

COMMUNITY DEVELOPMENT CITY OF LAKE ELSINORE NEW (495 SQ. FT.) 1-STORY ACCESSORY DWELLING UNIT (ADU)

ALL PRO DESIGNS

2130 Huntington Drive Unit #310
South Pasadena, CA 91030
Cell: 951-475-0211
email: dionvelasco@gmail.com

PROJECT NAME:

CITY OF LAKE ELSINORE
PERMITTED ADU (495 SF)
PLAN SET

STAMP APPROVAL

REGISTRATION & SIGNATURE

ARCHITECTURAL STYLE EXTERIOR OPTIONS:

SPANISH OR CRAFTSMAN

ISSUES / REVISIONS:

JOB NUMBER: DV2024-006

DESIGNER: DIONICIA VELASCO

PLOT DATE:

PERMIT #

SHEET CONTENTS:
TITLE SHEET, SHEET
INDEX, ABBREVIATIONS, &
PROJECT ANALYSIS

SHEET NUMBER:

T1.0

ABBREVIATIONS

Ø	DIAMETER	CONSTR.	CONSTRUCTION	GA.	GAUGE	N	NORTH	S	SOUTH
sq. ft.	SQUARE FOOT/FEET	CONT.	CONTINUOUS	GALV.	GALVANIZED	N.I.C.	NOT IN CONTRACT	S.A.T.	SUSPENDED ACOUSTICAL
AND	AND	CONTR.	CONTRACTOR	G.C.	GENERAL CONTRACTOR	NO.	NUMBER	TILE	TILE
AT	AT	CTSK	COUNTERSINK	G.I.	GALVANIZED IRON	NOM.	NOMINAL	S.C.	SOLID CORE
CL	CENTERLINE	C.Y.	CUBIC YARD	G.L.B.	GLU-LAM BEAM	N.T.S.	NOT TO SCALE	SCHED.	SCHEDULE
()	POUND OR NUMBER			GL.	GLASS			SECT.	SECTION
	EXISTING	DBL.	DOUBLE	GND.	GROUND	O.A.	OVERALL	SHT.	SHEET
A.B.	ANCHOR BOLT	DEPT.	DEPARTMENT	GR.	GRADE	O.C.	ON CENTER	SHTG.	SHEATHING
ABV.	ABOVE	DET.	DETAIL	GYP.	GYP.UM	Q.D.	OUTSIDE DIAMETER	SM.	SIMILAR
A/C	AIR CONDITIONING	D/F	DOUGLAS FIR	H.B.	HOSE BIBB	OPD.	OVERFLOW DRAIN	SPEC.	SPECIFICATION
A.C.	ASPHALTIC CONCRETE	D.F.A.	DRINKING FOUNTAIN	H.C.	HOLLOW CORE	OPG.	OPENING	SD.	SQUARE
A.D.	AREA DRAIN	DIA.	DIAMETER	HDR.	HEADER	OPP.	OPPOSITE	SSK.	SERVICE SINK
ACOUS	ACOUSTICAL	DN.	DOWN	HDW.	HARDWARE	PART'N	PARTITION	SS.	STAINLESS STEEL
AF	ABOVE FINISH FLOOR	DN	DOWN	HT.	HEIGHT	P.L.	PROPERTY LINE	STD.	STANDARD
ALUM.	ALUMINUM	DR	DOOR	H.M.	HOLLOW METAL	PLAS.	PLASTER	STL.	STEEL
APPROX.	APPROXIMATE	DS	DOWNSPOUT	H.M.	HOLLOW METAL	PLBS.	PLYWOOD	STOR.	STORAGE
ARCH.	ARCHITECTURAL	DWG.	DRAWING	HORIZ	HORIZONTAL	PLYG.	PLYWOOD	STRUCT.	STRUCTURAL
		E	EAST	H.P.	HIGH POINT	PLYWD.	PLYWOOD	S.O.V.	SHUT OFF VALVE
		E.A.	EACH	HTG.	HEATING	P.O.C.	POINT OF CONNECTION	SYM.	SYMMETRICAL
BD.	BOARD	E.C.	EACH	HDWD.	HARDWOOD	PR.	PAIR	T	TEMPERED
BLDG.	BUILDING	E.C.	EXPANSIVE COOLER	HVAC	HEATING, VENTILATION &	P.T.	PRESSURE TREATED	T.B.	TOP OF BEAM
BLK.	BLOCK	E.J.	ELECTRICAL	I.D.	INSIDE DIAMETER	Q.T.	QUARRY TILE	T.C.	TOP OF CURB
BLKG.	BLOCKING	E.L.	ELEVATION	I.E.	INVERT ELEVATION	R.	RADIUS	TEL.	TELEPHONE
BM.	BEAM	E.P.	ELECTRICAL PANEL	IN.	INCH	R.O.D.	ROUGH OPENING	T&G	TONGUE AND GROOVE
B.N.	BOUNDARY NAILING	E.Q.	EQUAL	INSUL.	INSULATION	R.O.	ROUGH OPENING	THK.	THICK
BOT.	BOTTOM	EQUIP.	EQUIPMENT	INT.	INTERIOR	REF.	REFERENCE	T.J.	TRUS JOIST
BTWN.	BETWEEN	E.W.	EACH WAY	JT.	JOINT	REFR.	REFRIGERATOR	T.P.	TOP OF PARAPET
C	CAMBER	EXT.	EXTERIOR	LAM.	LAMINATED	REIN.	REINFORCED	T.S.	TOP OF SHEATHING
CATV	CABLE TELEVISION	EXIS.	EXISTING	LAV.	LAVATORY	REQD.	REQUIRED	T.W.	TOP OF WALL
C.B.	CATCH BASIN	FDN	FOUNDATION	L.V.	LAVATORY	RESIL.	RESILIENT	TP.	TYPICAL
CEM.	CEMENT	F.D.	FLOOR DRAIN	LT.	LIGHT	RM.	ROOM	U.B.C.	UNIFORM BUILDING CODE
CER.	CERAMIC	F.F.	FINISH FLOOR	MAX.	MAXIMUM	R.H.B.	RECESSED HOSE BIBB	U.O.N.	UNLESS OTHERWISE NOTED
C.H.	CEILING HEIGHT	FINL	FINISH	M.B.	MACHINE BOLT	R.O.	ROUGH OPENING	VERT.	VERTICAL
C.H.B.	CONCEALED HOSE BIBB	FLR.	FLOOR	M.ECH.	MECHANICAL	R.O.W.	RIGHT OF WAY	V.T.R.	VENT THROUGH ROOF
C.I.	CAST IRON	FL.	FLOOR	MET.	METAL	R.S.	RESAWN	W	WEST
C/J	CEILING JOIST	FLR.	FLOOR	MFR.	MANUFACTURER			W/	WITH
C.J.	CEILING JOINT	FL.	FLOOR	M.H.	MANHOLE			W/C	WATER CLOSET
CL.	CEILING	FLUR.	FLOOR	MIN.	MINIMUM			WD.	WOOD
CLR.	CLEAR	F.H.	FIRE HYDRANT	MISC.	MISCELLANEOUS			W.H.	WATER HEATER
C.M.U.	CONCRETE MASONRY UNIT	F.O.M.	FACE OF MASONRY	M.O.	MASONRY OPENING			W/O	WITHOUT
C/O	CLEANOUT	F.S.	FACE OF STUD	M.TD.	MOUNTED			W/P.J.	WEAKENED PLAN JOINT
C.O.	CONDUIT ONLY	F.S.	FINISH SURFACE	MTT	MAIN TELEPHONE			W.R.	WATER RESISTANT
COL.	COLUMN	FT.	FOOT/FEET	MUL.	MULLION			W.W.F.	WELDED WIRE FABRIC
CONC.	CONCRETE	FTG.	FOOTING						
CONN.	CONNECTION	FURR.	FURRING						
		FUT.	FUTURE						

PERSPECTIVE



SHEET INDEX

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A-3.0	PROPOSED ELEVATIONS Y PROPOSED SECTION
AE-1.0	PROPOSED ELECTRIC PLAN
R-1.0	RENDERS (SPANISH AND CRAFTSMAN STYLE)
GB-1.0	2022 CAL GREEN BUILDING STANDARDS CODE
GB-2.0	2022 CAL GREEN BUILDING STANDARDS CODE
T-24	TITLE 24
SHT.	STRUCTURAL
S-1	STRUCTURAL NOTES AND DETAILS
S-2	FOUNDATION AND FRAMING PLAN
S-3	STRUCTURAL DETAILS

GRAPHIC SYMBOLS

	DETAIL NUMBER
	SHEET NUMBER
	ELEVATION NUMBER
	SHEET NUMBER
	SECTION ELEVATION NO.
	SHEET NUMBER
	SECTION ELEVATION NO.
	SHEET NUMBER
	BUILDING SECTION NO.
	SHEET NUMBER
	DOOR NUMBER
	WINDOW NUMBER
	ROOM NUMBER
	GRID LINE NUMBER
	FINISH ITEM NUMBER
	SPOT ELEVATION

MATERIAL SYMBOLS

	STUD PARTITION
	MASONRY WALL
	CONCRETE
	EARTH OR COMPACT FILL
	DRAINAGE FILL
	METAL
	BATT INSULATION
	WOOD, CONTINUOUS BLOCKING
	FINISHED WOOD
	GYPSUM WALLBOARD
	PLYWOOD
	RIGID INSULATION
	PARTICLE/FIBER BOARD
	MOISTURE RESISTANT BOARD

PROJECT SUMMARY

**BEST MANAGEMENT PRACTICES
FOR CONSTRUCTION ACTIVITIES***

**Storm Water Pollution Control Requirements for Construction Activities
Minimum Water Quality Protection Requirements for All Development Construction
Projects/Certification Statement**

The following is intended as minimum notes or as an attachment for building and grading plans and represent the minimum standards of good housekeeping that must be implemented on all construction sites regardless of size. (Applies to all permits)

- Every effort should be made to eliminate the discharge of non-stormwater from the project site at all times.
- Eroded sediments and other pollutants must be retained on site and may not be transported from the site via sheetflow, swales, area drains, natural drainage courses or wind.
- Stockpiles of earth and other construction related materials must be protected from being transported from the site by the forces of wind or water.
- Fuels, oils, solvents and other toxic materials must be stored in accordance with their listing and are not to contaminate the soil and surface waters. All approved storage containers are to be protected from the weather. Spills must be cleaned up immediately and disposed of in a proper manner. Spills may not be washed into the drainage system.
- Excess or waste concrete may not be washed into the public way or any other drainage system. Provisions shall be made to retain concrete wastes on site until they can be disposed of as solid waste.
- Trash and construction related solid wastes must be deposited into a covered receptacle to prevent contamination of rainwater and dispersal by wind.
- Sediments and other materials may not be tracked from the site by vehicle traffic. The construction entrance roadways must be stabilized so as to inhibit sediments from being deposited into the public way. Accidental depositions must be swept up immediately and may not be washed down by rain or other means.
- Any slopes with disturbed soils or denuded of vegetation must be stabilized so as to inhibit erosion by wind and water.

*I certify that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I am aware that submitting false and/or inaccurate information, failing to update the ESCP to reflect current conditions, or failing to properly and/or adequately implement the ESCP may result in revocation of grading and/or other permits or other sanctions provided by law.

Print Name _____
(Owner or authorized agent of the owner)

Signature _____ Date _____
(Owner or authorized agent of the owner)

*The above Best Management Practices are detailed in the latest edition of the California BMP Handbook or California Stormwater Quality Handbooks.

SCOPE OF WORK

NEW (495 SQ. FT.) 1-STORY ACCESSORY DWELLING UNIT (ADU)
1-BEDROOM, 1- BATH, KITCHEN LIVING ROOM, & LAUNDRY

CODE COMPLIANCE NOTE:

ALL WORK AND FINAL CONSTRUCTION DOCUMENTS SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, AND LOCAL AMENDMENTS ADOPTED AND IN EFFECT AT THE TIME OF PERMIT APPLICATION AND PLAN CHECK REVIEW.

NOTE:

PRIOR TO COMMENCEMENT OF WORK, IT'S OWNER'S/ CONTRACTOR RESPONSIBILITY TO VERIFY ALL PROPERTY LINES. A PROFESSIONAL SURVEYOR IS RECOMMENDED IF OWNER/ CONTRACTOR CAN NOT DETERMINE SUCH PROPERTY LINE. DESIGNER/ ENGINEER SHOULD BE CONTACTED AND NOTIFY OF ANY DISCREPANCIES PRIOR TO BEGINNING OF WORK.

DEFERRED SUBMITTAL:

- MECHANICAL
- ELECTRICAL
- PLUMBING
- SEWER
- GAS
- WATER
- SOLAR PANEL
- FIRE SPRINKLERS IF MAIN HOUSE HAS SPRINKLERS

PROJECT DIRECTORY

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TITLE 24 CALCULATIONS: PERFECT DESIGN
MECHANICAL, ELECTRICAL, PLUMBING
ENGINEER
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FAX: (626) 289-4913

GENERAL CONTRACTOR: T.B.D./ OWNER BUILDER

ALL PRO DESIGNS

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ISSUES / REVISIONS:

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PLOT DATE:

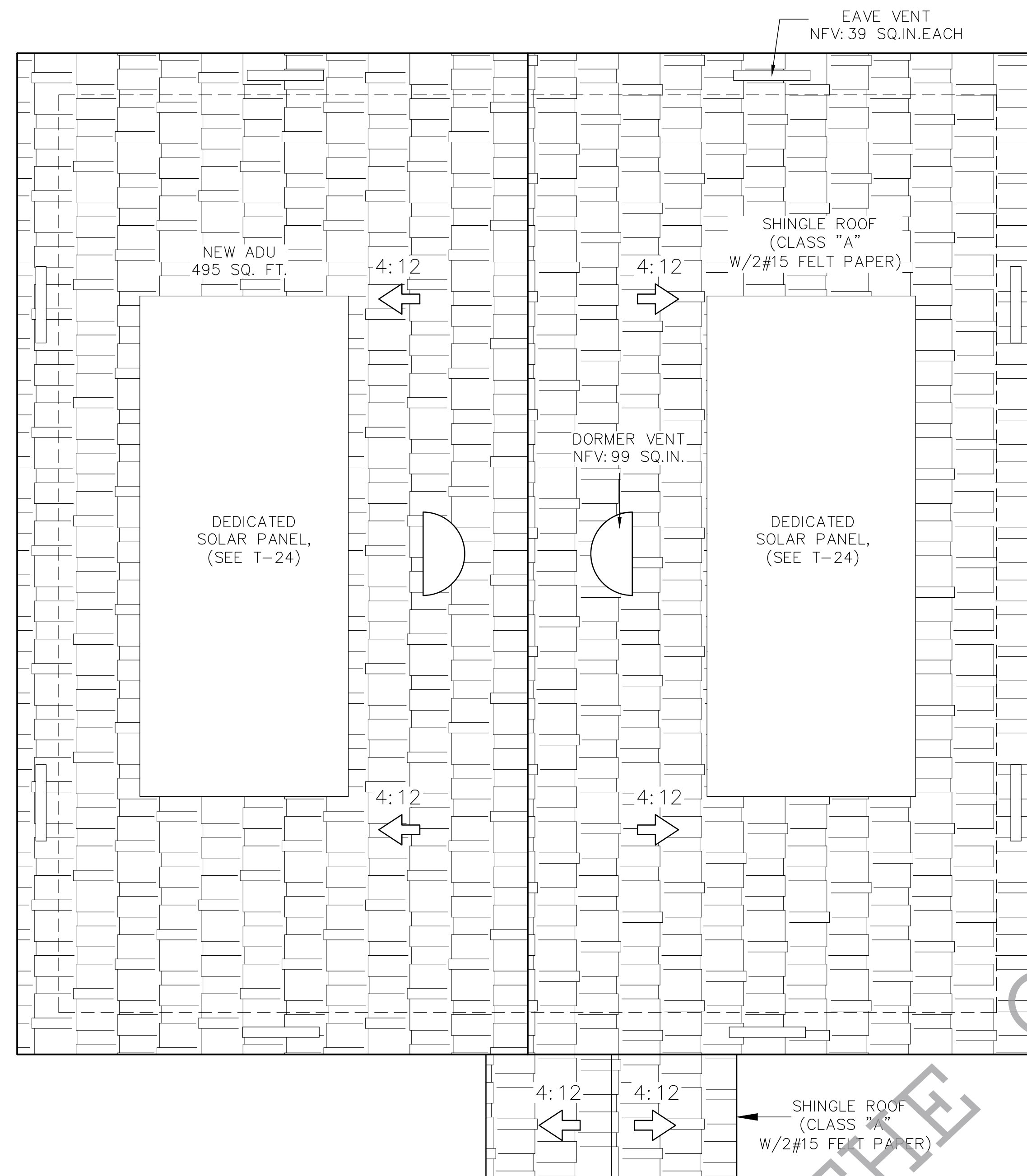
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SHEET CONTENTS:

**PROPOSED ROOF &
FLOOR PLAN**

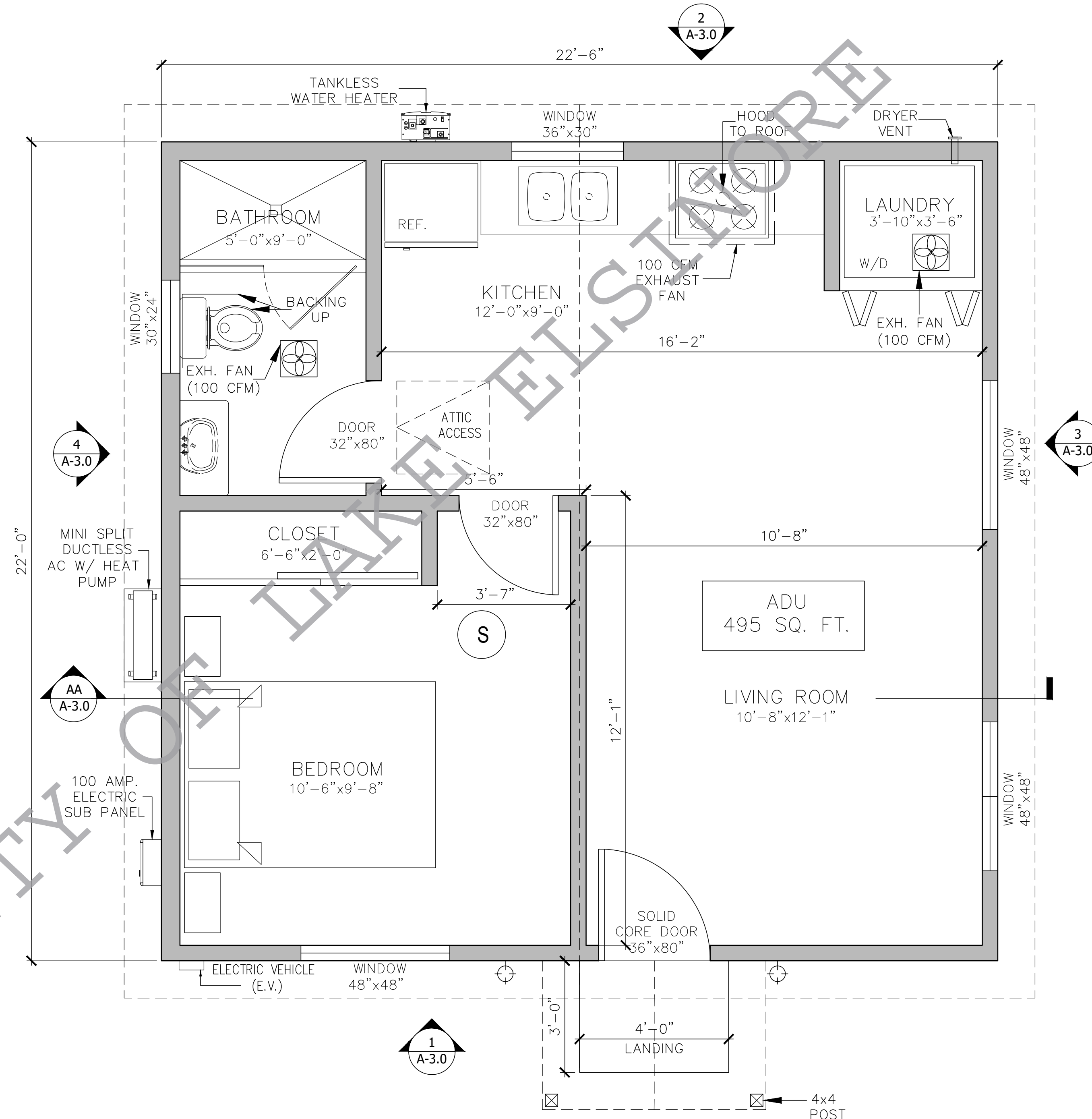
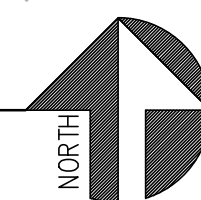
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A-2.0



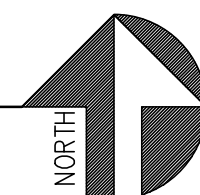
1 PROPOSED ROOF PLAN (ADU)

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



2 PROPOSED FLOOR PLAN (ADU)

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



WALL LEGEND

NEW STUD WALL 2x4 @ 16" TYPE 'X' & W.P. AT WET WALL

ELECTRICAL LEGEND

EXHAUST FAN (100 CFM) HUMIDITY CONTROLLED PER CALGREEN 4.506.1

FIRE PROTECTION

KIDDE COMBINATION SMOKE AND CARBON MONOXIDE ALARM BATTERY OPERATED WITH VOICE ALERT. MODEL # : KN-COSM-XRT-B HARDWIRES W/ BATTERY BACKUP NOTE: INSTALL WHERE NOT PRESENT & REQUIRED

SMOKE DETECTOR, HARDWIRED WITH BATTERY BACKUP (ONLY). INSTALL IF NOT PRESENT OR REPLACE FOR REQUIRED (WHERE MORE THAN ONE (1) CARBON MONOXIDE ALARM IS REQUIRED THEY SHALL BE INTERCONNECTED SO THAT THE ACTIVATION OF ONE (1) ALARM WILL ACTIVATE ALL ALARMS)

ATTIC VENTILATION CALCULATIONS (ADU):

ATTIC VENTS SHALL MEET THE FOLLOWING: (R806.1, R806.2) THE NET FREE VENTILATING AREA SHALL NOT BE LESS THAN: 1/150 OF THE ATTIC SPACE OR 1/300 PROVIDED AT LEAST 40% AND NOT MORE THAN 50% OF THE REQUIRED VENT AREA IS LOCATED WITHIN 3 FEET BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE, WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY EAVE OR CORNICE VENTS.

- ATTIC AREA FOR ADU : 495 SQ.FT.
- REQUIRED VENTILATION = 495 SQ. FT. X 1/150 X 144 = 3.3 SQ. FT. = 475.2 SQ. IN.
- VENTILATION AREA REQUIRED AT DORMER VENTS OR EAVE VENTS = 475.2 SQ. IN.
- NET FREE VENTILATION (NFV) FOR 24" X 12" LOUVER ATTIC VENT = 99 SQ. IN. 2 X 99 SQ. IN. = 198 SQ. IN. (PROVIDED)
- 5.2 SQ. IN. (REQUIRED) - 198 SQ. IN. = 277.2 SQ. IN. REMAINING
- NET FREE VENTILATION (NFV) FOR 3" X 22" EAVE VENT = 39 SQ. IN. 277.2 SQ. IN. (REMAINING) / 39 SQ. IN. PER VENT = 8 EAVE VENT

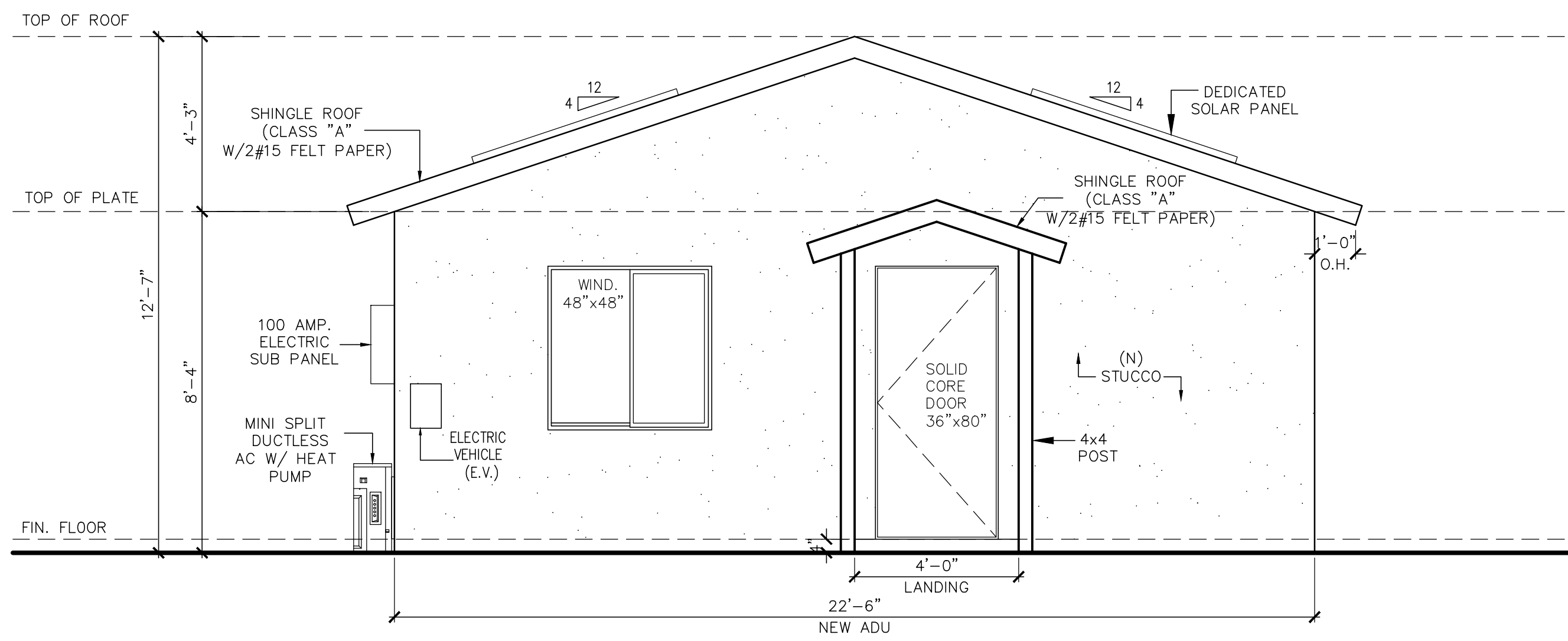
TOTAL VENTS REQUIRED:

TOTAL VENTILATION PROVIDED:
2 DORMER VENT @ 99 SQ. IN. NFV = 198 SQ. IN. NFV
8 EAVE VENT @ 39 SQ. IN. NFV = 312 SQ. IN. NFV
TOTAL VENTILATION PROVIDED = 510 SQ. IN. NFV
TOTAL VENTILATION REQUIRED = 475.2 SQ. IN. NFV

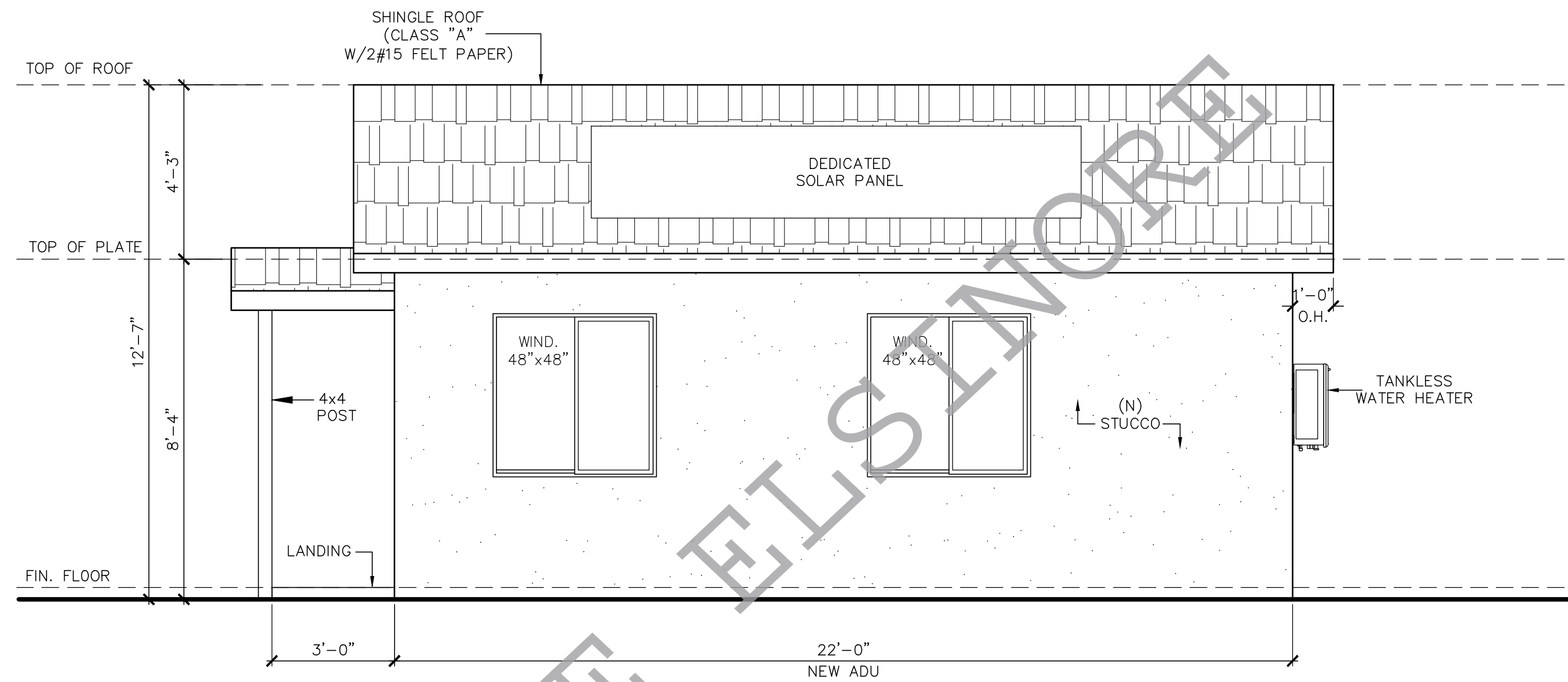
510 SQ. IN. PROVIDED > 475.2 SQ. IN. REQUIRED

NOTES:

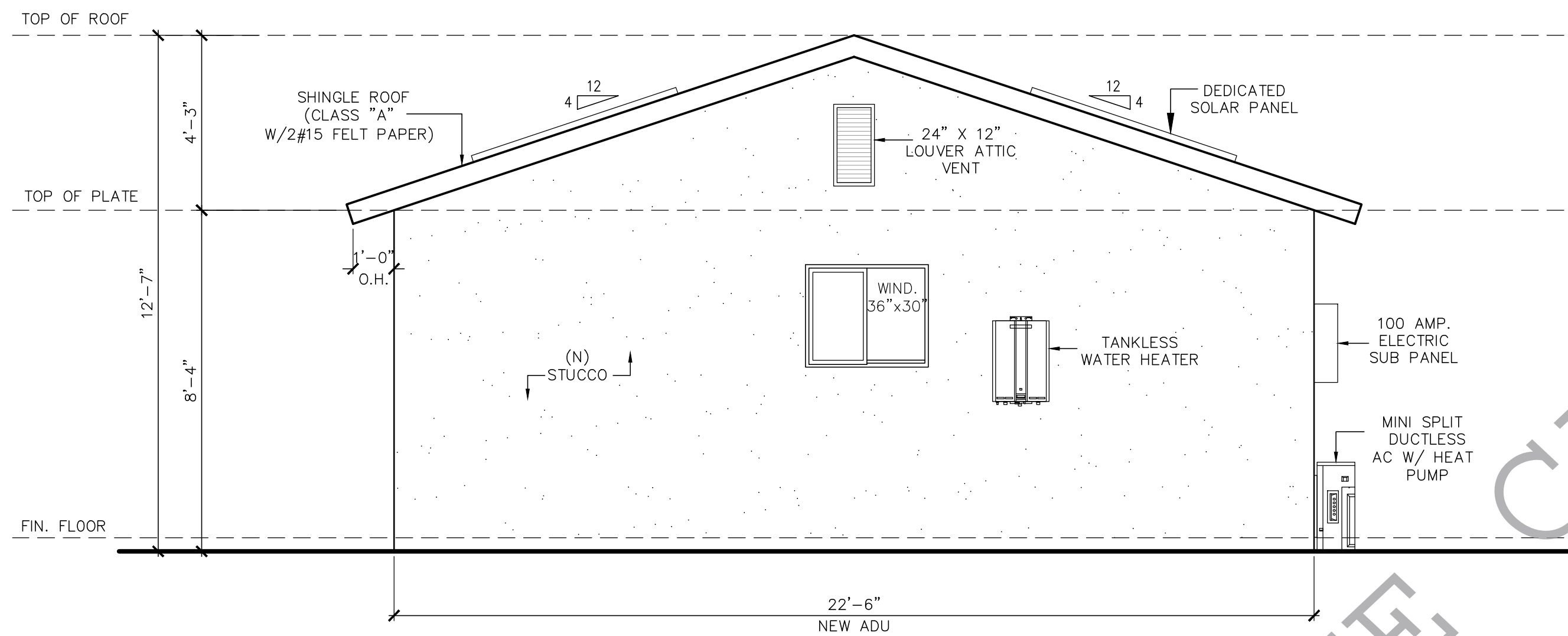
- ALL UTILITIES MUST BE INSTALLED SEPARATELY SEWER, GAS, WATER, AND ELECTRICITY.
- NEW ADU MUST HAVE SOLAR PANEL (SEE TITLE 24)
- WINDOW U FACTOR 0.3, SHGC=0.23



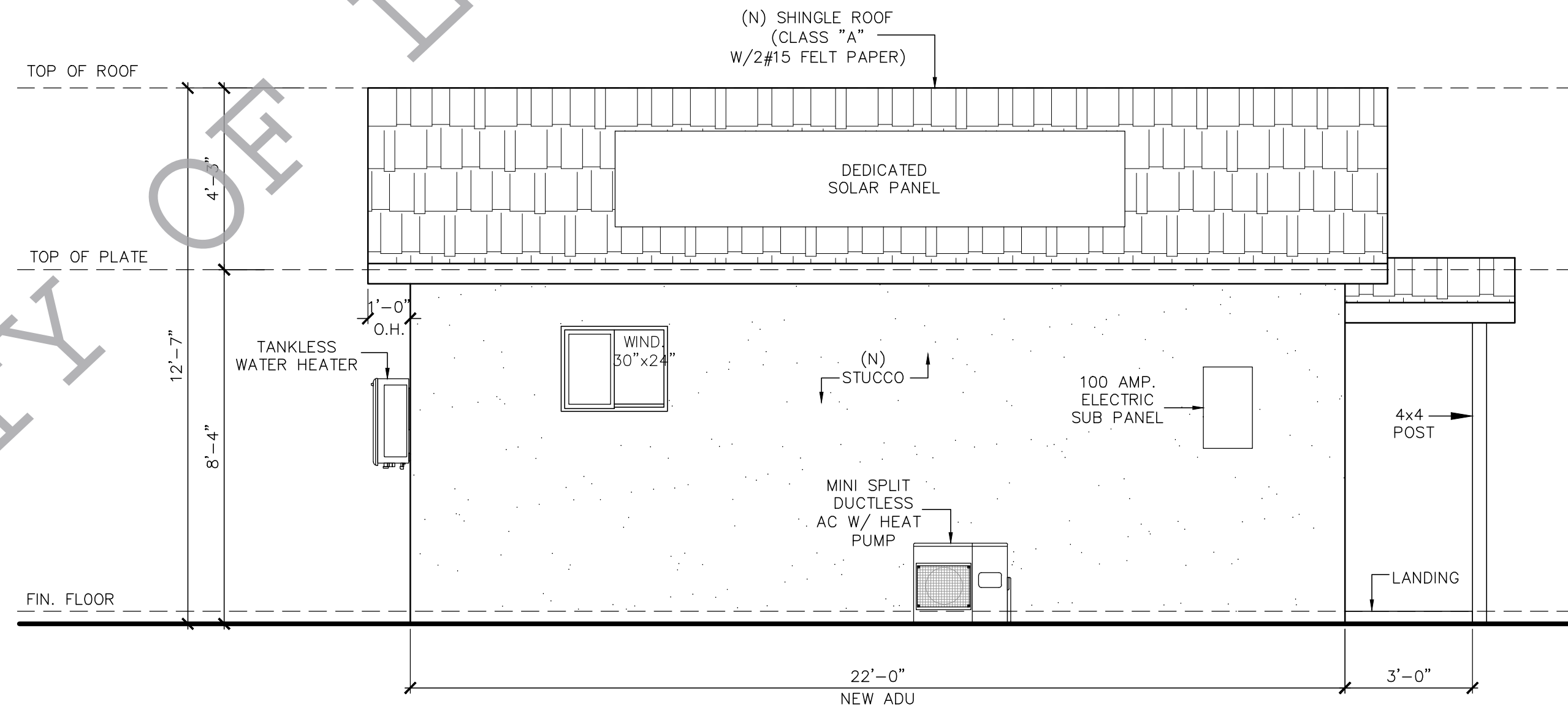
1 PROPOSED SOUTH ELEVATION
SCALE 3/8"=1'-0"



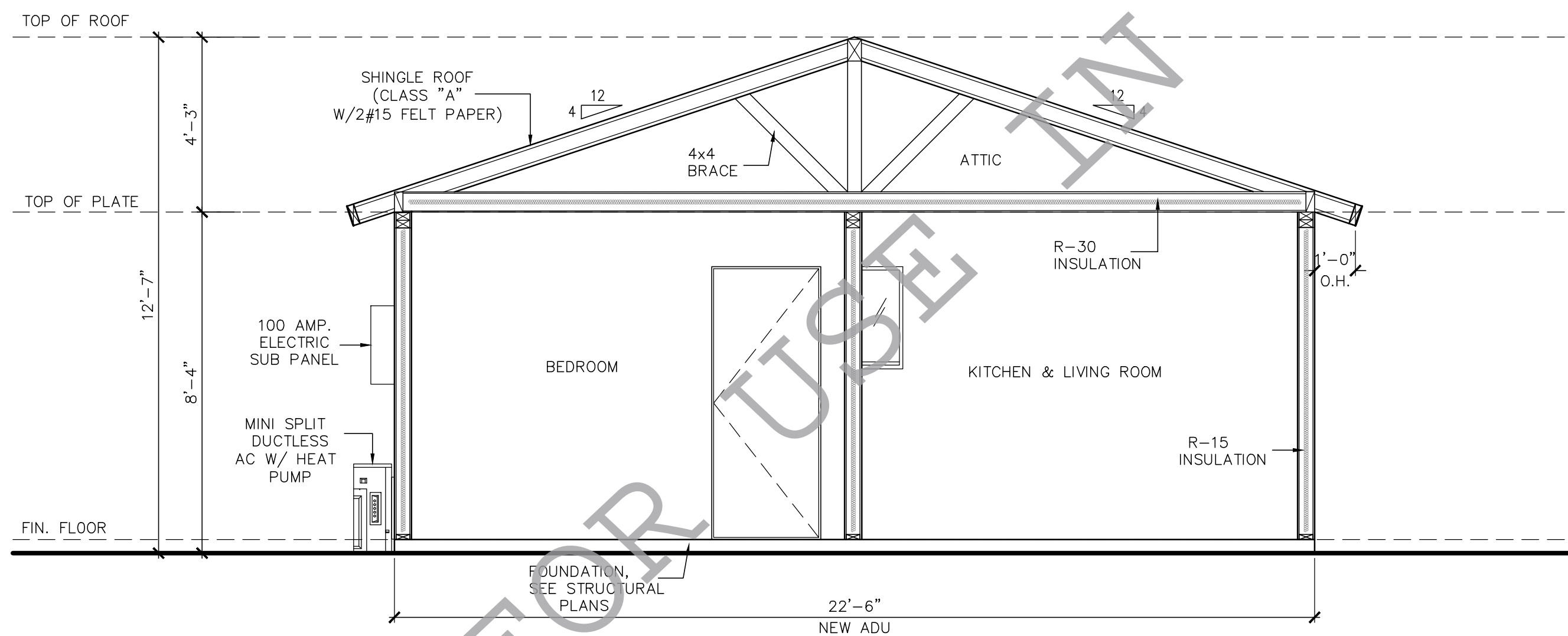
3 PROPOSED EAST ELEVATION
SCALE 3/8"=1'-0"



2 PROPOSED NORTH ELEVATION
SCALE 3/8"=1'-0"



4 PROPOSED WEST ELEVATION
SCALE 3/8"=1'-0"



A-A PROPOSED SECTION
SCALE 3/8"=1'-0"

NOTE:
 1. WINDOW U FACTOR 0.3, SHGC=0.23
 2. ARCHITECTURAL STYLE EXTERIOR OPTIONS: SPANISH OR CRAFTSMAN, SEE SHEET P-1.0.
 3. MATCH EXISTING

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SHEET CONTENTS:
**PROPOSED ELEVATIONS
& SECTION**

SHEET NUMBER:

A-3.0

ELECTRICAL NOTES:

- EVERY KITCHEN, FAMILY ROOM, DINING ROOM, PARLOR, LIBRARY, DEN, SUNROOM, BEDROOM, RECREATION ROOM, OR SIMILAR ROOM OR AREA SHALL HAVE RECEPTACLE OUTLETS INSTALLED IN ACCORDANCE WITH:
 - RECEPTACLES SHALL BE INSTALLED SO THAT NO POINT MEASURED HORIZONTALLY ALONG THE FLOOR LINE IN ANY WALL SPACE IS MORE THAN 6 FT. FROM A RECEPTACLE OUTLET.
 - WALL SPACE SHALL INCLUDE: 1) ANY SPACE 2 FT. OR MORE IN WIDTH (INCLUDING SPACE MEASURED AROUND CORNERS) AND UNBROKEN ALONG THE FLOOR LINE BY DOORWAYS, FIREPLACES AND SIMILAR OPENINGS; 2) THE SPACE OCCUPIED BY FIXED PANELS IN EXTERIOR WALL, EXCLUDING SLIDING PANELS. 3) THE SPACE AFFORDED BY FIXED ROOM DIVIDERS SUCH AS FREESTANDING BAR-TYPE COUNTERS OR RAILINGS.
- RECEPTACLE OUTLETS SHALL BE INSTALLED IN ACCORDANCE WITH:
 - AT LEAST ONE OUTLET ACCESSIBLE AT GRADE LEVEL AND NOT MORE THAN 6-1/2 FT. ABOVE GRADE SHALL BE INSTALLED AT THE FRONT AND BACK OF THE DWELLING.
 - ON RECEPTACLE OUTLET WITHIN 3-FT. OF THE WATER HEATER.
- A 125-VOLT, 15-OR 20-AMPERE-RATED RECEPTACLE OUTLET SHALL BE INSTALLED AT AN ACCESSIBLE LOCATION FOR THE SERVICING OF HEATING, AIR CONDITIONING, AND REFRIGERATION EQUIPMENT. THE OUTLET SHALL BE INSTALLED AT THE SAME LEVEL AND WITHIN 25-FT. OF THE EQUIPMENT.
- INDICATE THAT THE RECEPTACLE SERVING THE KITCHEN APPLIANCES SHALL BE ON A DEDICATED CIRCUIT.
- ALL Q25-VOLT, SINGLE-PHASE, 15-AND 20-AMPERE RECEPTACLES SHALL HAVE A GROUND-Fault CIRCUIT-INTERRUPTER (GFCI OR GFI) PROTECTION WHEN INSTALLED IN THE FOLLOWING LOCATIONS:
 - KITCHEN COUNTERTOPS
 - WHITING 6-FT OF SINK
 - LAUNDRY
 - OUTDOORS (WEATHER-RESISTIVE, TOO)
- ALL 120-VOLT, SINGLE-PHASE 15-AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER (AFCI), COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT WHEN INSTALLED IN THE SINGLE-FAMILY RESIDENCE (BATHROOM & GARAGES ARE EXEMPT).
- GFCI & AFCI PROTECTION SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION.
- PER HIGH EFFICACY LIGHTING REQUIREMENTS OF THE ENERGY CODE, THE LIGHTING SHALL COMPLY WITH THE FOLLOWING:
 - ALL INTERIOR LIGHTING SHALL BE HIGH EFFICACY.
 - IF IAS LISTED (LED), THEN LIGHTING SHALL BE CONTROLLED BY DIMMER OR VACANCY SENSOR.
 - BATHROOMS AND LAUNDRY SHALL BE PROVIDED WITH AT LEAST ONE HIGH EFFICACY LIGHTING FIXTURE CONTROLLED BY A VACANCY SENSOR.
 - EXTERIOR LIGHTING ATTACHED TO THE STRUCTURE SHALL BE HIGH EFFICACY AND MUST BE CONTROLLED BY A MANUAL ON AND OFF SWITCH AND ONE OF THE FOLLOWING AUTOMATIC CONTROL TYPES:
 - PHOTOCONTROL AND MOTION SENSOR
 - PHOTOCONTROL AND AUTOMATIC TIME SWITCH CONTROL.
- ALL 15- AND 20- AMPERE, 125- AND 250-VOLT NON-LOCKING RECEPTACLES THAT ARE INSTALLED ON THE EXTERIOR OF A DWELLING UNIT AND LOCATED IN DAMP OR WET LOCATIONS, SHALL BE LISTED AS WEATHER-RESISTANT TYPE. [CEC 406.9(A)&(B)] INDIVIDUAL DEDICATED CIRCUITS ARE REQUIRED FOR ALL MAJOR APPLIANCES. THE RATING OF AN INDIVIDUAL BRANCH CIRCUIT SHALL NOT BE LESS THAN THE MARKED RATING OF THE APPLIANCES OR THE MARKED RATING OF THE APPLIANCES HAVING COMBINED LOADS AS PROVIDED IN 422.62. [CEC 210.11(C) & 422.10(A)] DEDICATED 20-AMP CIRCUIT FOR BATHROOM, 20-AMP CIRCUIT FOR LAUNDRY ROOM AND A MINIMUM OF (2) 20-AMP CIRCUIT FOR SMALL APPLIANCES AT KITCHEN.

FIRE PROTECTION

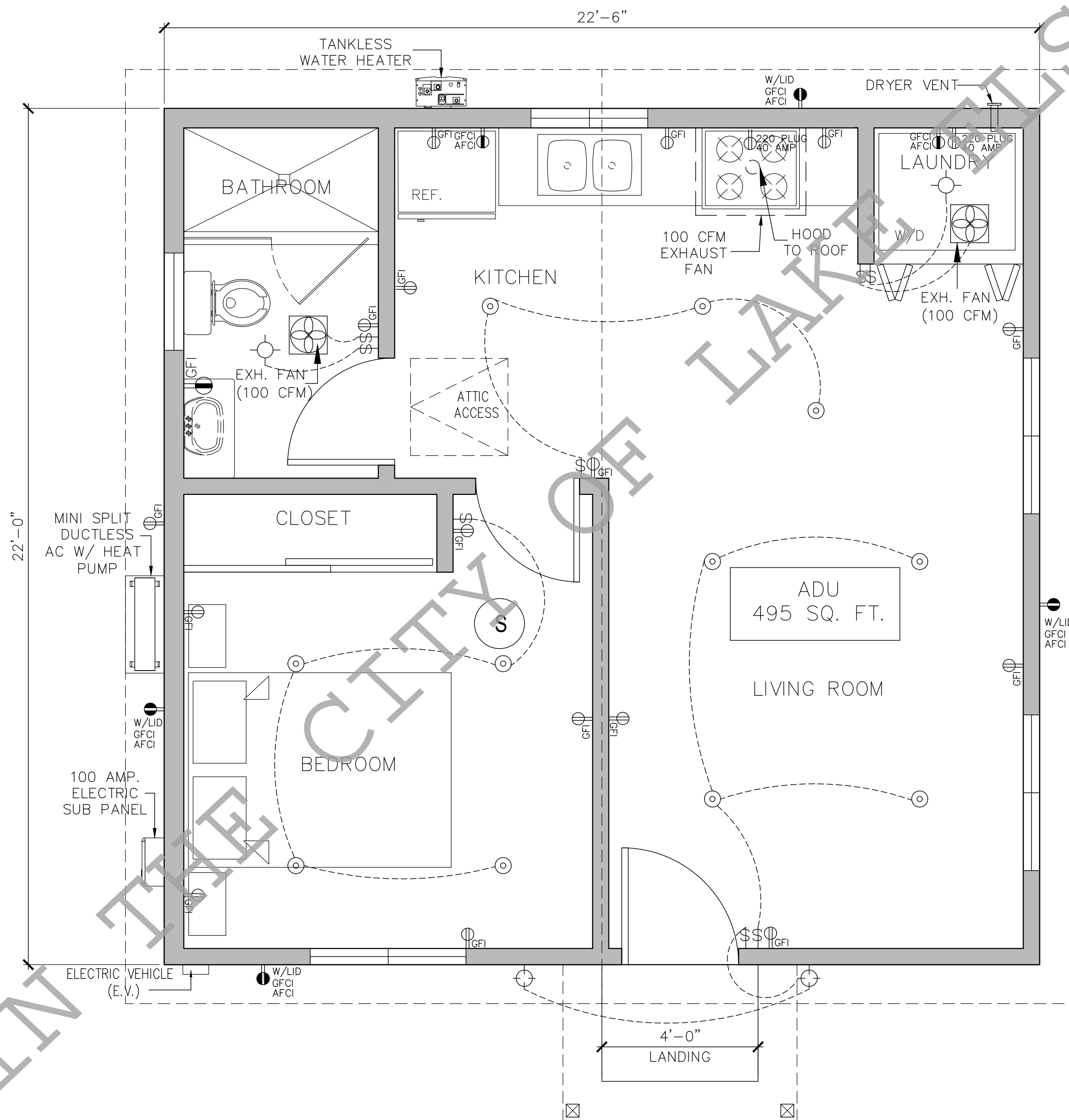
- ③ KIDDE COMBINATION SMOKE AND CARBON MONOXIDE ALARM BATTERY OPERATED WITH VOICE ALERT.
MODEL # : KN-COSM-XRT-B
HARDWIRES W/ BATTERY BACKUP
NOTE: INSTALL WHERE NOT PRESENT & REQUIRED
- ⑤ SMOKE DETECTOR, HARDWIRED WITH BATTERY BACKUP (ONLY). INSTALL IF NOT PRESENT OR REPLACE FOR REQUIRED
(WHERE MORE THAN ONE (1) CARBON MONOXIDE ALARM IS REQUIRED THEY SHALL BE INTERCONNECTED SO THAT THE ACTIVATION OF ONE (1) ALARM WILL ACTIVATE ALL ALARMS)

ELECTRICAL LEGEND

- ⊘ EXHAUST FAN (100 CFM)
HUMIDITY CONTROLLED PER CALGREEN 4.506.1
- ⊘_{AFCI} ELECTRICAL OUTLET, TYP., AFCI
- ⊘_W ELECTRICAL OUTLET ABOVE COUNTER OR 36" OFF GROUND, (AFCI, GFCI)
- ⊘_W GFCI ELECTRICAL OUTLET (W) - WALL MOUNTED OUTLET, AFCI
- ⊘ ELECTRICAL OUTLET W/ LID, AFCI, GFCI
- ⊘ LIGHT SWITCH WITH WHITE FACEPLATE
- ⊘ LED TYPE LIGHT FIXTURE
- ⊘ 6" RECESSED LIGHT FIXTURE
- ⊘ WALL MOUNTED LIGHT (LED TYPE)

WALL LEGEND

- ▬ :NEW STUD WALL 2x4 @ 16" TYPE 'X' & W.P. AT WET WALL



1 PROPOSED ELECTRIC PLAN (ADU) SCALE : 1/2"=1'-0" NORTH

ALL PRO DESIGNS

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SPANISH OR CRAFTSMAN

ISSUES / REVISIONS:

JOB NUMBER: DV2024-006
DESIGNER: DIONICIA VELASCO
PLOT DATE:

PERMIT #

SHEET CONTENTS:
PROPOSED ELECTRIC PLAN

SHEET NUMBER:
AE-1.0

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES, SHEET 1 (July 2024 Supplement)

ALL PRO DESIGNS

2130 Huntington Drive Unit #310
South Pasadena, CA 91030
Cell: 951-475-0211
email: dionvelasco@gmail.com

PROJECT NAME:

CITY OF LAKE ELSINORE
PERMITTED ADU (495 SF)
PLAN SET

STAMP APPROVAL

REGISTRATION & SIGNATURE

ARCHITECTURAL STYLE EXTERIOR OPTIONS:

SPANISH OR CRAFTSMAN

ISSUES / REVISIONS:

JOB NUMBER: DV2024-006

DESIGNER: DIONICIA VELASCO

PLOT DATE:

PERMIT #

SHEET CONTENTS:
**2022 CAL GREEN
BUILDING
STANDARDS CODE**

SHEET NUMBER:

GB-1

Y	N/A	RESPON. PARTY	Y	N/A	RESPON. PARTY	Y	N/A	RESPON. PARTY	Y	N/A	RESPON. PARTY
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CHAPTER 3 GREEN BUILDING SECTION 301 GENERAL											
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.											
301.1.1 Additions and alterations. [HCD] 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.											
301.1.2 Additions and alterations. [HCD] The mandatory provisions of Chapter 4 shall be applied to additions or alterations of existing parking facilities serving existing multifamily buildings. See Section 4.106.4.3 for application.											
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.											
Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or improvements shall replace noncompliant 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.											
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 or high-rise residential buildings, or both. Individual sections will be designated by banners to indicate where the section applies specifically to low-rise only (LR) or high-rise only (HR). When the section applies to both low-rise and high-rise buildings, no banner will be used.											
SECTION 302 MIXED OCCUPANCY BUILDINGS											
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.											
Exceptions:											
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.											
DIVISION 4.1 PLANNING AND DESIGN											
ABBREVIATION DEFINITIONS:											
HCD Department of Housing and Community Development											
BSC California Building Standards Commission											
DSA-SS Division of the State Architect, Structural Safety											
OSH/PD Office of Statewide Health Planning and Development											
LR Low Rise											
HR High Rise											
AA Additions and Alterations											
N New											
CHAPTER 4 RESIDENTIAL MANDATORY MEASURES											
SECTION 4.102 DEFINITIONS											
4.102.1 DEFINITIONS											
The following terms are defined in Chapter 2 (and are included here for reference)											
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.											
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.											
4.106 SITE DEVELOPMENT											
4.106.1 GENERAL. Preservation and use of available natural resources shall be accomplished through evaluation and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes, management of storm water drainage and erosion controls shall comply with this section.											
4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. Projects which disturb less than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre or more, shall manage storm water drainage during construction. In order to manage storm water drainage during construction, one or more of the following measures shall be implemented to prevent flooding of adjacent property, prevent erosion and retain soil runoff on the site.											
1. Retention basins of sufficient size shall be utilized to retain storm water on the site.											
2. Where storm water is conveyed to a public drainage system, collection point, gutter or similar disposal method, water shall be filtered by use of a barrier system, wattle or other method approved by the enforcing agency.											
3. Compliance with a lawfully enacted storm water management ordinance.											
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.											
(Website: https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html)											
4.106.3 GRADING AND PAVING. Construction plans shall indicate how the site grading or drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:											
1. Swales											
2. Water collection and disposal systems											
3. French drains											
4. Water retention gardens											
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.											
Exception: Additions and alterations not altering the drainage path.											
4.106.4 Electric vehicle (EV) charging for new construction. New construction shall comply with Section 4.106.4.1 or 4.106.4.2. Electric vehicle supply equipment (EVSE) shall comply with the California Electrical Code.											
Exceptions:											
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:											
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 related 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.											
4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure 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 for installation of a branch circuit overcurrent protective device.											
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.											
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".											

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.106.4.2 New multifamily dwellings, hotels and motels and new residential parking facilities. When parking is provided, parking spaces for new multifamily dwellings, hotels and motels shall meet the requirements of Section 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 an 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.											
4.106.4.2.1 Reserved.											
4.106.4.2.2 Multifamily dwellings, hotels and motels											
1. EV ready parking spaces with receptacles.											
a. Hotels and motels. Forty (40) percent of the total number of parking spaces shall be equipped with low power Level 2 EV charging receptacles.											
b. Multifamily parking facilities. Forty (40) percent of the total number of parking spaces shall be equipped with low power Level 2 EV charging receptacles. EV charging receptacles required by this section shall be located in at least one assigned parking space per dwelling unit where assigned parking is provided but need not exceed forty (40) percent of the total number of assigned parking spaces provided on the site.											
Exception: Areas of parking facilities served by parking lifts, including but not limited to automated mechanical-access open parking garages as defined in the California Building Code; or parking facilities otherwise incapable of supporting electric vehicle charging.											
c. Receptacle power source. EV charging receptacles in multifamily parking facilities shall be provided with a dedicated branch circuit connected to the dwelling unit's electrical panel, unless determined as infeasible by the project builder or designer and subject to concurrence of the local enforcing agency.											
Exception: Areas of parking facilities served by parking lifts, including but not limited to automated mechanical-access open parking garages as defined in the California Building Code; or parking facilities otherwise incapable of supporting electric vehicle charging.											
d. Receptacle configurations. 208/240V EV charging receptacles shall comply with one of the following configurations:											
1. For 20-ampere receptacles, NEMA 6-20R											
2. For 30-ampere receptacles, NEMA 14-30R											
3. For 50-ampere receptacles, NEMA 14-50R											
2. EV ready parking spaces with EV chargers.											
a. Hotels and motels. Ten (10) percent of the total number of parking spaces shall be equipped with Level 2 EV chargers. At least fifty (50) percent of the required EV chargers shall be equipped with J1772 connectors.											
b. Multifamily parking facilities. Ten (10) percent of the total number of parking spaces shall be equipped with Level 2 EV chargers. At least fifty (50) percent of the required EV chargers shall be equipped with J1772 connectors. Where common use parking or unassigned parking is provided, EV chargers shall be located in common use or unassigned parking areas and shall be available for use by all residents or guests.											
Where low power Level 2 EV charging receptacles or Level 2 EV chargers are installed beyond the minimum required, an automatic load management system (ALMS) may be used to reduce the maximum required electrical capacity to each space served by the ALMS. The electrical system and any on-site distribution transformers shall have sufficient capacity to deliver at least 3.3 kW simultaneously to each EV charging station (EVCS) served by the ALMS. The branch circuit shall have a minimum capacity of 40 amperes, and installed EV chargers shall have a capacity of not less than 30 amperes.											
4.106.4.2.2.1 Electric vehicle charging stations (EVCS). Electric vehicle charging stations required by Section 4.106.4.2.2, Item 2, with EV chargers installed shall comply with Section 4.106.4.2.2.1.1.											
Exception: Electric vehicle charging stations serving public accommodations, public housing, hotels and motels shall not be required to comply with this section. See California Building Code, Chapter 11B, for applicable requirements.											
4.106.4.2.2.1.1 Electric vehicle charging stations (EVCS) spaces with EV chargers installed; dimensions and location.											
EVCS spaces shall be designed to comply with the following:											
1. The minimum length of each EVCS space shall be 18 feet (5486 mm).											
2. The minimum width of each EVCS space shall be 9 feet (2743 mm).											
3. One in every 25 EVCS spaces, but not less than one, shall also have an 8-foot (2438 mm) wide minimum aisle. A 5-foot (1524 mm) wide minimum aisle shall be permitted provided the minimum width of the EVCS space is 12 feet (3658 mm). Surface slope for this EVCS space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 percent slope) in any direction. These EVCS spaces shall also comply with at least one of the following:											
a. The EVCS space shall be located adjacent to an accessible parking space meeting the requirements of the California Building Code, Chapter 11A, to allow use of the EV charger from the accessible parking space.											
b. The EVCS space shall be located on an accessible route, as defined in the California Building Code, Chapter 2, to the building.											
Exception: Electric vehicle charging stations designed and constructed in compliance with the California Building Code, Chapter 11B, are not required to comply with Section 4.106.4.2.2.1.1.											
4.106.4.2.2.1.2 Accessible electric vehicle charging station spaces.											
In addition to the requirements in Section 4.106.4.2.2.1.1, all EV chargers, where installed, shall comply with accessibility provisions for EV chargers in the California Building Code, Chapter 11B. EV ready spaces and EVCS in multifamily developments shall comply with California Building Code, Chapter 11A, Section 1109A.											
4.106.4.2.3 Reserved.											
4.106.4.2.4 Reserved.											
4.106.4.3 Electric vehicle charging for additions and alterations of parking facilities serving existing multi-family buildings.											
Where 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 EV capable spaces to support future Level 2 electric vehicle supply equipment. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE".											
Notes:											
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.											

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DIVISION 4.2 ENERGY EFFICIENCY											
4.201 GENERAL											
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.											
DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION											
4.303 INDOOR WATER USE											
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 4.303.1.4.											
Note: All noncompliant plumbing fixtures in any residential real property shall be replaced 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.											
4.303.1.1 Water Closets. The effective flush volume of dual flush toilets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-type Toilets.											
Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.											
4.303.1.2 Urinals. The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush. The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush.											
4.303.1.3 Showerheads.											
4.303.1.3.1 Single Showerhead. Showerheads shall have a maximum flow rate of not more than 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.											
4.303.1.3.2 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.											
Note: A hand-held shower shall be considered a showerhead.											
4.303.1.4 Faucets.											
4.303.1.4.1 Residential Lavatory Faucets. The maximum flow rate of residential lavatory faucets shall not exceed 1.2 gallons per minute at 80 psi. The minimum flow rate of residential lavatory faucets shall not be less than 0.8 gallons per minute at 20 psi.											
4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas. The maximum flow rate of lavatory faucets installed in common and public use areas (outside of dwellings or sleeping units) in residential buildings shall not exceed 0.5 gallons per minute at 80 psi.											
4.303.1.4.3 Metering Faucets. Metering faucets when installed in residential buildings shall not deliver more than 0.2 gallons per cycle.											
4.303.1.4.4 Kitchen Faucets. The maximum flow rate of kitchen faucets shall not exceed 1.8 gallons per minute at 80 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 80 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 80 psi.											
Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.											
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.											
FOR REFERENCE ONLY: The following table and code section have been reprinted from the California Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.3 (h)(4) and Section 1605.3 (h)(4)(A).											
TABLE F-2											
STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALVES MANUFACTURED ON OR AFTER JANUARY 28, 2019											
PRODUCT CLASS [spray force in ounces-force (ozf)]											
MAXIMUM FLOW RATE (gpm)											
Product Class 1 (≤ 5.0 ozf)											
1.00											
Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf)											
1.20											
Product Class 3 (> 8.0 ozf)											
1.28											
Title 20 Section 1605.3 (h)(4)(A). Commercial pre-rinse spray valves manufactured on or after January 1, 2006, shall have a minimum spray force of not less than 4.0 ounces-force (ozf) [113 grams-force (gf)]											
4.303.2 Submeters for multifamily buildings and dwelling units in mixed-used residential-commercial buildings.											
Submeters shall be installed to measure water usage of individual retail dwelling units in accordance with the California Plumbing Code.											
4.303.3 Standards for plumbing fixtures and fittings. Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of the California Plumbing Code.											
NOTE: THIS TABLE COMPLETES THE DATA IN SECTION 4.303.1, AND IS INCLUDED AS A CONVENIENCE FOR THE USER.											
TABLE - MAXIMUM FIXTURE WATER USE											
FIXTURE TYPE											
FLOW RATE											
SHOWER HEADS (RESIDENTIAL)											
1.8 GMP @ 80 PSI											
LAVATORY FAUCETS (RESIDENTIAL)											
MAX. 1.2 GPM @ 80 PSI MIN. 0.8 GPM @ 20 PSI											
LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS											
0.5 GPM @ 80 PSI											
KITCHEN FAUCETS											
1.8 GPM @ 80 PSI											
METERING FAUCETS											
0.2 GAL/CYCLE											
WATER CLOSET											
1.28 GAL/FLUSH											
URINALS											
0.125 GAL/FLUSH											

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4.304 OUTDOOR WATER USE											
4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Residential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.											
NOTES:											
1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code Regulations, Title 23, Chapter 2.7, Division 2. MWELO and supporting documents, including water budget calculator, are available at: https://www.water.ca.gov/											
DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY											
4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE											
4.406.1 RODENT PROOFING. Annular spaces around pipes, electric cables, conduits or other openings in solebottom plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing agency.											
4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING											
4.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65 percent of the non-hazardous construction and demolition waste in accordance with either Section 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste management ordinance.											
Exceptions:											
1. Excavated soil and land-clearing debris.											
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably close to the jobsite.											
The enforcing agency may make exceptions to the requirements of this section when isolated jobsites are located in areas beyond the haul boundaries of the diversion facility.											
4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN. Submit a construction waste management plan in conformance with Items 1 through 5. The construction waste management plan shall be updated as necessary and shall be available during construction for examination by the enforcing agency.											
1. Identify the construction and demolition waste materials to be diverted from disposal by recycling, reuse on the project or salvage for future use or sale.											
2. Specify if construction and demolition waste materials will be sorted on-site (source separated) or bulk mixed (single stream).											
3. Identify diversion facilities where the construction and demolition waste material collected will be taken.											
4. Identify construction methods employed to reduce the amount of construction and demolition waste generated.											
5. Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.											
4.408.3 WASTE MANAGEMENT COMPANY. Utilize a waste management company, approved by the enforcing agency, which can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with Section 4.408.1.											
Note: The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste management company.											
4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 lbs./sq.ft. of the building area shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1.											
4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 2 pounds per square foot of the building area, shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1.											
4.408.5 DOCUMENTATION. Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 4.408.2, Items 1 through 5, Section 4.408.3 or Section 4.408.4.											
Notes:											
1. Sample forms found in "A Guide to the California Green Building Standards Code (Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in documenting compliance with this section.											
2. Mixed construction and demolition debris (C & D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).											
4.410 BUILDING MAINTENANCE AND OPERATION											
4.410.1 OPERATION AND MAINTENANCE MANUAL. At the time of final inspection, a manual, compact disc, web-based reference or other media acceptable to the enforcing agency which includes all of the following shall be placed in the building:											
1. Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure.											
2. Operation and maintenance instructions for the following:											
a. Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major appliances and equipment.											
b. Roof and yard drainage, including gutters and downspouts.											
c. Space conditioning systems, including condensers and air filters.											
d. Landscape irrigation systems.											
e. Water reuse systems.											
3. Information from local utility, water and waste recovery providers on methods to further reduce resource consumption, including recycle programs and locations.											
4. Public transportation and/or carpool options available in the area.											
5. Educational material on the positive impacts of an interior relative humidity between 30-60 percent and what methods an occupant may use to maintain the relative humidity level in that range.											
6. Information about water-conserving landscape and irrigation design and controllers which conserve water.											
7. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation.											
8. Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc.											
9. Information about state solar energy and incentive programs available.											
10. A copy of all special inspections verifications required by the enforcing agency or this code.											
11. Information from the Department of Forestry and Fire Protection on maintenance of defensible space around residential structures.											
12. Information and/or drawings identifying the location of grab bar reinforcements.											
4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible area(s) that serves all buildings on the site and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.											
Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 42949.82 (a)(2)(A) et seq. are not required to comply with the organic waste portion of this section.											
DIVISION 4.5 ENVIRONMENTAL QUALITY											
SECTION 4.501 GENERAL											
4.501.1 Scope. The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorless, irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors.											
SECTION 4.502 DEFINITIONS											
5.102.1 DEFINITIONS											
The following terms are defined in Chapter 2 (and are included here for reference)											
AGRIFIBER PRODUCTS. Agrifiber products include wheatboard, strawboard, panel substrates and door cores, not including furniture, fixtures and equipment (FF&E) not considered base building elements.											
COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardwood, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated wood joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section 93120.1.											
DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.											

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.

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES, SHEET 2 (July 2024 Supplement)

Y	N/A	RESPON. PARTY																																																														
		<p>MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram (g O₃/g ROG). Note: MIR values for individual compounds and hydrocarbon solvents are specified in CCR, Title 17, Sections 94700 and 94701.</p> <p>MOISTURE CONTENT. The weight of the water in wood expressed in percentage of the weight of the oven-dry wood.</p> <p>PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging). Note: PWMIR is calculated according to equations found in CCR, Title 17, Section 94521 (a).</p> <p>REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.</p> <p>VOC. A volatile organic compound (VOC) broadly defined as a chemical compound based on carbon chains or rings with vapor pressures 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 94509(a).</p>																																																														
<input checked="" type="checkbox"/>		<p>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.</p>																																																														
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<input checked="" type="checkbox"/>		<p>4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealant and caulks 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:</p> <ol style="list-style-type: none"> Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks 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. 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 94507. 																																																														
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		<p>TABLE 4.504.1 - ADHESIVE VOC LIMIT_{1,2} (Less Water and Less Exempt Compounds in Grams per Liter)</p> <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>65</td></tr> <tr><td>CERAMIC TILE ADHESIVES</td><td>60</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> <p>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.</p>	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	65	CERAMIC TILE ADHESIVES	60	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
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MEDIUM DENSITY FIBERBOARD	0.11													
THIN MEDIUM DENSITY FIBERBOARD ₁	0.13													
<input checked="" type="checkbox"/>		<p>DIVISION 4.5 ENVIRONMENTAL QUALITY (continued) 4.504.3 CARPET SYSTEMS. All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2007 (Emission testing method for California Specification 01350) See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CDC/PHP/DEOD/CEHLB/IAQ/Pages/VOC.aspx</p>												
<input checked="" type="checkbox"/>		<p>4.504.3.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2007 (Emission testing method for California Specification 01350) See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CDC/PHP/DEOD/CEHLB/IAQ/Pages/VOC.aspx</p>												
<input checked="" type="checkbox"/>		<p>4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 4.504.1.</p>												
<input checked="" type="checkbox"/>		<p>4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring is installed, at least 80% of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2007 (Emission testing method for California Specification 01350) See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CDC/PHP/DEOD/CEHLB/IAQ/Pages/VOC.aspx</p>												
<input checked="" type="checkbox"/>		<p>4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.), by or before the dates specified in those sections, as shown in Table 4.504.5</p>												
<input checked="" type="checkbox"/>		<p>4.504.5.1 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:</p> <ol style="list-style-type: none"> Product certifications and specifications. Third-party custody certifications. Product labeled and/or invoked as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.). Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269, European EN 339 standards, and Canadian CSA 0121, CSA 0151, CSA 0153 and CSA 0325 standards. Other methods acceptable to the enforcing agency. 												
<input checked="" type="checkbox"/>		<p>4.505 INTERIOR MOISTURE CONTROL 4.505.1 General. Buildings shall meet or exceed the provisions of the California Building Standards Code.</p>												
<input checked="" type="checkbox"/>		<p>4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundations required to have a vapor retarder by California Building Code, Chapter 19, or concrete slab-on-ground floors required to have a vapor retarder by the California Residential Code, Chapter 5, shall also comply with this section.</p>												
<input checked="" type="checkbox"/>		<p>4.505.2.1 Capillary break. A capillary break shall be installed in compliance with at least one of the following:</p> <ol style="list-style-type: none"> A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided with a vapor barrier in direct contact with concrete and a concrete mix design, which will address bleeding, shrinkage, and curing, shall be used. For additional information, see American Concrete Institute, ACI 302.2R-06. Other equivalent methods approved by the enforcing agency. A slab design specified by a licensed design professional. 												
<input checked="" type="checkbox"/>		<p>4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19 percent moisture content. Moisture content shall be verified in compliance with the following:</p> <ol style="list-style-type: none"> Moisture content shall be determined with either a probe-type or contact-type moisture meter. Equivalent moisture verification methods may be approved by the enforcing agency and shall satisfy requirements found in Section 101.8 of this code. Moisture readings shall be taken at a point 2 feet (610 mm) to 4 feet (1219 mm) from the grade stamped end of each piece verified. At least three random moisture readings shall be performed on wall and floor framing with documentation acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor framing. <p>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 manufacturers' drying recommendations prior to enclosure.</p>												
<input checked="" type="checkbox"/>		<p>4.506 INDOOR AIR QUALITY AND EXHAUST 4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanically ventilated and shall comply with the following:</p> <ol style="list-style-type: none"> Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building. Unless functioning as a component of a whole house ventilation system, fans must be controlled by a humidity control. <ol style="list-style-type: none"> Humidity controls shall be capable of adjustment between a relative humidity range less than or equal to 50% to a maximum of 90%. A humidity control may utilize manual or automatic means of adjustment. A humidity control may be a separate component to the exhaust fan and is not required to be integral (i.e., built-in) 												
<input checked="" type="checkbox"/>		<p>Notes:</p> <ol style="list-style-type: none"> For the purposes of this section, a bathroom is a room which contains a bathtub, shower or tub/shower combination. Lighting integral to bathroom exhaust fans shall comply with the California Energy Code. 												
<input checked="" type="checkbox"/>		<p>4.507 ENVIRONMENTAL COMFORT 4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN. Heating and air conditioning systems shall be sized, designed and have their equipment selected using the following methods:</p> <ol style="list-style-type: none"> The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J - 2011 (Residential Load Calculation), ASHRAE handbooks or other equivalent design software or methods. Duct systems are sized according to ANSI/ACCA 1 Manual D - 2014 (Residential Duct Systems), ASHRAE handbooks or other equivalent design software or methods. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S - 2014 (Residential Equipment Selection), or other equivalent design software or methods. <p>Exception: Use of alternate design temperatures necessary to ensure the system functions are acceptable.</p>												

Y	N/A	RESPON. PARTY
		<p>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 installers shall 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:</p> <ol style="list-style-type: none"> State certified apprenticeship program. Public utility training program. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. Programs sponsored by manufacturing organizations. Other programs acceptable to the enforcing agency. <p>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 certification 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:</p> <ol style="list-style-type: none"> Certification by a national or regional green building program or standard publisher. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors. Successful completion of a third party apprentice training program in the appropriate trade. Other programs acceptable to the enforcing agency. <p>Notes:</p> <ol style="list-style-type: none"> Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. 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). <p>[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.</p> <p>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.</p>
<input checked="" type="checkbox"/>		<p>703 VERIFICATIONS 703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.</p>

ALL PRO DESIGNS

2130 Huntington Drive Unit #310
South Pasadena, CA 91030
Cell: 951-475-0211
email: dionvelasco@gmail.com

PROJECT NAME:
CITY OF LAKE ELSINORE
PERMITTED ADU (495 SF)
PLAN SET

STAMP APPROVAL

REGISTRATION & SIGNATURE

ARCHITECTURAL STYLE EXTERIOR OPTIONS:

SPANISH OR CRAFTSMAN

ISSUES / REVISIONS:

JOB NUMBER: DV2024-006
DESIGNER: DIONICIA VELASCO
PLOT DATE:
PERMIT #

SHEET CONTENTS:
2022 CAL GREEN BUILDING STANDARDS CODE

SHEET NUMBER:

GB-2

OPTION #1

SPANISH STYLE

OPTION #2

CRAFTSMAN STYLE



PERSPECTIVE



PERSPECTIVE



FRONT ELEVATION



FRONT ELEVATION

ALL PRO DESIGNS

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South Pasadena, CA 91030
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PERMITTED ADU (495 SF)
PLAN SET

STAMP APPROVAL

REGISTRATION & SIGNATURE

ARCHITECTURAL STYLE EXTERIOR OPTIONS:
SPANISH OR CRAFTSMAN

ISSUES / REVISIONS:

JOB NUMBER: DV2024-006
DESIGNER: DIONICIA VELASCO
PLOT DATE:

PERMIT #

SHEET CONTENTS:
RENDERS (SPANISH & CRAFTSMAN STYLE)

SHEET NUMBER:

R-1.0

FOR REUSE

CITY OF LAKE ELSINORE

FOR REUSE

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: A.D.U. Calculation Date/Time: 2024-12-20T14:27:08-08:00 CF1R-PRF-01-E (Page 1 of 10)

GENERAL INFORMATION table with columns for Project Name, Run Title, Project Location, City, Zip code, Climate Zone, Building Type, Project Scope, Addition Cond. Floor Area, Existing Cond. Floor Area, Total Cond. Floor Area, ADU Bedroom Count, Fuel Type.

COMPLIANCE RESULTS table with columns for Item, Description.

Registration Number: 424-P010322806A-000-000-0000000-0000 Registration Date/Time: 12/20/2024 14:27 HERS Provider: CHEERS

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: A.D.U. Calculation Date/Time: 2024-12-20T14:27:08-08:00 CF1R-PRF-01-E (Page 2 of 10)

ENERGY DESIGN RATINGS table with columns for Energy Design Ratings (Source Energy, Efficiency EDR, Total EDR) and Compliance Margins (Source Energy, Efficiency EDR, Total EDR).

1 Efficiency EDR includes improvements like a better building envelope and more efficient equipment. 2 Total EDR includes efficiency and demand response measures such as photovoltaic (PV) system and batteries.

Registration Number: 424-P010322806A-000-000-0000000-0000 Registration Date/Time: 12/20/2024 14:27 HERS Provider: CHEERS

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: A.D.U. Calculation Date/Time: 2024-12-20T14:27:08-08:00 CF1R-PRF-01-E (Page 3 of 10)

ENERGY USE SUMMARY table with columns for Energy Use, Standard Design Source Energy, Standard Design TDV Energy, Proposed Design Source Energy, Proposed Design TDV Energy, Compliance Margin (EDR1), Compliance Margin (EDR2).

Registration Number: 424-P010322806A-000-000-0000000-0000 Registration Date/Time: 12/20/2024 14:27 HERS Provider: CHEERS

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: A.D.U. Calculation Date/Time: 2024-12-20T14:27:08-08:00 CF1R-PRF-01-E (Page 4 of 10)

ENERGY USE INTENSITY table with columns for Standard Design, Proposed Design, Margin, Margin Percentage.

Notes: 1. Gross EUI is Energy Use Total (not including PV) / Total Building Area. 2. Net EUI is Energy Use Total (including PV) / Total Building Area.

REQUIRED PV SYSTEMS table with columns for DC System Size, Exception, Module Type, Array Type, Power Electronics, CFI, Azimuth, Tilt, Array Angle, Tilt, Inverter Eff., Annual Solar Access.

REQUIRED SPECIAL FEATURES table with columns for Item, Description.

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

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HERS FEATURE SUMMARY table with columns for Item, Description.

BUILDING - FEATURES INFORMATION table with columns for Project Name, Conditioned Floor Area, Number of Dwellings, Number of Bedrooms, Number of Zones, Number of Ventilation Cooling Systems, Number of Water Heating Systems.

ZONE INFORMATION table with columns for Zone Name, Zone Type, HVAC System Name, Zone Floor Area, Avg. Ceiling Height, Water Heating System 1, Status.

OPAQUE SURFACES table with columns for Name, Zone, Construction, Azimuth, Orientation, Gross Area, Window and Door Area, Tilt.

Registration Number: 424-P010322806A-000-000-0000000-0000 Registration Date/Time: 12/20/2024 14:27 HERS Provider: CHEERS

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Project Name: A.D.U. Calculation Date/Time: 2024-12-20T14:27:08-08:00 CF1R-PRF-01-E (Page 6 of 10)

OPAQUE SURFACES table with columns for Name, Zone, Construction, Azimuth, Orientation, Gross Area, Window and Door Area, Tilt.

ATTIC table with columns for Name, Construction, Type, Roof Rise, Roof Reflectance, Roof Emittance, Radiant Barrier, Cool Roof.

FENESTRATION / GLAZING table with columns for Name, Type, Surface, Orientation, Azimuth, Width, Height, Mult., Area, U-factor, U-factor Source, SHGC, SHGC Source, Exterior Shading.

SLAB FLOORS table with columns for Name, Zone, Area, Perimeter, Edge Insul. R-value and Depth, Edge Insul. R-value and Depth, Carpeted Fraction, Heated.

Registration Number: 424-P010322806A-000-000-0000000-0000 Registration Date/Time: 12/20/2024 14:27 HERS Provider: CHEERS

REVISIONS BY

Table for tracking revisions with columns for Date, Description, By.

PERFECT DESIGN & MANAGEMENT INC. Design & Consulting, Mechanical, Fire, Sprinkler, System, Electrical, Title 24 Energy Calculation.

FOR USE IN



A.D.U. LAKE ELSNORE, CA 92530

Date 12/20/2024 Scale Drawn Job #R24-9230-3 Sheet 1 RESIDENTIAL T24 SHEET Of 3 Sheets

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: A.D.U.

Calculation Date/Time: 2024-12-20T14:27:08-08:00

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Calculation Description: Title 24 Analysis

Input File Name: R24-9230-3.rbd22x

01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
R-15 Wall	Exterior Walls	Wood Framed Wall	2x4 @ 16 in. O. C.	R-15	None / None	0.095	Inside Finish: Gypsum Board Cavity / Frame: R-15 / 2x4 Exterior Finish: 3 Coat Stucco
Attic Roof A.D.U.	Attic Roofs	Wood Framed Ceiling	2x6 @ 24 in. O. C.	R-0	None / 0	0.64	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/Decking Cavity / Frame: no insul. / 2x6
R-30 Roof Attic	Ceilings (below attic)	Wood Framed Ceiling	2x8 @ 16 in. O. C.	R-30	None / None	0.033	Over Ceiling Joists: R-11.2 Insul. Cavity / Frame: R-18.9 / 2x8 Inside Finish: Gypsum Board

BUILDING ENVELOPE - HERS VERIFICATION

01	02	03	04	05
Quality Insulation Installation (QII)	High R-value Spray Foam Insulation	Building Envelope Air Leakage	CFM50	CFM50
Required	Not Required	N/A	n/a	n/a

WATER HEATING SYSTEMS

01	02	03	04	05	06	07	08	09
Name	System Type	Distribution Type	Water Heater Name	Number of Units	Solar Heating System	Compact Distribution	HERS Verification	Water Heater Name (#)
DHW Sys 1	Domestic Hot Water (DHW)	Standard	DHW Heater 1	1	n/a	None	n/a	DHW Heater 1 (1)

Registration Number: 424-PO10322806A-000-000-0000000-0000
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 Schema Version: rev 20220901
 Report Generated: 2024-12-20 14:27:33

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Project Name: A.D.U.

Calculation Date/Time: 2024-12-20T14:27:08-08:00

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(Page 8 of 10)

Calculation Description: Title 24 Analysis

Input File Name: R24-9230-3.rbd22x

01	02	03	04	05	06	07	08
Name	# of Units	Tank Vol. (gal)	NEEA Heat Pump Brand	NEEA Heat Pump Model	Tank Location	Duct Inlet Air Source	Duct Outlet Air Source
DHW Heater 1	1	50	Rheem	YESOT10H45U0 (50 gal, JA13)	Outside	A.D.U.	A.D.U.

WATER HEATING - HERS VERIFICATION

01	02	03	04	05	06	07
Name	Pipe Insulation	Parallel Piping	Compact Distribution	Compact Distribution Type	Recirculation Control	Shower Drain Water Heat Recovery
DHW Sys 1 - 1/1	Not Required	Not Required	Not Required	None	Not Required	Not Required

SPACE CONDITIONING SYSTEMS

01	02	03	04	05	06	07	08	09
Name	System Type	Heating Unit Name	Heating Equipment Count	Cooling Unit Name	Cooling Equipment Count	Fan Name	Distribution Name	Required Thermostat Type
A.D.U.1	Heat pump heating/cooling	Heat Pump System 1	1	Heat Pump System 1	1	n/a	n/a	Setback

HVAC - HEAT PUMPS

01	02	03	04	05	06	07	08	09	10	11	12	13
Name	System Type	Number of Units	Heating			Cooling			Zonally Controlled	Compressor Type	HERS Verification	
			Heating Efficiency Type	HSPF/HS PF2/COP	Cap 47	Cap 17	Cooling Efficiency Type	SEER/SE ER2				EER/CEER 2/CEER
Heat Pump System 1	VCHP-ductless	1	HSPF	9.3	22000	13900	EERSEER	18	12.5	Not Zonal	Single Speed	Heat Pump System 1-hers-htpump

Registration Number: 424-PO10322806A-000-000-0000000-0000
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Calculation Date/Time: 2024-12-20T14:27:08-08:00

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(Page 9 of 10)

Calculation Description: Title 24 Analysis

Input File Name: R24-9230-3.rbd22x

HVAC HEAT PUMPS - HERS VERIFICATION

01	02	03	04	05	06	07	08	09
Name	Verified Airflow	Airflow Target	Verified EER/ER2	Verified SEER/SEER2	Verified Refrigerant Charge	Verified HSPF/HSPF2	Verified Heating Cap 47	Verified Heating Cap 17
Heat Pump System 1-hers-htpump	Not Required	0	Required	Required	Yes	Yes	Yes	Yes

VARIABLE CAPACITY HEAT PUMP COMPLIANCE OPTION - HERS VERIFICATION

01	02	03	04	05	06	07	08	09	10
Name	Certified Low Voltage VCHP System	Airflow to Habitable Rooms	Ductless Units in Conditioned Space	Wall Mount Thermostat	Air Filter Sizing & Pressure Drop Rating	Low Leakage Ducts in Conditioned Space	Minimum Airflow per RA3.3 and SC3.3.4.1	Certified non-continuous Fan	Indoor Fan not Running Continuously
Heat Pump System 1	Not required	Required	Required	Required	Not required	Not required	Not required	Not required	Not required

INDOOR AIR QUALITY (IAQ) FANS

01	02	03	04	05	06	07	08	09
Dwelling Unit	Flow (CFM)	Fan Efficacy (W/CFM)	IAQ Fan Type	Includes Heat/Energy Recovery?	IAQ Recovery Effectiveness - SRE/ASRE	Includes Fault Indicator Display?	HERS Verification	Status
5Fam IAQVentRpt	30	0.35	Exhaust	No	n/a / n/a	No	Yes	

Registration Number: 424-PO10322806A-000-000-0000000-0000
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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: A.D.U.

Calculation Date/Time: 2024-12-20T14:27:08-08:00

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(Page 10 of 10)

Calculation Description: Title 24 Analysis

Input File Name: R24-9230-3.rbd22x

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Raymond Zhong	Documentation Author Signature: <i>Raymond Zhong</i>
Company: Perfect Design	Signature Date: 12/20/2024
Address: 2416 W. Valley Boulevard	CEA/HERS Certification Identification (if applicable):
City/State/Zip: Alhambra, CA 91803	Phone: 626-289-8808

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance.
- I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Responsible Designer Name:	Responsible Designer Signature:
Company:	Date Signed:
Address:	License:
City/State/Zip:	Phone:

Digitally signed by California Home Energy Efficiency Rating Services (CHEERS). This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.

Registration Number: 424-PO10322806A-000-000-0000000-0000
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REVISIONS BY

NO.	DESCRIPTION	DATE	BY

PERFECT DESIGN & MANAGEMENT INC.
 Design & Consulting
 Air-Conditioning, Plumbing, Fire-Sprinkler System,
 Electrical, Title 24 Energy Calculation.
 2416 W. Valley Blvd.
 Alhambra, CA 91803
 Tel: (626) 289-8808
 E-Mail: perfectdesign@pmi.com Fax: (626) 289-4913

A.D.U.
 LAKE ELSINORE, CA 92530

Date 12/20/2024
 Scale
 Drawn
 Job R24-9230-3
 Sheet 2
 RESIDENTIAL
 T24 SHEET
 Of 3 Sheets



2022 Single-Family Residential Mandatory Requirements Summary

Table with 2 columns: Code (e.g., § 150.0(m)13) and Description (e.g., Space Conditioning System Airflow Rate and Fan Efficiency. Space conditioning systems that use ducts for supply cooling must have a hole for the placement of a static pressure probe, or a permanently installed static pressure probe in the supply plenum. Airflow must be ≥ 350 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficiency ≤ 0.45 watts per CFM for gas furnace air handlers and ≤ 0.58 watts per CFM for all others. Small duct high velocity systems must provide an airflow ≥ 250 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficiency ≤ 0.82 watts per CFM. Field verification testing is required in accordance with Reference Residential Appendix RA3.3.

2022 Single-Family Residential Mandatory Requirements Summary

Table with 2 columns: Code (e.g., § 110.5) and Description (e.g., Pilot Lights. Continuously burning pilot lights are prohibited for natural gas, fan-type central furnaces, household cooking appliances (except appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu per hour), and pool and spa heaters. § 150.0(h)1: Building Cooling and Heating Loads. Heating and/or cooling loads are calculated in accordance with the ASHRAE Handbook, Equipment Volume, Applications Volume, and Fundamentals Volume; the SMACNA Residential Comfort System Installation Standards Manual; or the ACCA Manual J using design conditions specified in § 150.0(i)2.

2022 Single-Family Residential Mandatory Requirements Summary

Table with 2 columns: Code (e.g., § 110.6(a)1) and Description (e.g., Air Leakage. Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 CFM per square foot or less when tested per NFRC-400, ASTM E283, or AIAA/WDMA/CSA 1010.1.2/2444-2011. § 110.6(a)5: Field fabricated exterior doors and fenestration products must use U-factors and solar heat gain coefficient (SHGC) values from Tables 110.6.A, 110.6.B, or J4.5 for exterior doors. They must be caulked and/or weather-stripped. § 110.7: Air Leakage. All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be caulked, gasketed, or weather-stripped.

RESIDENTIAL MEASURES SUMMARY RMS-1

Form with multiple sections: Project Name (A.D.U.), Building Type (Multi Family), Date (12/20/2024), Project Address (130 S. MAIN ST., LAKE ELSINORE), California Energy Climate Zone (CA Climate Zone 10), Total Cond. Floor Area (495), Addition (n/a), # of Units (1). INSULATION: Construction Type (Roof, Wall, Slab), Cavity, Area (sq ft), Special Features, Status. FENESTRATION: Orientation (Rear, Front, Right, Left), Area (sq ft), U-Factor, SHGC, Overhang, Sidelights, Exterior Shades, Status. HVAC SYSTEMS: Qty. Heating (Electric Heat Pump), Min. Eff. (9.30 HSPF), Cooling (Split Heat Pump), Min. Eff. (18.0 SEER), Thermostat (Setback), Status (New). HVAC DISTRIBUTION: Location (Ductless with Fan), Heating (Ductless), Cooling (n/a), Duct Location (n/a), R-Value (n/a), Status (New). WATER HEATING: Qty. Type (Heat Pump), Gallons (50), Min. Eff. (3.20), Distribution (Standard), Status (New).

2022 Single-Family Residential Mandatory Requirements Summary

Table with 2 columns: Code (e.g., § 150.0(k)1G) and Description (e.g., Screw-based luminaires. Screw-based luminaires must contain lamps that comply with Reference Joint Appendix JA8. § 150.0(k)1H: Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires. § 150.0(k)1I: Light Sources in Drawers, Cabinets, and Linen Closets. Light sources internal to drawers, cabinetry or linen closets are not required to comply with Table 150.0.A or be controlled by vacancy sensors provided that they are rated to consume no more than 5 watts of power, emit no more than 150 lumens, and are equipped with controls that automatically turn the lighting off when the drawer, cabinet or linen closet is closed. § 150.0(k)2A: Interior Switches and Controls. All forward phase cut dimmers used with LED light sources must comply with NEMA SSL 7A. § 150.0(k)2B: Interior Switches and Controls. Exhaust fans must be controlled separately from lighting systems. § 150.0(k)2C: Accessible Controls. Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned on and off. § 150.0(k)2D: Multiple Controls. Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the dimmer or sensor is installed to comply with § 150.0(k).

Table with 2 columns: Code (e.g., § 110.10(a)1) and Description (e.g., Solar Readiness: Single-Family Residences. Single-family residences located in subdivisions with 10 or more single-family residences and where the applicant for a tentative subdivision map for the residences has been deemed complete and approved by the enforcement agency, which do not have a photovoltaic system installed, must comply with the requirements of § 110.10(b)-(e). § 110.10(b)1A: Minimum Solar Zone Area. The solar zone must have a minimum total area as described below. The solar zone must comply with requirements adopted by a local jurisdiction. The solar zone total area must be comprised of areas that have no dimension less than 5 feet and are no less than 80 square feet each for buildings with roof areas less than or equal to 10,000 square feet or no less than 160 square feet each for buildings with roof areas greater than 10,000 square feet. For single-family residences, the solar zone must be located on the roof or overhang of the building and have a total area no less than 250 square feet. § 110.10(b)2: Azimuth. All sections of the solar zone located on steep-sloped roofs must have an azimuth between 90-300° of true north. § 110.10(b)3A: Shading. The solar zone must not contain any obstructions, including but not limited to vents, chimneys, architectural features, and roof-mounted equipment. § 110.10(b)3B: Shading. Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice the horizontal distance of the height difference between the highest point of the obstruction and the horizontal projection of the nearest point of the solar zone, measured in the vertical plane. § 110.10(b)4: Structural Design Loads on Construction Documents. For areas of the roof designated as a solar zone, the structural design loads for roof dead load and roof live load must be clearly indicated on the construction documents. § 110.10(c): Interconnection Pathways. The construction documents must indicate a location reserved for inverters and metering equipment and a pathway reserved for routing of conductors from the solar zone to the point of interconnection with the electrical service; and for single-family residences and central water-heating systems, a pathway reserved for routing plumbing from the solar zone to the water-heating system. Documentation. A copy of the construction documents or a comparable document indicating the information from § 110.10(b)-(c) must be provided to the occupant. § 110.10(d): Main Electrical Service Panel. The main electrical service panel must have a minimum busbar rating of 200 amps. § 110.10(e)1: Main Electrical Service Panel. The main electrical service panel must have a reserved space to allow for the installation of a double pole circuit breaker for a future solar electric installation. The reserved space must be permanently marked as "For Future Solar Electric." § 110.10(e)2: Electric and Energy Storage Ready.

HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

Table with 2 columns: ENGINEERING CHECKS and SYSTEM LOAD. Includes sections for Heating System, Cooling System, Air System, and Psychrometrics. Heating System: Number of Systems (1), Heating System Output per System (22,000), Total Output (22,000). Cooling System: Output per System (18,000), Total Output (18,000). Air System: CFM per System (800), Airflow (cfm) (800), Airflow (cfm/sqft) (1.82), Airflow (cfm/Ton) (533). Psychrometrics: Heating System Psychrometrics (Airstream Temperatures at Time of Heating Peak) and Cooling System Psychrometrics (Airstream Temperatures at Time of Cooling Peak).



