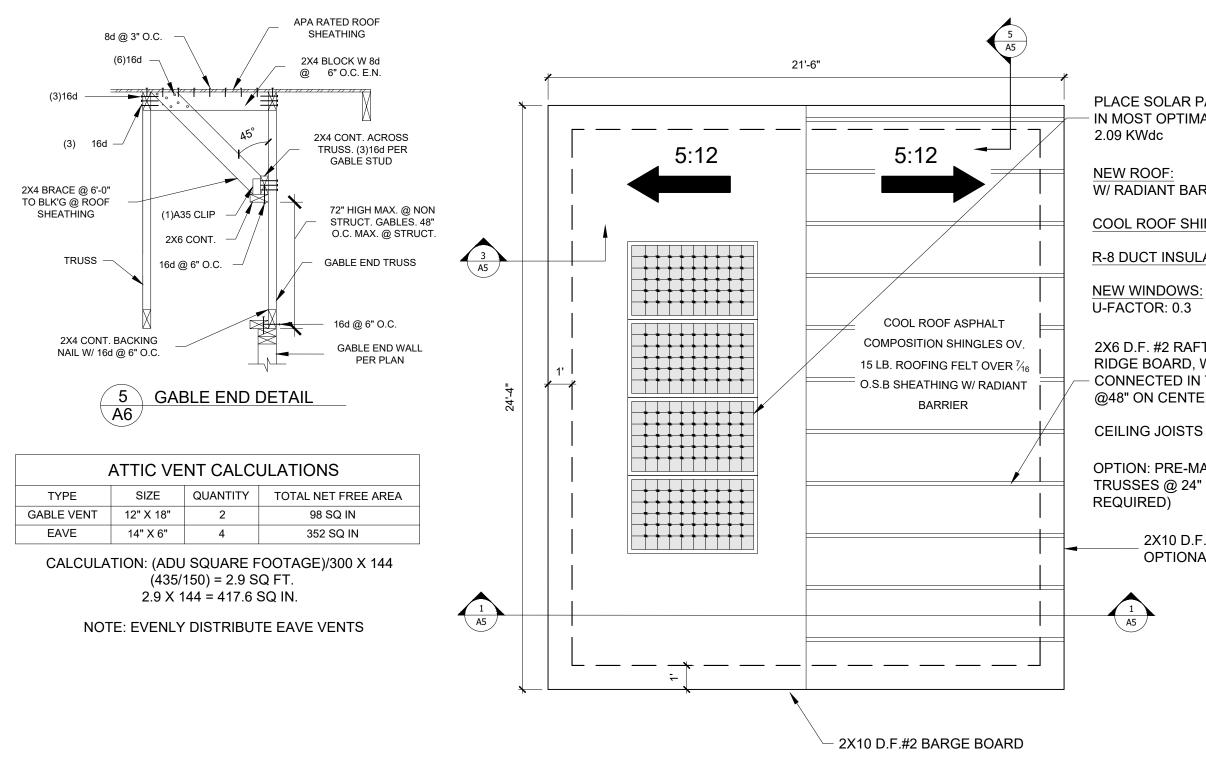
BRACED WALL PANEL SCHEDULE							
METHOD	MINIMUM THICKNESS	FASTENERS	EDGE	FIELD			
	1/	EXTERIOR SHEATHING PER TABLE 602.3(3)	6" O.C.	12" O.C.			
CS-WSP	1⁄2" OSB	INTERIOR SHEATHING PER TABLE 602.3(1) OR 602.3(2)	0.0.	12 0.0.			



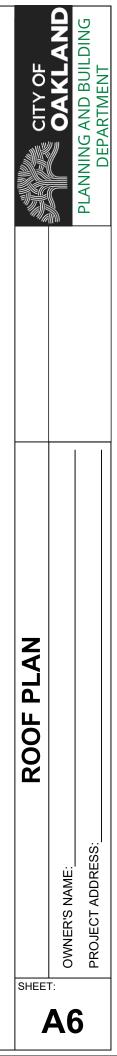


SCALE $\frac{1}{4}$ " = 1'-0"





ROOF PLAN



PLACE SOLAR PANELS IN MOST OPTIMAL POSITION

W/ RADIANT BARRIER SHEATHING

COOL ROOF SHINGLES

R-8 DUCT INSULATION

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

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









