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APPLICANT AGREEMENT

APPLICANT AGREES TO PROVIDE ALL NECESSARY INFORMATION REQUIRED TO COMPLETE THESE CONSTRUCTION DOCUMENTS. MODIFICATIONS TO THE PERMIT READY DOCUMENTS PROVIDED BY

SHEETS INCORPORATED INTO THESE DOCUMENTS ALSO REQUIRES A SIGNATURE BY THE PERSON WHO PREPARED THE INFORMATION. THE FOUNDATION DESIGN FOR THESE PERMIT READY CONSTRUCTION DOCUMENTS ASSUMES STANDARD SOILS CONDITIONS AND LEVEL TOPOGRAPHY. IF SITE SPECIFIC CONDITIONS REQUIRE A FOUNDATION DESIGN BEYOND WHAT IS PROVIDED IN THESE DOCUMENTS THEN THE APPLICANT IS TO PROVIDE A NEW FOUNDATION DESIGN WHICH COMPLIES

DESIGN PATH STUDIO ARE TO BE DISCLOSED BY THE APPLICANT AND APPROVED BY THE AUTHORITY HAVING JURISDICTION. ANY MODIFICATIONS TO THESE CONSTRUCTION DOCUMENTS REQUIRES EACH SHEET TO BE SIGNED BY THE PERSON WHO MADE THE CHANGES. ANY ADDITIONAL

WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER'S REPORT.

Accessory Dwelling Unit Studio Plan - 393 s.f. Orange County, CA

		_	Orange County, CA		BY SIGNING BELOW THE APPLICANT AGREES TO AND AFFIRMS ALL STATEMENTS INCLUDED HEREIN AND WILL COMPLY WITH ALL LOCAL CODE REQUIREMENTS. SIGNATURE:				
			(FOR USE IN THE UNINCORPORATED COUNTY OF ORANGE)		SIGNATION L.				
T1.1 T1.2 AS.1 AS.2 G0.1 G0.2 G0.3 A0.1	TITLE SHEET EXTERIOR MATERIAL OPTIONS SITE INFORMATION SITE PLAN (PROVIDED BY OWNER) CAL GREEN CHECKLIST GENERAL NOTES GENERAL NOTES SCHEDULES	SEE EXAMPLE SITE PLAN, SHEET AS.2, FO ADU MAY BE SUBJECT TO IMPACT FEES, I ADUs SHALL NOT BE USED FOR ANY SHO	CONTACT LOCAL UTILITY COMPANIES REGARDING GAS AND ELECTRIC SERVICES TO THIS DETACHED ADU. SEE EXAMPLE SITE PLAN, SHEET AS.2, FOR MORE INFORMATION ADU MAY BE SUBJECT TO IMPACT FEES, INCLUDING, BUT NOT LIMITED TO SCHOOL, ROAD, AND PARK FEES. ADUS SHALL NOT BE USED FOR ANY SHORT TERM RENTALS: ADUS CAN BE RENTED/LEASED FOR MONTHLY OR YEARLY PERIODS ONLY OR AS REQUIRED BY STATE AND LOCAL LAWS.						
A1.1 A2.1 A3.1	FLOOR PLAN/ ROOF PLAN CRAFTSMAN MECHANICAL/PLUMBING/ELECTRICAL PLANS EXTERIOR ELEVATIONS CRAFTSMAN	ZONING INFORMATION	DIRECTORY	VICINITY MAP	HERS NOTES				
OVERNING CODES: BUILDING MECHAN ELECTRIG GREEN TE ADDRESS: OU ADDRESS ASSIGNED	BUILDING SECTIONS CRAFTSMAN ARCHITECTURAL EXTERIOR WALL DETAILS ARCHITECTURAL ROOF DETAILS STRUCTURAL NOTES FOUNDATION & FRAMING PLANS STRUCTURAL DETAILS STRUCTURAL DETAILS STRUCTURAL DETAILS ENERGY CALC. BY CALC. ENERGY CALC. EN	CONTACT THE COUNTY OF ORANGE FOR THE INFORMATION BELOW https://myoceservices.ocgov.com/ PHONE: (714)573-6100 ZONING: OVERLAY: SCHOOL DISTRICT: LOT SIZE: EXISTING HABITABLE SQ. FT.: EXISTING FAR: MAX. ALLOWABLE FAR: PROPOSED FAR: FLOOR AREA OF GARAGE: EXISTING LOT COVERAGE: ALLOWABLE LOT COVERAGE: LOT SLOPE: ADU SETBACKS FROM PROPERTY LINE ALLOWED: FRONT- REAR- SIDE- STREET SIDE- STREET SIDE- STREET SIDE-	SITE PLAN & TITLE SHEET INFORMATION PREPARED BY: COMPANY CONTACT PERSON ADDRESS CITY, STATE ZIP PHONE: EMAIL: PROPERTY OWNER: NAME ADDRESS CITY, STATE ZIP PHONE: EMAIL: BUILDING DEPARTMENT: ORANGE COUNTY PUBLIC WORKS 601 N. ROSS ST. SANTA ANA, CA 92701 P. (714)667–8800 PROJECT DESCRIPTION NEW CONSTRUCTION OF A ONE STORY, STUDIO, 1 BATH, DETACHED 393 S.F. ACCESSORY DWELLING UNIT WITH PORCH AREAS USED BELOW: CRAFTSMAN PORCH: 60 S.F. RANCH PORCH: 60 S.F. SPANISH PORCH: 60 S.F.	PROVIDED BY OWNER	1. PROPERLY COMPLETED AND ELECTRONICALLY SIGNED CERTIFICATE OF INSTALLATION (CF2R FORMS) SHALL BE POSTED WEATHER PROTECTED WITHIN BUILDING FOR REVIEW BY INSPECTORS – EES 10–103(A)3, 10–103(B)1.A – BY THE INSTALLING CONTRACTOR AND SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION AT THE SITE. FOR PROJECTS REQUIRING HERS VERIFICATION, THE CF2R FORMS SHALL BE REGISTERED WITH A CALIFORNIA APPROVED HERS PROVIDER DATA REGISTRY WITH ITS OWN UNIQUE 21 DIGIT REGISTRATION NUMBER LOCATED AT THE BOTTOM OF EACH PAGE. THE FIRST 12 DIGITS WILL MATCH THE REGISTRATION NUMBER ASSOCIATED WITH THE CF1R FORM. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THE CF2R FORMS ARE REVIEWED AND APPROVED. 2. PROPERLY COMPLETED & ELECTRONICALLY SIGNED & REGISTERED CERTIFICATE(S) OF FIELD VERIFICATION AND DIAGNOSTIC TESTING (CF3R) SHALL BE POSTED WEATHER PROTECTED WITHIN THE BUILDING SITE BY A CERTIFIED HERS RATER. A REGISTERED CF3R WILL HAVE A UNIQUE 25 DIGIT REGISTRATION NUMBER LOCATED AT THE BOTTOM OF EACH PAGE. THE FIRST 20 DIGITS OF THE NUMBER WILL MATCH THE REGISTRATION NUMBER ASSOCIATED WITH THE CF2R. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THE CF3R IS REVIEWED AND APPROVED. EES 10–103(A)3, 10–103(B)1.A. 3. CF1R REGISTRATION NUMBER WILL BE VISIBLE. 4. HERS TESTS REQUIRED FOR THIS PROJECT ARE: QUALITY INSULATION INSTALLATION (QII), INDOOR AIR QUALITY VENTILATION, KITCHEN RANGE HOOD, VERIFIED REFRIGERANT CHARGE, AIRFLOW IN HABITABLE ROOMS (SC3.1.4.1.7), VERIFIED HEAT PUMP RATED HEATING CAPACITY, WALL—MOUNTED THERMOSTAT IN ZONES GREATER THAN 150 FT2 (SC3.4.5, DUCTLESS INDOOR UNITS LOCATED ENTIRELY IN CONDITIONED SPACE (SC3.1.4.1.8) KITCHEN RANGE HOOD CFM VERIFICATION(100 CFM & <= 3 SONES, CEC LISTED) IAQ MECHANICAL VENTILATION —STUDIO—26, IBED—32 CFM, 2BEDIBATH—45 CFM, 2BED2BATH—46 CFM, 3BEDA—59 CFM, 3BED—66 CFM 5. FOR IAQ FAN —ABOVE CFM REQUIRED FOR A CONTINUOUSLY OPERATING EXHAUST FAN. PROVIDE A TIMER SWITCH WITH A MANUAL OFF AND A SOUND RATING OF 1 SONE (3 SONES MAX FOR AN INTERMITTENT FAN). THIS FAN TO PROVIDE WHOLE BU				
Y ORANGE COUNTY:		ADU SETBACKS FROM MAIN RESIDENCE	LEGAL DESCRIPTION	APN	INFORMATION. VARIABLE CAPACITY HEAT PUMP COMPLIANCE OPTION (VERIFICATION DETAILS FROM VCHP STAFF REPORT, APPENDIX B, AND RA3) NORTHWEST ENERGY EFFICIENCY ALLIANCE (NEEA) RATED HEAT PUMP WATER HEATER; SPECIFIC				
OVERNING AGENCY: ORANG CCUPANCY GROUP: R3 TORIES: 1 YPE OF CONSTRUCTION: VB	NGE COUNTY, CA.	ALLOWED: PROPOSED: OFF STREET PARKING REQUIRED: PROVIDED:	PROVIDED BY OWNER	PROVIDED BY OWNER	BRAND/MODEL, OR EQUIVALENT, MUST BE INSTALLED				
		REQUIRED SUPPLE	MENTAL INFORMATION - TO BE COM	1PLETED BY OWNER					
additional pla provided by a	applicant: pe	ermit to be obtained by	X SELECTION X SELECTION	TO HAVE NEW CONNECTION TO CITY SEWER MAIN	EXAMPLE GAS PIPE DIAGRAM TO BE UPDATED FOR SITE SPECIFIC CONDITIONS NOTE: EXISTING GAS SERVICE AND METER SIZE TO BE PROVIDED BY HOMEOWNER AND UPDATED ISOMETRIC LAYOUT PROVIDED BY DESIGNER OF CHOICE. CFH & BTUS PROVIDED AS SUGGESTED				
TITLE SHEET (T1.1) INFORMATIO		TO BE COMPLETED	■ *IF EXIS	TO CONNECT TO EXISTING RESIDENCE SEWER LATERAL XISTING HOUSE HAS FOUR OR MORE TOILETS WITH AN EXISTING 3 INCH SEWER DRAIN, PARATE CONNECTION TO THE CITY SEWER MAIN IS REQUIRED FOR THE NEW ADJ.	LOADS. OWNER/DESIGNER IS TO PROVIDE ACCURATE INFORMATION. GAS PIPES BELOW GRADE SHALL BE POLYETHYLENE.				

	PEOLIBED SLIE	PLEMENTAL INFORMATION - TO BE	COMPLETED BY OWNER	
	INEQUINED SUP	PLEINIENTAL IINI OKINATION - TO BE	L COMPLETED BY OWNER	
additional plan information	deferred submittals - separate	fire sprinkler information:	sewer waste water information:	EXAMPLE GAS PIPE DIAGRAM
rovided by applicant:	permit to be obtained by		X SELECTION	TO BE UPDATED FOR SITE SPECIFIC CONDITIONS
COMPLETED	applicant:	X SELECTION	ADU TO HAVE NEW CONNECTION TO CITY SEWER MAIN	NOTE: EXISTING GAS SERVICE AND METER SIZE TO BE PROVIDED BY HOMEOWNER AND UPDATED ISOMETRIC LAYOUT PROVIDED BY
TITLE SHEET (T1.1) INFORMATION FILLED OUT	X TO BE COMPLETED	EXISTING RESIDENCE CURRENTLY HAS FIRE SPRINKLERS	ADU TO CONNECT TO EXISTING RESIDENCE SEWER LATERAL *IF EXISTING HOUSE HAS FOUR OR MORE TOILETS WITH AN EXISTING 3 INCH SEWER DRAIN, A SEPARATE CONNECTION TO THE CITY SEWER MAIN IS REQUIRED FOR THE NEW ADU.	DESIGNER OF CHOICE. CFH & BTUS PROVIDED AS SUGGESTED LOADS. OWNER/DESIGNER IS TO PROVIDE ACCURATE INFORMATION. GAS PIPES BELOW GRADE SHALL BE POLYETHYLENE.
FILL OUT TITLEBLOCK WITH OWNER NAME, ADDRESS, APN, AND LEGAL DESCRIPTION ON EACH SHEET	FIRE SPRINKLERS (WHEN REQUIRED)	PROPERTY IS LOCATED IN THE VERY HIGH FIRE HAZARD SEVERITY ZONE	REFER TO CURRENT CPC SECTION 703.2 FOR PIPE SIZING REQUIREMENTS SHOW LOCATION AND SIZE OF EXISTING MAIN HOUSE SEWER LINE, 2% SLOPE REQUIRED FOR ALL NEW SEWER LINES, LIST NUMBER OF BATHROOMS IN EXITING HOME	CPC TABLES FOR SIZING GAS PIPING SYSTEMS TABLE 1215.2(1) THROUGH TABLE 1215.2(36) SHALL BE USED TO SIZE GAS PIPING IN CONJUNCTION WITH ONE OF THE METHODS DESCRIBED IN
SITE PLAN SHEET (AS.2) PROVIDED IN PLAN SET FOR CITY REVIEW	roof material:	PROPERTY IS NOT LOCATED IN THE VERY HIGH FIRE HAZARD SEVERITY ZONE (VHSF2)	SEPTIC - REQUIRES HEALTH DEPARTMENT APPROVAL	SECTION 1215.1.1 THROUGH SECTION 1215.1.3 ALLOWABLE GAS PIPING MATERIALS ABOVE GRADE
UPDATED TITLE 24 ENERGY CALCULATION REPORT WITH CORRECT NAME, ADDRESS AND EXACT ORIENTATION FOR SITE SPECIFIC CONDITIONS. OWNER MAY CONTACT THE ENTITY WHO PREPARED THE ORIGINAL REPORT (SHOWN ON T24.1) TO OBTAIN UPDATES TO THE REPORT.	X SELECTION	NEW ADU IS REQUIRED TO HAVE FIRE SPRINKLERS IF THE EXISTING RESIDENCE HAS FIRE SPRINKLERS OR IS LOCATED IN VHFSZ. SEE NOTES ON A0.1 AND FIRE RATED DETAIL CHECKLIST ON THIS SHEET	DISTANCE TO CONNECTION	1208.6.3 METALLIC PIPE — CAST—IRON PIPE SHALL NOT BE USED. 1208.6.3.1 STEEL AND WROUGHT—IRON PIPE 1208.6.3.2 COPPER AND COPPER ALLOY PIPE 1208.6.3.3 ALUMINUM ALLOY PIPE
CONSTRUCTION AND DEMOLITION FORM	ROOF COLOR OF PRINCIPAL DWELLING UNIT(ROOF COLOR OF ADU IS TO MATCH PRINCIPAL DWELLING UNIT)	fire rated details:	electrical service information:	
HOLD HARMLESS AGREEMENT	TRIM COLOR OF PRIMOIRAL PANELLING	X SELECTION	X SELECTION	1208.6.4 METALLIC TUBING — SEAMLESS COPPER, ALUMINUM ALLOY, OR STEEL TUBING SHALL NOT BE USED WITH GASES CORROSIVE TO SUCH MATERIAL.
PHOTOVOLTAIC SYSTEM - THE PV SYSTEM MUST BE INSTALLED, OPERATIONAL AND FINAL PRIOR TO FINAL BUILDING INSPECTION AND APPROVAL FOR THE ADU. (WHEN	TRIM COLOR OF PRINCIPAL DWELLING (TRIM COLOR OF ADU TO MATCH PRINCIPAL DWELLING UNIT TRIM)	ROOF EAVE DETAIL 1,2,3,5,6,7/A5.2	UPGRADED SERVICE	MATERIAL 1208.6.4.1 STEEL TUBING 1208.6.4.2 COPPER AND COPPER ALLOY TUBING 1208.6.4.3 ALUMINUM ALLOY TUBING 1208.6.4.4 CORRUGATED STAINLESS STEEL TUBING
REQUIRED) *IF THERE IS AN EXISTING PHOTOVOLTAIC SYSTEM OF SUFFICIENT SIZE ON THE MAIN HOUSE TO ACCOMMODATE THE NEW ADU THEN HOMEOWNER IS TO PROVIDE A REPORT STATING THE EXISTING SIZE OF THE PV PANEL	CONCRETE TILE ROOF - EAGLE ROOF PRODUCTS INC IAMPO UES-ER 1900 MINIMUM 2-1/2:12 ROOF SLOPE. COLOR OF CONCRETE TILE ROOF	WALL FINISH DETAIL 9B,12B,15B/ A5.1	EXISTING SERVICE TO REMAIN	1210.1.7 PLASTIC PIPING PLASTIC PIPING SHALL BE INSTALLED OUTDOORS, UNDERGROUND ONLY.
MEP PERMIT REQUIRED FOR ADUS OVER 500SF	ADOUTECTURAL CRADE SHINGLE CERTAINTEED, ICC ES ESP 2527	FIRE RATED DETAILS ABOVE ARE TO BE USED WHEN THE PROPERTY IS LOCATED IN THE VERY HIGH FIRE SEVERITY ZONE (VHFSZ) OR WHEN WALLS AND ROOF EAVES ARE LESS THAN 5 FT FROM PROPERTY LINE IN AN UNSPRINKLERED BUILDING OR LESS THAN 3 FT	NEW SERVICE	
xterior style selection:	MINIMUM 2:12 ROOF SLOPE. COLOR OF ARCHITECTURAL GRADE SHINGLES COLOR OF ARCHITECTURAL GRADE SHINGLES	FROM PROPERTY LINE IN SPRINKLERED BUILDINGS PER TABLE R302.1(1) & R302.1(2). FIRE RATED DETAILS ABOVE ARE ALSO TO BE USED WHEN THE ADU IS LESS THAN 10 FT	SIZE OF EXISTING SERVICE SIZE OF NEW SERVICE	(E)GAS METER —" PIPE BY PG&E ——— CFH (—' LENGTH)
SELECTION - SEE SHEET T1.2 FOR EXTERIOR RENDERING	OTHER ROOF MATERIAL / COLOR / ICC / UL:	FROM THE MAIN DWELLING UNIT IN AN UNSPRINKLERED BUILDING OR LESS THAN 6 FT FROM THE MAIN DWELLING UNIT IN A SPRINKLERED BUILDING.	gas service information:	—" PIPE (N)DRYER 35 CFH
CRAFTSMAN		window and trim color:	X SELECTION	
RANCH		X SELECTION	UPGRADED SERVICE	GAS CALCULATIONS APPLIANCE QTY CFH TOTAL CFH (N)RANGE & OVEN 65 CFH
SPANISH	lot size and impervious area:	WINDOW COLOR OF PRINCIPAL DWELLING UNIT	EXISTING SERVICE TO REMAIN	(NEW) OVEN & RANGE 1 65 65
xterior wall material:	Total Lot Size =		NEW SERVICE	(NEW) WATER HEATER 1 199 199 —" PIPE (—" LENGTH) 19
SELECTION(S)	Total Area of Existing Impervious Surfaces =	WHITE	SIZE OF EXISTING SERVICE SIZE OF NEW SERVICE	TOTAL GAS LOAD FOR HOUSEHOLD
STUCCO / COLOR	(Existing building footprint, patios, decks, hardscape, etc.)	TAN	coile roport	APPLIANCES = 299,000 BTU/h 299 CFH
STONE VENEER / COLOR	Total Area of New Impervious Surfaces = (Increase to building footprint, patios, decks, hardscape, etc.)	DARK BRONZE	soils report	SPECIFICATIONS FOR EQUIPMENT SHALL BE KEPT ON SITE TO PROVIDE TO ORANGE COUNTY
FIBER CEMENT - SIDING / COLOR	Total Area of Replaced Impervious Surfaces =	OTHER WINDOW COLOR	X SELECTION	BUILDING INSPECTOR
WOOD SIDING / COLOR	(Replacement to building footprint, patios, decks, hardscape, etc.)		SOILS REPORT PROVIDED	
7 OTHER			AGREE TO USE ORANGE COUNTY'S FOUNDATION REQUIREMENTS FOR RESIDENTIAL PROJECTS AND ACCESSORY STRUCTURES	

BY USING THESE PERMIT READY CONSTRUCTION DOCUMENTS, THE RECIPIENT ACKNOWLEDGES, ACCEPTS AND VOLUNTARILY AFFIRMS THE FOLLOWING CONDITIONS:

1. THE USE OF THIS INFORMATION IS RESTRICTED TO THE ORIGINAL PROJECT FOR WHICH

IT WAS PREPARED FOR THE PERMIT READY ACCESSORY DWELLING UNIT (ADU) PROGRAM FOR ORANGE COUNTY ONLY. THIS IS A LIMITED SET OF STANDARDIZED ADU PLANS AND SPECIFICATIONS APPROVED BY THE ORANGE COUNTY BUILDING DEPARTMENT. BUILDING CODES DO CHANGE OVER TIME AND RECIPIENT SHALL ENSURE FULL COMPLIANCE UNDER ALL CODES THEN IN EFFECT AT THE TIME OF THE SUBJECT PERMIT. THIS DOES NOT ELIMINATE OR REDUCE THE RECIPIENT'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION RELEVANT TO THE RECIPIENT'S WORK AND RESPONSIBILITY ON THIS PROJECT. DESIGN FOR TRANSLATION ERRORS. DO NOT USE THESE CONSTRUCTION DOCUMENTS IF THE PERMIT HAS EXPIRED OR IS REVOKED AT ALL.

2. THE RECIPIENT RECOGNIZES AND ACKNOWLEDGES THAT THE USE OF THIS INFORMATION WILL BE AT THEIR SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL EXPOSURE TO DESIGN PATH STUDIO. NO WARRANTIES OF ANY NATURE, WHETHER EXPRESS OR IMPLIED, SHALL ATTACH TO THESE DOCUMENTS AND THE INFORMATION CONTAINED THEREON. ANY USE, REUSE, OR ALTERATION OF THESE DOCUMENTS BY THE RECIPIENT OR BY OTHERS WILL BE AT THE RECIPIENT'S RISK AND FULL LEGAL RESPONSIBILITY. FURTHERMORE, THE RECIPIENT WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, DEFEND, INDEMNIFY AND HOLD DESIGN PATH STUDIO AND ITS ARCHITECTS HARMLESS FROM ANY AND ALL CLAIMS, SUITS, LIABILITY, DEMANDS, JUDGMENTS, OR COSTS ARISING OUT OF OR RESULTING THERE FROM ANY USE OF THESE CONSTRUCTION DOCUMENTS FOR OR ON ACCOUNT OF ANY INJURY, DEATH, DAMAGE OR LOSS TO PERSONS OR PROPERTY, DIRECT OR CONSEQUENTIAL DAMAGES IN ANY AMOUNT. THIS INDEMNITY DOES NOT APPLY TO THE SOLE NEGLIGENCE OR WILLFUL MISCONDUCT OF DESIGN PATH STUDIO OR ITS ARCHITECTS. 3. THE DESIGNS REPRESENTED BY THESE PLANS

ARE COPYRIGHTED AND ARE SUBJECT TO

4. IF THE RECIPIENT DOES NOT AGREE WITH THE ABOVE CONDITIONS, DO NOT PROCEED WITH CONSTRUCTION OF AN ADU OR OTHER IMPROVEMENT UNDER THESE PLANS AT ALL.

COPYRIGHT PROTECTION.

project
County of Orange

Pre-Approved
ADU Program

OWNER NAME:

ADDRESS:

ADDRESS: APN:

LEGAL DESCRIPTION:

revisions

revisions _____

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description

Title Sheet Studio

date April 03, 2024

project no.

drawn by DESIGN PATH STUDIO

eet no.

T1.1

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BY USING THESE PERMIT READY CONSTRUCTION DOCUMENTS, THE RECIPIENT ACKNOWLEDGES, ACCEPTS AND VOLUNTARILY AFFIRMS THE

ACCEPTS AND VOLUNTARILY AFFIRMS THE FOLLOWING CONDITIONS:

1. THE USE OF THIS INFORMATION IS RESTRICTED TO THE ORIGINAL PROJECT FOR WHICH IT WAS PREPARED FOR THE PERMIT READY ACCESSORY DWELLING UNIT (ADU) PROGRAM FOR ORANGE COUNTY ONLY. THIS IS A LIMITED SET OF STANDARDIZED ADU PLANS AND SPECIFICATIONS APPROVED BY THE ORANGE COUNTY BUILDING DEPARTMENT. BUILDING CODES DO CHANGE OVER TIME AND RECIPIENT SHALL ENSURE FULL COMPLIANCE UNDER ALL CODES THEN IN EFFECT AT THE TIME OF THE SUBJECT PERMIT. THIS DOES NOT FUMINATE OR REDUICE THE RECIPIENT'S NOT ELIMINATE OR REDUCE THE RECIPIENT'S RESPONSIBILITY TO VERIFY ANY AND ALL

RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION RELEVANT TO THE RECIPIENT'S WORK AND RESPONSIBILITY ON THIS PROJECT. DESIGN PATH STUDIO SHALL NOT BE RESPONSIBLE FOR TRANSLATION ERRORS. DO NOT USE THESE CONSTRUCTION DOCUMENTS IF THE PERMIT HAS EXPIRED OR IS REVOKED AT ALL.

2. THE RECIPIENT RECOGNIZES AND ACKNOWLEDGES THAT THE USE OF THIS INFORMATION WILL BE AT THEIR SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL EXPOSURE TO DESIGN PATH STUDIO. NO WARRANTIES OF ANY NATURE, WHETHER EXPRESS OR IMPLIED, SHALL ATTACH TO THESE DOCUMENTS AND THE INFORMATION CONTAINED THEREON. ANY USE, REUSE, OR ALTERATION OF THESE DOCUMENTS BY THE RECIPIENT OR BY OTHERS DOCUMENTS BY THE RECIPIENT OR BY OTHERS WILL BE AT THE RECIPIENT'S RISK AND FULL LEGAL RESPONSIBILITY. FURTHERMORE, THE

RECIPIENT WILL, TO THE FULLEST EXTENT
PERMITTED BY LAW, DEFEND, INDEMNIFY AND HOLD
DESIGN PATH STUDIO AND ITS ARCHITECTS
HARMLESS FROM ANY AND ALL CLAIMS, SUITS,
LIABILITY, DEMANDS, JUDGMENTS, OR COSTS
ARISING OUT OF OR RESULTING THERE FROM ANY USE OF THESE CONSTRUCTION DOCUMENTS FOR OR ON ACCOUNT OF ANY INJURY, DEATH, DAMAGE OR LOSS TO PERSONS OR PROPERTY, DIRECT OR CONSEQUENTIAL DAMAGES IN ANY AMOUNT. THIS INDEMNITY DOES NOT APPLY TO THE SOLE NEGLIGENCE OR WILLFUL MISCONDUCT OF DESIGN PATH STUDIO OR ITS ARCHITECTS.

3. THE DESIGNS REPRESENTED BY THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION. 4. IF THE RECIPIENT DOES NOT AGREE WITH THE

County of Orange Pre-Approved ADU Program

OWNER NAME:

ADDRESS:

LEGAL DESCRIPTION:

revisions

description **Exterior** Style Option:

Select one option

April 03, 2024

project no.

- A. Pollution prevention where appropriate.
- B. Development and implementation of a site specific run-off management plan.
- C. Minimization of areas that are cleared and graded to only the portion of the site that is necessary for construction.
- D. Minimization of exposure time of disturbed soil areas.
- Minimization of grading during the wet season and correlation of grading with seasonal dry weather periods to the extent feasible.
- F. Limitation of grading to a maximum disturbed area as determined by the County / city before either temporary or permanent erosion controls are implemented to prevent stormwater pollution. The County / city has the option of temporarily increasing the size of disturbed soil areas by a set amount beyond the maximum, if the individual site is in compliance with applicable stormwater regulations and the site has adequate control practices implemented to prevent stormwater pollution.
- G. Temporary stabilization and reseeding of disturbed soil areas as rapidly as feasible.
- H. Non-stormwater management measures to prevent illicit discharges and control stormwater pollution sources.
- Erosion Control BMPs shall be implemented.
- Wind erosion control BMPs (dust control) shall be implemented.
- Sediment control BMPs shall be implemented at all appropriate locations along the site perimeter, at all operational storm drain inlets and at all non-active slopes.
- L. Tracking control BMPs to control off-site sediment tracking shall be implemented and
- M. Waste management and materials pollution control BMPs shall be implemented to prevent the contamination of stormwater by construction wastes and materials.
- N. Non-stormwater BMPs shall be implemented to reduce or prevent the contamination of stormwater from construction activities.
- O. Weather tracking: projects shall monitor the National Weather Service (www.weather.gov) probability of precipitation. When a rain event is predicted (forecast predicts a greater than 50% probability of precipitation), the project must be inspected and BMPs must be maintained or deployed as needed to protect the project from discharging pollutants. (CGP projects only)
- P. BMP failures must be repaired or replaced with an acceptable alternate as soon as it is safe to do so. Repairs or replacements must result in an adequate BMP, or additional BMPs should be installed to provide adequate protection.

Construction Runoff Guidance Manual

EXISTING SWIMMING POOL REQUIREMENTS

WHEN A BUILDING PERMIT IS ISSUED FOR THE CONSTRUCTION OF A NEW SWIMMING POOL OR SPA OR THE REMODELING OF AN EXISTING SWIMMING POOL OR SPA AT A PRIVATE SINGLE-FAMILY HOME, THE RESPECTIVE SWIMMING POOL OR SPA SHALL BE EQUIPPED WITH AT LEAST TWO OF THE FOLLOWING SEVEN DROWNING PREVENTION SAFETY FEATURES:

(1) AN ENCLOSURE THAT MEETS THE REQUIREMENTS OF SECTION 115923 AND ISOLATES THE SWIMMING POOL OR SPA FROM THE PRIVATE SINGLE-FAMILY HOME. (2) REMOVABLE MESH FENCING THAT MEETS AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) SPECIFICATIONS F2286 STANDARDS IN CONJUNCTION WITH A GATE THAT IS SELF-CLOSING AND SELF-LATCHING AND CAN ACCOMMODATE A KEY LOCKABLE DEVICE.

(3) AN APPROVED SAFETY POOL COVER, AS DEFINED IN SUBDIVISION (D) OF SECTION 115921. (4) EXIT ALARMS ON THE PRIVATE SINGLE-FAMILY HOME'S DOORS THAT PROVIDE DIRECT ACCESS TO THE SWIMMING POOL OR SPA. THE EXIT ALARM MAY CAUSE EITHER AN ALARM NOISE OR A VERBAL WARNING, SUCH AS A REPEATING NOTIFICATION THAT "THE DOOR TO THE POOL IS OPEN." (5) A SELF-CLOSING, SELF-LATCHING DEVICE WITH A RELEASE MECHANISM PLACED NO LOWER THAN 54 INCHES ABOVE THE FLOOR ON THE PRIVATE SINGLE-FAMILY HOME'S DOORS PROVIDING DIRECT ACCESS TO THE SWIMMING POOL OR SPA.

(6) AN ALARM THAT, WHEN PLACED IN A SWIMMING POOL OR SPA, WILL SOUND UPON DETECTION OF ACCIDENTAL OR UNAUTHORIZED ENTRANCE INTO THE WATER. THE ALARM SHALL MEET AND BE INDEPENDENTLY CERTIFIED TO THE ASTM STANDARD F2208 "STANDARD SAFETY SPECIFICATION FOR RESIDENTIAL POOL ALARMS," WHICH INCLUDES SURFACE MOTION, PRESSURE, SONAR, LASER, AND INFRARED TYPE ALARMS. A SWIMMING PROTECTION ALARM FEATURE DESIGNED FOR INDIVIDUAL USE, INCLUDING AN ALARM ATTACHED TO A CHILD THAT SOUNDS WHEN THE CHILD EXCEEDS A CERTAIN DISTANCE OR BECOMES SUBMERGED IN WATER, IS NOT A QUALIFYING DROWNING PREVENTION SAFETY

FEATURE. (7) OTHER MEANS OF PROTECTION, IF THE DEGREE OF PROTECTION AFFORDED IS EQUAL TO OR GREATER THAN THAT AFFORDED BY ANY OF THE FEATURES SET FORTH ABOVE AND HAS BEEN INDEPENDENTLY VERIFIED BY AN APPROVED TESTING LABORATORY AS MEETING STANDARDS FOR THOSE FEATURES ESTABLISHED BY THE ASTM OR THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS

(B) BEFORE THE ISSUANCE OF A FINAL APPROVAL FOR THE COMPLETION OF PERMITTED CONSTRUCTION OR REMODELING WORK, THE LOCAL BUILDING CODE OFFICIAL SHALL INSPECT THE DROWNING SAFETY PREVENTION FEATURES REQUIRED BY THIS SECTION AND, IF NO VIOLATIONS ARE FOUND, SHALL GIVE FINAL APPROVAL

NEW AND EXISTING BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS OR APPROVED

INCHES HIGH WITH A MINIMUM STROKE OF .5 INCHES. WHERE ACCESS IS BY MEANS OF A

BUILDING IDENTIFICATION PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FORM

THE STREET OR ROAD FRONTING THE PROPERTY. THESE NUMBERS SHALL BE A MINIMUM OF 4

PRIVATE ROAD AND THE BUILDING CANNOT BE VIEWED FROM THE PUBLIC WAY, A MONUMENT

POLE OR OTHER SIGN OR MEANS SHALL BE USED TO IDENTIFY THE STRUCTURE. CFC SECTION

O. Active exposed areas: Sufficient materials needed to install standby erosion and sediment control BMPs necessary to protect all active exposed areas from erosion and to reduce or prevent sediment discharges shall be stored on site. The total active exposed area shall not exceed that which can be adequately protected by deploying standby erosion control and sediment control BMPs prior to a predicted rain event.

- Inactive exposed areas: All exposed areas not being actively worked in shall be protected from erosion with temporary or permanent BMPs (erosion and sediment control). The ability to deploy standby BMP materials is not sufficient for these areas; erosion and sediment control BMPs must actually be deployed.
- S. Completed areas: Areas that have already been protected from erosion using permanent erosion control BMPs (physical or vegetation) are not considered "exposed". Deployment of permanent erosion control BMPs should commence as soon as practical
- T. Preservation of natural hydrologic features where feasible.
- U. Preservation of riparian buffers and corridors where feasible.
- V. Evaluation and maintenance of all BMPs, until removed.
- W. Retention, reduction, and proper management of all stormwater pollutant discharges on site to the Maximum Extent Practicable (MEP) standard.

NPDES NOTES

- SEDIMENT FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON SITE USING STRUCTURAL CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE.
- STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE
- APPROPRIATE BMP'S FOR CONSTRUCTION-RELATED MATERIALS, WASTES, SPILLS SHALL BE IMPLEMENTED TO MINIMIZE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTIES BY WIND OR RUNOFF
- RUNOFF FROM EQUIPMENT AND VEHICLE WASHING SHALL BE CONTAINED AT CONSTRUCTION SITES UNLESS TREATED TO REDUCE OR REMOVE SEDIMENT AND OTHER POLLUTANTS. ALL CONSTRUCTION CONTRACTOR AND SUBCONTRACTOR PERSONNEL ARE TO BE MADE AWARE
- OR THE REQUIRED BEST MANAGEMENT PRACTICES AND GOOD HOUSEKEEPING MEASURES FOR THE PROJECT SITE AND ANY ASSOCIATED CONSTRUCTION STAGING AREAS. AT THE END OF EACH DAY OF CONSTRUCTION ACTIVITY ALL CONSTRUCTION DEBRIS AND WASTE MATERIALS SHALL BE COLLECTED AND PROPERLY DISPOSED IN TRASH OR RECYCLE BINS
- CONSTRUCTION SITES SHALL BE MAINTAINED IN SUCH A CONDITION THAT AN ANTICIPATED STORM DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITE. DISCHARGES OF MATERIAL OTHER THAN STORMWATER ONLY WHEN NECESSARY FOR PERFORMANCE AND COMPLETION OF CONSTRUCTION PRACTICES AND WHERE THEY DO NOT: CAUSE OR CONTRIBUTE TO A VIOLATION OF ANY WATER QUALITY STANDARD; CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR NUISANCE; OR CONTAIN A HAZARDOUS SUBSTANCE IN A QUANTITY REPORTABLE UNDER FEDERAL REGULATIONS 40 CFR PARTS 117 AND 302.
- POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS; WASTES FROM PAINTS, STAINS, SEALANTS, GLUES, LIMES, PESTICIDES, HERBICIDES, WOOD PRESERVATIVES AND SOLVENTS; ASBESTOS FIBERS, PAINT FLAKES OR STUCCO FRAGMENTS: FUELS, OILS, LUBRICANTS, AND HYDRAULIC, RADIATOR OR BATTERY FLUIDS; FERTILIZERS VEHICLE/EQUIPMENT WASH WATER AND CONCRETE WASH WATER; CONCRETE, DETERGENT OR FLOATABLE WASTES; WASTES FROM ANY ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING AND SUPER CHLORINATED POTABLE WATER LINE FLUSHING. DURING CONSTRUCTION, PERMITTEE SHALL DISPOSE OF SUCH MATERIALS IN A SPECIFIED AND CONTROLLED TEMPORARY AREA ON-SITE, PHYSICALLY SEPARATED FROM POTENTIAL STORMWATER RUNOFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND
- 10. DEWATERING OF CONTAMINATED GROUNDWATER, OR DISCHARGING CONTAMINATED SOILS VIA SURFACE EROSION IS PROHIBITED. DEWATERING OF NON- CONTAMINATED GROUNDWATER REQUIRES A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT FROM THE RESPECTIVE STATE REGIONAL WATER QUALITY CONTROL BOARD.
- 11. GRADED AREAS ON THE PERMITTED AREA PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPES AT THE CONCLUSION OF EACH WORKING DAY. DRAINAGE IS TO BE DIRECTED TOWARD DESILTING FACILITIES.
- 12. THE PERMITTEE AND CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.
- 13. THE PERMITTEE AND CONTRACTOR SHALL INSPECT THE EROSION CONTROL WORK AND INSURE THAT THE WORK IS IN ACCORDANCE WITH THE APPROVED PLANS. 14. THE PERMITTEE SHALL NOTIFY ALL GENERAL CONTRACTORS, SUBCONTRACTORS, MATERIAL
- DRAIN SYSTEM OR THE WATERSHED IS PROHIBITED. 15. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND

SUPPLIERS, LESSEES, AND PROPERTY OWNERS: THAT DUMPING OF CHEMICALS INTO THE STORM

- STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT. 16. ALL REMOVABLE EROSION PROTECTIVE DEVICES SHALL BE IN PLACE AT THE END OF EACH
- WORKING DAY WHEN THE 5-DAY RAIN PROBABILITY FORECAST EXCEEDS 40%. SEDIMENTS FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON SITE USING AN EFFECTIVE COMBINATION OF EROSION AND SEDIMENT CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE, AND STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA
- RUNOFF, VEHICLE TRACKING, OR WIND. 18. APPROPRIATE BMPS FOR CONSTRUCTION-RELATED MATERIALS, WASTES, SPILLS OR RESIDUES SHALL BE IMPLEMENTED AND RETAINED ON SITE TO MINIMIZE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTY BY WIND OR RUNOFF.

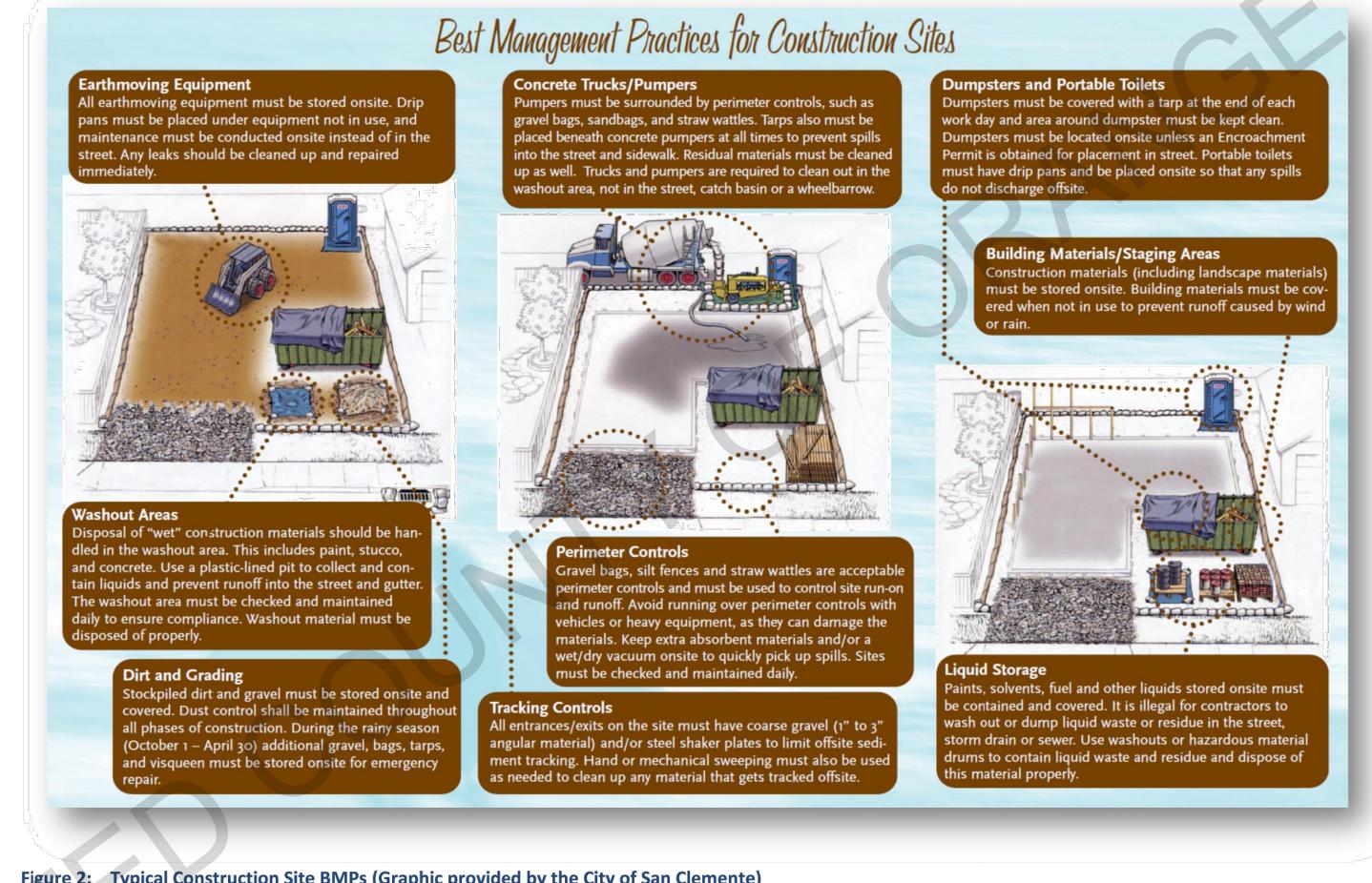


Figure 2: Typical Construction Site BMPs (Graphic provided by the City of San Clemente)

EXISTING LEGAL LOTS THAT HAVE EASEMENTS ACCESS ROADWAYS LESS THAN 20 FEET WIDE THAT

PROVIDE PRIMARY ACCESS TO OTHER LOTS SHALL RECORD A COVENANT GRANTING EASEMENT

TO BUILD ANY BUILDING, WALL, FENCE, OR OTHER STRUCTURE WITHIN 5 FEET OF THE EXISTING

ALL DEAD END FIRE APPARATUS ACCESS ROADWAY IN EXCESS OF 150 FEET IN LENGTH SHALL BE

PROVIDED WITH AND APPROVED AREA FOR TURNING AROUND FIRE APPARATUS. ACCESS ROADS

MINIMUM UNOBSTRUCTED PAVED RADIUS WIDTH FOR A CUL-DE-SAC SHALL BE 36 FEET CURB LINE TO

CURB LINE WITH NO PARKING. ALTERNATE TYPES OF TURN-AROUND (HAMMERHEADS, ETC.) MAY BE

CONSIDERED BY THE FIRE MARSHAL AS NEEDED TO ACCOMPLISH THE INTENT OF THE FIRE CODE.

SERVING MORE THAN (4) FOUR DWELLING UNITS SHALL BE PROVIDED WITH A CUL-DE-SAC. THE

RIGHTS FOR EMERGENCY VEHICLE INGRESS AND EGRESS PURPOSES AND SHALL RELINQUISH RIGHTS

December 2012 Construction Runoff Guidance Manual

County of Orange Pre-Approved **ADU Program**

BY USING THESE PERMIT READY CONSTRUCTION DOCUMENTS, THE RECIPIENT ACKNOWLEDGES,

RESTRICTED TO THE ORIGINAL PROJECT FOR WHICH

ACCESSORY DWELLING UNIT (ADU) PROGRAM FOR

STANDARDIZED ADU PLANS AND SPECIFICATIONS

ORANGE COUNTY **only. This`is á limited set of**

DEPARTMENT. BUILDING CODES DO CHANGE OVER

COMPLIANCE UNDER ALL CODES THEN IN EFFECT

NOT ELIMINATE OR REDUCE THE RECIPIENT'S

AT THE TIME OF THE SUBJECT PERMIT. THIS DOES

INFORMATION RELEVANT TO THE RECIPIENT'S WORK

AND RESPONSIBILITY ON THIS PROJECT. DESIGN

FOR TRANSLATION ERRORS. DO NOT USE THESE

CONSTRUCTION DOCUMENTS IF THE PERMIT HAS

2. THE RECIPIENT RECOGNIZES AND ACKNOWLEDGES

HAT THE USE OF THIS INFORMATION WILL BE AT

THEIR SOLE RISK AND WITHOUT ANY LIABILITY OR

OR IMPLIED. SHALL ATTACH TO THESE DOCUMENTS

AND THE INFORMATION CONTAINED THEREON. ANY

DOCUMENTS BY THE RECIPIENT OR BY OTHERS

WILL BE AT THE RECIPIENT'S RISK AND FULL

RECIPIENT WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, DEFEND, INDEMNIFY AND HOLD

DESIGN PATH STUDIO AND ITS ARCHITECTS

HARMLESS FROM ANY AND ALL CLAIMS, SUITS LIABILITY, DEMANDS, JUDGMENTS, OR COSTS

ARISING OUT OF OR RESULTING THERE FROM ANY

USE OF THESE CONSTRUCTION DOCUMENTS FOR

OR LOSS TO PERSONS OR PROPERTY, DIRECT OF

CONSEQUENTIAL DAMAGES IN ANY AMOUNT, THIS

NEGLIGENCE OR WILLFUL MISCONDUCT OF DESIGN

3. THE DESIGNS REPRESENTED BY THESE PLANS

4. IF THE RECIPIENT DOES NOT AGREE WITH THE

ABOVE CONDITIONS, DO NOT PROCEED WITH

IMPROVEMENT UNDER THESE PLANS AT ALL.

INDEMNITY DOES NOT APPLY TO THE SOLE

ARE COPYRIGHTED AND ARE SUBJECT TO

CONSTRUCTION OF AN ADU OR OTHER

COPYRIGHT PROTECTION.

OR ON ACCOUNT OF ANY INJURY, DEATH, DAMAGE

USE, REUSE, OR ALTERATION OF THESE

LEGAL EXPOSURE TO DESIGN PATH STUDIO. NO WARRANTIES OF ANY NATURE, WHETHER EXPRESS

IT WAS PREPARED FOR THE PERMIT READY

TIME AND RECIPIENT SHALL ENSURE FULL

RESPONSIBILITY TO VERIFY ANY AND ALL

EXPIRED OR IS REVOKED AT ALL

ACCEPTS AND VOLUNTARILY AFFIRMS THE

1. THE USE OF THIS INFORMATION IS

FOLLOWING CONDITIONS:

OWNER NAME:

ADDRESS:

LEGAL DESCRIPTION:

revisions

description

April 03, 2024

project no.

DESIGN PATH STUDIO

4. SECURITY GATES: AN AUTOMATIC GATE ACROSS A FIRE ACCESS ROADWAY OR DRIVEWAY SHALL BE EQUIPPED WITH AN APPROVED EMERGENCY KEY-OPERATED SWITCH OVERRIDING ALL COMMAND FUNCTIONS AND OPENING THE GATE. WHERE THIS SECTION REQUIRES AN APPROVED KEY-OPERATED SWITCH, IT MAY BE DUAL-KEYED OR EQUIPPED WITH DUAL SWITCHES PROVIDED TO FACILITATE ACCESS BY LAW ENFORCEMENT PERSONNEL. (CFC SECTION 503.6 AMENDMENT)

ALL GATES PROVIDING ACCESS FROM A ROAD TO A DRIVEWAY SHALL BE LOCATED A MINIMUM OF 30 FEET FROM THE NEAREST EDGE OF THE ROADWAY AND SHALL BE AT LEAST TWO FEET WIDER THAN THE WIDTH OF THE TRAFFIC LANE(S) SERVING THE

GENERAL NOTES

THAN 13 FEET 6 INCHES.

FIRE NOTES

SEE BUILDING PLANS FOR ALL OTHER DIMENSIONS 7. AND NOTES NOT SHOWN.

ALL FIRE APPARATUS ROADS ACCESS ROADS SHALL HAVE

AN UNOBSTRUCTED VERTICAL CLEARANCE OF NO LESS

- 2. SEE BUILDING PLANS AND SCHEDULES FOR ALL EXTERIOR DOOR AND WINDOW REFERENCES AND
- 3. YARD SETBACKS ARE TO BE MEASURED FROM THE EXTERIOR WALL FINISH TO THE PROPERTY LINE AND NOT FROM THE OUTSIDE OF THE FOOTING (OR FACE OF STUDS). THE PLANS MUST BE DESIGNED WITH THE WALL FINISH THICKNESS (I.E. 7/8" STUCCO, ETC.) ADDED TO THE PLAN FOR THE SETBACK MEASUREMENT. THE FIELD INSPECTOR WILL ADD
- FOUNDATION SETBACK. 4. NEW ELECTRIC SERVICE IS TO BE LOCATED - POOLS, SPAS, WALLS, FENCES, PATIO COVERS AND OTHER 10. FREESTANDING STRUCTURES REQUIRE SEPARATE REVIEWS AND PERMITS
- 5. LANDSCAPE AND IRRIGATION WATER USE SHALL

- ALLOWABLE INCREASE OF BUILDING AREA. DIMENSIONED SETBACKS, MINIMUM SEPARATION FROM EXISTING STRUCTURES AND FUEL MODIFICATION ZONES PER UNIFORM ADMINISTRATIVE CODE SECTION 302. ENTIRE APPROVED GRADING PLAN/IMPROVEMENT PLAN (ALL SHEETS) WITH THE BUILDING PLANS.
- THE PLANNED WALL FINISH THICKNESS TO THE LEAST 24" FROM PROPERTY LINES.
- CAL-OSHA PERMIT IS REQUIRED FOR EXCAVATIONS DEEPER THAN 5' AND SHORING AND UNDERPINNING. A DIMENSIONED SITE PLAN DRAWN TO SCALE SHALL BE PROVIDED SHOWING THE FOLLOWING: NORTH ARROW, PROPERTY LINES, EASEMENTS, STREETS, EXISTING AND PROPOSED BUILDINGS, AND STRUCTURES, LOCATION OF YARDS USED FOR
- PROJECTIONS, INCLUDING EAVES, MUST BE AT
- IF A GRADING PLAN IS REQUIRED, INCORPORATE THE
- HAVE WEATHER OR SOIL BASED CONTROLLERS ADU WILL BE CONNECTED TO THE PUBLIC SEWER SYSTEM OR WILL PROVIDE A COMPLYING SEPTIC

OF ONE-WAY TRAFFIC, SHALL BE NOT LESS THAN 14 FEET THAN TWO SINGLE-FAMILY DWELLING SHALL HAVE A MINIMUM OF 16 FEET OF UNOBSTRUCTED IMPROVED WIDTH. WIDE PER LANE.

3. SITE PLAN SHALL PROVIDE DIMENSIONS SHOWING REQUIRED

LESS THAN 24 FEET,

FIRE APPARATUS ACCESS ROADS. FIRE ACCESS ROADWAYS

SHALL HAVE AN UNOBSTRUCTED IMPROVED WIDTH OF NOT

EXCEPTIONS: 1. RESIDENTIAL DWELLINGS NOT IN THE VERY

20 FEET OF UNOBSTRUCTED IMPROVED WIDTH. 2.

HIGH FIRE HAZARD SEVERITY ZONE SHALL HAVE MINIMUM OF

SINGLE-FAMILY RESIDENTIAL DRIVEWAYS SERVING NO MORE

SITE SHALL BE PLANNED AND DEVELOPED TO KEEP SURFACE WATER AWAY FROM BUILDINGS. PLANS SHALL BE PROVIDED AND APPROVED BY THE CITY ENGINEER THAT SHOW SITE GRADING AND PROVIDE FOR STORM WATER RETENTION AND DRAINAGE DURING CONSTRUCTION. BMP'S THAT ARE CURRENTLY ENFORCED BY THE CITY ENGINEER MUST BE

IMPLEMENTED PRIOR TO INITIAL INSPECTION BY THE BUILDING DEPT.

GREEN BUILDING CODE NOTES

FIRE ACCESS ROADWAYS

SURFACE FIRE APPARATUS ACCESS ROADS SHALL BE

PROVIDE ALL-WEATHER DRIVING CAPABILITIES.

DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED

LOADS OF FIRE APPARATUS NOT LESS THAN 75,000 LBS AND

GATED ENTRANCES WITH CARD READERS, GUARD STATIONS

OR CENTER MEDIANS, WHICH WILL HAVE SEPARATED LANES

SHALL BE PROVIDED WITH AN APPROVED PACED SURFACE TO

2. 65 % OF CONSTRUCTION WASTE IS TO BE RECYCLED.

BLEEDING, SHRINKAGE AND CURLING SHALL BE USED.

- VOC'S MUST COMPLY WITH THE LIMITATION LISTED IN SECTION 4.504.3 AND TABLES 4.504.1, 4.504.2, 4.504.3, AND 4.504.4 FOR: ADHESIVES, PAINTS AND COATINGS, CARPET AND COMPOSITION WOOD PRODUCTS.
- INTERIOR MOISTURE CONTROL AT SLAB ON GRADE FLOORS SHALL BE PROVIDED BY THE SOIL ENGINEER. IF A SOIL ENGINEER HAS NOT PREPARED A SOIL REPORT FOR THIS PROJECT, THE FOLLOWING IS REQUIRED: A 4" THICK BASE OF 1/2" OR LARGER CLEAN AGGREGATE SHALL BE PROVIDED WITH A VAPOR BARRIER IN DIRECT CONTACT WITH CONCRETE, WITH A CONCRETE MIX DESIGN WHICH WILL ADDRESS
- MOISTURE CONTENT OF WOOD SHALL NOT EXCEED 19% BEFORE IT IS ENCLOSED IN CONSTRUCTION. THE MOISTURE CONTENT NEEDS TO BE CERTIFIED BY ONE OF 3 METHODS SPECIFIED. BUILDING MATERIAL WITH VISIBLE SIGNS OF WATER DAMAGE SHOULD NOT BE USED IN CONSTRUCTION. THE MOISTURE CONTENT MUST BE DETERMINED BY THE CONTRACTOR BY ONE OF THE LISTED METHODS LISTED IN CGC SECTION 4.503.3

ACCESS EASEMENT.

- 6. PRIOR TO FINAL APPROVAL OF THE BUILDING THE LICENSED CONTRACTOR, ARCHITECT OR ENGINEER IN RESPONSIBLE AND SIGN THE GREEN BUILDING STANDARDS CERTIFICATION FORM AND GIVEN TO THE BUILDING DEPT OFFICIAL TO BE FILED WITH THE APPROVED PLANS
- 7. LANDSCAPE IRRIGATION WATER USE SHALL HAVE WEATHER BASED CONTROLLERS.
- 8. PROJECTS WHICH DISTURB LESS THAN ONE ACRE OF SOIL SHALL MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION BY ONE OF THE FOLLOWING: A. RETENTION BASIN. B. WHERE STORM WATER IS CONVEYED TO A PUBLIC DRAINAGE SYSTEM, WATER SHALL BE FILTERED BY USE OF A BARRIER SYSTEM, WATTLE OR OTHER APPROVED METHOD. CGC 4.106.2.
- THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN TO THE JURISDICTION AGENCY THAT REGULATES WASTE MANAGEMENT, PER CGC 4.408.2.
- AT THE TIME OF FINAL INSPECTION. CGC 4.410.0
- 11. DURING CONSTRUCTION, ENDS OF DUCT OPENINGS ARE TO BE SEALED, AND MECHANICAL EQUIPMENT IS TO BE COVERED. CGC 4.504.1
 - THE OUTSIDE AND CONTROLLED BY A HUMIDISTAT.

- CHARGE OF THE OVERALL CONSTRUCTION MUST COMPLETE 10. THE BUILDER IS TO PROVIDE AN OPERATION MANUAL (CONTAINING INFORMATION FORM MAINTAINING APPLIANCES, ETC.) FOR THE OWNER
 - 12. BATHROOM FANS SHALL BE ENERGY STAR RATED, VENTED DIRECTLY TO

DIVISION 2 - SITEWORK

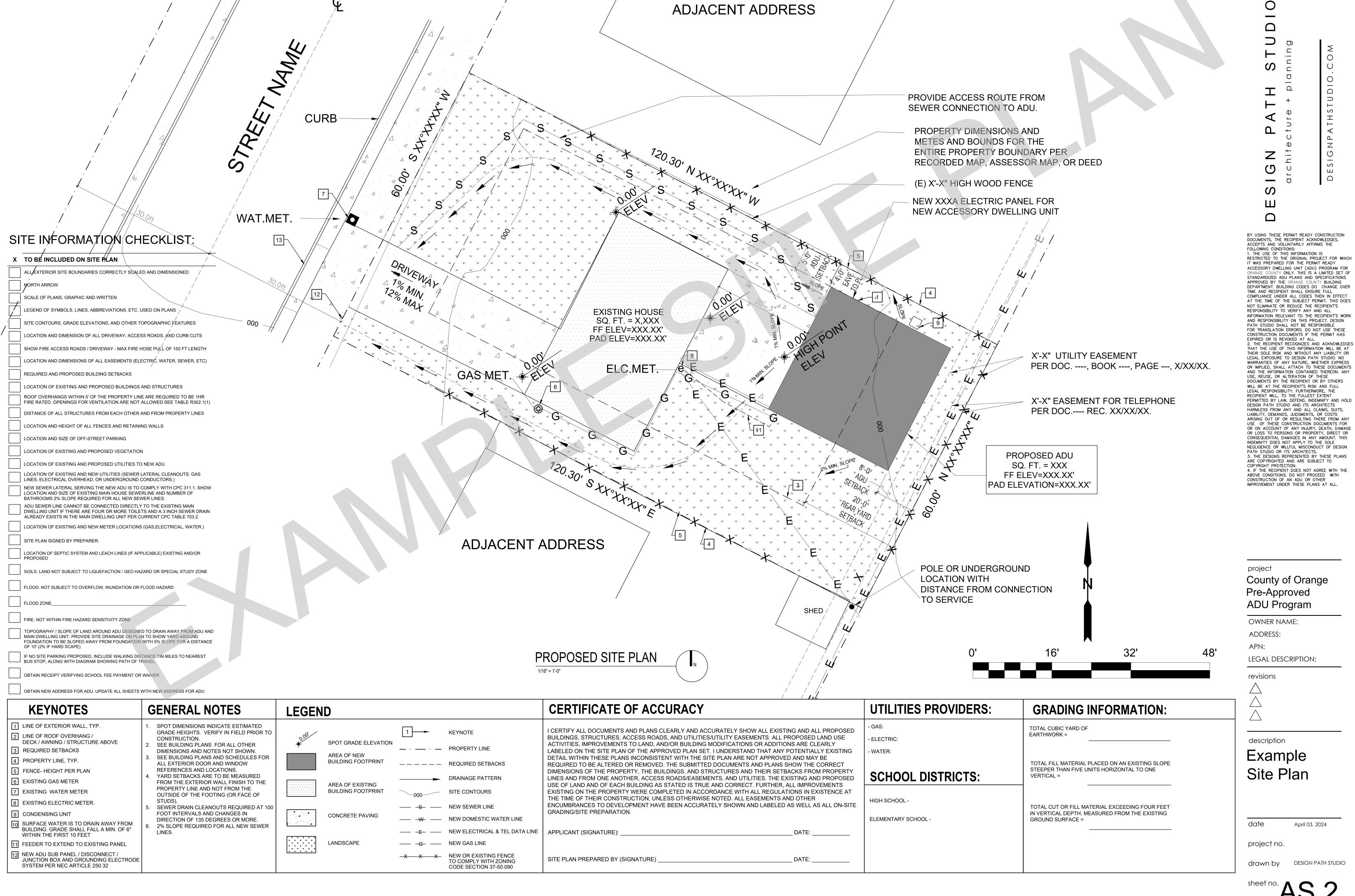
PROJECT IS TO BE STAKED OUT FOR OWNER APPROVAL BEFORE FOR EARTHWORKIS TO

Orange County Stormwater Program

- CONTRACTOR WILL VERIFY WITH OWNER ALL PLANTING TO BE REMOVED PRIOR TO STARTING WORK.
- THE CONTRACTOR WILL VISIT THE SITE AND EVALUATE GRADE CONDITION. FOR BIDDING PURPOSES, THE CONTRACTOR WILL CALCULATE HIS OWN CUT AND FILL QUANTITIES BASED
- 4. SHORING IS TO BE PROVIDE AS REQUIRED

ON THE SITE PLAN.

- a. REMOVE AND RECOMPACT LOOSE TOPSOIL AND SLIGHTLY ALTER THE EXISTING TOPOGRAPHY. ALL GRADING SHOULD BE PERFORMED IN ACCORDANCE WITH THE CITY OF **ENCINITAS GRADING ORDINANCE**
- b. THE CONTRACTOR IS TO VERIFY THE LOCATION OF UTILITY SERVICE IN THE AREA PRIOR TO EXCAVATION. c. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, ALL FINISH GRADES ARE TO SLOPE
- AWAY FROM THE BUILDING AND EXTERIOR PAVING 1/4" PER FOOT MINIMUM FOR A MINIMUM DISTANCE OF 5'-0". LOT DRAINAGE TO AVOID POOLING AT BUILDING.



2022 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

CHAPTER 3 4.303.1.4.1 Residential Lavatory Faucets. The maximum flow rate of residential lavatory faucets shall **GREEN BUILDING** not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall not be less than 0.8 gallons per minute at 20 psi. **SECTION 301 GENERAL** 4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas. - NOT USED **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 4.303.1.4.3 Metering Faucets. - NOT USED 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. **4.303.1.4.4 Kitchen Faucets.** The maximum flow rate of kitchen faucets shall not exceed 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not 301.1.1 Additions and alterations. [HCD] The mandatory provisions of Chapter 4 shall be applied to to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per 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. Note: Where complying faucets are unavailable, aerators or other means may be used to achieve The mandatory provision of Section 4.106.4.2 may apply to additions or alterations of existing parking facilities or the addition of new parking facilities serving existing multifamily buildings. See Section 4.303.1.4.5 Pre-rinse spray valves. - NOT USED 4.106.4.3 for application. 4.303.2 Submeters for multifamily buildings and dwelling units in mixed-used residential/commercial Note: Repairs including, but not limited to, resurfacing, restriping and repairing or maintaining existing buildings. - NOT USED lighting fixtures are not considered alterations for the purpose of this section. 4.303.3 Standards for plumbing fixtures and fittings. Plumbing fixtures and fittings shall be installed in Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures. 1701.1 of the California Plumbing Code. 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 seg., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and THIS TABLE COMPILES THE DATA IN SECTION 4.303.1. AND IS INCLUDED AS A other important enactment dates. CONVENIENCE FOR THE USER. TABLE - MAXIMUM FIXTURE WATER USE 301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] - NOT USED **FIXTURE TYPE** FLOW RATE **SECTION 302 MIXED OCCUPANCY BUILDINGS** SHOWER HEADS (RESIDENTIAL) 1.8 GMP @ 80 PSI **302.1 MIXED OCCUPANCY BUILDINGS. - NOT USED** MAX. 1.2 GPM @ 60 PSI MIN. 0.8 GPM @ 20 **DIVISION 4.1 PLANNING AND DESIGN** LAVATORY FAUCETS (RESIDENTIAL) **ABBREVIATION DEFINITIONS:** LAVATORY FAUCETS IN COMMON & PUBLIC 0.5 GPM @ 60 PSI Department of Housing and Community Development USE AREAS California Building Standards Commission 1.8 GPM @ 60 PSI KITCHEN FAUCETS Division of the State Architect, Structural Safety OSHPD Office of Statewide Health Planning and Development METERING FAUCETS 0.2 GAL/CYCLE Low Rise High Rise WATER CLOSET 1.28 GAL/FLUSH Additions and Alterations URINALS 0.125 GAL/FLUSH CHAPTER 4 4.304 OUTDOOR WATER USE RESIDENTIAL MANDATORY MEASURES 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 **SECTION 4.102 DEFINITIONS** Efficient Landscape Ordinance (MWELO), whichever is more stringent. 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 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 pervious material used to collect or channel drainage or runoff water. available at: https://www.water.ca.gov/ WATTLES. Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials such as hav, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE 4.106 SITE DEVELOPMENT **EFFICIENCY 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, 4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE management of storm water drainage and erosion controls shall comply with this section. 4.406.1 RODENT PROOFING. Annular spaces around pipes, electric cables, conduits or other openings in sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such 4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. Projects which disturb less openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing 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 4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING property, prevent erosion and retain soil runoff on the site. **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 1. Retention basins of sufficient size shall be utilized to retain storm water on the site. 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste 2. Where storm water is conveyed to a public drainage system, collection point, gutter or similar management ordinance. disposal method, water shall be filtered by use of a barrier system, wattle or other method approved **Exceptions:** 3. Compliance with a lawfully enacted storm water management ordinance. Excavated soil and land-clearing debris. 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. 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 (Website: https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html) 3. 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. **4.106.3 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 4.408,2 CONSTRUCTION WASTE MANAGEMENT PLAN. Submit a construction waste management plan water include, but are not limited to, the following: 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. 2. Water collection and disposal systems Identify the construction and demolition waste materials to be diverted from disposal by recycling, 3. French drains reuse on the project or salvage for future use or sale. Water retention gardens 2. Specify if construction and demolition waste materials will be sorted on-site (source separated) or 5. Other water measures which keep surface water away from buildings and aid in groundwater bulk mixed (single stream). Identify diversion facilities where the construction and demolition waste material collected will be **Exception**: Additions and alterations not altering the drainage path. 4. Identify construction methods employed to reduce the amount of construction and demolition waste 4.106.4 Electric vehicle (EV) charging for new construction. - NOT USED Specify that the amount of construction and demolition waste materials diverted shall be calculated 4.106.4.2 New multifamily dwellings, hotels and motels and new residential parking facilities. - NOT USED by weight or volume, but not by both. 4.106.4.3 Electric vehicle charging for additions and alterations of parking facilities serving existing multifamily buildings. - NOT USED 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. DIVISION 4.2 ENERGY EFFICIENCY Note: The owner or contractor may make the determination if the construction and demolition waste **4.201 GENERAL** materials will be diverted by a waste management company. **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. 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 DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION 4.303 INDOOR WATER USE 4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE. Projects that generate a total combined 4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and weight of construction and demolition waste disposed of in landfills, which do not exceed 2 pounds urinals) and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, per square foot of the building area, shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1 Note: All noncompliant plumbing fixtures in any residential real property shall be replaced with water-conserving 4.408.5 DOCUMENTATION. Documentation shall be provided to the enforcing agency which demonstrates plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final compliance with Section 4.408.2, items 1 through 5, Section 4.408.3 or Section 4.408.4... 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. 1. Sample forms found in "A Guide to the California Green Building Standards Code 4.303.1.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per (Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense documenting compliance with this section. Specification for Tank-type Toilets. 2. Mixed construction and demolition debris (C & D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle). 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. 4.410 BUILDING MAINTENANCE AND OPERATION **4.410.1 OPERATION AND MAINTENANCE MANUAL.** At the time of final inspection, a manual, compact 4.303.1.2 Urinals. - NOT USED disc, web-based reference or other media acceptable to the enforcing agency which includes all of the following shall be placed in the building: 4.303.1.3 Showerheads 1. Directions to the owner or occupant that the manual shall remain with the building throughout the **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 2. Operation and maintenance instructions for the following: WaterSense Specification for Showerheads. a. Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major **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.

appliances and equipment.

 Landscape irrigation systems. e. Water reuse systems.

b. Roof and yard drainage, including gutters and downspouts.

c. Space conditioning systems, including condensers and air filters.

3. Information from local utility, water and waste recovery providers on methods to further reduce

and 94701. 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

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. Information about water-conserving landscape and irrigation design and controllers which conserve 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 waster, and metals, or meet a lawfully enacted local recycling **Exception:** Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 42649.82 (a)(2)(A) et seq. are note required to comply with the organic waste portion of **DIVISION 4.5 ENVIRONMENTAL QUALITY SECTION 4.501 GENERAL** The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorous, 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 hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated wood I-joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section 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. 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 ROC). Note: MIR values for individual compounds and hydrocarbon solvents are specified in CCR, Title 17, Sections 94700 MOISTURE CONTENT. The weight of the water in wood expressed in percentage of the weight of the oven-dry wood. 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). REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere **VOC.** A volatile organic compound (VOC) broadly defined as a chemical compound based on carbon chains or rings with vapor 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 94508(a). **4.503.1 GENERAL**. Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances. 4.504 POLLUTANT CONTROL 4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. At the time of rough installation, during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of water, dust or debris which may enter the system. 4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with this section. 4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealant and caulks used on the project shall meet the requirements of the following standards unless more stringent local or regional air pollution or air quality 1. 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 SCAQMD 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 tricloroethylene), except for aerosol products, as specified in Subsection 2 below. 2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than 1 pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with section 94507. 4.504.2.2 Paints and Coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Suggested Control Measure, as shown in Table 4.504.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 4.504.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 4.504.3 shall apply. 4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and coatings shall meet the Product-weighted MIR Limits for ROC in Section 94522(a)(2) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(e)(1) and (f)(1) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation **4.504.2.4 Verification.** Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following: 1. Manufacturer's product specification. 2. Field verification of on-site product containers. 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 2017 (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/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx.

Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January

(Emission testing method for California Specification 01350)

https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx.

See California Department of Public Health's website for certification programs and testing labs.

See California Department of Public Health's website for certification programs and testing labs.

4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 4.504.1.

4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring is installed , at least 80% of floor area

Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using

receiving resilient flooring shall meet the requirements of the California Department of Public Health, "Standard

Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350)

DIVISION 4.5 ENVIRONMENTAL QUALITY (continued) 4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the 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 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: 1. Product certifications and specifications. 2. Chain of custody certifications. 3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.). 4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269, European 636 3S standards, and Canadian CSA 0121, CSA 0151, CSA 0153 and CSA 0325 standards. 5. Other methods acceptable to the enforcing agency. 4.505 INTERIOR MOISTURE CONTROL 4.505.1 General. Buildings shall meet or exceed the provisions of the California Building Standards Code. **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. **4.505.2.1 Capillary break.** A capillary break shall be installed in compliance with at least one of the 1. 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 curling, shall be used. For additional information, see American Concrete Institute, ACI 302.2R-06. 2. Other equivalent methods approved by the enforcing agency. 3. A slab design specified by a licensed design professional. **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:

1. 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. 2. 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. 3. 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.

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

4.506 INDOOR AIR QUALITY AND EXHAUST 4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanically ventilated and shall comply with the

1. Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building. 2. Unless functioning as a component of a whole house ventilation system, fans must be controlled by a

a. Humidity controls shall be capable of adjustment between a relative humidity range less than or equal to 50% to a maximum of 80%. A humidity control may utilize manual or automatic means of

b. A humidity control may be a separate component to the exhaust fan and is not required to be integral (i.e., built-in)

1. For the purposes of this section, a bathroom is a room which contains a bathtub, shower or

tub/shower combination 2. Lighting integral to bathroom exhaust fans shall comply with the California Energy Code.

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:

1. 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.

2. Duct systems are sized according to ANSI/ACCA 1 Manual D - 2014 (Residential Duct Systems), ASHRAE handbooks or other equivalent design software or methods.

3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S - 2014 (Residential Equipment Selection), or other equivalent design software or methods.

Exception: Use of alternate design temperatures necessary to ensure the system functions are

INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS 702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

. State certified apprenticeship programs.

5. Other programs acceptable to the enforcing agency.

Public utility training programs. 3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. 4. Programs sponsored by manufacturing organizations.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

1. Certification by a national or regional green building program or standard publisher. 2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.

3. Successful completion of a third party apprentice training program in the appropriate trade. 4. Other programs acceptable to the enforcing agency.

1. Special inspectors shall be independent entities with no financial interest in the materials or the

project they are inspecting for compliance with this code. 2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

[BSC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

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.

BY USING THESE PERMIT READY CONSTRUCTION

Z

FOLLOWING CONDITIONS: . THE USE OF THIS INFORMATION IS RESTRICTED TO THE ORIGINAL PROJECT FOR WHICH WAS PREPARED FOR THE PERMIT READY ACCESSORY DWELLING UNIT (ADU) PROGRAM FOR RANGE COUNTY ONLY. THIS IS A LIMITED SET OF STANDARDIZED ADU PLANS AND SPECIFICATIONS APPROVED BY THE ORANGE COUNTY BUILDING DEPARTMENT, BUILDING CODES DO CHANGE OVER TIME AND RECIPIENT SHALL ENSURE FULL COMPLIANCE UNDER ALL CODES THEN IN EFFECT AT THE TIME OF THE SUBJECT PERMIT. THIS DOES NOT ELIMINATE OR REDUCE THE RECIPIENT'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION RELEVANT TO THE RECIPIENT'S WORK AND RESPONSIBILITY ON THIS PROJECT. DESIGN PATH STUDIO SHALL NOT BE RESPONSIBLE

DOCUMENTS, THE RECIPIENT ACKNOWLEDGES,

ACCEPTS AND VOLUNTARILY AFFIRMS THE

FOR TRANSLATION ERRORS. DO NOT USE THESE CONSTRUCTION DOCUMENTS IF THE PERMIT HAS EXPIRED OR IS REVOKED AT ALL. 2. THE RECIPIENT RECOGNIZES AND ACKNOWLEDGES THAT THE USE OF THIS INFORMATION WILL BE AT THEIR SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL EXPOSURE TO DESIGN PATH STUDIO. NO WARRANTIES OF ANY NATURE, WHETHER EXPRESS OR IMPLIED. SHALL ATTACH TO THESE DOCUMENTS AND THE INFORMATION CONTAINED THEREON, ANY USE, REUSE, OR ALTERATION OF THESE DOCUMENTS BY THE RECIPIENT OR BY OTHERS WILL BE AT THE RECIPIENT'S RISK AND FULL LEGAL RESPONSIBILITY. FURTHERMORE, THE RECIPIENT WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, DEFEND, INDEMNIFY AND HOLD DESIGN PATH STUDIO AND ITS ARCHITECTS HARMLESS FROM ANY AND ALL CLAIMS, SUITS, LIABILITY, DEMANDS, JUDGMENTS, OR COSTS

ARISING OUT OF OR RESULTING THERE FROM ANY USE OF THESE CONSTRUCTION DOCUMENTS FOR OR ON ACCOUNT OF ANY INJURY, DEATH, DAMAGE OR LOSS TO PERSONS OR PROPERTY, DIRECT OR CONSEQUENTIAL DAMAGES IN ANY AMOUNT. THIS INDEMNITY DOES NOT APPLY TO THE SOLE NEGLIGENCE OR WILLFUL MISCONDUCT OF DESIGN PATH STUDIO OR ITS ARCHITECTS. 3. THE DESIGNS REPRESENTED BY THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION.

4. IF THE RECIPIENT DOES NOT AGREE WITH THE ABOVE CONDITIONS, DO NOT PROCEED WITH CONSTRUCTION OF AN ADU OR OTHER IMPROVEMENT UNDER THESE PLANS AT ALL.

County of Orange Pre-Approved **ADU Program**

OWNER NAME:

ADDRESS:

APN:

LEGAL DESCRIPTION:

revisions

description

April 03, 2024

project no.

DESIGN PATH STUDIO drawn by

resource consumption, including recycle programs and locations. hhtps://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx. DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING VERIFICATION WITH THE FULL CODE. THESE PLANS/SPECIFICATIONS AND ALL WORK SHALL COMPLY WITH CURRENT EDITION OF STATE OF CALIFORNIA TITLE 24 CCR

AND CURRENT CPC, CMC AND CEC CODES

- 3. DETAILS ARE INTENDED TO SHOW METHOD AND MANNER OF ACCOMPLISHING WORK. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT THE JOB DIMENSIONS OR CONDITIONS AND IS TO BE REVIEWED AND APPROVED BY THE COUNTY OF ORANGE.
- 4. VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE AND STAKE OUT STRUCTURE FOR OWNER'S APPROVAL PRIOR TO STARTING ANY WORK.
- 5. ALL WEATHER-EXPOSED SURFACES ARE TO HAVE A WEATHER-RESISTIVE BARRIER TO PROTECT THE INTERIOR WALL COVERING AND THAT EXTERIOR OPENINGS ARE TO BE FLASHED IN SUCH A MANNER AS TO MAKE THEM WEATHERPROOF.
- 6. SPECIFICATIONS FOR EQUIPMENT SHALL BE KEPT ON SITE TO PROVIDE TO THE COUNTY OF ORANGE BUILDING INSPECTOR
- 7. AN ENCROACHMENT PERMIT IS REQUIRED FOR ANY CONSTRUCTION, RECONSTRUCTION, OR CLOSURE OR THE ROADWAY, SIDEWALK OR RIGHT OF WAY. APPLICANT SHALL CONTACT ENGINEERING DEPARTMENT TO PROCESS.
- 8. APPLICANT IS RESPONSIBLE TO PROVIDE SITE PLAN (PLOT PLAN) TO THE CITY FOR REVIEW AND APPROVAL.
- 2. APPLICANT IS RESPONSIBLE TO VERIFY WHETHER THE JOB SITE IS LOCATED WITHIN A FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD ZONE. PROJECTS LOCATED IN A SPECIAL FLOOD HAZARD AREA DESIGNATED ON THE FLOOD INSURANCE RATE MAP (FIRM) AS ZONE A OR AE, SHALL PROVIDE AN ELEVATION CERTIFICATE WITH SUPPORTED DOCUMENTS TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO BUILDING PERMIT ISSUANCE.
- SUBMIT GRADING PLANS AND/OR PROVIDE ADU GRADING
 PERMIT EXEMPTION CHECKLIST FOR REVIEW AND APPROVAL AT
 TIME OF PERMIT APPLICATION.
- 11. THE PV SYSTEM WILL BE SUBMITTED UNDER A SEPARATE PERMIT A PHOTOVOLTAIC (SOLAR) SYSTEM BUILDING AND ELECTRICAL PERMIT SHALL BE ISSUED PRIOR TO ADU BUILDING FRAME INSPECTION REQUEST.
- 2. SOIL REPORT REQUIREMENT: IF A SOILS REPORT IS REQUIRED BY THE LOCAL JURISDICTION, THE GEOTECHNICAL INVESTIGATIONS SHALL BE CONDUCTED IN ACCORDANCE WITH CBC SECTION 1803.2 AND REPORTED IN ACCORDANCE WITH CBC SECTION 1803.6. -THE GEOTECHNICAL ENGINEER OF RECORD SHALL REVIEW THE CITY APPROVED PLANS FOR GENERAL CONFORMANCE WITH THE SOIL REPORT; OTHERWISE, AN ALTERNATE FOUNDATION PLAN DESIGNED BY A CALIFORNIA REGISTERED CIVIL ENGINEER IS REQUIRED

ROOF NOTES

- 1. FLASHINGS SHALL BE INSTALLED IN A MANNER THAT PREVENTS MOISTURE FROM ENTERING THE WALL AND ROOF THROUGH JOINTS IN COPINGS, THROUGH MOISTURE PERMEABLE MATERIALS AND AT INTERSECTIONS WITH PARAPET WALLS AND OTHER PENETRATIONS THROUGH THE ROOF PLANE.
- 2. UNLESS ROOFS ARE SLOPED TO DRAIN OVER ROOF EDGES, ROOF DRAINS SHALL BE INSTALLED AT EACH LOW POINT OF ROOF.
- 3. ROOF ASSEMBLIES SHALL BE OF MATERIALS THAT ARE COMPATIBLE WITH EACH OTHER AND WITH THE BUILDING OR STRUCTURE TO WHICH THE MATERIALS ARE APPLIED.
- 4. BUILDING-INTEGRATED PHOTOVOLTAIC PRODUCTS INSTALLED AS THE ROOF COVERING SHALL BE TESTED, LISTED AND LABELED FOR FIRE CLASSIFICATION IN ACCORDANCE WITH SECTION R902.1 THROUGH R902.1.4.
- 5. ASPHALT SHINGLES SHALL BE USED ONLY ON ROOF SLOPES OF TWO UNITS VERTICAL IN 12 UNITS HORIZONTAL (17-PERCENT SLOPE) OR GREATER. FOR ROOF SLOPES FROM TWO UNITS VERTICAL IN 12 UNITS HORIZONTAL (17-PERCENT SLOPE) UP TO FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (33-PERCENT SLOPE), DOUBLE UNDERLAYMENT APPLICATION IS REQUIRED IN ACCORDANCE WITH SECTION R905.1.1.
- 6. CLAY AND CONCRETE ROOF TILE SHALL BE INSTALLED ON ROOF SLOPES OF TWO AND ONE-HALF UNITS VERTICAL IN 12 UNITS HORIZONTAL (25-PERCENT SLOPE) OR GREATER. FOR ROOF SLOPES FROM TWO AND ONE-HALF UNITS VERTICAL IN 12 UNITS HORIZONTAL (25-PERCENT SLOPE) TO FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (33-PERCENT SLOPE), DOUBLE UNDERLAYMENT APPLICATION IS REQUIRED IN ACCORDANCE WITH SECTION R905.3.3.
- 7. SLATE SHINGLES SHALL BE USED ONLY ON SLOPES OF FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (33-PERCENT SLOPE) OR GREATER.
- 8. THE MINIMUM SLOPE FOR STANDING-SEAM ROOF SYSTEMS SHALL BE ONE-QUARTER UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE).
- 9. BUILT-UP ROOFS SHALL HAVE A DESIGN SLOPE OF NOT LESS THAN ONE-FOURTH UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE) FOR DRAINAGE, EXCEPT FOR COAL-TAR BUILT-UP ROOFS, WHICH SHALL HAVE A DESIGN SLOPE OF A MINIMUM ONE-EIGHTH UNIT VERTICAL IN 12 UNITS HORIZONTAL (1-PERCENT SLOPE).
- 10. MINERAL-SURFACED ROLL ROOFING SHALL NOT BE APPLIED ON ROOF SLOPES BELOW ONE UNIT VERTICAL IN 12 UNITS HORIZONTAL (8-PERCENT SLOPE).
- 11. MODIFIED BITUMEN ROOFING SHALL HAVE A DESIGN SLOPE OF NOT LESS THAN ONE-FOURTH UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE) FOR DRAINAGE.
- 2. SINGLE-PLY MEMBRANE ROOFS SHALL HAVE A DESIGN SLOPE OF NOT LESS THAN ONE-FOURTH UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE) FOR DRAINAGE.
- 13. A CLASS A ROOF ASSEMBLY SHALL BE INSTALLED. IF THE APPLICANT DEVIATES FROM THE ROOF SPECIFICATIONS ON SHEET T1.1 THE APPLICANT SHALL PROVIDE A COPY OF THE ICC/UL LISTING

ROOF NOTES (CONT'D)

14. FOR PHOTOVOLTAIC ARRAYS OCCUPYING NOT MORE THAN 33 PERCENT OF THE PLAN VIEW TOTAL ROOF AREA, NOT LESS THAN AN 18-INCH (457 MM) CLEAR SETBACK IS REQUIRED ON BOTH SIDES OF A HORIZONTAL RIDGE. FOR PHOTOVOLTAIC ARRAYS OCCUPYING MORE THAN 33 PERCENT OF THE PLAN VIEW TOTAL ROOF AREA, NOT LESS THAN A 36-INCH (914 MM) CLEAR SETBACK IS REQUIRED ON BOTH SIDES OF A HORIZONTAL RIDGE.

15. PER SECTION R806.5/EM3.9.6:
a. IF INSULATION IS AIR PERMEABLE AND IT IS INSTALLED
DIRECTLY BELOW THE ROOF SHEATHING WITH RIGID BOARD OR
SHEET INSULATION WITH A MINIMUM R-4 VALUE INSTALLED
ABOVE THE ROOM SHEATHING. (OR)
b. IF THE INSULATION IS AIR-IMPERMEABLE AND IS IN DIRECT
CONTACT WITH THE UNDERSIDE OF THE OF THE ROOF
SHEATHING. (OR)

c. IF TWO LAYERS OF INSULATION ARE INSTALLED BELOW THE ROOF SHEATHING:
AN AIR-IMPERMEABLE LAYER IN DIRECT CONTACT WITH THE UNDERSIDE OF THE ROOF SHEATHING AND AN ADDITIONAL LAYER OF AIR PERMEABLE INSULATION IS TO BE INSTALLED

FLOOR PLAN NOTES

DIRECTLY UNDER THE AIR-IMPERMEABLE INSULATION

- ALL DIMENSIONS TO FACE OF STUD, U.N.O.

 ALL DOORS SHOULD BE 3 1/2" FROM NEAREST INTERSECTING WALL AT HINGED SIDE, U.N.O.
- WRITTEN DIMENSIONS TO PREVAIL OVER SCALING OF DRAWINGS. CONTRACTOR TO VERIFY ALL DIM. PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY OWNER OF ANY DISCREPANCIES.
- 4. REFER TO FRAMING PLANS AND SECTIONS FOR CLARIFICATION AND DIM. NOT SHOWN.
- 5. ALL ROOF DRAIN PIPES TO BE MIN. 2" STORM DRAINAGE SYSTEM UNLESS LOCAL CODE REQUIRES LARGER DRAIN SIZES. ROOF GUTTERS:
- STYLE A . INSTALLED AND DESIGNED IN ACCORDANCE WITH SMACNA MANUAL, PLATE #1,#2 & #3,GUTTER. PAGE 6 11, WIDTH AS REQUIRED TO HANDLE THE AMOUNT OF ROOF WATER FOR MAXIMUM STORMS, SMACNA CHART #2, PAGE #2. GUTTER: SIZE; PAGES 1,2, 3, 4, 5 &6, CHARTS#1,#2,#3,#4,#5#6 & #7

STYLE; PLATE #2, STYLE A, PAGE 9
EXPANSION; PLATE #6, PAGE 16 &17
HANGING; PLATE #19, FIG. C, PAGE 43.
DOWN SPOUTS:

PLAIN RECTANGULAR.AS REQUIRED BY SMACNA MANUAL CHART #3, PAGE #3. SEE ARCHITECT FOR LOCATIONS OF DOWN SPOUTS. ALL DOWN SPOUTS ARE TO BE DESIGNED TO HANDLE THE AMOUNT OF ROOF WATER FOR MAXIMUM STORMS, SMACNA CHART #2, PAGE #2. DOWN SPOUTS ARE TO DEPOSIT DIRECTLY OVER A NDS 6 INCH SQUARE, MODEL 641 OR APPROVED EQUAL.(SEE SECTION 02710 MORE INFORMATION)

- TRANSITION OF FLOOR MATERIALS OCCURRING IN OPENINGS WITH DOORS TO BE LOCATED UNDER THE CENTER OF THE DOOR IN THE CLOSED POSITION. TRANSITION OF FLOOR MATERIAL OCCURRING WITH NO DOOR TO BE LOCATED TO ALIGN WITH THE FACE OF THE PARTITION, U.O.N
- DIFFUSERS AND GRILLS TO MATCH COLOR OF SURFACE AT WHICH THEY ARE MOUNTED, U.O.N.
- FLOOR FINISH TO CONTINUE UNDER MILLWORK WHERE FLOOR IS VISIBLE (I.E. TRASH, RECYCLING, ECT.) 8. SILICON SEALANT AT GLAZING TO BE CLEAR, U.O.N.
- PLUMBING, ELECTRICAL, AND SPRINKLER EQUIPMENT, IF REQUIRED TO BE PAINTED
- TO MATCH COLOR OF ADJACENT SURFACE.
- ALL FINISH MATERIAL MUST MEET ALL APPLICATION FIRE, LIFE SAFETY, AND BUILDING CODES. 80% OF FLOOR AREA RECEIVING RESILIENT FLOORING SHALL COMPLY WITH SPECIFIED VOC CRITERIA. PARTICLE BOARD, MDF AND PLYWOOD USED IN INTERIOR FINISH SYSTEMS SHALL COMPLY WITH LOW FORMALDEHYDE EMISSION STANDARDS.
- OPERATION AND MAINTENANCE MANUAL: THE BUILDER IS TO PROVIDE AN OPERATION MANUAL (CONTAINING INFORMATION FOR MAINTAINING APPLIANCES, ETC.) FOR THE OWNER AT THE TIME OF FINAL INSPECTION.
- 2. WEEP SCREED FOR STUCCO AT THE FOUNDATION PLATE LINE SHALL BE A MIN. OF 4" ABOVE THE EARTH OR 2" ABOVE PAVED AREAS. CRC R703.7.2.1, CBC 2512.1.2
- FASTENERS AND CONNECTIONS (NAILS, ANCHORS BOLTS ECT) IN CONTACT WITH PRESERVATIVE -TREATED WOOD SHALL BE OF HOT -DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. (CRC R317.3, CBC 2304.10.5.1)
- ANCHOR BOLTS SHALL INCLUDE STEEL PLATE WASHERS A MIN. OF 0.229" X 3" X 3" IN SIZE, BETWEEN SILL PLATE AND NUT. (CRC R602.11.1, CBC 2308.3.2 ACCEPTANCE ALTERNATIVE SDPWS 4.3.6.4.3)
- 5. FUTURE WATER HEATERS AND PLUMBING FIXTURES SHALL MEET THE REQUIREMENTS OF SECTION 2-5314 AND TABLE 2-53G, TITLE 24, C.A.C.
- 15, 20 AND 30 AMP. RECEPTACLE OUTLETS SHALL BE INSTALLED NO MORE THAN 48" MEASURED FROM THE TOP OF OUTLET BOX AND NOT LESS THAN 15" FROM THE BOTTOM OF OUTLET BOX ABOVE THE FLOOR.
- SITE SHALL BE PLANNED AND DEVELOPED TO KEEP SURFACE WATER AWAY FROM BUILDINGS. PLANS SHALL BE PROVIDED AND APPROVED BY THE CITY ENGINEER THAT SHOW SITE GRADING AND PROVIDE FOR STORM WATER RETENTION AND DRAINAGE DURING CONSTRUCTION. BMP'S THAT ARE CURRENTLY ENFORCED BY THE CITY ENGINEER MUST BE IMPLEMENTED PRIOR TO INITIAL INSPECTION BY THE BUILDING DEPT.
- 65 % OF CONSTRUCTION WASTE IS TO BE RECYCLED AND 100% OF INERT MATERIALS ARE RECYCLED SALVAGED, COMPOSTED.

FLOOR PLAN NOTES (CONT'D)

- VOC'S MUST COMPLY WITH THE LIMITATION LISTED IN SECTION 4.504.3 AND TABLES 4.504.1, 4.504.2, 4.504.3, AND 4.504.4 FOR: ADHESIVES, PAINTS, STAINS, CAULKS AND COATINGS, CARPET AND COMPOSITION WOOD PRODUCTS.DOCUMENTATION SHALL BE PROVIDED TO VERIFY THAT COMPLIANT VOC LIMIT FINISHED MATERIALS HAVE BEEN USED.
- 0. INTERIOR MOISTURE CONTROL AT SLAB ON GRADE FLOORS SHALL BE PROVIDED BY THE SOIL ENGINEER. IF A SOIL ENGINEER HAS NOT PREPARED A SOIL REPORT FOR THIS PROJECT, THE FOLLOWING IS REQUIRED: A 4" THICK BASE OF 1/2" OR LARGER CLEAN AGGREGATE SHALL BE PROVIDED WITH A VAPOR BARRIER IN DIRECT CONTACT WITH CONCRETE, WITH A CONCRETE MIX DESIGN WHICH WILL ADDRESS BLEEDING, SHRINKAGE AND CURLING SHALL BE USED.
- 1. MOISTURE CONTENT OF WOOD SHALL NOT EXCEED 19% BEFORE IT IS ENCLOSED IN CONSTRUCTION. THE MOISTURE CONTENT NEEDS TO BE CERTIFIED BY ONE OF 3 METHODS SPECIFIED. BUILDING MATERIAL WITH VISIBLE SIGNS OF WATER DAMAGE SHOULD NOT BE USED IN CONSTRUCTION. THE MOISTURE CONTENT MUST BE DETERMINED BY THE CONTRACTOR BY ONE OF THE LISTED METHODS LISTED IN CGC SECTION 4.503.3

 2. PRIOR TO FINAL APPROVAL OF THE BUILDING THE LICENSED CONTRACTOR, ARCHITECT OR ENGINEER IN RESPONSIBLE CHARGE OF THE OVERALL CONSTRUCTION MUST COMPLETE AND SIGN THE GREEN BUILDING STANDARDS CERTIFICATION FORM AND GIVEN TO THE BUILDING DEPT OFFICIAL TO BE FILED WITH THE APPROVED PLANS
- 23. LANDSCAPE IRRIGATION WATER USE SHALL HAVE WEATHER BASED CONTROLLERS.
- PROJECTS WHICH DISTURB LESS THAN ONE ACRE OF SOIL SHALL MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION BY ONE OF THE FOLLOWING: A. RETENTION BASIN. B. WHERE STORM WATER IS CONVEYED TO A PUBLIC DRAINAGE SYSTEM, WATER SHALL BE FILTERED BY USE OF A BARRIER SYSTEM, WATTLE OR OTHER APPROVED METHOD. CGC 4.106.2.
- THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN TO THE JURISDICTION AGENCY THAT REGULATES WASTE MANAGEMENT, PER CGC 4.408.2.
- THE BUILDER IS TO PROVIDE AN OPERATION MANUAL (CONTAINING INFORMATION FORM MAINTAINING APPLIANCES, ETC.) FOR THE OWNER AT THE TIME OF FINAL INSPECTION. CGC 4.410.0
- 7. DURING CONSTRUCTION, ENDS OF DUCT OPENINGS ARE TO BE SEALED, AND MECHANICAL EQUIPMENT IS TO BE COVERED. CGC 4.504.1
- BATHROOM FANS SHALL BE ENERGY STAR RATED, VENTED DIRECTLY TO THE OUTSIDE AND CONTROLLED BY A HUMIDISTAT. SPECIAL INSPECTORS EMPLOYED BY THE ENFORCING AGENCY
- MUST BE QUALIFIED AND ABEL TO DEMONSTRATE COMPETENCE IN THE DISCIPLINE THEY ARE INSPECTING.

 VERIFICATION OF COMPLIANCE WITH THIS CODE MAY INCLUDE CONSTRUCTION DOC. PLANS, SPECIFICATION BUILDER OR
- CONSTRUCTION DOC. PLANS, SPECIFICATION BUILDER OR INSTALLER CERTIFICATIONS, INSPECTIONS REPORTS, OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY WHICH TO SHOW SUBSTANTIAL CONFORMATION.
- NEW SINGLE FAMILY RESIDENTIAL CONSTRUCTION SHALL BE DESIGNED FOR AGING-IN-PLACE DESIGN AND FALL PREVENTION PER R327
- A) AT LEAST ONE BATHROOM ON THE ENTRY LEVEL SHALL BE PROVIDED WITH REINFORCEMENT INSTALLED. WHERE THERE IS NO BATHROOM ON THE ENTRY LEVEL, AT LEAST ONE BATHROOM ON THE SECOND OR THIRD FLOOR OF THE DWELLING SHALL COMPLY WITH THIS SECTION.

B) REINFORCEMENT SHALL BE SOLID LUMBER OR OTHER CONSTRUCTION MATERIALS APPROVED BY THE ENFORCING AGENCY.

- C) REINFORCEMENT SHALL NOT BE LESS THAN 2 BY 8 INCH NOMINAL LUMBER. REINFORCEMENT SHALL BE LOCATED BETWEEN 32 INCHES AND 39-1/4 INCHES ABOVE THE FINISHED FLOOR FLUSH WITH THE WALL FRAMING.
 D) WATER CLOSET REINFORCEMENT SHALL BE INSTALLED ON
- BOTH SIDE WALLS OF THE FIXTURE, OR ONE SIDE WALL AND THE BACK WALL.

 E) SHOWER REINFORCEMENT SHALL BE CONTINUOUS WHERE WALL FRAMING IS PROVIDED.
- F) BATHTUB AND COMBINATION BATHTUB/SHOWER REINFORCEMENT SHALL BE CONTINUOUS ON EACH END OF THE BATHTUB AND THE BACK WALL. ADDITIONALLY, BACK WALL REINFORCEMENT FOR A LOWER GRAB BAR SHALL BE PROVIDED WITH THE BOTTOM EDGE LOCATED NO MORE THAN 6 INCHES ABOVE THE BATHTUB RIM.

MECHANICAL NOTES

- SMOKE DETECTORS MUST BE PERMANENTLY WIRED. IN NEW CONSTRUCTION, REQUIRED SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHERE SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND SHALL BE EQUIPPED WITH A BATTERY BACK-UP. SMOKE ALARMS SHALL EMIT A SIGNAL WHEN THE BATTERIES ARE LOW. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN AS REQUIRED FOR OVER CURRENT PROTECTION.
- WHERE WATER CLOSET COMPARTMENT IS INDEPENDENT OF THE BATHROOM OR SHOWER AREA, A FAN WILL BE REQ. IN EACH AREA. BATHROOMS SHALL HAVE AN EXHAUST FAN WITH HUMIDITY CONTROL SENSOR, MIN. 50 CFM CAPACITY. (CRC R303.3.)
- ROOMS CONTAINING BATHTUBS, SHOWERS, SPAS AND SIMILAR FIXTURES SHALL BE PROVIDED WITH AN EXHAUST FAN WITH HUMIDITY CONTROL SENSOR HAVING A MIN. CAPACITY OF 50 CFM DUCTED TO TERMINATE OUTSIDE THE BLDG. (CRC R303.3, CAL GREEN 4.505.1, CBC 1203 .5.2.1, CMC 402.5
- SUPPLY AND RETURN AIR DUCTS TO BE INSULATED AT A MIN. OF R-6. (CAL ENERGY CODE TABLE 150.1-A)

MECHANICAL NOTES (CONT'D)

- WHERE WHOLE HOUSE FANS ARE USED IN BATHROOM AREAS, THE FAN MUST RUN CONTINUOUSLY AND SHALL NOT BE TIED TO HUMIDITY CONTROL SENSOR. (CAL GREEN 4.506.1)
- ENVIRONMENTAL AIR DUCTS SHALL TERMINATE MIN. 3 FEET FROM PROPERTY LINE OR OPENINGS INTO BLDG., AND 10' FROM A FORCED AIR INLET. (CMC 502.2.1)
- ALL HOSE BIBS ARE TO HAVE VACUUM BREAKERS. (CPC603.5.7)
- . THE MAX. AMOUNT OF WATER CLOSETS ON A 3"
 HORIZONTAL DRAINAGE SYSTEM LINE IS 3 (CPC TABLE 703.2)
 THE MAX. AMOUNT OF WATER CLOSETS ON A 3" VERTICAL
- DRAINAGE LINE IS 4. (CPC TABLE 703.2)

 DRAINAGE LINE IS 4. (CPC TABLE 703.2)

 PROVIDE GAS LINES WITH A MN. CAPACITY OF 200,000BTU FOR WATER HEATER (CALENERGY CODE 150.0(N))
- WATER HEATER. (CAL ENERGY CODE 150.0(N)).

 PROVIDE A CONDENSATE DRAIN NO MORE THAN 2" ABOVE THE BASE OF THE WATER HEATER SPACE. (CAL ENERGY CODE 150.0
- INSULATE ALL HOT WATER PIPES. CAL ENERGY CODE 150.0(j) (2), and CPC 609.11)
- ISOLATION VALVES ARE REQ. FOR TANKLESS WATER HEATERS ON THE HOT AND COLD SUPPLY LINES WITH HOSE BIBS ON EACH VALVE, TO FLUSH THE HEAT EXCHANGER. (CAL ENERGY CODE 110.3(7).
- EXHAUST DUCTS AND DRYER VENTS SHALL BE EQUIPPED WITH BACK DRAFT DAMPERS
- 5. ALL EXHAUST FANS SHALL BE SWITCHED SEPARATELY FROM LIGHTING SYSTEMS. (CENC 150(K) 2B)
- PLUMBING FIXTURES AND FITTINGS INSTALLED IN RESIDENTIAL BUILDINGS SHALL COMPLY WITH THE PRESCRIPTIVE REQ. OF SECTIONS 4.303.1.1 THROUGH 4.303.1.4.4.
- PLUMBING FIXTURES AND FITTINGS REQ. IN SECTION 4.303.1 SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE AND SHALL MEET THE THE APPLICABLE REFERENCE STANDARDS.

ELECTRICAL NOTES

- RECEPTACLE OUTLET LOCATIONS WILL COMPLY WITH CEC ARTICLE 210.52. & CRC SECTION R327.1.2. TAMPER RESISTANT RECEPTACLE OUTLET LOCATIONS SHALL COMPLY W/ NEC ART. 210-52 AND 550.13 (I.E. ALL RECEPTACLES IN A DWELLING).
- ARC-FAULT PROTECTION FOR ALL OUTLETS (NOT JUST RECEPTACLES) LOCATED IN ROOMS DESCRIBED IN NEC 210.12(A): KITCHENS, LAUNDRY AREAS, FAMILY, LIVING, BEDROOMS, DINING, HALLS, ETC. ALL BRANCH CIRCUITS WILL BE ARC FAULT CIRCUIT PROTECTED PER NEC ART. 210-12(B). THERE ARE TO BE A MINIMUM OF 2 SMALL APPLIANCE BRANCH CIRCUITS WITHIN THESE AREAS CEC 210.11(C)1
- BATHROOM CIRCUITING SHALL BE EITHER: a) A 20 AMPERE CIRCUIT DEDICATED TO EACH BATHROOM.
 b) AT LEAST ONE 20 AMPERE CIRCUIT SUPPLYING ONLY BATHROOM RECEPTACLE OUTLETS PER NEC ART. 210-11(c)3.
- ALL 125-VOLT, SINGLE-PHASE, 15- AND 20- AMPERE RECEPTACLES INSTALLED IN BATHROOMS, GARAGES, BASEMENTS, OUTDOORS, LAUNDRY AREA, KITCHEN DISHWASHERS, KITCHEN COUNTERS AND AT WET BAR SINKS, WITHIN 6' OF A SINK, SHALL BE GFCI PROTECTED PER NEC ART. 210-8(A).
- WEATHER RESISTANT TYPE FOR RECEPTACLES INSTALLED IN DAMP OR WET LOCATIONS (OUTSIDE) NEC 406.4(D)(6)

 PER LIGHTING MEASURES 150(K)4 N T-24, THE BEDROOMS, HALLWAY, LIVING ROOM AND OFFICE ARE REQUIRED TO HAVE ANY INSTALLED FIXTURE TO
- OUTDOOR LIGHTING FIXTURES ARE REQUIRED TO BE HIGH EFFICACY OR CONTROLLED BY A COMBINATION PHOTOCONTROL / MOTION SENSOR.

BE ON A DIMMER SWITCH OR THE FIXTURE NEEDS TO

BE HIGH EFFICACY.

- A RECEPTACLE OUTLET MUST BE INSTALLED IN EVERY ROOM SO THAT NO POINT ALONG THE WALL SPACE IS MORE THAN 6 FEET, MEASURED HORIZONTALLY ALONG THE FLOOR LINE FROM A RECEPTACLE OUTLET CEC 210.52(A)
- SMOKE DETECTORS MUST BE PERMANENTLY WIRED. IN NEW CONSTRUCTION, REQUIRED SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHERE SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND SHALL BE EQUIPPED WITH A BATTERY BACK-UP. SMOKE ALARMS SHALL EMIT A SIGNAL WHEN THE BATTERIES ARE LOW. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN AS REQUIRED FOR OVERCURRENT PROTECTION.
- WHERE MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED, THE SMOKE ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL THE ALARMS IN THE INDIVIDUAL DWELLING UNIT. THE ALARM SHALL BE CLEARLY AUDIBLE IN ALL BEDROOMS OVER BACKGROUND NOISE LEVELS WITH ALL INTERVENING DOORS CLOSED.
- ALL EXHAUST FANS SHALL BE SWITCHED SEPARATELY FROM LIGHTING SYSTEMS. (CENC 150(K) 2B)
- A MINIMUM OF ONE LUMINAIRE SHALL BE INSTALLED IN BATHROOM CONTROLLED BY AN OCCUPANT OR VACANCY SENSOR PROVIDING AUTOMATIC -OFF FUNCTIONALLY (CENC 150 .0(K)21)
- LAUNDRY AREA SHALL AT LEAST 1-20 AMP DEDICATED BRANCH CIRCUIT (CEC 210 .11 (C)(2)

PROVIDE A DEDICATED CIRCUIT FOR THE A.C./FAU (CEC 422.12)

15. A DEDICATED 125V, 20AMP ELECTRICAL RECEPTACLE THAT IS CONNECTED TO THE ELECTRICAL PANEL WITH A 120/240 -VOLT 3 CONDUCTOR, 10 AWG COPPER BRANCH CIRCUIT, WITHIN 3 FEET FROM THE WATER HEATER AND ACCESSIBLE TO THE WATER HEATER WITH NO OBSTRUCTIONS (CENC 150.0(N)1A)

ELECTRICAL NOTES (CONT'D)

- PER CEC 2022 150.0(N).1.A.:

 IF THE DESIGNATED SPACE IS WITHIN 3 FEET FROM THE WATER HEATER, THEN THIS SPACE SHALL INCLUDE THE FOLLOWING:A DEDICATED 125 VOLT, 20 AMP ELECTRICAL RECEPTACLE THAT IS CONNECTED TO THE ELECTRIC PANEL WITH A 120/240 VOLT 3 CONDUCTOR, 10 AWG COPPER BRANCH CIRCUIT, WITHIN 3 FEET FROM THE WATER HEATER AND ACCESSIBLE TO THE WATER HEATER WITH NO OBSTRUCTIONS; AND
- BOTH ENDS OF THE UNUSED CONDUCTOR SHALL BE LABELED WITH THE WORD "SPARE" AND BE ELECTRICALLY ISOLATED; AND
- A RESERVED SINGLE POLE CIRCUIT BREAKER SPACE IN THE ELECTRICAL PANEL ADJACENT TO THE CIRCUIT BREAKER FOR THE BRANCH CIRCUIT IN A ABOVE AND LABELED WITH THE WORDS "FUTURE 240V USE"; AND
- A CONDENSATE DRAIN THAT IS NO MORE THAN 2 INCHES HIGHER THAN THE BASE OF THE INSTALLED WATER HEATER, AND ALLOWS NATURAL DRAINING WITHOUT PUMP ASSISTANCE.
- ELECTRICAL RECEPTACLE OUTLETS IN BATHROOM MUST BE NO MORE THAN 48 INCHES OR LESS THAN 15-INCHES MEASURE FROM THE FINISHED FLOOR.
- 18. DOORBELL BUTTON MUST BE INSTALLED NO MORE THAN 48 INCHES FROM EXTERIOR FLOOR.
- 9. LUMINAIRE EFFICACY ALL INSTALLED LUMINAIRES SHALL MEET THE REQUIREMENTS OF 2022 BUILDING ENERGY EFFICIENCY STANDARDS TABLE 150.0-A PER SECTION 150.0(K).

ELECTRIC READY NOTES: 2022 ENERGY EFFICIENCY STANDARDS 150.0

(S) ENERGY STORAGE SYSTEMS (ESS) READY. ALL SINGLE-FAMILY RESIDENCES THAT INCLUDE ONE OR TWO DWELLING UNITS SHALL MEET THE FOLLOWING. ALL ELECTRICAL COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE:

- 1. AT LEAST ONE OF THE FOLLOWING SHALL BE PROVIDED:
 A. ESS READY INTERCONNECTION EQUIPMENT WITH A
 MINIMUM BACKED-UP CAPACITY OF 60 AMPS AND A
 MINIMUM OF FOUR ESS-SUPPLIED BRANCH CIRCUITS, OR
 B. A DEDICATED RACEWAY FROM THE MAIN SERVICE TO A
 PANELBOARD (SUBPANEL) THAT SUPPLIES THE BRANCH
 CIRCUITS IN SECTION 150.0(S)(2). ALL BRANCH CIRCUITS
 ARE PERMITTED TO BE SUPPLIED BY THE MAIN SERVICE
 PANEL PRIOR TO THE INSTALLATION OF AN ESS. THE
 TRADE SIZE OF THE RACEWAY SHALL BE NOT LESS THAN ONE
 INCH. THE PANELBOARD THAT SUPPLIES THE BRANCH CIRCUITS
 (SUBPANEL) MUST BE LABELED "SUBPANEL SHALL INCLUDE ALL
 BACKED-UP LOAD CIRCUITS."
- 2. A MINIMUM OF FOUR BRANCH CIRCUITS SHALL BE IDENTIFIED AND HAVE THEIR SOURCE OF SUPPLY COLLOCATED AT A SINGLE PANELBOARD SUITABLE TO BE SUPPLIED BY THE ESS. AT LEAST ONE CIRCUIT SHALL SUPPLY THE REFRIGERATOR, ONE LIGHTING CIRCUIT SHALL BE LOCATED NEAR THE PRIMARY EGRESS, AND AT LEAST ONE CIRCUIT SHALL SUPPLY A SLEEPING ROOM RECEPTACLE OUTLET.

 3. THE MAIN PANELBOARD SHALL HAVE A MINIMUM BUSBAR
- RATING OF 225 AMPS.

 4. SUFFICIENT SPACE SHALL BE RESERVED TO ALLOW FUTURE INSTALLATION OF A SYSTEM ISOLATION EQUIPMENT/TRANSFER SWITCH WITHIN 3 FEET OF THE MAIN PANELBOARD. RACEWAYS SHALL BE INSTALLED BETWEEN THE PANELBOARD AND THE SYSTEM ISOLATION EQUIPMENT/TRANSFER SWITCH LOCATION TO ALLOW THE CONNECTION OF BACKUP POWER SOURCE.
- (T) HEAT PUMP SPACE HEATER READY. SYSTEMS USING GAS OR PROPANE FURNACE TO SERVE INDIVIDUAL DWELLING UNITS SHALL INCLUDE THE FOLLOWING:
- 1. A DEDICATED 240 VOLT BRANCH CIRCUIT WIRING SHALL BE INSTALLED WITHIN 3 FEET FROM THE FURNACE AND ACCESSIBLE TO THE FURNACE WITH NO OBSTRUCTIONS. THE BRANCH CIRCUIT CONDUCTORS SHALL BE RATED AT 30 AMPS MINIMUM. THE BLANK COVER SHALL BE IDENTIFIED AS "240V READY." ALL ELECTRICAL COMPONENTS SHALL BE INSTALLED IN
- ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

 2. THE MAIN ELECTRICAL SERVICE PANEL SHALL HAVE A RESERVED SPACE TO ALLOW FOR THE INSTALLATION OF A DOUBLE POLE CIRCUIT BREAKER FOR A FUTURE HEAT PUMP SPACE HEATER INSTALLATION. THE RESERVED SPACE SHALL BE PERMANENTLY MARKED AS "FOR FUTURE 240V USE."

(U) ELECTRIC COOKTOP READY. SYSTEMS USING GAS OR PROPANE COOKTOP TO SERVE INDIVIDUAL DWELLING UNITS SHALL INCLUDE THE FOLLOWING:

- 1. A DEDICATED 240 VOLT BRANCH CIRCUIT WIRING SHALL BE INSTALLED WITHIN 3 FEET FROM THE COOKTOP AND ACCESSIBLE TO THE COOKTOP WITH NO OBSTRUCTIONS. THE BRANCH CIRCUIT CONDUCTORS SHALL BE RATED AT 50 AMPS MINIMUM. THE BLANK COVER SHALL BE IDENTIFIED AS "240V READY." ALL ELECTRICAL COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALLEDRIA ELECTRICAL.
- IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

 2. THE MAIN ELECTRICAL SERVICE PANEL SHALL HAVE A
 RESERVED SPACE TO ALLOW FOR THE INSTALLATION OF A
 DOUBLE POLE CIRCUIT BREAKER FOR A FUTURE ELECTRIC
 COOKTOP INSTALLATION. THE RESERVED SPACE SHALL BE
 PERMANENTLY MARKED AS "FOR FUTURE 240V USE."

(V) ELECTRIC CLOTHES DRYER READY. CLOTHES DRYER LOCATIONS WITH GAS OR PROPANE PLUMBING TO SERVE INDIVIDUAL DWELLING UNITS SHALL INCLUDE THE FOLLOWING:

- 1. A DEDICATED 240 VOLT BRANCH CIRCUIT WIRING SHALL BE INSTALLED WITHIN 3 FEET FROM THE CLOTHES DRYER LOCATION AND ACCESSIBLE TO THE CLOTHES DRYER LOCATION WITH NO OBSTRUCTIONS. THE BRANCH CIRCUIT CONDUCTORS SHALL BE RATED AT 30 AMPS MINIMUM. THE BLANK COVER SHALL BE IDENTIFIED AS "240V READY." ALL ELECTRICAL COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.
- 2. THE MAIN ELECTRICAL SERVICE PANEL SHALL HAVE A RESERVED SPACE TO ALLOW FOR THE INSTALLATION OF A DOUBLE POLE CIRCUIT BREAKER FOR A FUTURE ELECTRIC CLOTHES DRYER INSTALLATION. THE RESERVED SPACE SHALL BE PERMANENTLY MARKED AS "FOR FUTURE 240V USE."

N PATH STUDIO

BY USING THESE PERMIT READY CONSTRUCTION DOCUMENTS, THE RECIPIENT ACKNOWLEDGES, ACCEPTS AND VOLUNTARILY AFFIRMS THE

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ACCEPTS AND VOLUNTARILY AFFIRMS THE FOLLOWING CONDITIONS: THE USE OF THIS INFORMATION IS RESTRICTED TO THE ORIGINAL PROJECT FOR WHICH IT WAS PREPARED FOR THE PERMIT READY ACCESSORY DWELLING UNIT (ADU) PROGRAM FO ORANGE COUNTY ONLY. THIS IS A LIMITED SET OF STANDARDIZED ADU PLANS AND SPECIFICATIONS APPROVED BY THE ORANGE COUNTY BUILDING DEPARTMENT. BUILDING CODES DO CHANGE OVER TIME AND RECIPIENT SHALL ENSURE FULL COMPLIANCE UNDER ALL CODES THEN IN EFFECT AT THE TIME OF THE SUBJECT PERMIT. THIS DOES NOT ELIMINATE OR REDUCE THE RECIPIENT'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION RELEVANT TO THE RECIPIENT'S WORK AND RESPONSIBILITY ON THIS PROJECT. DESIGN PATH STUDIO SHALL NOT BE RESPONSIBLE FOR TRANSLATION ERRORS. DO NOT USE THESE

FOR TRANSLATION ERRORS. DO NOT USE THESE CONSTRUCTION DOCUMENTS IF THE PERMIT HAS EXPIRED OR IS REVOKED AT ALL.

2. THE RECIPIENT RECOGNIZES AND ACKNOWLEDGE: THAT THE USE OF THIS INFORMATION WILL BE AT THEIR SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL EXPOSURE TO DESIGN PATH STUDIO. NO WARRANTIES OF ANY NATURE, WHETHER EXPRESS OR IMPLIED, SHALL ATTACH TO THESE DOCUMENTS AND THE INFORMATION CONTAINED THEREON. ANY USE, REUSE, OR ALTERATION OF THESE DOCUMENTS BY THE RECIPIENT OR BY OTHERS WILL BE AT THE RECIPIENT'S RISK AND FULL LEGAL RESPONSIBILITY. FURTHERMORE, THE

RECIPIENT WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, DEFEND, INDEMNIFY AND HOLD DESIGN PATH STUDIO AND ITS ARCHITECTS HARMLESS FROM ANY AND ALL CLAIMS, SUITS LIABILITY, DEMANDS, JUDGMENTS, OR COSTS ARISING OUT OF OR RESULTING THERE FROM AN USE OF THESE CONSTRUCTION DOCUMENTS FOR OR ON ACCOUNT OF ANY INJURY, DEATH, DAMAGE OR LOSS TO PERSONS OR PROPERTY, DIRECT OR CONSEQUENTIAL DAMAGES IN ANY AMOUNT. THIS INDEMNITY DOES NOT APPLY TO THE SOLE NEGLIGENCE OR WILLFUL MISCONDUCT OF DESIGN PATH STUDIO OR ITS ARCHITECTS. 3. THE DESIGNS REPRESENTED BY THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION.

4. IF THE RECIPIENT DOES NOT AGREE WITH THE

ABOVE CONDITIONS, DO NOT PROCEED WITH

CONSTRUCTION OF AN ADU OR OTHER IMPROVEMENT UNDER THESE PLANS AT ALL.

project
County of Orange
Pre-Approved

ADU Program

OWNER NAME:

ADDRESS: APN:

revisions

description

General Notes

date April 03, 2024

project no.

drawn by DESIGN PATH STUDIO

G0.2

CBC CHAPTER 7A - MATERIALS & CONSTRUCTION METHODS FOR EXTERIOR WILDLIFE EXPOSURE

IF THE PROPERTY THAT WILL CONTAIN THE ADU IS IN THE VERY HIGH FIRE HAZARD SEVERITY ZONE THESE NOTES SHALL APPLY. THE JURISDICTION HAS DETERMINED THAT THIS PROJECT IS IN A WILDLIFE -URBAN INTERFACE AREA. PLEASE SHOW COMPLIANCE WITH THE FOLLOWING ITEMS FOR NEW BUILDINGS, PER THE 2022 CBC. **EXCEPTIONS:**

- BUILDINGS OF AN ACCESSORY CHARACTER CLASSIFIED AS A GROUP U OCCUPANCY AND NOT EXCEEDING 120 SQUARE FEET IN FLOOR AREA. WHEN LOCATED AT LEAST 30 FEET FROM AN APPLICABLE BUILDING.
- BUILDINGS OF AN ACCESSORY CHARACTER CLASSIFIES AS A GROUP U OCCUPANCY OF ANY SIZE LOCATED LEAST 50' FROM AN APPLICABLE BUILDING.
- BUILDINGS CLASSIFIED AS A GROUP U AGRICULTURE BUILDING. AS DEFINED IN SECTION 202 OF THE CODE (SEE ALSO APPENDIX C - GROUP U AGRICULTURE BUILDINGS), WHEN LOCATED AT LEAST 50' FROM AN APPLICABLE BUILDING.

REQUIREMENTS:

- 705A.2 ROOF COVERINGS. WHERE THE ROOF PROFILE HAS AN AIRSPACE UNDER THE ROOF COVERING, INSTALLED OVER A COMBUSTIBLE DECK, A 72 LB. (32.7 KG) CAP SHEET COMPLYING WITH ASTM D3909 STANDARD SPECIFICATION FOR "ASPHALT ROLLED ROOFING (GLASS FELT) SURFACED WITH MINERAL GRANULES," SHALL BE INSTALLED OVER THE ROOF DECK. BIRD STOPS SHALL BE USED AT THE EAVES WHEN THE PROFILE FITS. TO PREVENT DEBRIS AT THE EAVE. HIP AND RIDGE CAPS SHALL BE MUDDED IN TO PREVENT INTRUSION OF FIRE OR EMBERS EXCEPTION: CAP SHEET IS NOT REQUIRED WHEN NO LESS THAN 1" OF MINERAL WOOL BOARD OR OTHER NONCOMBUSTIBLE MATERIAL IS LOCATED BETWEEN THE ROOFING MATERIAL AND WOOD FRAMING OR DECK. ALTERNATELY, A CLASS A FIRE RATED ROOF UNDERLAYMENT, TESTED IN ACCORDANCE WITH ASTM E108, SHALL BE PERMITTED TO BE USED. IF THE SHEATHING CONSISTS OF EXTERIOR FIRE-RETARDANT TREATED WOOD, THE UNDERLAYMENT SHALL NOT BE REQUIRED TO COMPLY WITH A CLASS A CLASSIFICATION. BIRD STOPS SHALL BE USED AT THE EAVES WHEN THE PROFILE FITS, TO PREVENT DEBRIS AT THE EAVE. HIP AND RIDGE CAPS SHALL BE MUDDED IN TO PREVENT INTRUSION OF FIRE OR EMBERS.
- 705A.3 ROOF VALLEYS. WHERE VALLEY FLASHING IS INSTALLED. THE FLASHING SHALL BE NOT LESS THAN 0.019-INCH NO. 26 GAGE GALVANIZED SHEET CORROSION-RESISTANT METAL INSTALLED OVER NOT LESS THAN ONE LAYER OF MIN. 72 POUND MINERAL - SURFACED NON PERFORATED CAP SHEET COMPLYING WITH ASTM D 3909, AT LEAST 36-INCH -WIDE RUNNING THE FULL LENGTH OF THE VALLEY.
- 705A.4 ROOF GUTTER. ROOF GUTTERS SHALL BE PROVIDED WITH THE MEANS TO PREVENT THE ACCUMULATION OF LEAVES AND DEBRIS IN THE GUTTER.
- 706A.2 VENTILATION OPENINGS SHALL BE FULLY COVERED WITH WILDFIRE FLAME And EMBER RESISTANT VENTS APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL, OR WUI VENTS TESTED TO ASTM E2886 AND LISTED, BY COMPLYING WITH ALL OF THE FOLLOWING REQUIREMENTS:
 - A) THERE SHALL BE NO FLAMING IGNITION OF THE COTTON MATERIAL DURING THE EMBER INTRUSION TEST B) THERE SHALL BE NO FLAMING IGNITION DURING THE INTEGRITY TEST PORTION OF THE FLAME INTRUSION TEST C) THE MAXIMUM TEMPERATURE OF THE UNEXPOSED SIDE OF THE VENT SHALL NOT EXCEED 662 F
- 706A.2.1 VENTS THAT ARE INSTALLED ON A SLOPED ROOF, SUCH AS DORMER VENTS, SHALL COMPLY WITH ALL THE FOLLOWING A) VENTS SHALL BE COVERED WITH A MESH WHERE THE DIMENSIONS OF THE MESH THEREIN SHALL BE A MINIMUM OF 16 - INCH AND SHALL NOT EXCEED 18 - INCH IN DIAMETER B) THE MESH MATERIAL SHALL BE NONCOMBUSTIBLE
- C) THE MESH MATERIAL SHALL BE CORROSION RESISTANT. 707A.3 EXTERIOR WALLS COVERINGS. THE EXTERIOR WALL COVERING SHALL COMPLY WITH ONE OR MORE OF THE FOLLOWING REQUIREMENTS, EXCEPT AS PERMITTED FOR EXTERIOR WALL ASSEMBLIES COMPLYING WITH SECTION 707A.4:
 - 1. NONCOMBUSTIBLE MATERIAL 2. IGNITION- RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 704A.2. 3. FIRE-RETARDANT-TREATED WOOD. THE FIRE-RETARDANT-TREATED WOOD SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF **SECTION 2303.2.**
- 707A.3.1 EXTENT OF EXTERIOR WALL COVERING. EXTERIOR WALL COVERINGS SHALL EXTEND FROM THE TOP OF THE FOUNDATION TO THE ROOF AND TERMINATE AT 2" NOMINAL SOLID WOOD BLOCKING BETWEEN RAFTERS AT ALL ROOF OVERHANGS, OR IN THE CASE OF ENCLOSED EAVES, TERMINATE AT THE ENCLOSURE.

- 8. 707A.4 EXTERIOR WALL ASSEMBLIES. EXTERIOR WALL ASSEMBLIES OF BUILDINGS OR STRUCTURES SHALL BE CONSTRUCTED USING ONE OR MORE OF THE FOLLOWING METHODS, UNLESS THEY ARE COVERED BY AN EXTERIOR WALL COVERING COMPLYING WITH SECTION 707A.3:
 - 1. ASSEMBLY OF SAWN LUMBER OR GLUE LAMINATED WOOD WITH THE SMALLEST MINIMUM NOMINAL DIMENSION OF 4 INCHES. SAWN OR GLUE-LAMINATED PLANKS SPLINED, TONGUE-AND-GROVE. OR SET CLOSE TOGETHER AND WELL SPIKED.
 - 2. LOG WALL CONSTRUCTION ASSEMBLY
 - 3. ASSEMBLY THAT HAS BEEN TESTED IN ACCORDANCE WITH THE TEST PROCEDURES FOR A 10 MINUTE DIRECT FLAME CONTACT EXPOSURE SET FORTH IN ASTM E2707 WITH THE CONDITIONS OF ACCEPTANCE SHOWN IN SECTION 707A.4.1
 - 4. ASSEMBLY THAT MEET THE PERFORMANCE CRITERIA IN ACCORDANCE WITH THE TEST PROCEDURES FOR A TEN MINUTE DIRECT FLAME CONTACT EXPOSURE TEST SET FORTH IN SFM STANDARD 12-7A-1
 - 5. ASSEMBLY SUITABLE FOR EXTERIOR FIRE EXPOSURE WITH A 1-HOUR FIRE RESISTANCE RATING, RATED FROM THE EXTERIOR SIDE, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL263
 - 6. ASSEMBLY SUITABLE FOR EXTERIOR FIRE EXPOSURE CONTAINING ONE LAYER OF § -INCH TYPE X GYPSUM SHEATHING APPLIED BEHIND THE EXTERIOR WALL COVERING OR CLADDING ON THE EXTERIOR SIDE OF THE FRAMING.
 - 7. ASSEMBLY SUITABLE FOR EXTERIOR EXPOSURE CONTAINING ANY OF THE GYPSUM PANEL AND SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUEL AS COMPLYING WITH A 1-HOUR FIRE-RESISTANCE RATING, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263
- 707A.5 OPEN ROOF EAVES. THE EXPOSED ROOF DECK ON THE UNDERSIDE OF ENCLOSED ROOF EAVES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING:
 - 1. NON COMBUSTIBLE MATERIAL
 - 2. IGNITION- RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE AN SHALL MEET THE REQUIREMENTS OF SECTION 704A.2
 - 3. FIRE-RETARDANT-TREATED WOOD. THE FIRE-RETARDANT-TREATED WOOD SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF **SECTION 2303.2**
 - 4. MATERIALS APPROVED FOR NOT LESS THAN 1-HOUR FIRE-RESISTANCE-RATED CONSTRUCTION ON THE EXTERIOR SIDE, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263
 - 5. ONE LAYER OF $\frac{5}{8}$ " TYPE X GYPSUM SHEATHING APPLIES BEHIND AN EXTERIOR COVERING ON THE UNDERSIDE EXTERIOR OF THE ROOF
 - DECK. 6. THE EXTERIOR PORTION A 1- HOUR FIRE RESISTIVE EXTERIOR ASSEMBLY, APPLIES AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263, APPLIED TO THE UNDERSIDE OF THE ROOF DECK DESIGNED FOR THE EXTERIOR FIRE EXPOSURE, INCLUDING ASSEMBLES USING THE GYPSUM PANEL AND SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DEIGN MANUAL.
 - EXCEPTION TO SECTION 707A.5: THE FOLLOWING MATERIALS DO NOT REQUIRE PROTECTION: FASCIA AND OTHER ARCHITECTURAL TRIM BOARDS
- 10. 707A.6 ENCLOSED ROOF EAVES AND ROOF EAVE SOFFITS. THE EXPOSED UNDERSIDE OF ENCLOSED ROOF EAVES HAVING EITHER A BOXED-IN ROOF EAVE SOFFIT WITH A HORIZONTAL UNDERSIDE, OR SLOPING RAFTER TAILS WITH AN EXTERIOR COVERING APPLIED TO THE UNDERSIDE OF THE RAFTER TAILS, SHALL BE PROTECTED BY ONE OR MORE OF THE FOLLOWING:
 - NONCOMBUSTIBLE MATERIAL 2. IGNITION- RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE AND
 - SHALL MEET THE REQUIREMENTS OF SECTION 704A.2 3. FIRE-RETARDANT-TREATED-WOOD. THE FIRE-RETARDANT TREATED WOOD SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 2303.2
 - 4. MATERIALS APPROVED FOR NOT LESS THAN 1-HOUR FIRE-RESISTANCE-RATED CONSTRUCTION ON THE EXTERIOR SIDE, AS TESTED IN ACCORDANCE WITH ASTM
 - E119 OR UL 263 5. ONE LAYER OF \(\frac{5}{8} \)" TYPE X GYPSUM SHEATHING APPLIED BEHIND AN EXTERIOR COVERING ON THE UNDERSIDE OF
 - FLOOR PROJECTION. 6. THE EXTERIOR PORTION A 1- HOUR FIRE RESISTIVE EXTERIOR ASSEMBLY, APPLIED TO THE UNDERSIDE OF THE RAFTER TAIS OR SOFFIT, INCLUDING ASSEMBLES USING THE GYPSUM PANEL AND SHEATHING PRODUCTS LISTED IN THE
 - GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL 7. BOXED-IN ROOF EAVE SOFFIT ASSEMBLIES WITH A HORIZONTAL UNDERSIDE THAT MEET THE PERFORMANCE CRITERIA IN SECTION 707A.11 WHEN TESTED IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN
 - **ASTM E2957** 8. BOXED-IN ROOF EAVE SOFFIT ASSEMBLIES WITH A HORIZONTAL UNDERSIDE THAT MEET THE PERFORMANCE CRITERIA IN SECTION 707A.11 WHEN TESTED IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN SFM STANDARD 12-7A-3

EXCEPTION TO SECTION 707A.6: THE FOLLOWING MATERIALS DO NOT REQUIRE PROTECTION: FASCIA AND OTHER ARCHITECTURAL TRIM BOARDS

- 11. 707A.7 EXTERIOR PORCH CEILINGS. THE EXPOSED UNDERSIDE OF THE EXTERIOR PORCH CEILINGS SHALL BE PROTECTED BY ONE OF THE FOLLOWING:
 - NON COMBUSTIBLE MATERIAL 2. IGNITION- RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 704A.2
- 3. FIRE-RETARDANT-TREATED-WOOD. THE FIRE-RETARDANT TREATED WOOD SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 2303.2 4. MATERIALS APPROVED FOR NOT LESS THAN 1-HOUR FIRE-RESISTANCE-RATED CONSTRUCTION ON THE EXTERIOR SIDE, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263 5. ONE LAYER OF \(\frac{5}{8} \) TYPE X GYPSUM SHEATHING APPLIED
- UNDERSIDE OF THE RAFTER TAILS OR SOFFIT. 6. THE EXTERIOR PORTION A 1- HOUR FIRE RESISTIVE EXTERIOR ASSEMBLY, AS TESTED IN ACCORDANCE WITH ASTM E119, APPLIED TO THE UNDERSIDE OF THE CEILING ASSEMBLY, INCLUDING ASSEMBLES USING THE GYPSUM PANEL AND SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION

BEHIND THE EXTERIOR COVERING OR CLADDING ON THE

- FIRE RESISTANCE DESIGN MANUAL 7. PORCH CEILING ASSEMBLIES WITH A HORIZONTAL UNDERSIDE THAT MEET THE PERFORMANCE CRITERIA IN SECTION 707A.11 WHEN TESTED IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN ASTM E2957 8. PORCH CEILING ASSEMBLIES WITH A HORIZONTAL UNDERSIDE THAT MEET THE PERFORMANCE CRITERIA IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN
- EXCEPTION TO SECTION 707A.7: ARCHITECTURAL TRIM **BOARDS DO NOT REQUIRE PROTECTION**
- 12. 707A.8 FLOOR PROJECTIONS. THE EXPOSED UNDERSIDE OF A CANTILEVER FLOOR PROJECTION WHERE A FLOOR ASSEMBLY EXTENDS OVER AN EXTERIOR WALL SHALL BE PROTECTED BY ON OF THE FOLLOWING:
 - 1. NONCOMBUSTIBLE MATERIAL

SFM STANDARD 12-7A-3

- 2. IGNITION- RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 704A.2 3. FIRE-RETARDANT-TREATED-WOOD. THE FIRE-RETARDANT
- TREATED WOOD SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 2303.2 4. MATERIALS APPROVED FOR NOT LESS THAN 1-HOUR FIRE-RESISTANCE-RATED CONSTRUCTION ON THE EXTERIOR SIDE, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263
- 5. ONE LAYER OF \(\frac{5}{8} \)" TYPE X GYPSUM SHEATHING APPLIED BEHIND AND EXTERIOR COVERING ON THE UNDERSIDE OF THE **CEILING** 6. THE EXTERIOR PORTION A 1- HOUR FIRE RESISTIVE
- EXTERIOR ASSEMBLY, AS TESTED IN ACCORDANCE WITH ASTM E119, APPLIED TO THE UNDERSIDE OF THE CEILING ASSEMBLY, INCLUDING ASSEMBLES USING THE GYPSUM PANEL AND SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL
- 7. THE UNDERSIDE OF A FLOOR PROJECTIONS ASSEMBLY THAT MEETS THE PERFORMANCE CRITERIA IN SECTION 707A.10 WHEN TESTED IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN ASTM E2957.
- 8. THE UNDERSIDE OF A FLOOR PROJECTIONS ASSEMBLY THAT MEETS THE PERFORMANCE CRITERIA IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN THE SFM STD
- EXCEPTION TO SECTION 707A.8: ARCHITECTURAL TRIM BOARDS DO NOT REQUIRE PROTECTION
- 13. 707A.9 UNDERFLOOR PROTECTION. THE UNDERFLOOR AREA OF ELEVATED OR OVERHANGING BUILDINGS SHALL BE ENCLOSED TO GRADE IN ACCORDANCE WITH THE REQUIREMENTS OF THIS CHAPTER OR THE UNDERSIDE OF THE EXPOSED UNDERFLOOR SHALL BE PROTECTED BY ONE OR MORE OF THE FOLLOWING:
 - 1. NONCOMBUSTIBLE MATERIAL 2. IGNITION- RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 704A.2 3. FIRE-RETARDANT-TREATED-WOOD. THE FIRE-RETARDANT
 - TREATED WOOD SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 2303.2 4. MATERIALS APPROVED FOR NOT LESS THAN 1-HOUR FIRE-RESISTANCE-RATED CONSTRUCTION ON THE EXTERIOR SIDE, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263 5. ONE LAYER OF 5/8" TYPE X GYPSUM SHEATHING APPLIED BEHIND AND EXTERIOR COVERING ON THE UNDERSIDE OF THE FLOOR PROJECTION
 - 6. THE EXTERIOR PORTION A 1- HOUR FIRE RESISTIVE EXTERIOR ASSEMBLY, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263, APPLIED TO THE UNDERSIDE OF THE FLOOR, INCLUDING ASSEMBLES USING THE GYPSUM PANEL AND SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL.
 - 7. THE UNDERSIDE OF A FLOOR ASSEMBLY THAT MEETS THE PERFORMANCE CRITERIA IN SECTION 707A.11 WHEN TESTED IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN ASTM E2957.
 - 8. THE UNDERSIDE OF A FLOOR ASSEMBLY THAT MEETS THE PERFORMANCE CRITERIA IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN SFM STANDARD 12-7A-3.

EXCEPTION TO SECTION 707A.9: STRUCTURAL COLUMNS AND BEAMS DO NOT REQUIRE PROTECTION WHEN CONSTRUCTED WITH SAWN LUMBER OR GLUE-LAMINATED WOOD WITH THE SMALLEST MINIMUM NOMINAL DIMENSION OF 4 INCHES. SAWN OR GLUE-LAMINATED PLANKS SHALL BE SPLINED. TONGUE-AND-GROOVE, OR SET CLOSE TOGETHER AND WELL SPIKED.

707A.10 UNDERSIDE OF APPENDAGES. WHEN REQUIRED BY THE

- ENFORCING AGENCY THE UNDERSIDE OF OVERHANGING APPENDAGES SHALL BE ENCLOSED TO GRADE IN ACCORDANCE WITH THE REQUIREMENTS OF THIS CHAPTER OR THE UNDERSIDE OF THE EXPOSED UNDER FLOOR SHALL CONSIST OF ONE OF THE **FOLLOWING:**
 - 1. NONCOMBUSTIBLE MATERIAL
 - 2. IGNITION- RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 704A.2
 - 3. FIRE-RETARDANT-TREATED-WOOD. THE FIRE-RETARDANT TREATED WOOD SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 2303.2
- 4. MATERIALS APPROVED FOR NOT LESS THAN 1-HOUR FIRE-RESISTANCE-RATED CONSTRUCTION ON THE EXTERIOR SIDE, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263 5. ONE LAYER OF \(\frac{5}{8} \)" TYPE X GYPSUM SHEATHING APPLIED BEHIND THE EXTERIOR COVERING ON THE UNDERSIDE OF THE APPENDAGE PROJECTION
- 6. THE EXTERIOR PORTION A 1- HOUR FIRE RESISTIVE EXTERIOR ASSEMBLY, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263, APPLIED TO THE UNDERSIDE OF THE APPENDAGE. INCLUDING ASSEMBLES USING THE GYPSUM PANEL AND SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL
- 7. THE UNDERSIDE OF AN APPENDAGE ASSEMBLY THAT MEETS THE PERFORMANCE CRITERIA IN SECTION 707A.11 WHEN TESTED IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN ASTM E2957.
- 8. THE UNDERSIDE OF AN APPENDAGE ASSEMBLY THAT MEETS THE PERFORMANCE CRITERIA IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN SFM STANDARD
- **EXCEPTION TO SECTION 707A.10: STRUCTURAL COLUMNS** AND BEAMS DO NOT REQUIRE PROTECTION WHEN CONSTRUCTED WITH SAWN LUMBER OR GLUE-LAMINATED WOOD WITH THE SMALLEST MINIMUM NOMINAL DIMENSION OF 4 INCHES. SAWN OR GLUE-LAMINATED PLANKS SHALL BE SPLINED, TONGUE-AND-GROOVE, OR SET CLOSE TOGETHER AND WELL SPIKED

15. 708A.2 EXTERIOR GLAZING. THE FOLLOWING EXTERIOR GLAZING MATERIALS AND/OR ASSEMBLIES SHALL COMPLY WITH THIS

- 1. EXTERIOR WINDOWS
- 2. EXTERIOR GLAZED DOORS
- 3. GLAZED OPENINGS WITHIN EXTERIOR DOORS
- 4. GLAZED OPENINGS WITHIN EXTERIOR GARAGE DOORS
- 5. EXTERIOR STRUCTURAL GLASS VENEERS
- 6. SKYLIGHTS 7. VENTS
- 708A.2.1 EXTERIOR WINDOWS AND EXTERIOR GLAZED DOOR
- 1. BE CONSTRUCTED OF MULTI-PANE GLAZING WITH A MINIMUM OF ONE TEMPERED PANE MEETING THE REQUIREMENTS OF SECTION 2406 SAFETY GLAZING, OR 2. BE CONSTRUCTED OF GLASS BLOCK UNITS, OR
- 3. HAVE A FIRE-RESISTANT RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED IN ACCORDANCE TO NFPA 257. OR 4. BE TESTED TO MEET THE PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-2.
- 17. 708A.3 EXTERIOR DOORS. EXTERIOR DOORS SHALL COMPLY WITH ONE OF THE FOLLOWING:
 - 1. THE EXTERIOR SURFACE OR CLADDING SHALL BE OF NON-COMBUSTIBLE OR IGNITION-RESISTANT MATERIAL 2. THE EXTERIOR SURFACE OR CLADDING SHALL BE IGNITION
 - RESISTANT MATERIAL 3. TEH EXTERIOR DOOR SHALL BE CONSTRUCTED OF SOLID CORE WOOD THAT COMPLY WITH THE FOLLOWING REQUIREMENTS:
 - 3.1 STILES AND RAILS SHALL NOT BE LESS THAN 1-3/8"
 - THICK. 3.2 RAISED PANELS SHALL NOT BE LESS THAN 1-1/4" THICK. EXCEPT FOR THE EXTERIOR PERIMETER OF THE PANEL THAT SHALL BE PERMITTED TO TAPER TO A TONGUE NOT LESS THAN 3/4" THICK.
 - 4. THE EXTERIOR DOOR SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED ACCORDING TO THE NFPA 252.
 - 5. THE EXTERIOR SURFACE OR CLADDING SHALL BE TESTED TO MEET THE PERFORMANCE IN SECTION 707A.3.1 WHEN TESTED IN ACCORDANCE WITH ASTM E2707. 6. THE EXTERIOR SURFACE OR CLADDING SHALL BE TESTED TO MEET THE PERFORMANCE REQUIREMENTS OF SFM
- STANDARD 12-7A-1. 18. 708A.3.1 EXTERIOR DOOR GLAZING. GLAZING IN EXTERIOR DOORS SHALL COMPLY WITH SECTION 708A2.1

FIRE SPRINKLER NOTES

- IF FIRE SPRINKLERS ARE REQUIRED AT PROPOSED ADU THEN THE FOLLOWING NOTES APPLY. AUTOMATIC FIRE SPRINKLER SYSTEM - AN AUTOMATIC FIRE
- SPRINKLER SYSTEM SHALL BE INSTALLED AS PER NFPA 13D THE MOST CURRENT EDITION. DETAILED SPRINKLER PLANS SHALL BE SUBMITTED TO THE FIRE PREVENTION BUREAU AND APPROVED PRIOR TO INSTALLATION. PLANS AND INSTALLATION MUST BE BY A C16 LICENSED SPRINKLER CONTRACTOR.
- 3. SECTION 903.2.8 GROUP R AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.3 SHALL BE PROVIDED THROUGHOUT ALL BUILDINGS WITH A GROUP R FIRE AREA. THIS INCLUDES SINGLE FAMILY DWELLINGS, MULTI-FAMILY DWELLINGS AND ALL RESIDENTIAL CARE FACILITIES REGARDLESS OF OCCUPANT LOAD.
- 4. SECTION 903.3.2 WHERE AUTOMATIC SPRINKLER SYSTEMS ARE REQUIRED, QUICK-RESPONSE OR RESIDENTIAL AUTOMATIC SPRINKLERS SHALL BE INSTALLED IN ALL OF THE FOLLOWING AREAS IN ACCORDANCE WITH SECTION 903.3.1 AND THEIR LISTINGS:

1. THROUGHOUT ALL SPACES WITHIN A SMOKE COMPARTMENT

- CONTAINING CARE RECIPIENT SLEEPING UNITS IN GROUP I-2 IN ACCORDANCE WITH THIS CODE. 2. THROUGHOUT ALL SPACES WITHIN A SMOKE COMPARTMENT CONTAINING TREATMENT ROOMS IN AMBULATORY CARE
- FACILITIES. 3. DWELLING UNITS AND SLEEPING UNITS IN GROUP I-1 AND R **OCCUPANCIES**
- 4. LIGHT-HAZARD OCCUPANCIES AS DEFINED IN NFPA 13. A FIRE UNDERGROUND FLUSH CERTIFICATION SHALL BE REQUIRED AT FINAL INSPECTION.
- SECTION 903.5 SPRINKLER SYSTEMS SHALL BE TESTED AND MAINTAINED IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE

ABBREVIATIONS ACCESSORY DWELLING UNIT AFF ABOVE FINISH FLOOR AMP AMPERE AWG AMERICAN WIRE GAUGE BMP BEST MANAGEMENT PRACTICE BM BEAM BN **BOUNDARY NAILING** BOTTOM COUNTER CALC CALCULATION CUBIC FEET PER HOUR CFM **CUBIC FEET PER MINUTE** CONC CONCRETE CONTINUOUS CONT DBL DOUBLE DIAMETER DTP DOUBLE TOP PLATE DISH WASHER EQ **EQUAL** FFE FINISH FLOOR ELEVATION FIN FINISH FR FIRE RATED GAL GALLON GD GARBAGE DISPOSAL GROUND-FAULT CIRCUIT INTERRUPTER GALVANIZED IRON GL GLASS GPM **GALLON PER MINUTE** GYP **GYPSUM** HLW **HALLOW** HGT

HEIGHT

HDR **HEADER** HDU HOLDOWN INSTALLATION LVL LEVEL

MIN MINIMUM OAE OR APPROVED EQUIVALENT OC ON CENTER OPER **OPERATION** OVEN ORIENTED STRAND BOARD

PSI POUNDS PER SQUARE INCH PSL PARALLEL-STRAND LUMBER PT POST TENTION QNTY QUANTITY

REQ REQUIRED REF REFRIGERATOR REINF REINFORCED SDS SAFETY DATA SHEET SIM SIMILAR SF SQUARE FOOTAGE SHT SHEET **TEMPERED**

THICKNESS THICK TYP **TYPICAL** UNO **UNLESS NOTED OTHERWISE** VΒ TYPE 5 B CONSTRUCTION W/D WASHER AND DRYER WD WOOD WH WATER HEATER

WEATHER RESISTANT

VOLT

WR

RESTRICTED TO THE ORIGINAL PROJECT FOR WHICH IT WAS PREPARED FOR THE PERMIT READY ACCESSORY DWELLING UNIT (ADU) PROGRAM FOR ORANGE COUNTY **only. This`is á limited set of** STANDARDIZED ADU PLANS AND SPECIFICATIONS DEPARTMENT. BUILDING CODES DO CHANGE OVER TIME AND RECIPIENT SHALL ENSURE FULL

BY USING THESE PERMIT READY CONSTRUCTION

DOCUMENTS. THE RECIPIENT ACKNOWLEDGES.

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County of Orange Pre-Approved **ADU Program**

OWNER NAME: ADDRESS:

APN: LEGAL DESCRIPTION:

revisions

description

General Notes

April 03, 2024

project no.

drawn by

DESIGN PATH STUDIO

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ACCESSORY DWELLING UNIT (ADU) PROGRAM FOR ORANGE COUNTY ONLY. THIS IS A LIMITED SET OF STANDARDIZED ADU PLANS AND SPECIFICATIONS APPROVED BY THE ORANGE COUNTY BUILDING
DEPARTMENT. BUILDING CODES DO CHANGE OVER TIME AND RECIPIENT SHALL ENSURE FULL
COMPLIANCE UNDER ALL CODES THEN IN EFFECT AT THE TIME OF THE SUBJECT PERMIT. THIS DOES NOT ELIMINATE OR REDUCE THE RECIPIENT'S
RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION RELEVANT TO THE RECIPIENT'S WORL AND RESPONSIBILITY ON THIS PROJECT. DESIGN PATH STUDIO SHALL NOT BE RESPONSIBLE
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2. THE RECIPIENT RECOGNIZES AND ACKNOWLEDGE THAT THE USE OF THIS INFORMATION WILL BE AT THEIR SOLE RISK AND WITHOUT ANY LIABILITY OR
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ABOVE CONDITIONS DO NOT PROCEED WITH

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project
County of Orange
Pre-Approved
ADU Program

OWNER NAME: ADDRESS:

APN:

LEGAL DESCRIPTION:

revisions

description

Schedules & Notes

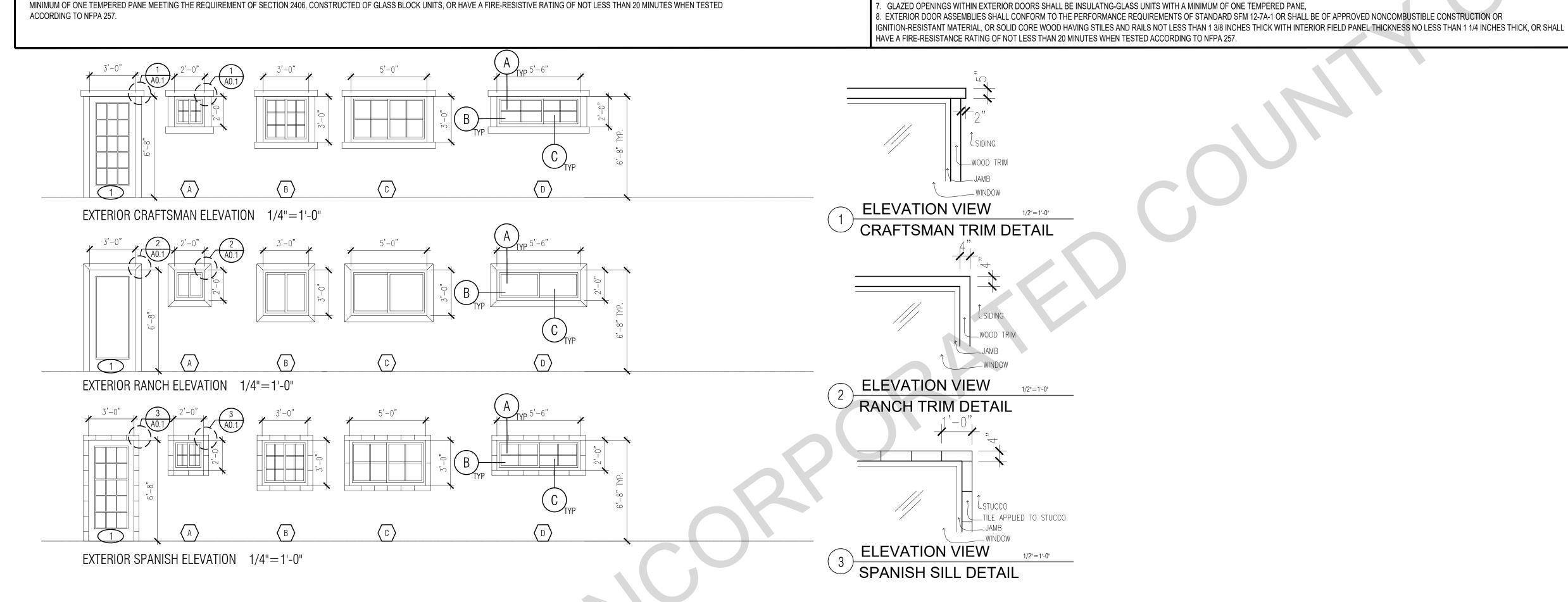
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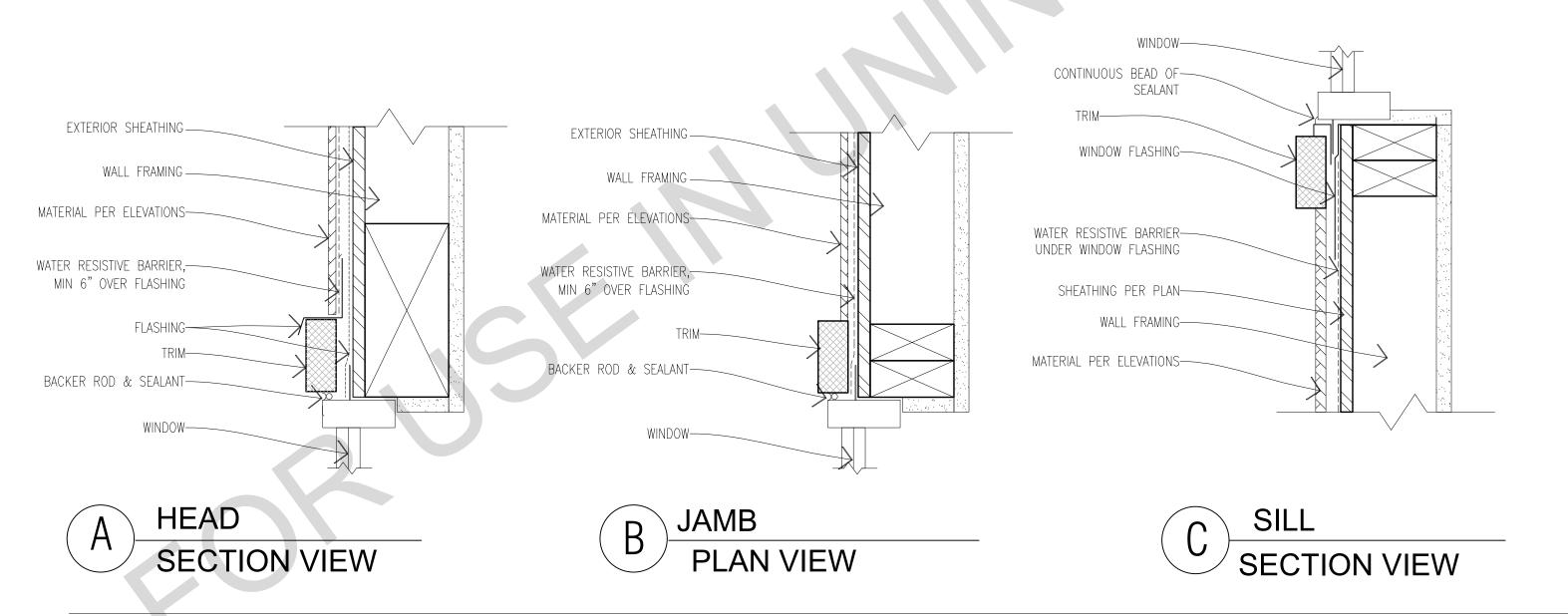
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DESIGN PATH STUDIO drawn by

sheet no.

WIN	WINDOW SCHEDULE							DOOR SCHEDULE																
VINDOW-	WINDO	W SIZE HEIGHT	OPER.	QNTY	FRAME	HEAD HEIGHT	LOCATION	REMARKS	VHFSZ NOTES SEE SHEET G0.3 (WHEN REQ'D)	SHGC	U- FACTOR	R DOO	DOOR TYPE	WIDTH	DOOR SI		CORE	MATERIAL	FRAME	LOCATION	REMARKS	VHFSZ NOTES SEE SHEET G0.3 (WHEN REQ'D)	SHGC	U- FACTOR
Α	2'-0"	2'-0"	SLIDER	1	VINYL	6'-8"	BATHROOM WINDOW	TEMPERED	NOTES 15, 16	0.23	0.3	1	SINGLE DOOR	3' ^{0"}	6'- ^{8"}	1-3/4"	GL	VNL/GLASS	VINYL	ENTRY	TEMPERED	NOTES 15, 16, 17, 18	0.23	0.3
В	3'- ^{0"}	3'- ^{0"}	SLIDER	2	VINYL	6'-8"	KITCHEN/ DINING AREA WINDOWS		NOTES 15, 16	0.23	0.3	2	SINGLE DOOR	3'0"	6'- ^{8"}	1-3/4"	HLW	WOOD	WD	BATHROOM				
С	5'- ^{0"}	3'- ^{0"}	SLIDER	1	VINYL	6'-8"	LIVING ROOM WINDOW		NOTES 15, 16	0.23	0.3	3	SINGLE DOOR	2'6"	6'- ^{8"}	1-3/4"	HLW	WOOD	WD	WATER HEATER	LOUVERED			
D	5'- ^{6"}	2'-0"	SLIDER	1	VINYL	6'-8"	LIVING ROOM WINDOW		NOTES 15, 16	0.23	0.3													1
WIN	OW N	OTES									•													
				RATION OF WIN	DOWS (ALL OP	ERABLE WIND	DOWS TO HAVE SCREENS).					1												
							FY ACTUAL DIMENSIONS FOR WINDOWS																	
			D WITH A CERTIFYIN ALY SELECTIVE LOW																					
			IIMUM INFILTRATION		S PER SECTIO	N 116 E.E.S.D																		
			ITH C.B.C. 1203.4 ANI HAVE ONE OPERABL		R EMERGENCY	ESCAPE OR I	RESCUE WITH A MIN. NET CLEAR OPENABLE AREA OF 5.	7 SQ. FT, MIN. NET CLEAR OPENABLE	HEIGHT OF 24" MIN., NET			חמ	OOR NOTES											
CLEAR V	IDTH OF 20"	AND A FIN. SII	LL HEIGHT OF NOT M	ORE THAN 44".	A.F.F. PER CRO	SECTION 310	01.	·	,															
			RMANENTLY IDENTII				_	N / ARTIFICIAL LIGHT CRC SECTIONS	1203 4 AND 1205 1 AND											VISIBLE WHEN THE UNIT IS GLAZI	<u>ED</u> .			
							2. ALL GLAZING WILL BE INSTALLED WITH A CERTIFYING LABEL ATTACHED, SHOWING THE "U" VALUE. 3. REFER TO FLOOR PLANS FOR DIRECTION OF DOOR SWING.																	
A) THE MINIMUM NET GLAZED AREA FOR NATURAL LIGHT SHALL NOT BE LESS THAN 8%OF THE FLOOR AREA OF THE ROOM SERVED. CBC SECTION 1205.2							4. DOORS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTION 116 E.E.S.																	
,							E 4% OF THE FLOOR AREA BEING VENTILATED. SECTION		ır				5. VENTILATION SHALL COMPLY WITH C.B.C. 1203.4 AND R303. 6. DOORS MAY OPEN TO THE EXTERIOR ONLY IF THE FLOOR OR LANDING IS NOT MORE THAN 1-½ INCH LOWER											
		,	,	,			ERIOR DOORS SHALL BE INSULATING-GLASS UNITS WIT SSEMBLY IN ACCORDANCE WITH ASTM F 119 OR LIL 263 T									OR LANDIN	IG IS NOT	MORE THAN 1-1/2	INCH LOW	ER				
													THAN THE DOOR THRESHOLD. SECTION R311.3.1 CRC											





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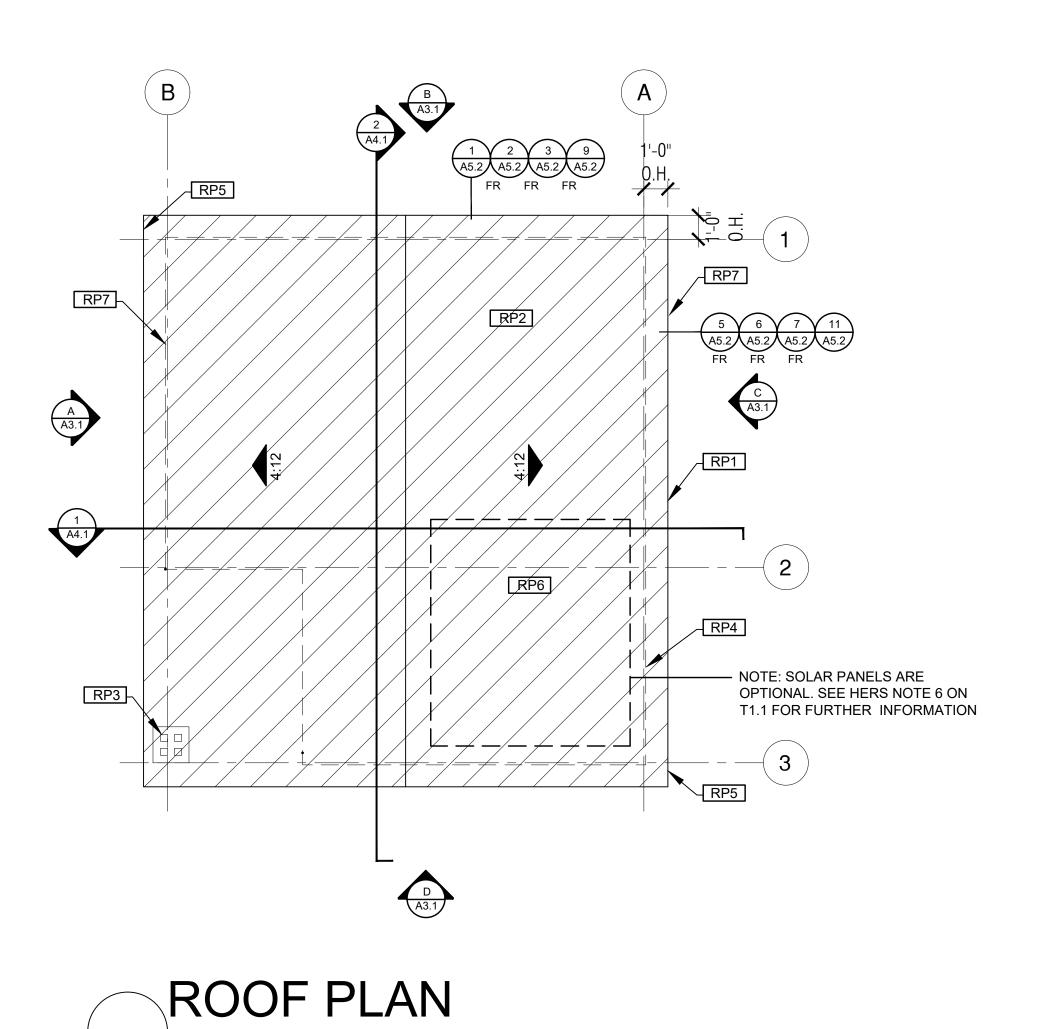
Craftsman Roof Plan/ Floor Plan Studio

April 03, 2024

project no.

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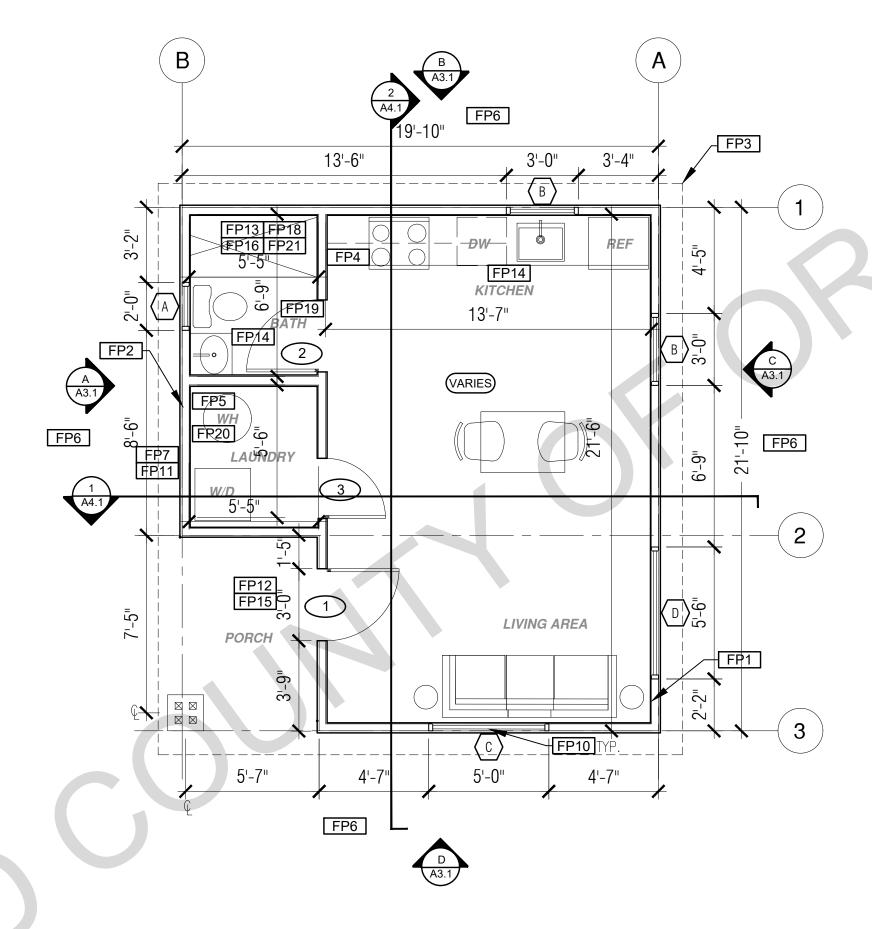
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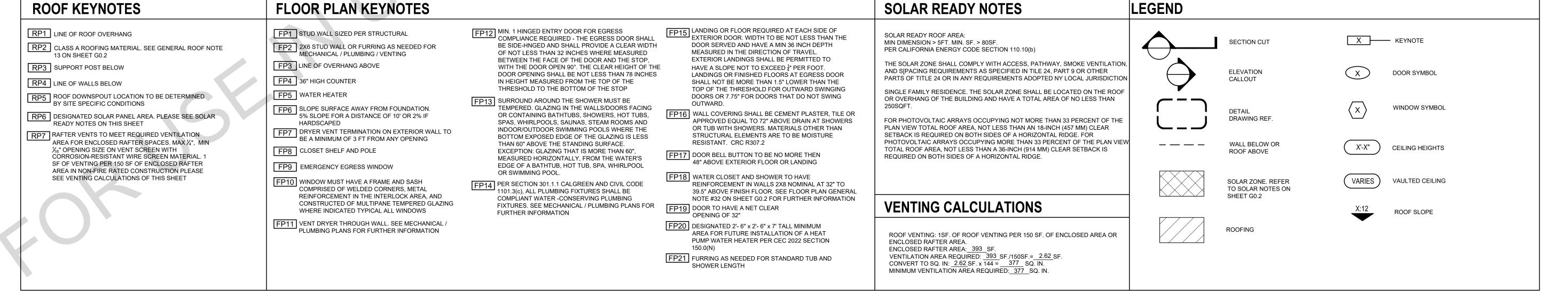
393 SQ. FT.

CRAFTSMAN

[/]1/4"=1'-0"







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RANCH

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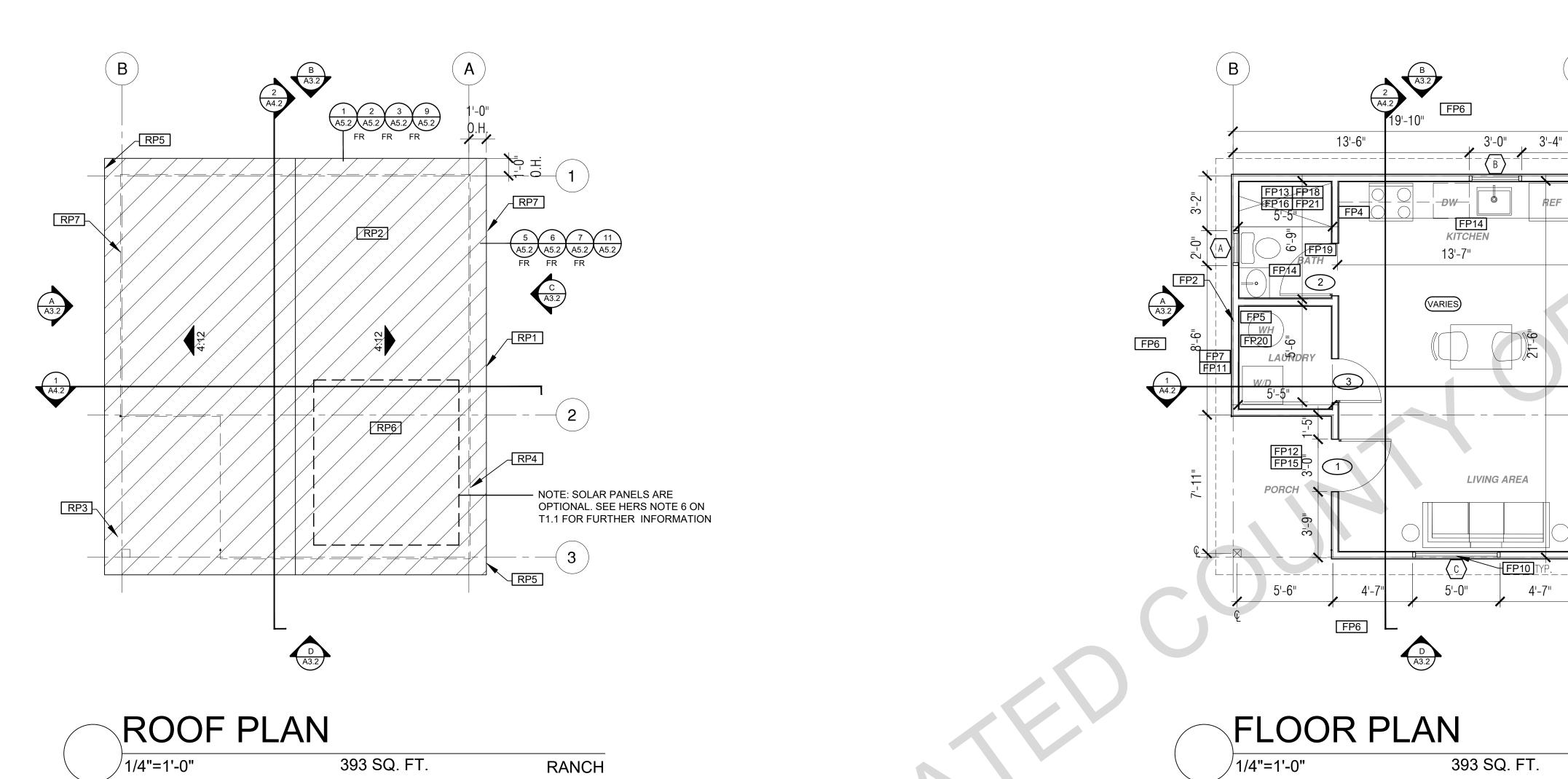
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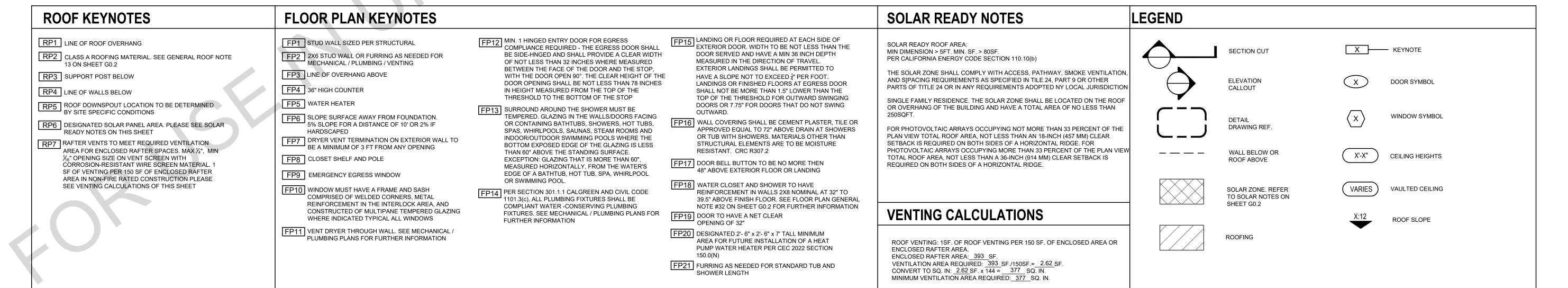
description Ranch Roof Plan/ Floor Plan

Studio April 03, 2024

project no.

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393 SQ. FT

SPANISH

[/]1/4"=1'-0"



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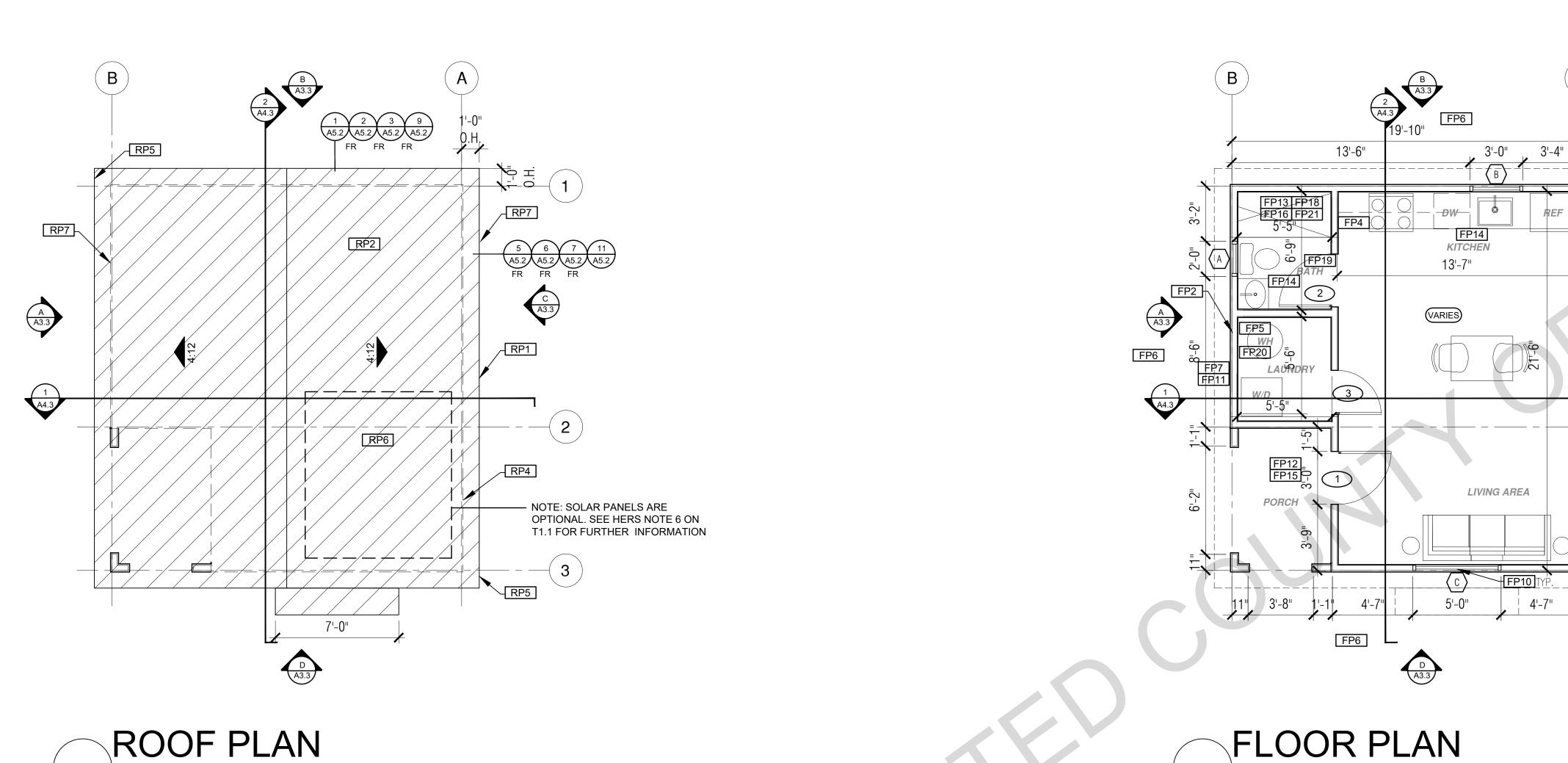
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description Spanish Roof Plan/ Floor Plan Studio

April 03, 2024

project no.

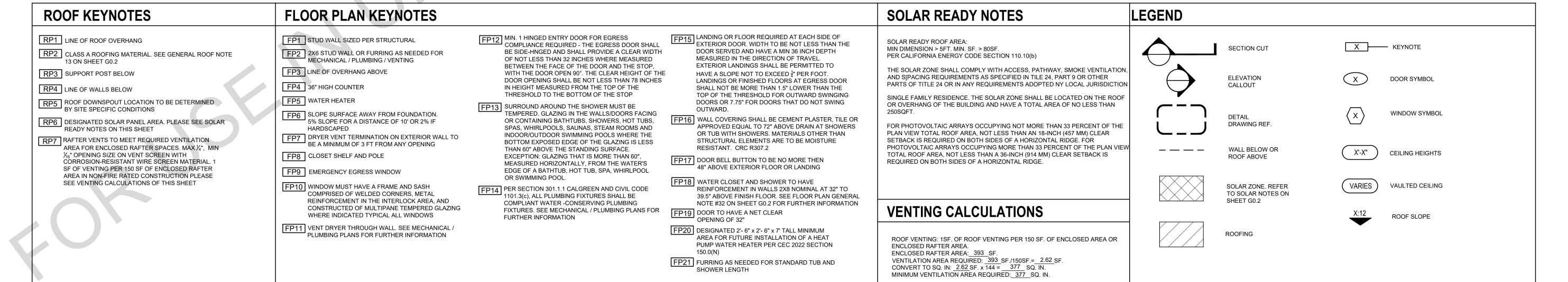
DESIGN PATH STUDIO drawn by



393 SQ. FT.

SPANISH

[/]1/4"=1'-0"



MP8 THE 1/2" SIZE HOT WATER PIPE TO THE KITCHEN

SINK AND THE COLD WATER PIPE WITHIN 5' OF

WATER HEATER BOTH REQUIRE 1" INSULATION

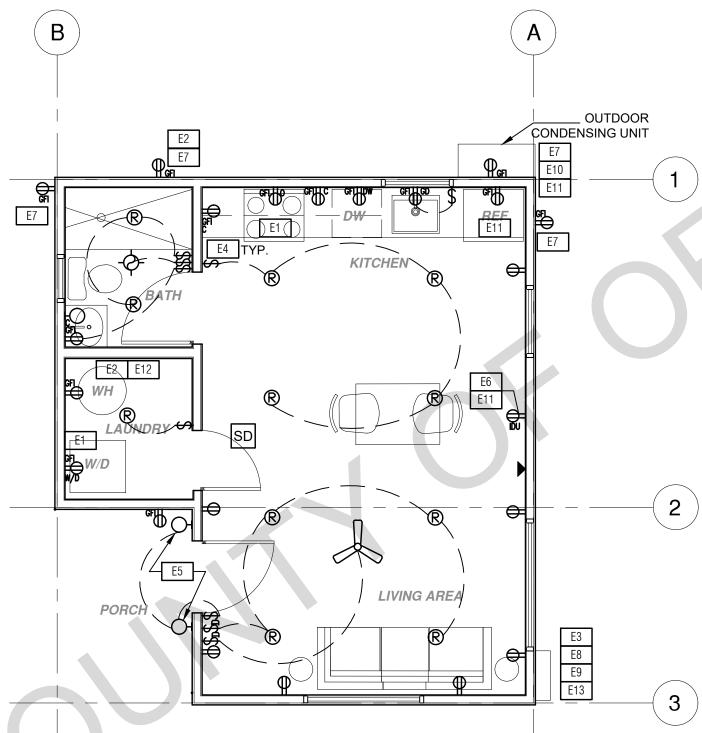
AND SHALL BE HERS VERIFIED PER CEC TABLE 150.0-G: 160

cfm OR 65% CE AT <750 s.f, 130 cfm OR 55% CE AT 750-1000

s.f., 110 cfm OR 50% CE AT 1000-1500 s.f., OR 110 cfm OR 50%



VOLTAGE DROP PER CEC 250.4



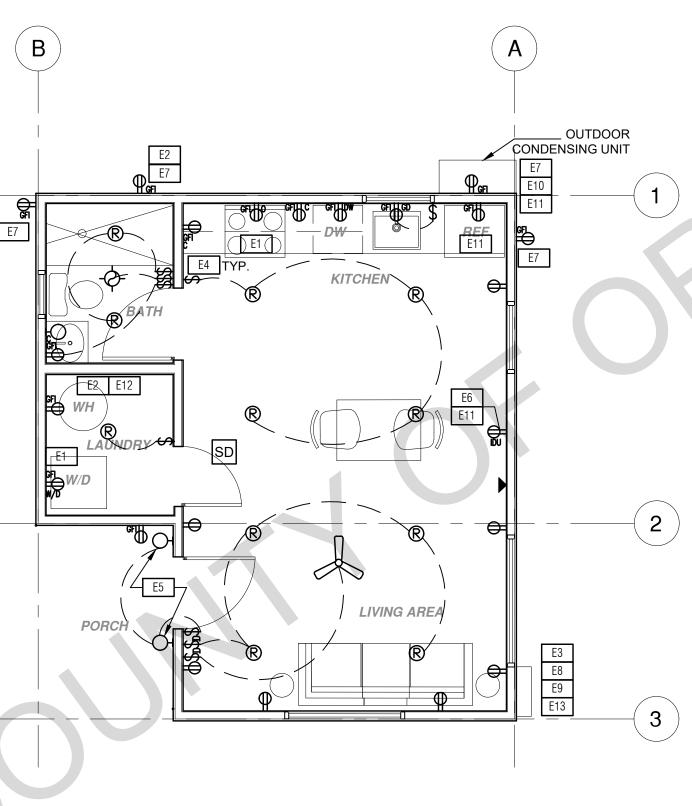
ELECTRICAL PLAN

EFFICACY OR BE CONTROLLED BY A VACANCY SENSOR.

*LIGHTING INSTALLED IN GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS SHALL BE HIGH EFFICACY AND BE CONTROLLED

1/4"=1'-0"

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FOLLOWING CONDITIONS:

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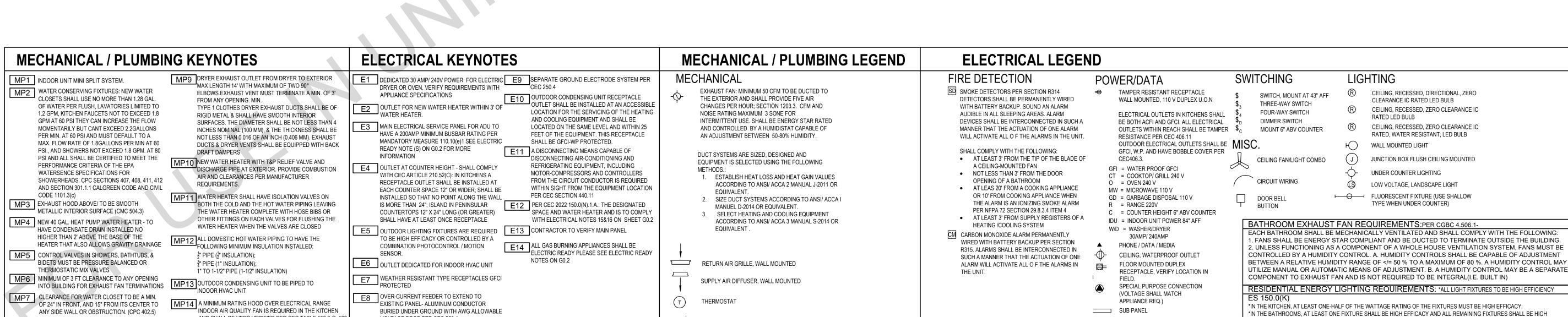
description

Mechanical/ Plumbing & Electrical Plans

April 03, 2024

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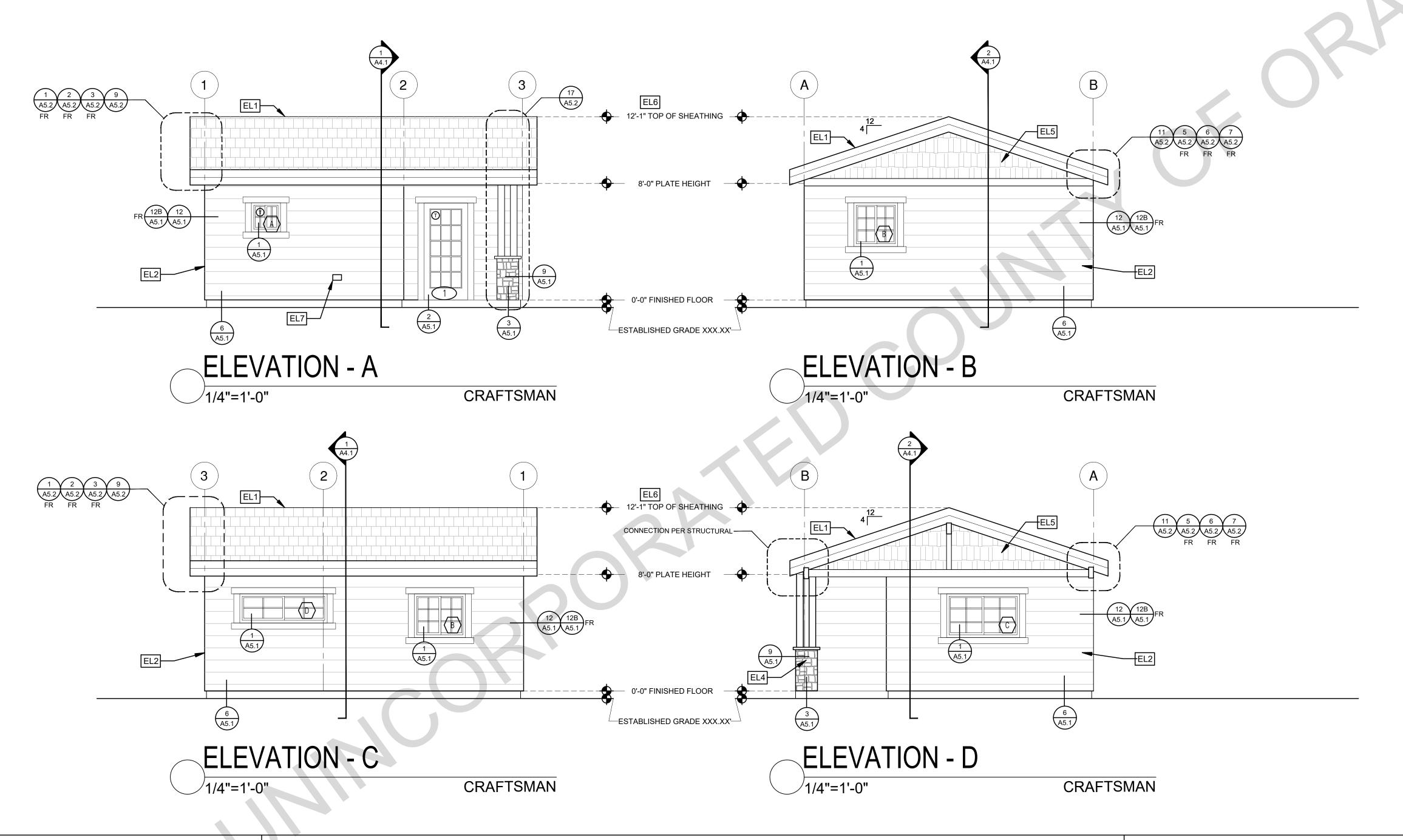
description **Exterior** Elevations Craftsman

Studio date April 03, 2024

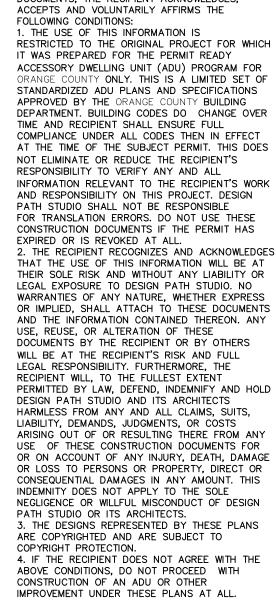
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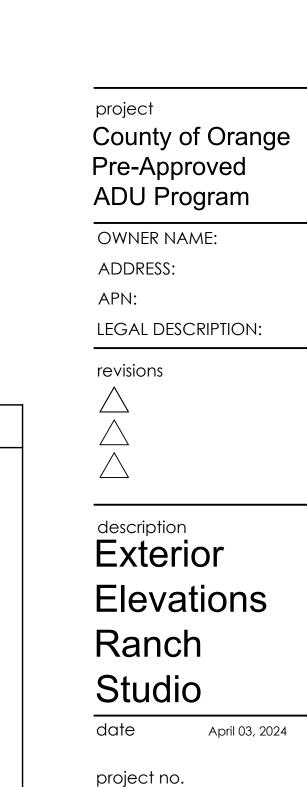
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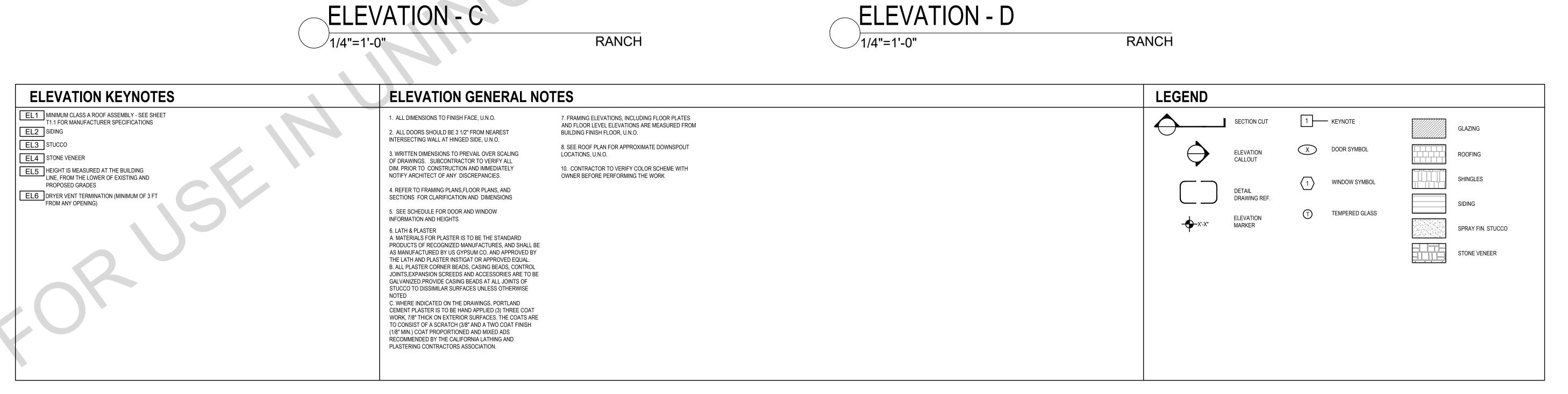
ELEVATION KEYNOTES	ELEVATION GENERAL NOTES		LEGEND		
EL1 MINIMUM CLASS A ROOF ASSEMBLY - SEE SHEET T1.1 FOR MANUFACTURER SPECIFICATIONS EL2 SIDING	AND	RAMING ELEVATIONS, INCLUDING FLOOR PLATES D FLOOR LEVEL ELEVATIONS ARE MEASURED FROM LDING FINISH FLOOR, U.N.O.	SECTION CUT	1 KEYNOTE	GLAZING
EL3 STUCCO EL4 STONE VENEER EL5 HEIGHT IS MEASURED AT THE BUILDING	8. SE 3. WRITTEN DIMENSIONS TO PREVAIL OVER SCALING LOCAL OF DRAWINGS. SUBCONTRACTOR TO VERIFY ALL	SEE ROOF PLAN FOR APPROXIMATE DOWNSPOUT CATIONS, U.N.O. CONTRACTOR TO VERIFY COLOR SCHEME WITH	ELEVATION CALLOUT	DOOR SYMBOL	ROOFING
PROPOSED GRADES EL6 DRYER VENT TERMINATION (MINIMUM OF 3 FT		NER BEFORE PERFORMING THE WORK	DETAIL DRAWING REF.	(1) WINDOW SYMBOL	SHINGLES
FROM ANY OPENING)	5. SEE SCHEDULE FOR DOOR AND WINDOW INFORMATION AND HEIGHTS6. LATH & PLASTER		-X'-X" ELEVATION MARKER	TEMPERED GLASS	SIDING SPRAY FIN. STUCCO
	A. MATERIALS FOR PLASTER IS TO BE THE STANDARD PRODUCTS OF RECOGNIZED MANUFACTURES, AND SHALL BE AS MANUFACTURED BY US GYPSUM CO. AND APPROVED BY THE LATH AND PLASTER INSTIGAT OR APPROVED EQUAL. B. ALL PLASTER CORNER BEADS, CASING BEADS, CONTROL				STONE VENEER
	JOINTS, EXPANSION SCREEDS AND ACCESSORIES ARE TO BE GALVANIZED. PROVIDE CASING BEADS AT ALL JOINTS OF STUCCO TO DISSIMILAR SURFACES UNLESS OTHERWISE NOTED C. WHERE INDICATED ON THE DRAWINGS, PORTLAND				
	CEMENT PLASTER IS TO BE HAND APPLIED (3) THREE COAT WORK, 7/8" THICK ON EXTERIOR SURFACES. THE COATS ARE TO CONSIST OF A SCRATCH (3/8" AND A TWO COAT FINISH (1/8" MIN.) COAT PROPORTIONED AND MIXED ADS RECOMMENDED BY THE CALIFORNIA LATHING AND				
	PLASTERING CONTRACTORS ASSOCIATION.				





drawn by

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- 12'-1" TOP OF SHEATHING -

- 0'-0" FINISHED FLOOR

-ESTABLISHED GRADE XXX.XX'-

EL6 ---- 12'-1" TOP OF SHEATHING

8'-0" PLATE HEIGHT

0'-0" FINISHED FLOOR

-ESTABLISHED GRADE XXX.XX'-

RANCH

ELEVATION - B

/1/4"=1'-0"

RANCH

EL4

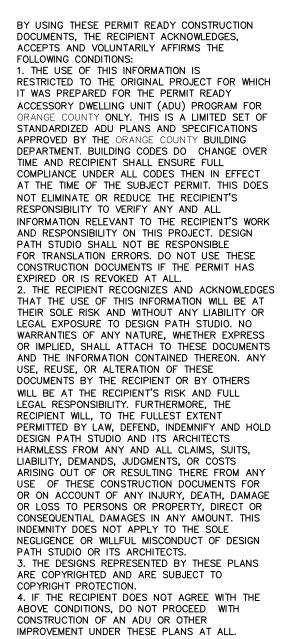
EL4

ELEVATION - A

[/]1/4"=1'-0"

8'-0" PLATE HEIGHT

D E





ADDRESS:

APN:

LEGAL DESCRIPTION:

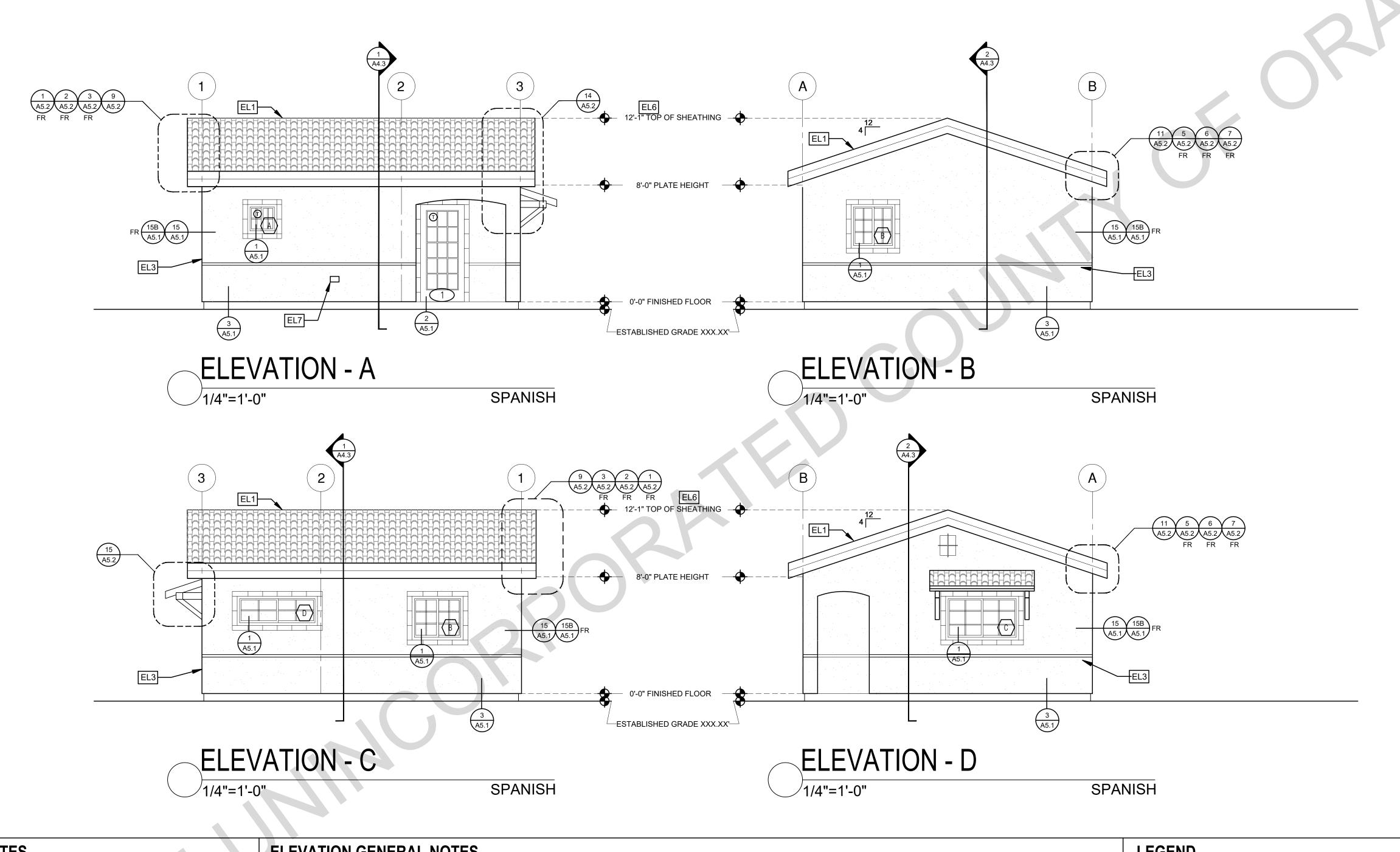
revisions



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ELEVATION KEYNOTES	ELEVATION GENERAL NOTES	LEGEND
EL1 MINIMUM CLASS A ROOF ASSEMBLY - SEE SHEET T1.1 FOR MANUFACTURER SPECIFICATIONS EL2 SIDING	1. ALL DIMENSIONS TO FINISH FACE, U.N.O. 7. FRAMING ELEVATIONS, INCLUDING FLOOR PLATES AND FLOOR LEVEL ELEVATIONS ARE MEASURED FROM 2. ALL DOORS SHOULD BE 3 1/2" FROM NEAREST INTERSECTING WALL AT HINGED SIDE, U.N.O.	SECTION CUT 1 KEYNOTE GLAZING
EL3 STUCCO EL4 STONE VENEER EL5 HEIGHT IS MEASURED AT THE BUILDING	8. SEE ROOF PLAN FOR APPROXIMATE DOWNSPOUT 3. WRITTEN DIMENSIONS TO PREVAIL OVER SCALING OF DRAWINGS. SUBCONTRACTOR TO VERIFY ALL DIM. PRIOR TO CONSTRUCTION AND IMMEDIATELY 10. CONTRACTOR TO VERIFY COLOR SCHEME WITH	ELEVATION X DOOR SYMBOL ROOFING
LINE, FROM THE LOWER OF EXISTING AND PROPOSED GRADES EL6 DRYER VENT TERMINATION (MINIMUM OF 3 FT FROM ANY OPENING)	NOTIFY ARCHITECT OF ANY DISCREPANCIES. OWNER BEFORE PERFORMING THE WORK 4. REFER TO FRAMING PLANS, FLOOR PLANS, AND SECTIONS FOR CLARIFICATION AND DIMENSIONS	DETAIL DRAWING REF. 1 WINDOW SYMBOL SHINGLES SIDING
THOMPILE STEP	5. SEE SCHEDULE FOR DOOR AND WINDOW INFORMATION AND HEIGHTS 6. LATH & PLASTER A. MATERIALS FOR PLASTER IS TO BE THE STANDARD	ELEVATION TEMPERED GLASS SIDING SIDING SIDING SIDING SPRAY FIN. STUCCO
	PRODUCTS OF RECOGNIZED MANUFACTURES, AND SHALL BE AS MANUFACTURED BY US GYPSUM CO. AND APPROVED BY THE LATH AND PLASTER INSTIGAT OR APPROVED EQUAL. B. ALL PLASTER CORNER BEADS, CASING BEADS, CONTROL	STONE VENEER
	JOINTS, EXPANSION SCREEDS AND ACCESSORIES ARE TO BE GALVANIZED. PROVIDE CASING BEADS AT ALL JOINTS OF STUCCO TO DISSIMILAR SURFACES UNLESS OTHERWISE NOTED	
	C. WHERE INDICATED ON THE DRAWINGS, PORTLAND CEMENT PLASTER IS TO BE HAND APPLIED (3) THREE COAT WORK, 7/8" THICK ON EXTERIOR SURFACES. THE COATS ARE TO CONSIST OF A SCRATCH (3/8" AND A TWO COAT FINISH (1/8" MIN.) COAT PROPORTIONED AND MIXED ADS RECOMMENDED BY THE CALIFORNIA LATHING AND	
	PLASTERING CONTRACTORS ASSOCIATION.	

IMPROVEMENT UNDER THESE PLANS AT ALL.

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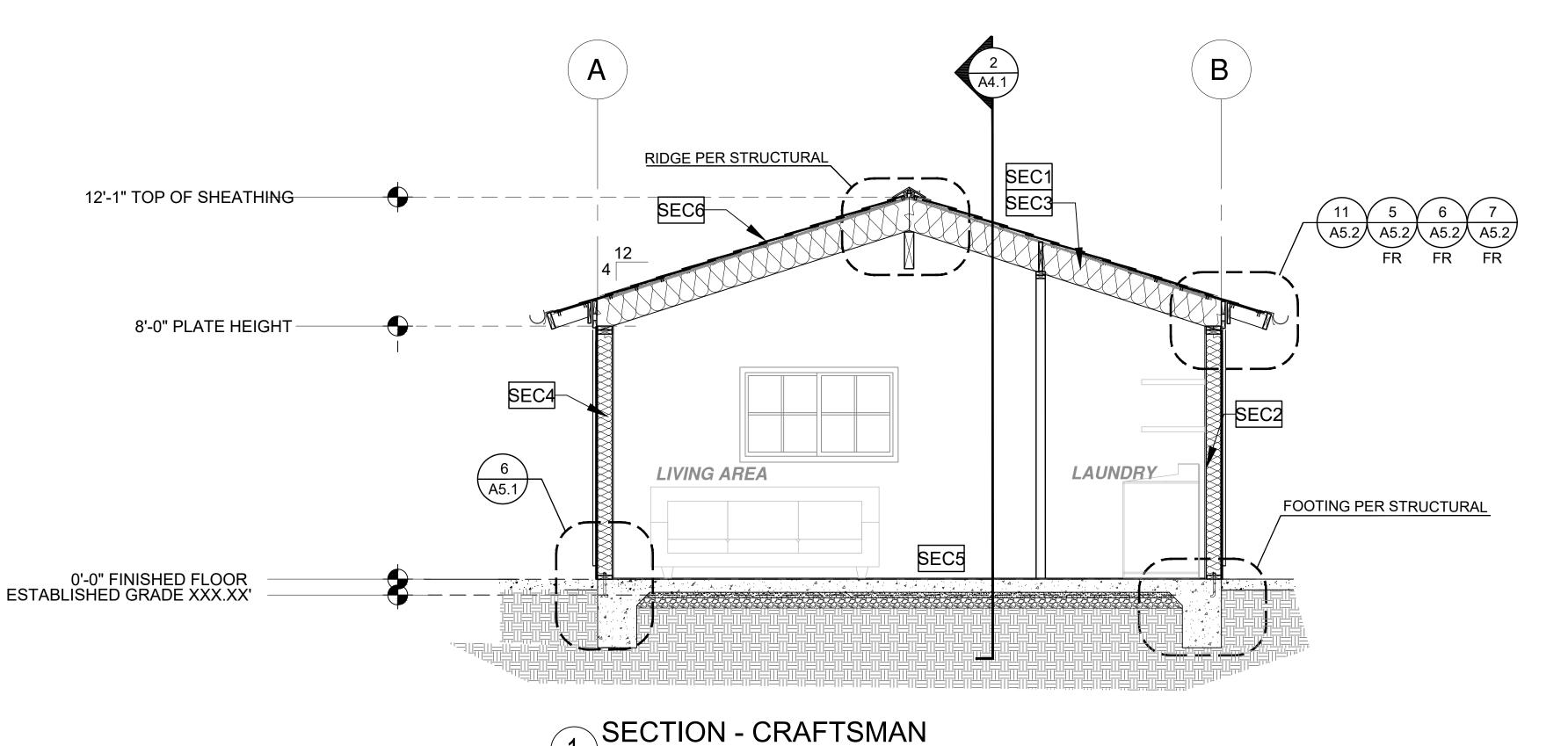
Sections
Craftsman
Studio

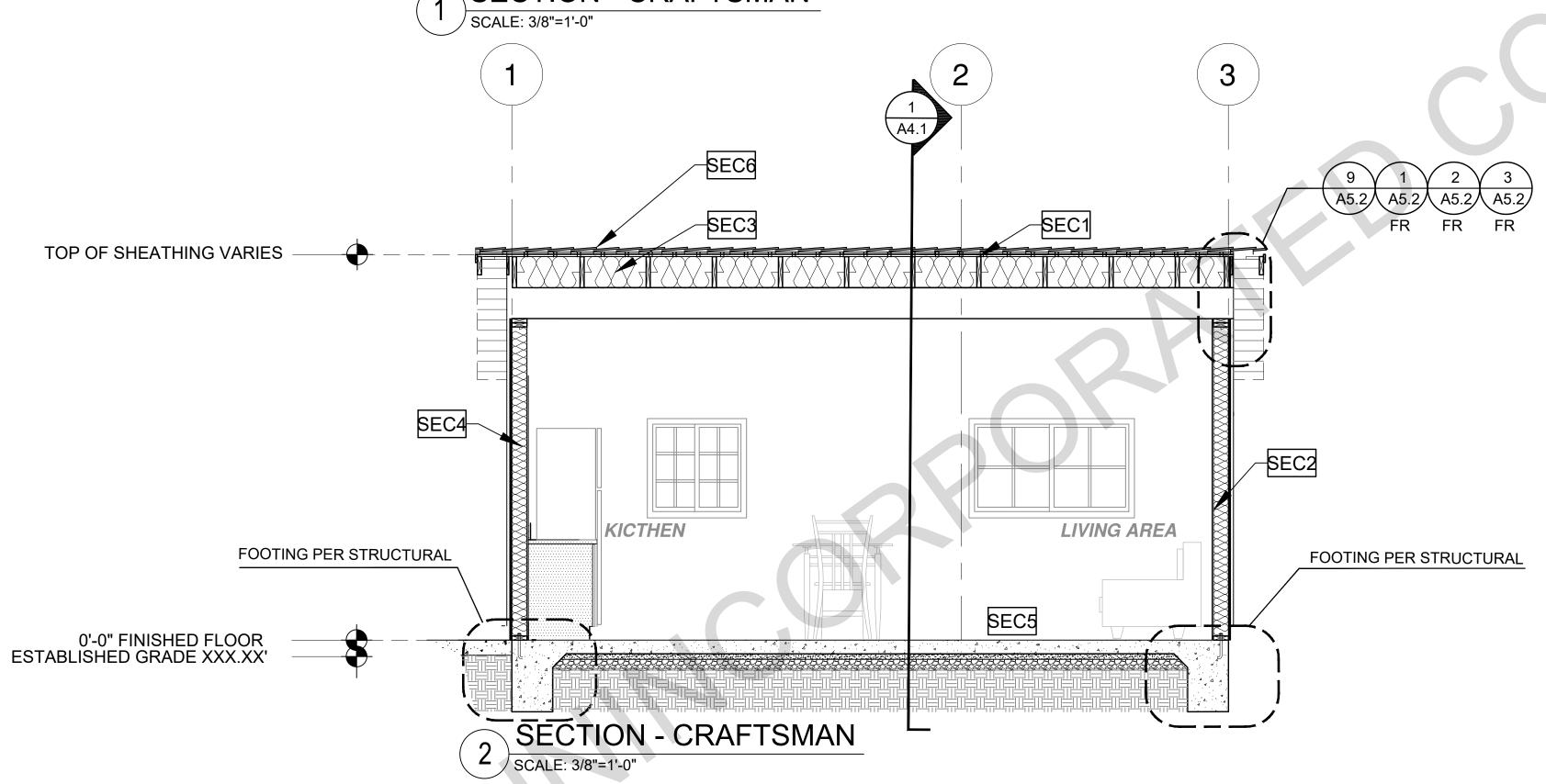
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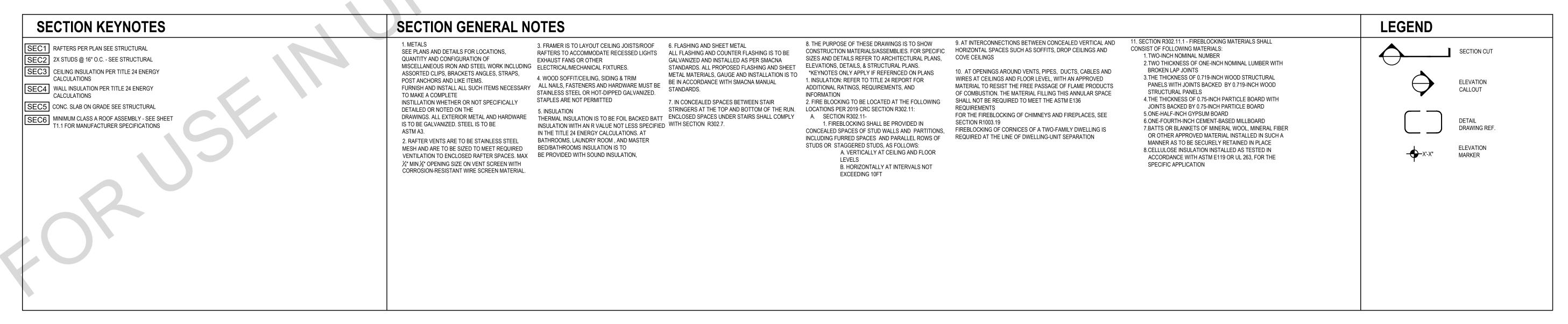
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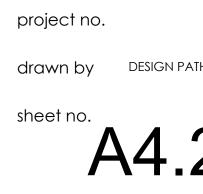
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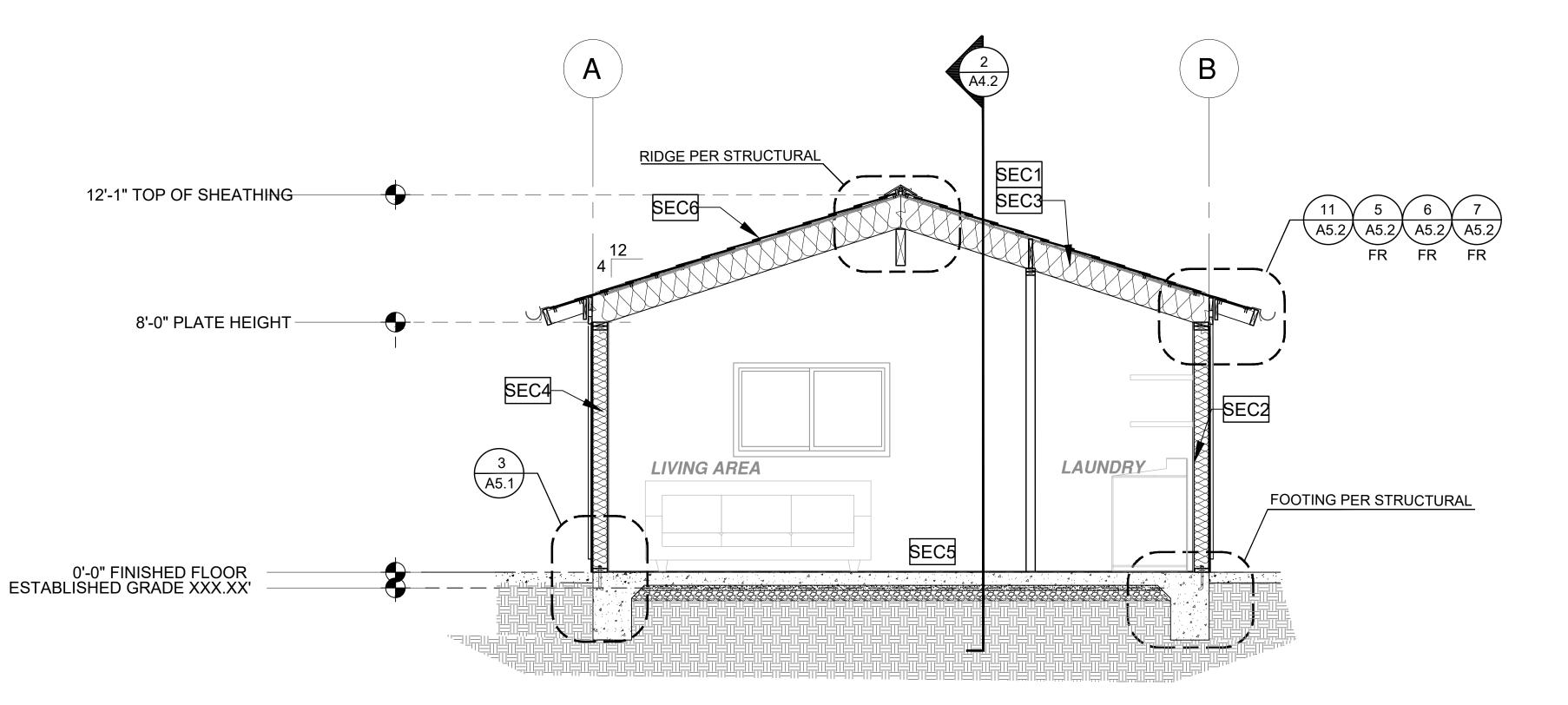
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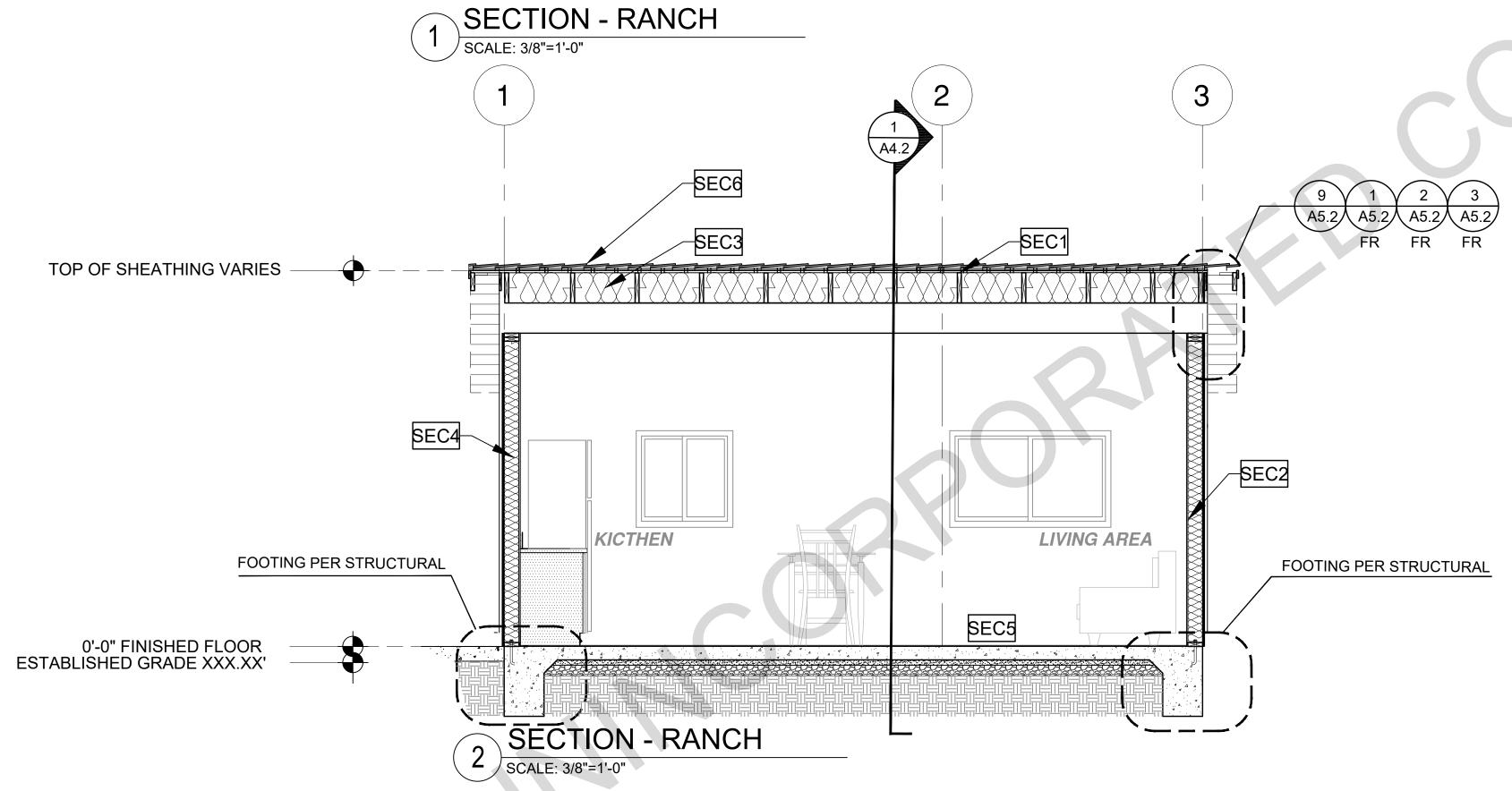
description
Sections Ranch Studio

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DESIGN PATH STUDIO







SECTION KEYNOTES	SECTION GENERAL NOTES	LEGEND
SEC1 RAFTERS PER PLAN SEE STRUCTURAL SEC2 2X STUDS @ 16" O.C SEE STRUCTURAL SEC3 CELING INSULATION PER TITLE 24 ENERGY CALCULATIONS SEC4 WALL INSULATION PER TITLE 24 ENERGY CALCULATIONS SEC5 CONC. SLAB ON GRADE SEE STRUCTURAL SEC6 MINIMUM CLASS A ROOF ASSEMBLY - SEE SHEET T1.1 FOR MANUFACTURER SPECIFICATIONS	1. METALS SEPTION AND COPE CIDATIONS, GIVENTITY AND COPE CIDATION, GIVENTITY AND COPE CIDATI	ELEVATION CALLOUT DETAIL DRAWING REF. ELEVATION MARKER

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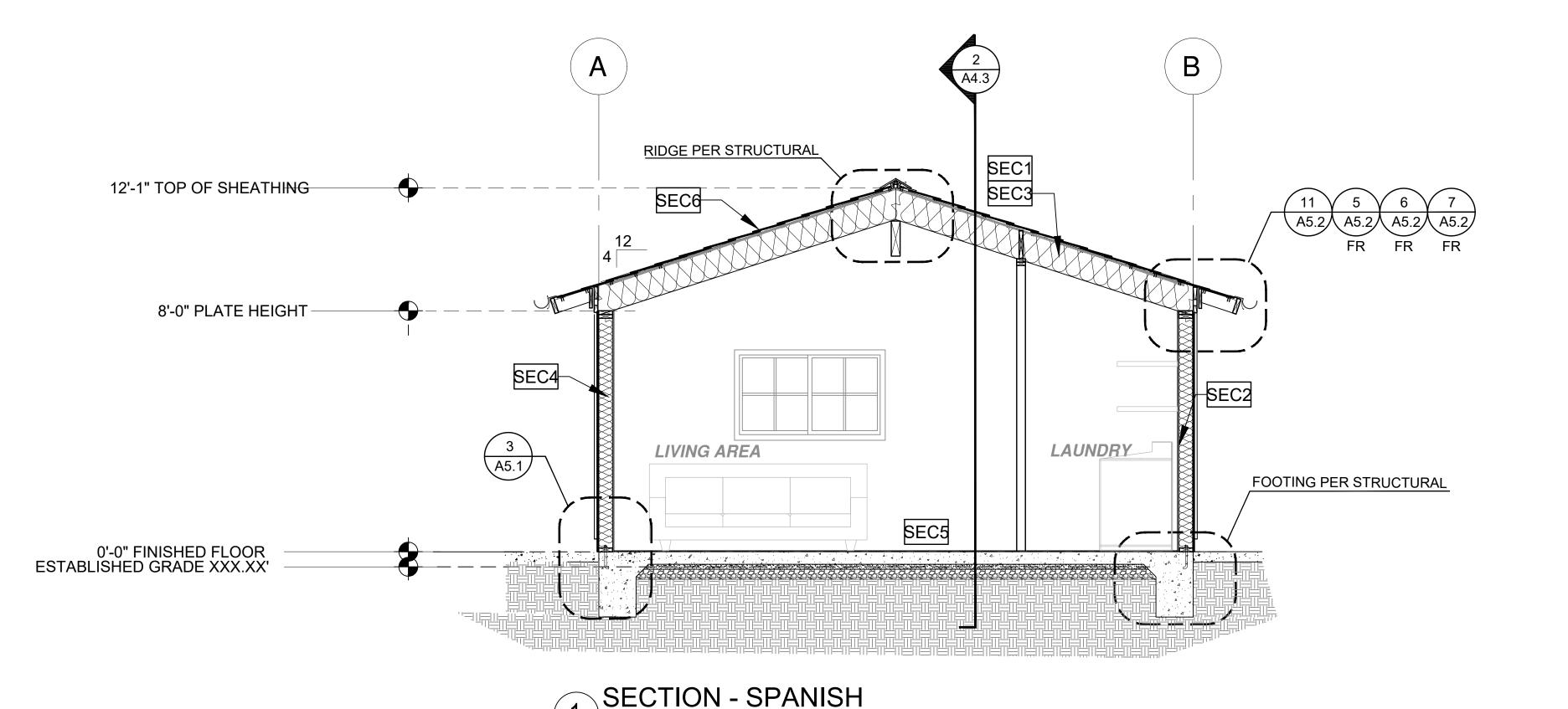
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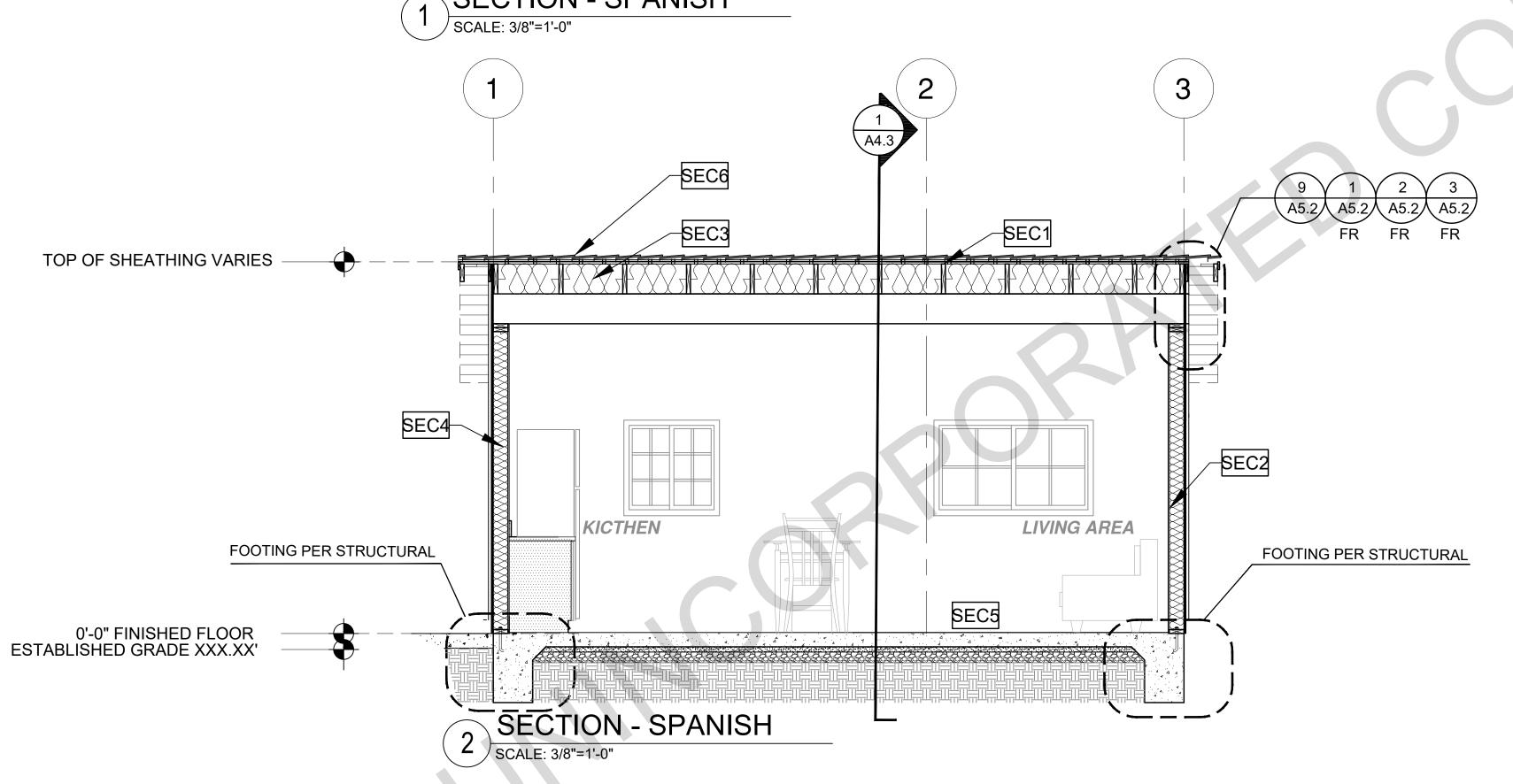
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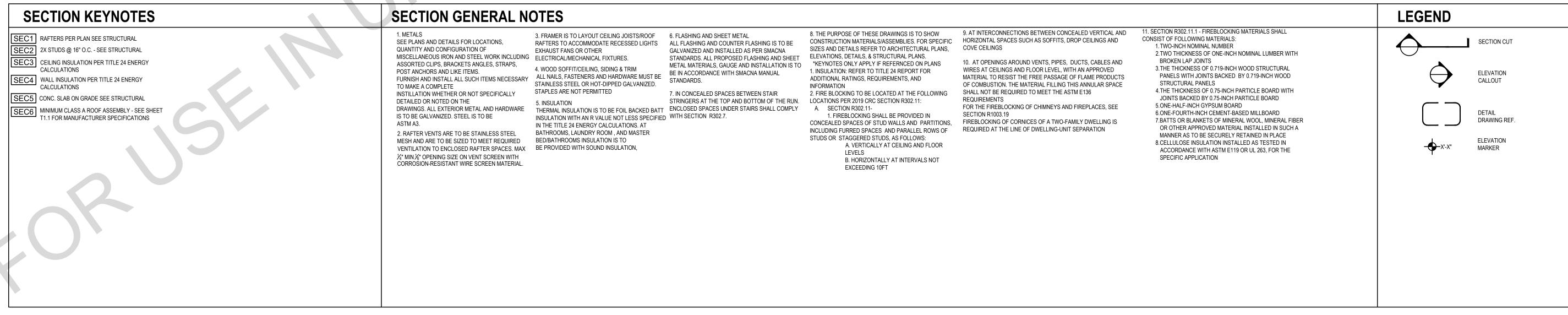
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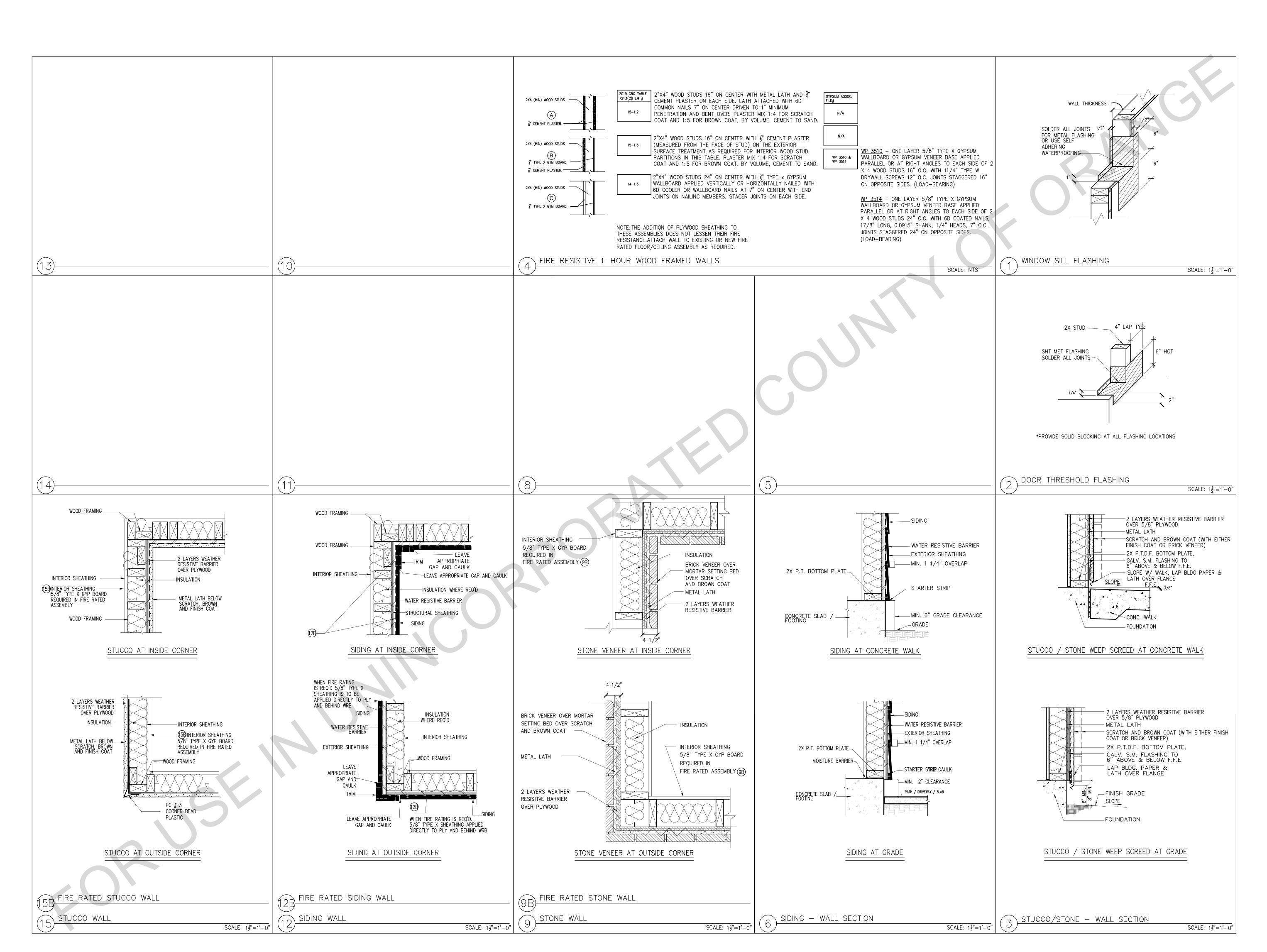
Architectural
Wall
Details

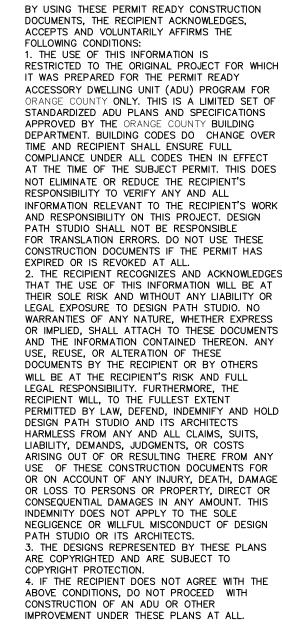
date April 03, 2024

project no.

drawn by DESIGN PATH STUDIO

sheet no. A5.







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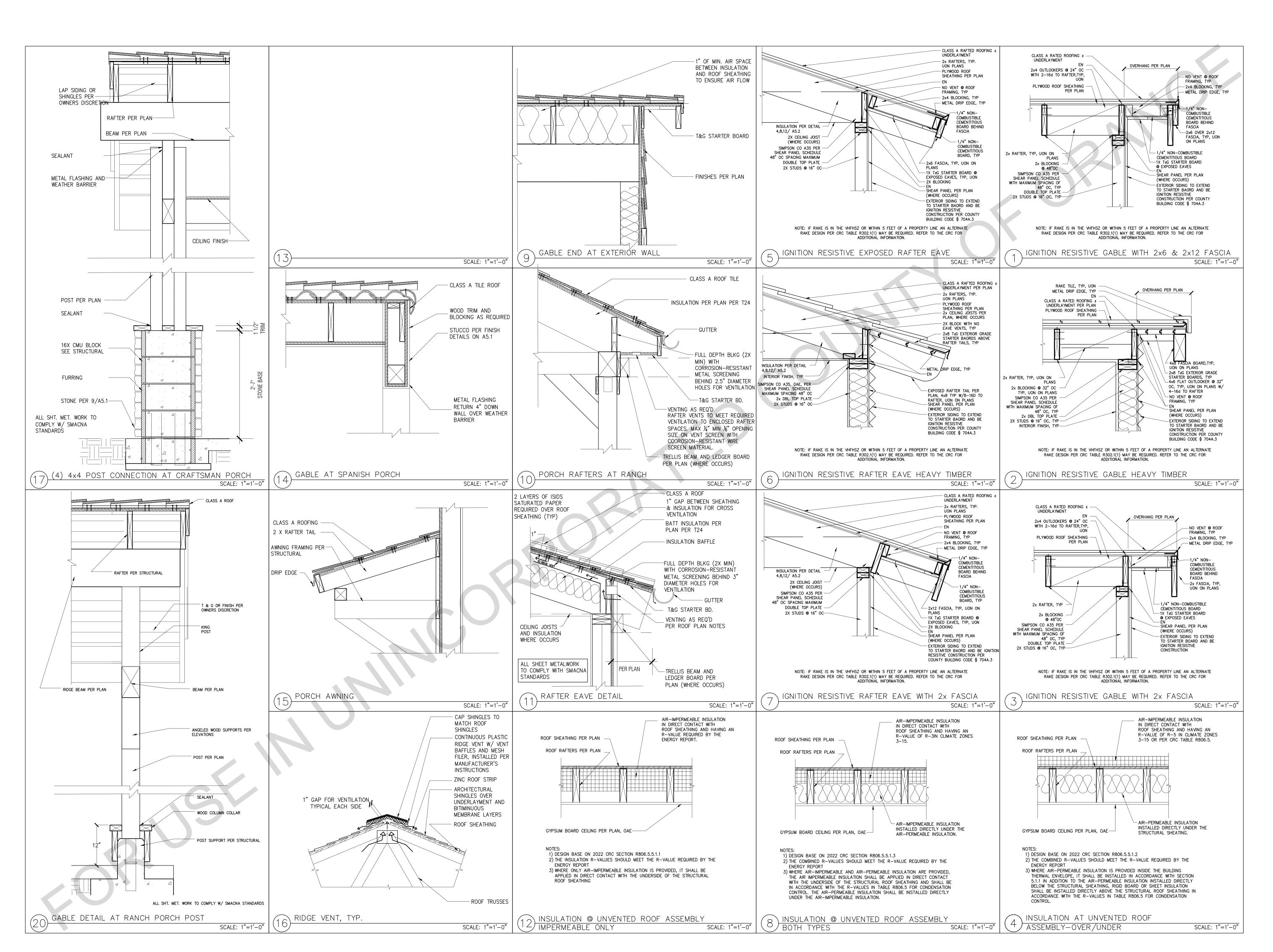
revisions

description **Architectural** Roof Finish **Details**

April 03, 2024

project no.

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WALLBOARD W/ 5D COOLER NAILS OR EQUAL @ 7" O/C TO ALL STUDS AND TO TOP & BOTTOM PLATES (UNBLOCKED) AT INTERIOR SIDE OF EXTERIOR WALLS AND AT BOTH SIDES OF ALL INTERIOR WALLS.

EXTERIOR SURFACES: SEE PLANS. WHERE "STUCCO" IS SPECIFIED PROVIDE $\frac{7}{8}$ " EXTERIOR CEMENT PLASTER OVER WIRE LATH OVER TYPE 15 BUILDING PAPER. LATH ATTACHED TO ALL STUDS AND TOP AND BOTTOM PLATES (OR BLOCKING AS OCCURS) W/ 16 GAGE X $\frac{7}{16}$ " STAPLES @ 6" O/C OR NO. 11 GAGE X 1-1/2" FURRING NAILS WHERE INDICATED ON ELEVATIONS.

- 303. STRUCTURAL SHEATHING MAY BE EITHER OSB OR PLYWOOD. ANY NOTES REFERRING TO PLYWOOD ALSO APPLIES TO OSB.
- 304. TOP PLATES SHALL BE DOUBLE 2X W/ WIDTH EQUAL TO STUDS BELOW, W/ (21)16D NAILS MIN. @ MINIMUM 4'-0" LAP SPLICES. USE SIMPSON RPS OR CS16 STRAP EACH SIDE OR ONE SIDE AND TOP WHERE LAP SPLICE IS NOT POSSIBLE. SEE DETAILS FOR NOTCHES, CUT-OUTS AND COMPLETE PLATE BREAKS AT HEATING, VENTING, AND PLUMBING.

WOOD FRAMING CONSTRUCTION (CONT.)

ROOF TO WALL: CONNECT ROOF FRAMING TO TOP PLATE W/ SIMPSON H1 @ 24" O/C OR A35 OR RBC @ 24" O/C OR PER SHEAR TRANSFER DETAILS.

- 306. GROUND FLOOR / SLAB ON GRADE WALLS: PROVIDE 2X (MIN.) PTDF SILL PLATES SEE CONCRETE FOUNDATION CONSTRUCTION NOTES 206, 207 & 208 FOR ANCHOR BOLTS. AT INTERIOR NON-SHEAR CONDITIONS, 0.145 SHOT PIN ANCHORS @ 32" O/C MAY BE USED TO CONNECT PARTITIONS AND BEARING WALLS TO SLAB.
- 307. ALL WOOD SILL PLATES AND ALL WOOD MEMBERS DIRECTLY AGAINST CONCRETE OR MASONRY SHALL BE FOUNDATION GRADE REDWOOD SILLS OR PTDF SILLS, TREATED WITH SODIUM BORATE (SBX/DOT) WHEN INSTALLED IN A DRY OR ENCLOSED ENVIRONMENT. (SODIUM BORATE TREATMENT DOES NOT REQUIRE CORROSION RESISTANT CONNECTORS.)
- ALL NAILS AND FASTENERS IN CONTACT WITH PRESSURE TREATED LUMBER TREATED WITH ACQ-C. ACQ-D. CA-B. AND CBA-A WITHOUT AMMONIA SHALL BE GALVANIZED PER

ALL NAILS AND FASTENERS IN CONTACT WITH PRESSURE TREATED LUMBER TREATED WITH ACQ-C, ACQ-D, CA-B, AND CBA-A WITH AMMONIA SHALL BE TYPE 303, 304, 305,

WHERE PRESSURE TREATED LUMBER IS INSTALLED IN AN EXTERIOR WET ENVIRONMENT ALL NAILS AND FASTENERS IN CONTACT WITH THE PRESSURE TREATED LUMBER SHALL BE

- 309. RE-TIGHTEN ALL HOLDOWN ANCHORS JUST PRIOR TO COVERING THE WALL FRAMING.
- "PSL" REFERS TO PARALLEL STRAND LUMBER (E=2.0, FB=2900). "LSL" REFERS TO LAMINATED STRAND LUMBER (E=1.55, FB=2325) (E=1.3 & FB=1700 AT LSL CONDITIONS WITH D (DEPTH) < 9") "LVL" REFERS TO LAMINATED VENEER LUMBER (E=2.0, FB=2800) "GLB" REFERS TO 24F-1.8E GLU-LAM WITH STANDARD CAMBER, U.N.O. "IJC" ENGINEERED GLU-LAM BEAM MAY BE USED UPON ENGINEER APPROVALS. AN A.I.T.C CERTIFICATE OF COMPLIANCE ISSUED BY A CURRENT ICC APPROVED QUALITY CONTROL AGENCY FOR GLUED LAMINATED WOOD MEMBERS SHALL BE GIVEN TO THE BUILDING INSPECTOR PRIOR TO INSTALLATION
- ALL FRAMING LUMBER SHALL BE DOUGLAS FIR-LARCH. STUDS, PLATES & BLOCKING: STANDARD GRADE OR BETTER STUD GRADE OR BETTER #2 OR BETTER STANDARD OR BETTER #2 OR BETTER STANDARD OR BETTER OR #1 #1 OR BETTER #2 OR BETTER #1 OR BETTER #2 OR BETTER **#1 OR BETTER**
- BY VIRTUE OF CODE COMPLIANCE WITH ELECTRICAL AND PLUMBING CODES, HOLES AND NOTCHES WILL INEVITABLY BE MADE IN FRAMING MEMBERS. THE CODE RECOGNIZES AND APPROVES VARIOUS HOLES AND NOTCHES WITHOUT ENGINEERING JUSTIFICATION IN CBC SECTION 2308.8.2. ENGINEERED (PSL, LSL) RECTANGULAR LUMBER BEAMS BEHAVE LIKE ANY OTHER RECTANGULAR SHAPE WHEN NOTCHED OR BORED, SO THE ENGINEER OR ARCHITECT MAY SPECIFY LIMITS WITHOUT MANUFACTURER APPROVAL OTHER HOLES AND NOTCHES ARE ALLOWED AS NOTED BELOW:

PSL AND LVL BEAMS: A HOLE 1 INCH IN DIAMETER CAN BE DRILLED ANYWHERE, AND A 2 INCH DIA. HOLE CAN BE DRILLED IN THE MIDDLE THIRD OF THE SPAN IN THE MIDDLE THIRD OF THE DEPTH OF THE BEAM FOR ANY PSL OR LVL BEAM, EXCEPT CANTILEVERED BEAMS AND BEAMS SUPPORTING CONCENTRATED LOADS. HOLES IN THOSE CONDITIONS REQUIRE APPROVAL IN WRITING FROM THE ENGINEER.

PSL AND LVL BEAMS: A RAKE CUT (TAPER) AT THE TOP OF THE BEAM AT THE END OF THE SUPPORT IS ALLOWED IF NOTED ON PLANS, TO A MINIMUM OF 4-3/8" AT INSIDE FACE OF SUPPORT. RAKE CUT (TAPER) THAT RESULTS IN A DEPTH AT THE INSIDE FACE OF THE SUPPORT OF 2/3RDS THE BEAM DEPTH IS ALLOWED AT CONDITIONS NOT SPECIFIED. OTHER TAPERED ENDS AND SQUARE NOTCHES IN TOP OR BOTTOM FACE REQUIRE APPROVAL IN

SEE STRUCTURAL DETAILS 14 & 15 ON DETAIL SHEETS NOTCHING

- 313. PROVIDE 2X4 TRIMMER & 2X4 KING STUD EACH END OF EACH 4X DROPPED BEAM OR HEADER. PROVIDE DOUBLE TRIMMERS AT EACH 4X10 OR LARGER. PROVIDE DOUBLE
- 314. PROVIDE 2X6 TRIMMER & 2X6 KING STUD EACH END OF EACH 6X DROPPED BEAM OR HEADER. PROVIDE DOUBLE TRIMMERS AT EACH 6X8 OR LARGER. PROVIDE DOUBLE TRIMMERS AT EACH 5-1/4 X 7-1/2 PSL OR LSL OR LARGER.
- 315. PROVIDE DOUBLE KING STUDS AT ALL OPENINGS 8'-1" WIDE AND WIDER OR PER PLAN.
- 316. PROVIDE MINIMUM 2-1/4" BEARING @ EACH END OF EACH FLUSH BEAM OR HEADER WHERE BEARING IS ON TOP PLATE. PROVIDE 2X4 STUD WITHIN 3" OF BEARING POINT. PROVIDE (2) 2X STUDS @ 6X OR LSL OR PSL BEAMS.
- 317. ROOF RAFTERS SHALL BE 2X RAFTERS AS NOTED ON STRUCTURAL DRAWINGS
- 318. EAVES SHALL BE PER ARCHITECTURAL PLANS W/ APPLIED TAILS PER ARCHITECTURAL PLANS. OVERHANG DETAILS ARE NOT SHOWN ON STRUCTURAL PLANS.

319. SEE THE ARCHITECTURAL ROOF PLANS FOR ROOF PITCH AND ADDITIONAL INFORMATION. 320. COMBINE AND GROUP PLUMBING VENTS WHENEVER POSSIBLE TO MINIMIZE ROOF PENETRATIONS.

321. WOOD TO WOOD CONNECTORS SHALL BE SIMPSON STRONG TIE OR USP STRUCTURAL CONNECTORS. ALL SPECIFIED CONNECTOR CALL-OUTS ARE SIMPSON CATALOG CALL-OUTS. USP SUBSTITUTIONS SHALL HAVE A CAPACITY EQUAL TO OR GREATER THAN THE SIMPSON

CATALOG VALUES. ANY OTHER ICC APPROVED METAL CONNECTOR MAY BE USED UPON

3. WOOD FRAMING CONSTRUCTION (CONT.)

APPROVAL BY THE ENGINEER OR ARCHITECT

322. ICC APPROVED CONNECTORS SHALL BE USED WHERE CONNECTORS ARE SPECIFIED. UNLESS OTHERWISE NOTED, THE FOLLOWING BEAM AND JOIST HANGERS SHALL BE USED: BEAM OR JOIST SIMPSON/USP HANGER RAFTERS

LU, LUS, LUC, OR HU 1.75 X LSL AND LVL HU, HUS, OR WPU 2.69 X PSL AND LVL HU OR HWU HHUS OR HWU 3.5 X PSL AND LVL HHUS OR HWU 5.25 X PSL AND LVL 7 X PSL AND LVL HHUS OR HWU

AT BEAM HANGER CALLOUTS, IE HGUS OR HU BEAMS, THE CALLOUT IS ABBREVIATED. THE HANGER WIDTH MAY BE OMITTED TO ALLOW FLEXIBILITY IN ORDERING. EXAMPLE: 2.69 PSL THE CALLOUT MAY READ HGUS12. AN HGUS2.75/12 OR HGUS412 (WITH FILLERS) ARE APPLICABLE. WHERE HANGERS OFFER (MIN) OR (MAX), NAIL TO APPLY (MAX) LOADS

- 323. WHERE SHEARWALL LENGTHS ARE SPECIFIED ON THE PLANS, THE LENGTH SHOWN IS A MINIMUM DIMENSION. THE SHEARWALL MAY BE LENGTHENED FOR CONSTRUCTION PURPOSES. BUT SHALL NOT BE REDUCED UNLESS OTHERWISE NOTED. ALL ENGINEERED WOOD PANEL SHEAR (PLYWOOD OR OSB) SHALL BE BLOCKED.
- $^{324.}$ THE FOLLOWING HOLES IN SHEARWALLS ARE ALLOWED:
- LESS THAN 64 SQ. INCHES (ONE HOLE PER 4' OF SHEARWALL. C) APPROXIMATELY SQUARE HOLES, LESS THAN 64 SQ. INCHES (ONE HOLE PER 8' OF
- D) HOLES INDIVIDUALLY APPROVED BY THE ENGINEER OR ARCHITECT OF RECORD.
- 325. STUDS SHALL BE SPACED @ 16" O/C MAX. UNLESS OTHERWISE SPECIFIED. USE STUD GRADE EXCEPT AT PLATE HEIGHTS HIGHER THAN 10'-0", THEN USE DF#2 OR BETTER

4. ICC-ES AND NER APPROVALS FULL REPORTS FOUND AT:

401. JOISTS AND RAFTERS AND BEAMS: TRUS-JOIST TJI JOISTS AND PSL, LSL, & LVL--ICC-ES ESR-1387, 1153 BOISE CASCADE BCI JOISTS, VERSA-LAM, & VERSA-STRAND--ICC-ESR-1040, 1336 LOUISIANA PACIFIC JOISTS & BEAMS--ESR-1305, 2403 ROSEBURG JOISTS & BEAMS--ESR-1210, 1251

402. WOOD CONNECTORS: 2549, 2551, 2552, 2553, 2330, 2554, 2555, 2604, 2605, 2606, 2607, 2608, 2611, 2613, 2614, 2615, 2616, 2877, 2920, 3046

SIMPSON WEDGE-ALL (WA) WEDGE ANCHORS--ICC-ES ES-1771 SIMPSON TITEN HD--ICC-ESR-1056, 2713

- 500. 16D NAILS AS SHOWN ON THE DETAILS MAY BE COMMON, BOX, OR SINKER NAILS (0.135" MIN. DIA)
- 501. AS AN ALTERNATE TO THE COMMON AND BOX NAILS SPECIFIED IN THE STRUCTURAL PLANS, THE FOLLOWING "CUTLER" GUN NAILS (OR EQUAL) ARE ACCEPTABLE ALTERNATIVES.
- 502. ALTERNATE NAILING FOR ROOF SHEATHING:
- 503. ALTERNATE NAILING FOR FLOOR SHEATHING: #8 X 2" SELF SETTING WOOD SCREWS, OR 8D $2\frac{1}{2}$ " X 0.135 OR 0.148 SCREW SHANK FLOOR NAILS BY CUTLER OR EQUAL

NAIL SIZ	ZES				
SIZE OF NAIL	STANDARD LENGTH	WIRE GAUGE	SIZE (INCHES)	PENETRATION REQUIRED	
BOX NA			(
6D	2"	12	0.099	1"	
8D	2 "	11	0.113	1 "	
10D	3"	10	0.128	1 "	
12D	3"	10	0.128	1 "	
16D	3 "	10	0.135	1 "	
16D SINKE	ER 3"	9	0.148	1 "	
COMMC	N NAIL	S			
6D	2"	11	0.113	1"	
8D	$2\frac{1}{2}$ "	10	0.131	1 "	
10D	3"	9	0.148	1 1/4 "	
12D	3"	9	0.148	1 1 1 "	
16D	3 "	8	0.162	' 4	

6. NAILING SCHEDULE, MINIMUMS (CBC CHAPTER 23, TABLE 2304.10.2) 4-8d Box, 3-8d Com, 3-10d box, 3-3" x 0.131" nails, 3-3" 14 gage staples BLKNG AT CEILING JOISTS, RAFTERS, OR TRUSSES TO TOP PLATE OR OTHER FRAMING, T.N.

BLKNG AT CEILING RAFTERS OR TRUSSES NOT AT WALL TOP PLATE TO RAFTER OR TRUSS, T.N. BLKNG AT CEILING RAFTERS OR TRUSSES NOT AT WALL TOP PLATE TO RAFTER OR TRUSS. E.N. FLAT BLKNG TO TRUSS AND WEB, F.N. CEILING JOISTS TO TOP PLATE, T.N. CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS, F.N. PER 2308.7.3.1

4-8d box, 3-8d Com, 3-10d box, 3-3"x.131 nails, 3-3" 14 gage staples 3-16d Com, 4-10d box, 4-3" x 0.131" nails, 4-3" 14 gage staples 3-16d Com, 4-10d box, 4-3" x 0.131" nails, 4-3" 14 gage staples CEILING JOISTS ATTACHED TO PARALLEL RAFTER (HEEL JOINT), F.N. PER 2308.7.3.1 COLLAR TIE TO RAFTER, F.N. 3-10d Com, 4-10d box, 4-3"x0.131" nails, 4-3" 14 gage staples 3-10d Com, 3-16d or 4-10d box, 4-3" x 0.131" nails, 4-3" 14 gage staples RAFTER/TRUSS TO TOP PLATE, T.N. PER TABLE 2308.7.3.5

RAFTERS TO RIDGE VALLEY OR HIP: OR FATER TO 2" RIDGE BEAM 4-16d box, 3-10d Com, 3-16d or 4-10d box, 4-3" x 0.131" nails, 4-3" 14 gage staples 2-16d Com, 3-16d box, 3-10d box, 3-3" x 0.131" nails, 3-3" 14 gage staples **ENDNAIL** 16d Com @ 24" o.c. FN OR 2-10d box, 3" x 0.131" nails, 3-3" 14 gage staples @ 16" o.c. FN STUD TO STUD (NOT AT BRACED WALL PANELS) STUD TO STUD AT INTERSECTING WALL CORNERS (BRACED WALL) 16d Com @ 16" o.c. FN OR 16d Box, 3" x 0.131" nails, 3-3" 14 gage staples @ 12" o.c. FN

BUILT-UP HEADER (2" TO 2"), FN EA. EDGE 16d Com @ 16" o.c OR 16d Box @ 12" o.c. CONT. HEADER TO STUD. T.N. 4-8d Com, 4-10d Box, 5-8d box TOP PLATE TO TOP PLATE 16d Com @ 16" o.c. FN OR 10d Box, 3" x 0.131" nails, 3" 14 gage staples @ 12 o.c. FN

TOP PLATE TO TOP PLATE, AT END JOINTS (EACH SIDE OF END JOINT), FACENAIL 24" MIN LAP SPLICE EA. SIDE 8-16d Com. 12-16d Box. 12-10d Box. 12-3" x 0.131" nails. 12-3" 14 gage staples

BOTTOM PLATE TO JOIST, RIM, OR BLKG, FACENAIL UNBRACED WALL: 16" o.c. FN UNBRACED WALL: 12" o.c. FN BRACED WALL: 16"o.c. FN STUD TO TOP OR BOTTOM PLATE

TOENAIL

ENDNAIL

1" BRACE TO EACH STUD AND PLATE, F.N.

1"x6" SHEATHING TO EACH BEARING, F.N

JOIST TO SILL, TOP PLATE, OR GIRDER, T.N.

24" o.c. FN Top & BTTM

ENDS & SPLICES, FN

INTERIOR PANELING

RESIDENTIAL CODE.

1"x6" SUBFLOOR OR LESS TO EACH JOIST, F.N.

2" SUBFLOOR TO JOIST OR GIRDER, F.N. or BLIND

BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS

TOP PLATES, LAPS AT CORNERS AND INTERSECTION, F.N.

RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER

2" PLANKS (PLANK & BEAM - FLOOR & ROOF), FACENAIL & EACH BEARING

32" o.c. FN Top & BTTM STAGGERED ON OPPOSITE SIDES

1"x8" SHEATHING AND WIDER TO EACH BEARING, F.N.

A) APPROXIMATELY SQUARE HOLES NOTCHED, PUNCHED, OR CUT THAT ARE LESS THAN

B) APPROXIMATELY SQUARE HOLES CLEAN CUT OR BORED IN SHEARWALLS THAT ARE

SHEARWALL) WITH ALL EDGES BLOCKED & EDGE NAILED.

326. ALL FINISHES. WATERPROOFING. DRAINAGE. AND FIRE-RELATED ELEMENTS ARE BY THE ARCHITECT OF RECORD AND ARE REQUIRED EVEN THOUGH THEY MAY NOT BE SHOWN ON THE STRUCTURAL PLANS AND DETAILS.

400. PLYWOOD AND OSB PANELS: APA PLYWOOD & OSB--ESR-2586 HTTP://WWW.ICC-ES.ORG

GLU-LAM BEAMS-- ESR-1940 PACIFIC WOOD TECH - ESR 2909

SIMPSON CONNECTORS--ICC-ES ESR #S 1161, 1622, 1866, 2105, 2203, 2236, 2320.

IAPMO ER-112, 130, 143, 192, 262 USP LUMBER CONNECTORS--ICC-ES ESR #S 1178, 1280, 1575, 1702, 1781, 1881, 1970, 2104, 2685, 1831, 1465, 2761, 2787, JAPMO ER-200 QUICK DRIVE WOOD SCREWS--ICC-ES ESR-1472

403. ADHESIVES & ANCHORS: SIMPSON EPOXY-TIE HIGH STRENGTH EPOXY (SET-XP)--ICC-ES ESR-1772, 2508.

SIMPSON SHOT PINS ICC-ES ESR-2138 HILTI X-DN, X-ZF, X-CF SHOT PINS--ICC-ES ER-1663, 1752, 2269

5. NAILING & FASTENING

- 8D 2 $\frac{1}{2}$ " X 0.135 WIRE BARBED NAILS BY CUTLER OR EQUAL.
- 504. SHEAR PANELS WHERE 8D COMMON NAILS ARE SPECIFIED: 10D 2 ½ " X 0.148" WIRE BARBED NAILS BY CUTLER OR EQUAL

SIZE OF NAIL	STANDARD LENGTH	WIRE GAUGE	SIZE (INCHES)	PENETRATION REQUIRED	RISK CATEGORY SEISMIC IMPORTANCE FACTOR	1
OX NA	JLS				- Ss S1	1.872 0.658
6D	2"	12	0.099	1"	BASIC SEISMIC FORCE RESISTING SYSTEI	
8D 10D	2 " 3"	11 10	0.113 0.128	1 " 1 "	METHOD: EQUIVALENT LATERAL FORCE P	ROCEDURE SEE STRUCTURAL
12D 16D	3" 3 "	10 10	0.128 0.135	1 " 1 "	CALCULATIONS FOR SD1, SDS, DESIGN BA	ASE SHEAR, US, & R FACTURS.
16D SINKE	ER 3"	9	0.148	1 "	702. WIND DESIGN CRITERIA : WIND SPEED (V-ult)	124 mph
OMMC	N NAIL	S			RISK CATEGORY	II
6D	2"	11	0.113	1"	EXPOSURE	С

4-16d Box, 3-16d Com, 4-10d Box, 4-3"X0.131, 4-3" 14ga. STAPLES LEDGER SUPPORTING JOISTS/RAFTERS JOIST TO BAND OR RIM JOIST, END NAIL 3-16d Com, 4-10d Box, 4-3"X0.131, 4-3" 14ga. STAPLES BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS EACH END. T.N. 2-8d Com, 2-10d box, 2-3" x 0.131" nails, 2-3" 14 gage staples WOOD STRUCT. PANELS, SUBFLOOR, ROOF AND INTERIOR WALL SHTNG TO FRMG AND EDGES INTERMEDIATE PARTICLEBOARD WALL SHEATHING TO FRAMING (IN) SUPPORTS (IN) 16d Com or deformed; or $2\frac{3}{8}$ "x.113" nail (subfloor and wall) 8d Com or deformed (roof) or $2\frac{3}{8}$ " x.113" nail (roof) FOOTNOTES: $1\frac{3}{4}$ " 16 Ga Staple, $\frac{7}{16}$ " crown (subfloor and wall) $2\frac{3}{8}$ " x.113"x.266" head nail (roof) a. Nails spaced at 6 inches at intermediate supports where spans are 48 inches or more. For nailing of wood structural panel and $1\frac{3}{4}$ " 16 Ga Staple, $\frac{7}{16}$ " crown (roof) particleboard diaphragms and shear walls, refer to Section 2305. Nails 8d Com or deformed (subfloor and wall) for wall sheathing are permitted to be common, box or casing. $\frac{19}{32}$ " $\frac{3}{4}$ " 8d Com or deformed (roof) or $2\frac{3}{8}$ " x.113" nail (roof) b. Spacing shall be 6 inches on center on the edges and 12 inches on center at intermediate supports for nonstructural applications. Panel $2\frac{3}{8}$ " x.113"x.266" head nail, 2"16 Gage staple, $\frac{7}{16}$ " crown supports at 16 inches (20 inches if strength axis in the long direction of the panel, unless otherwise marked). $\frac{7}{8}$ "- $1\frac{1}{4}$ " | 10d Com or (3"x0.148"); or deformed ($2\frac{1}{2}$ x.131"x.281 head) c. Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule and the ceiling joist is fastened to the top plate in accordance with this schedule, the number of toenails in the OTHER EXTERIOR WALL SHEATHING (FIBERBOARD) rafter shall be permitted to be reduced by one nail. $1\frac{1}{2}$ " x0.120", galvanized roofing nail ($\frac{7}{16}$ " head dia) or $1\frac{1}{4}$ " 16 Ga Staple w/ $\frac{7}{16}$ " or 1" crown d. RSRS-01 is a Roof Sheathing Ring Shank nail meeting the specifications in ASTM F1667. e. Tabulated fastener requirements apply where the ultimate design $\left|\frac{7}{4}\right|$ x0.120", galvanized roofing nail $\left(\frac{7}{16}\right|$ head dia) or $1\frac{1}{2}$ 16 Ga Staple w/ $\frac{7}{16}$ or 1" crown wind speed is less than 140 mph. For wood structural panel roof sheathing attached to gable-end roof framing and to intermediate NOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING supports within 48 inches of roof edges and ridges, nails shall be spaced at 4 inches on center where the ultimate design wind speed is $\frac{3}{4}$ " & LESS |8d COMMON (2 $\frac{1}{2}$ "x0.131"); or deformed (2"x0.113"); or deformed (2"x0.120") greater than 130 mph in Exposure B or greater than 110 mph in 12 Exposure C. Spacing exceeding 6 inches on center at intermediate 8d COMMON ($2\frac{1}{2}$ "x0.131"); or deformed (2"x0.113"); or deformed (2"x0.120") supports shall be permitted where the fastening is designed per the 12 10d COMMON (3"x0.148"); or deformed ($2\frac{1}{2}$ "x0.131"); or deformed ($2\frac{1}{2}$ "x0.120") AWC NDS. e. Fastening is only permitted where the ultimate design wind speed is PANEL SIDING TO FRAMING less than or equal to 110 mph g. Nails and staples are carbon steel meeting the specifications of $\frac{1}{2}$ " & LESS | 6d corrosion-resistant siding ($1\frac{7}{8}$ "x.106"); or 6d corrosion-resistant (2"x.099") ASTM F1667. Connections using nails and staples of other materials, 8d corrosion-resistant siding (2\frac{3}{8}"x0.128"); or 8d corrosion-resistant casing (2\frac{1}{9}"x0.113") such as stainless steel, shall be designed by acceptable engineering practice or approved under Section 104.11.

6d casing (2"x0.099"); or 6d finish (2"x.092") - (Panel supports at 24 inches) 7. DESIGN CRITERIA 8. STATEMENT OF SPECIAL INSPECTIONS

6

12

701. SEISMIC DESIGN CRITERIA: SOIL BEARING VALUE 1,500 psf SITE CLASS D (Default) SEISMIC DESIGN CATEGORY

700. BUILDING CODE: 2022 CALIFORNIA BUILDING CODE AND 2022 CALIFORNIA

4d casing $(1\frac{1}{2}$ "x0.080"); or 4d finish $(1\frac{1}{2}$ "x0.072")

703. DESIGN LOADING (WORST CASE LOADING):

VAULTED ROOF DL 27 psf ROOF w/ CEILING DL 23 psf I ROOF LL 20 psf PORCH DL 35 psf I PORCH LL 20 psf TRELLIS DL 6 psf 1 TRELLIS LL 10 psf

800. RETROFIT ANCHOR BOLTS FOR MISPLACED HOLDOWNS WITH ALL-THREAD ROD AND SIMPSON SET-XP EPOXY REQUIRE SPECIAL INSPECTION. (NO SPECIAL INSPECTION IS REQUIRED FOR RETROFIT ANCHOR BOLTS OR TITEN HD's WITHOUT A HOLDOWN ATTACHED.)

801. PER CBC 1705.3 SPECIAL INSPECTION IS NOT REQUIRED FOR NON-STRUCTURAL SLABS ON GRADE NOR FOR CONCRETE FOOTINGS THAT SUPPORT 3 STORIES ABOVE GRADE OR LESS.

802. PER CBC 1705.11 SPECIAL INSPECTION IS NOT REQUIRED FOR SEISMIC COMPONENTS FOR DETTACHED ONE- AND TWO-FAMILY DWELLINGS NOT EXCEEDING 2 STORIES ABOVE GRADE.

9. SOILS REPORT

A SOILS REPORT IS REQUIRED PER ORANGE COUNTY REQUIREMENTS FOR ALL **NEW STRUCTURE EXEPT:** 1) DETACHED ACCESSORY STRUCTURE OR SINGLE FAMILY DWELLING LARGER THAN 500 SQUARE FEET BUT NOT MORE THAN 1,200 SQUARE FEET LOCATED IN LIQUEFACTION AREA SHALL REQUIRE 4' OVEREXCAVATION. 2) ONE STORY DETACHED ACCESSORY STRUCTURE UP TO 1,200 SQUARE FEET

LOCATED IN NON-LIQUEFACTION AREA. ONE STORY DETACHED ACCESSORY

IN-LIEU OF A SOILS REPORT FOR PERMIT READY ADU PROGRAM, A CONSERVATIVE VALUE FOR THE SOIL BEARING ALLOWABLE OF 1500 PSF HAS BEEN USED IN DESIGN OF THE BUILDING

STRUCTURE UP TO 500 SQUARE FEET LOCATED IN LIQUEFACTION AREA.

2-8d Com, 2-3" x 0.131" nails, 2-3" 14 gage staples

2-16d Com, 3-3" x 0.131" nails, 3-3" 14 gage staples

16d Com, 3"x.131" nails, 3"x14 gage staples @ 6" o.c

16d Box, 3" x 0.131" nails, 3" 14 gage staples

2-16d Com. 3-16d Box,4-3"x.131" nails,4-3" 14 gage staples

2-16d Com, 3-10d box, 3-3" x 0.131" nails, 3-3" 14 gage staples

2-20d Com, 3-10d Box, 3-3"x0.131" nails, 3-3" 14 gage staples

3-8d Box, 2-1.75" 16 Gage staples, 2-8d Com, 2-10d Box

4-8d box, 4-1.75" 16 Gage staples, 3-8d Com, 3-10d Box

2-1.75" Gage Staples, 2-8d Com, 3-10d Box

10d Box, 3"x0.131" nails, 3" 14 gage staples

3-16d Box, 2-16d Com

3-16d Box, 2-16d Com

4-8d Box, 4x10d Box, 4-8d Com, 3-16d Box, 4-3"x0.131" nails, 4-3" 14 gage staples

8d Box @ 4" o.c. TN OR 8d Com, 10d Box, 3" x 0.131" nails, 3" 14 gage staples @ 6" o.c. TN

3-16d Box, 2-16d Com, 3-10d Box, 3-3"x0.131" nails, 3-3" 14 gage staples

3-8d Box, 2-8d Com, 2-10d Box, 2-3" x 0.131" nails, 2-3" 14 gage staples

4-8d box, 3-8d Com, 3-10d Box, 3-3" x 0.131" nails, 3-3" 14 gage staples

DOCUMENTS, THE RECIPIENT ACKNOWLEDGES, ACCEPTS AND VOLUNTARILY AFFIRMS THE

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County of Orange Pre-Approved **ADU Program**

OWNER NAME:

ADDRESS:

LEGAL DESCRIPTION:

revisions

description

Structural Notes & Specifications

April 03, 2024

project no.

DESIGN PATH STUDIO drawn by

sheet no.

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APN: LEGAL DESCRIPTION:

revisions

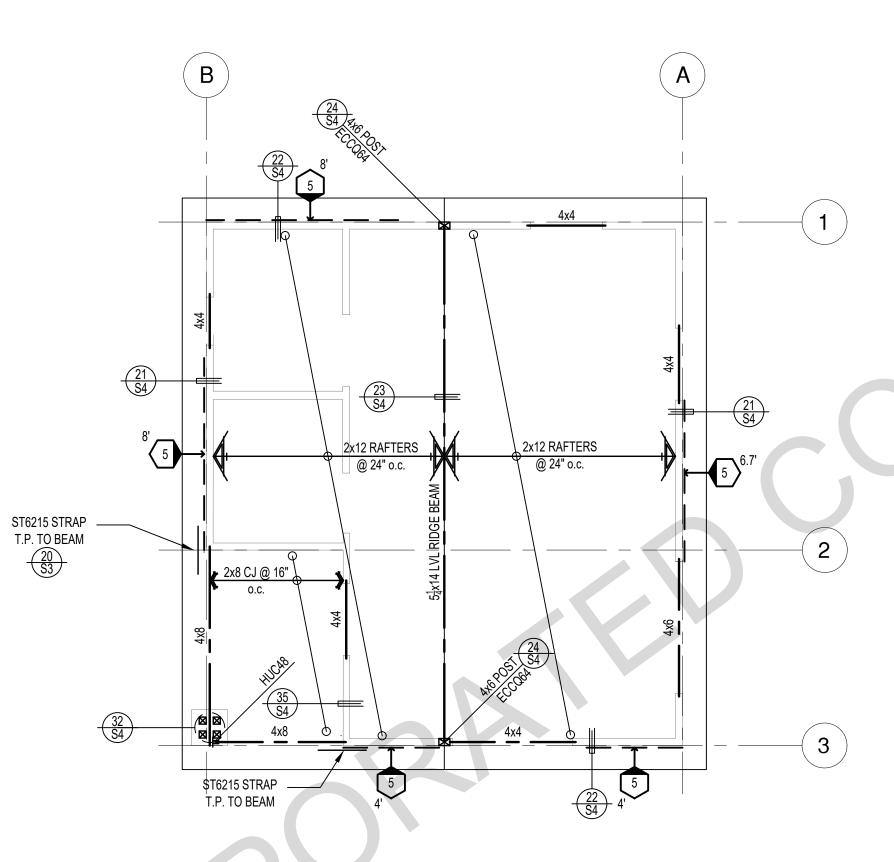
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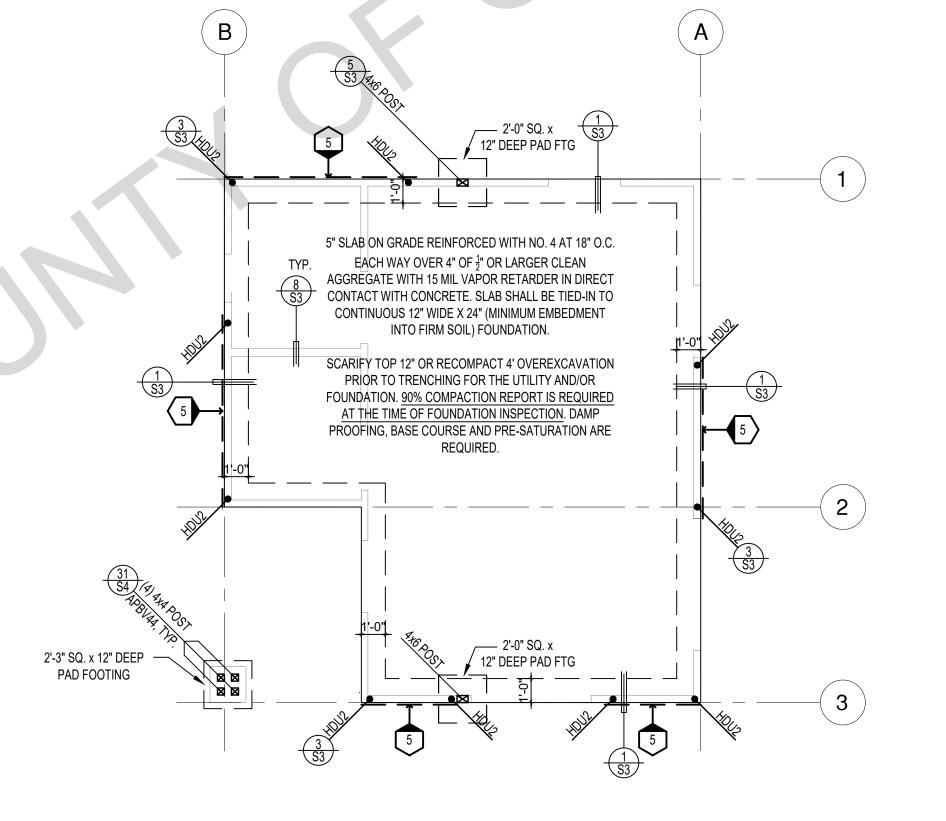
Craftsman Foundation & Framing Plan

date April 03, 2024

project no.

DESIGN PATH STUDIO drawn by







FOUNDATION PLAN 1/4"=1'-0" CRAFTSMAN

LEGEND

PER SCHEDULE

SHEARWALL & A.B. SPACING

BOLT TYPE HOLDOWN

BEARING OR EXTENT

BEARING OR EXTENT

OF RAFTERS

=── - HANGER TO BEAM/LEDGER

SHEAR WALL SCHEDULE (ASD VALUES)

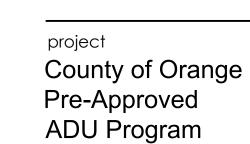
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	4	5	6	7	8	9
SHEARWALL DESCRIPTION (See footnotes 1& 4)	3/8" ply. C-D or C-C sheathing, (1) side w/ 8d @ 6" o/c edge, 12" o/c field, blocked (See footnote 3)	3/8" ply. C-D or C-C sheathing, (1) side w/ 8d @ 4½" o/c edge, 12" o/c field, blocked (See footnote 3)	3/8" ply. C-D or C-C sheathing, (1) side w/ 8d @ 3" o/c edge, 12" o/c field 3x abutting panel studs blocked (See footnote 3 & 4)	3/8" rated STRUCT 1 panel, (1) side w/ 8d @ 3" o/c edge, 12" o/c field 3x abutting panel studs blocked (See footnote 3 & 4)	15/ ₃₂ " rated STRUCT 1 panel, (1) side w/ 10d @ 3" o/c edge, 12" o/c field 3x abutting panel studs blocked (See footnote 3, 4, & 5)	15/32" rated STRUCT 1 panel, (1) side w/ 10d @ 2" o/c edge, 12" o/c field 3x abutting panel studs blocked (See footnote 3, 4, & 5)
SHEAR VALUE (PLF)	260*	350*	490*	550*	665*	870*
ANCHOR BOLT SPACING	½" @ 48" or ½" @ 32"	5%" @ 32" or ½" @ 24"	½" @ 24" or ½" @ 16"	½" @ 24" or ½" @ 16"	½" @ 16" or ½" @ 24"	½" @ 12" or ½" @ 8"
16d (0.148") SILL NAILING	6"	4½"	3½"	3"	1/4"x41/2" SDS screws @ 8"	1/4"x41/2" SDS screws @ 8"
SPACING OF A35/LTP4 FRAMING TO TOP PLATE	32" O.C.	18" O.C.	12" O.C.	12" O.C.	8" O.C.	8" O.C.



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OWNER NAME: ADDRESS:

APN:

LEGAL DESCRIPTION:

Ranch
Foundation &
Framing
Plan

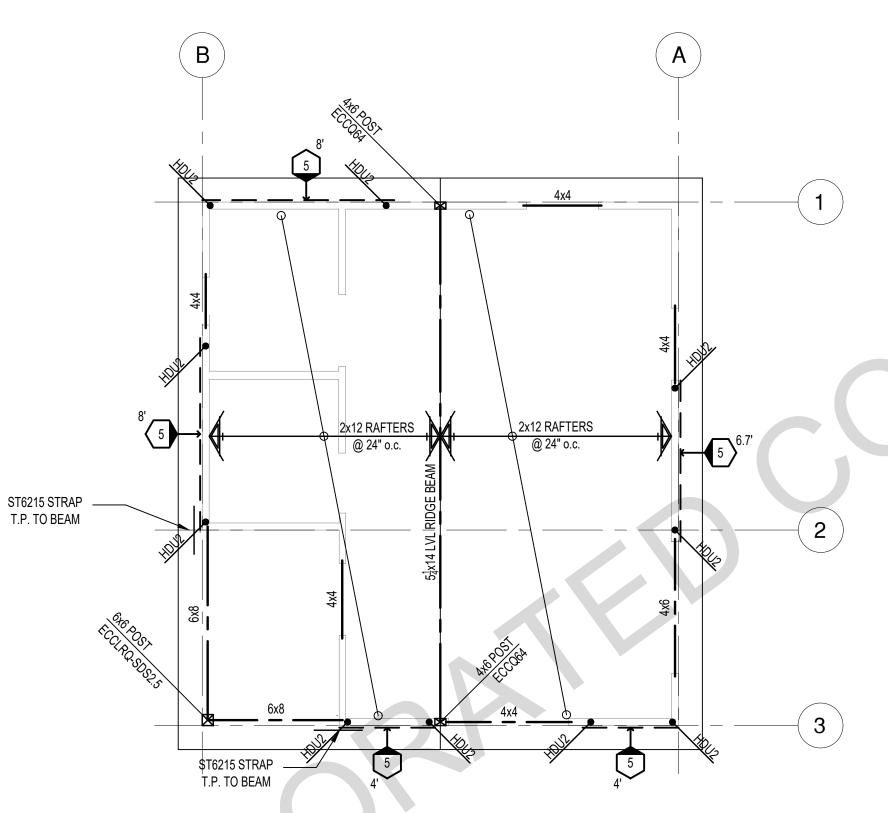
date April 03, 2024

project no.

drawn by DESIGN PATH STUDIO

sheet no

S2







12" DEEP PAD FTG

— 2'-0" SQ. x

5" SLAB ON GRADE REINFORCED WITH NO. 4 AT 18" O.C.

EACH WAY OVER 4" OF 1" OR LARGER CLEAN

AGGREGATE WITH 15 MIL VAPOR RETARDER IN DIRECT

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PROOFING, BASE COURSE AND PRE-SATURATION ARE

12" DEEP PAD FTG

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LEGEND

PER SCHEDULE

BOLT TYPE HOLDOWN

BEARING OR EXTENT

OF RAFTERS

- — HANGER TO BEAM/LEDGER

BEARING OR EXTENT

SHEARWALL & A.B. SPACING

SHEAR WALL SCHEDULE (ASD VALUES)

FOUNDATION NOTES

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SHEARWALL DESCRIPTION (See footnotes 1& 4)	3/8" ply. C-D or C-C sheathing, (1) side w/ 8d @ 6" o/c edge, 12" o/c field, blocked (See footnote 3)	$\frac{3}{8}$ " ply. C-D or C-C sheathing, (1) side w/ 8d @ $\frac{4}{2}$ " o/c edge, 12" o/c field, blocked (See footnote 3)	3/8" ply. C-D or C-C sheathing, (1) side w/ 8d @ 3" o/c edge, 12" o/c field 3x abutting panel studs blocked (See footnote 3 & 4)	3/8" rated STRUCT 1 panel, (1) side w/ 8d @ 3" o/c edge, 12" o/c field 3x abutting panel studs blocked (See footnote 3 & 4)	$^{15}\!\!/_{32}$ " rated STRUCT 1 panel, (1) side w/ 10d @ 3" o/c edge, 12" o/c field 3x abutting panel studs blocked (See footnote 3, 4, & 5)	15/ ₃₂ " rated STRUCT 1 panel, (1) side w/ 10d @ 2" o/c edge, 12" o/c field 3x abutting panel studs blocked (See footnote 3, 4, & 5)
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SPANISH

LEGEND

PER SCHEDULE

BOLT TYPE HOLDOWN

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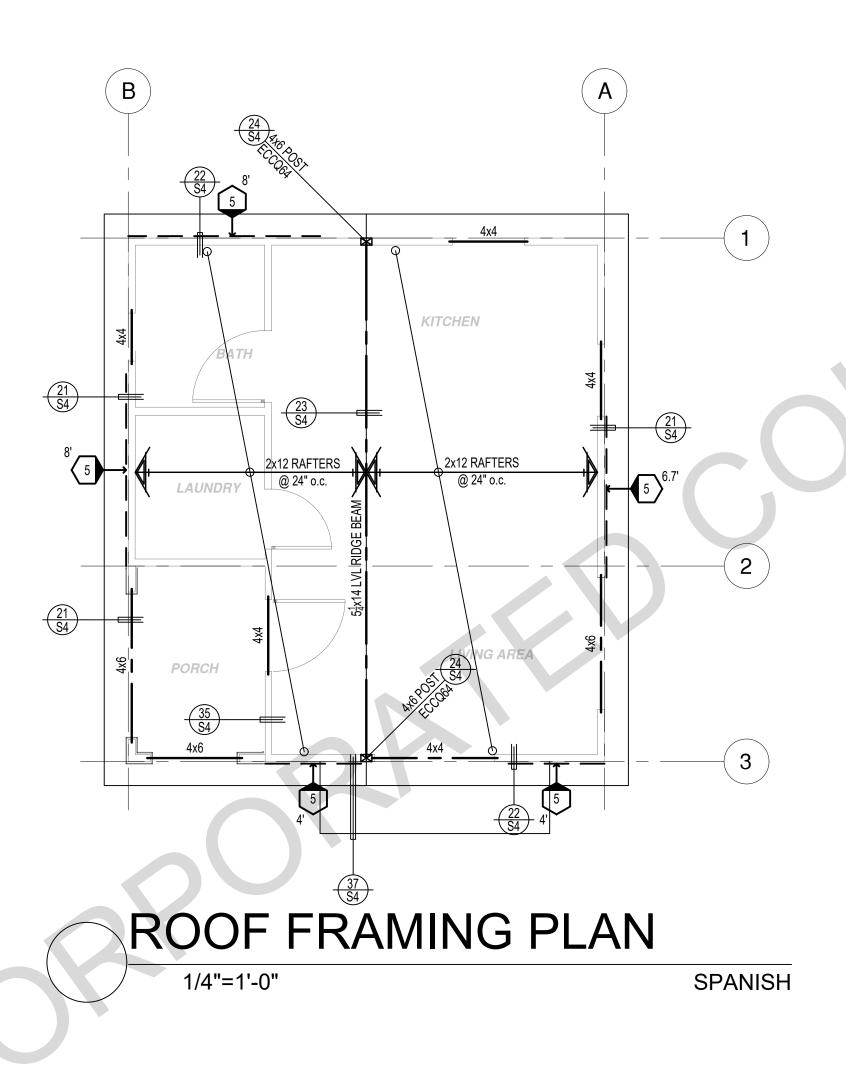
revisions

description Studio Foundation & Framing

Plan date April 03, 2024

project no.

DESIGN PATH STUDIO drawn by



 $\begin{bmatrix} \mathsf{B} \end{bmatrix}$

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12" DEEP PAD FTG

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ROOF FRAMING PLAN

1/4"=1'-0"

SHEAR WALL SCHEDULE (ASD VALUES)

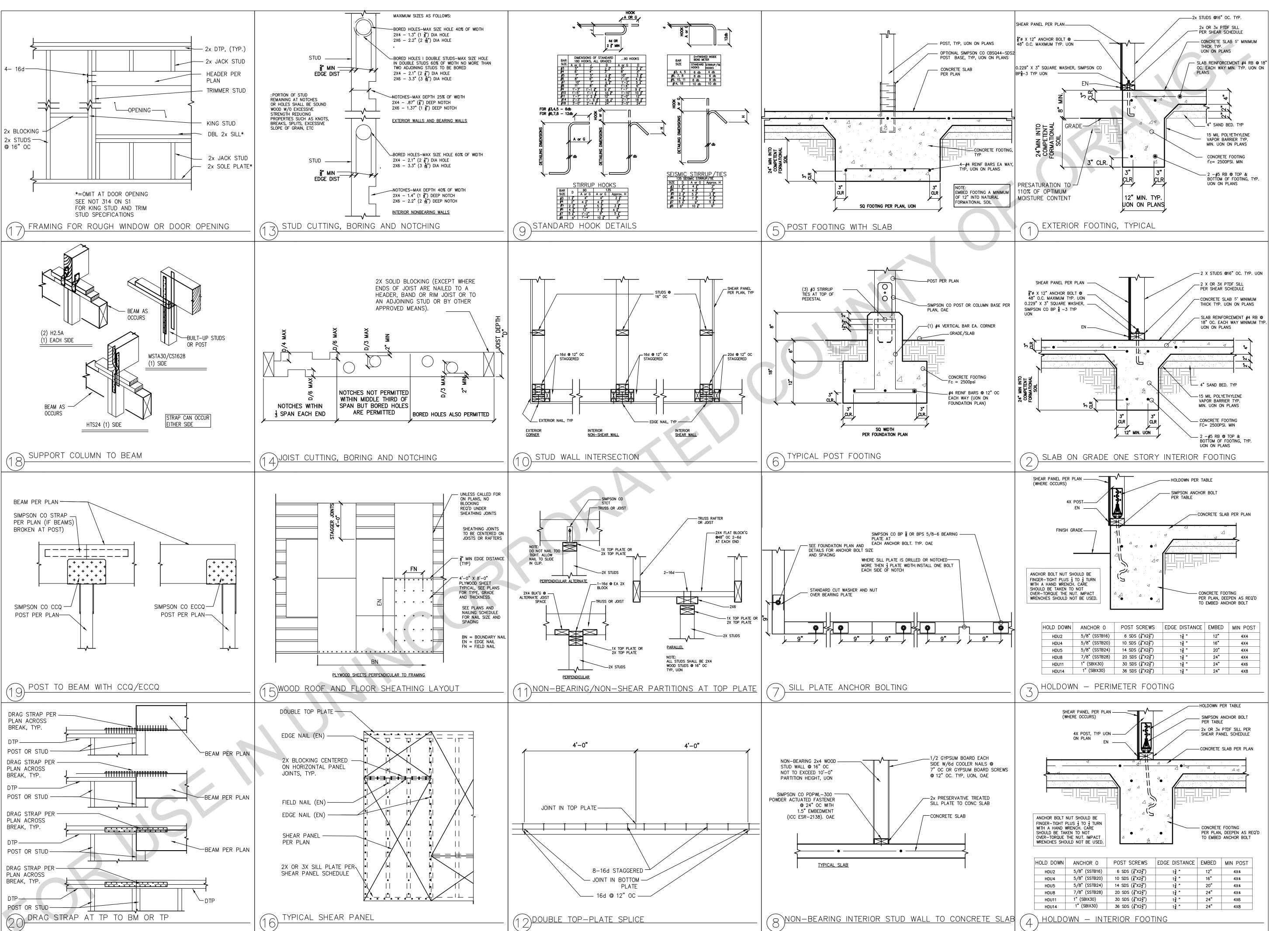
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Project
County of Orange
Pre-Approved
ADU Program

OWNER NAME: ADDRESS: APN:

LEGAL DESCRIPTION:

Structural Details

date April 03, 2024

project no.

drawn by DESIGN PATH STUDIO

^{t no.} **S4**

architecture + planning

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 THE USE OF THIS INFORMATION IS
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FOLLOWING CONDITIONS:

DOCUMENTS BY THE RECIPIENT OR BY OTHERS WILL BE AT THE RECIPIENT'S RISK AND FULL LEGAL RESPONSIBILITY. FURTHERMORE, THE RECIPIENT WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, DEFEND, INDEMNIFY AND HOLD DESIGN PATH STUDIO AND ITS ARCHITECTS HARMLESS FROM ANY AND ALL CLAIMS, SUITS, LIABILITY, DEMANDS, JUDGMENTS, OR COSTS ARISING OUT OF OR RESULTING THERE FROM ANY USE OF THESE CONSTRUCTION DOCUMENTS FOR OR ON ACCOUNT OF ANY INJURY, DEATH, DAMAGE OR LOSS TO PERSONS OR PROPERTY, DIRECT OR CONSEQUENTIAL DAMAGES IN ANY AMOUNT. THIS INDEMNITY DOES NOT APPLY TO THE SOLE NEGLIGENCE OR WILLFUL MISCONDUCT OF DESIGN PATH STUDIO OR ITS ARCHITECTS. 3. THE DESIGNS REPRESENTED BY THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION. 4. IF THE RECIPIENT DOES NOT AGREE WITH THE ABOVE CONDITIONS, DO NOT PROCEED WITH CONSTRUCTION OF AN ADU OR OTHER

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project
County of Orange
Pre-Approved
ADU Program

OWNER NAME: ADDRESS:

> APN: LEGAL DESCRIPTION:

revisions

description
Structural
Details

date April 03, 2024

project no.

drawn by DESIGN PATH STUDIO

S5

CF1R-PRF-01E

(Page 2 of 12)

Total² EDR

(EDR2total)

2.6

2.3

2.5

2.4

Compliance Margins

Efficiency¹ EDR

(EDR2efficiency)

4.9

4.3

4.8

HERS Provider: CalCERTS inc.

Report Generated: 2024-03-11 10:42:16

CF1R-PRF-01E

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6.58

15.43

6.58

16.18

6.55

16.04

HERS Provider: CalCERTS inc.

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Bug Screen

SHGC Source Exterior Shading

NFRC

Calculation Date/Time: 2024-03-11T10:41:29-07:00

(EDR1)

1.3

1.4

1.4

1.3

Input File Name: 0 Studio.ribd22x

(EDR2total)

29.1

26.5

26.8

26.6

Registration Date/Time: 2024-03-11 11:23:52

Calculation Date/Time: 2024-03-11T10:41:29-07:00

2.36

2.35

2.35

Input File Name: 0 Studio.ribd22x

Report Version: 2022.0.000

Standard Design (kBtu/ft² - yr) Proposed Design (kBtu/ft² - yr) Compliance Margin (kBtu/ft² - yr)

33.52

12.29

12.39

12.28

33.53

12.3

Registration Date/Time: 2024-03-11 11:23:52

Input File Name: 0 Studio.ribd22x

Calculation Date/Time: 2024-03-11T10:41:29-07:00

0.3

NFRC

0.23

Report Version: 2022.0.000

05 06 07 08 09 10

Schema Version: rev 20220901

Schema Version: rev 20220901

Proposed Design

RESULT³: PASS

Energy Design Ratings

Efficiency¹ EDR

(EDR2efficiency)

40.8

35.9

36.5

36

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project County of Orange Pre-Approved **ADU Program**

OWNER NAME:

ADDRESS:

APN: LEGAL DESCRIPTION:

revisions

description Example Energy Calculations

April 03, 2024

project no.

DESIGN PATH STUDIO drawn by

BUILDING ENERGY ANALYSIS REPORT CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Residential Building Calculation Description: Title 24 Analysis GENERAL INFORMATION PROJECT: Project Name Residential Building Studio - Pre Approved ADU Run Title Title 24 Analysis Orange County, CA Project Location Project Designer: Design Path Studio Building Type | Single family Encinitas, CA 92024 Project Scope Newly Constructed Existing Cond. Floor Area (ft²) n/a Total Cond. Floor Area (ft²) 384.64 Report Prepared by: Design Path Studio COMPLIANCE RESULTS 02 This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider. 03 This building incorporates one or more Special Features shown below 3/11/2024

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-9.4

13.32

0

7.46

11.38

-9.09

11.57

0

7.49

9.97

Margin (EDR1) Margin (EDR2)

-1,25

1.07

0.86

0.68

-1.2

1.05

0.86

0.71

HERS Provider: CalCERTS inc.

Registration Number: 224-P010031296A-000-000-0000000-0000 Registration Date/Time: 2024-03-11 11:23:52 HERS Provider: CalCERTS inc. Report Version: 2022.0.000 Report Generated: 2024-03-11 10:42:16 CA Building Energy Efficiency Standards - 2022 Residential Compliance Schema Version: rev 20220901

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

(Page 4 of 12) Calculation Date/Time: 2024-03-11T10:41:29-07:00 Project Name: Residential Building Input File Name: 0 Studio.ribd22x Calculation Description: Title 24 Analysis ENERGY USE SUMMARY Standard Design TDV Energy Proposed Design Source Proposed Design TDV Energy Compliance Standard Design Source Compliance Energy Use Energy (EDR1) (kBtu/ft² -yr) (EDR2) (kTDV/ft² -yr) Energy (EDR1) (kBtu/ft²-yr) (EDR2) (kTDV/ft² -yr) Margin (EDR1) Margin (EDR2) Space Heating 0.28 8.64 -1.11

Space Cooling	2.29	47.17	1.29	35.23	1	11.94
IAQ Ventilation	0.53	5.6	0.53	5.6	0	0
Water Heating	3.91	41.87	3.05	34.34	0.86	7.53
Self Utilization/Flexibility Credit	A			0		0
South Facing Efficiency Compliance Total	6.77	94.92	6.02	83.81	0.75	11.11
Space Heating	0.04	0.28	1.2	9.02	-1.16	-8.74
Space Cooling	2.29	H4727 R S	PREVI	35.03	0.99	12.14
IAQ Ventilation	0.53	5.6	0.53	5.6	0	0
Water Heating	3.91	41.87	3.05	34.36	0.86	7.51
Self Utilization/Flexibility Credit				0		0
West Facing Efficiency Compliance Total	6.77	94.92	6.08	84.01	0.69	10.91

Registration Number:	224-P010031296A-000-000-0000000-0000	Registration Date/Time:	2024-03-11 11:23:52	HERS Provider:	CalCERT\$ inc.	
CA Building Energy Effici	ency Standards - 2022 Residential Compliance	Report Version: 2022.0.000 Schema Version: rev 202209		Report Generated	: 2024-03-11	10:42:

CERTIFICATE OF Project Name: I Calculation Des	Residential Bu	_	PERFORMAN	ICE COMPLI	ANCE ME	THOD		CF1R-PRF-01E (Page 7 of 12)							
ZONE INFORMAT	ION													-	
01		02		03		04	1			05		06			07
Zone Nan	ne Zone Type HVAC System N		System Nan	ne z	one Floor	Area (ft	2)	Avg. Cei	ling H	eight	Water Heating	System 1		Status	
Zone 1	Zone 1 Conditioned D		Duct	less Minisplit	1	384	.64			8		DHW Sy	s 1		New
OPAQUE SURFAC	ES					+									
01		02	0	3	\top	04		05	\top		06		07	Т	08
Name	Name Zone		Constr	uction	Az	imuth	0	rientation	,	Gross	Area (ft ²)		and Door a (ft2)		Tilt (deg)
Front Wall		Zone 1 R-1		Wall	11		1	Front		175			24		90
Left Wall		Zone 1	R-13	R-13 Wall		90 L		Left	195			9		90	
Rear Wall		Zone 1	R-13	Wall	180		1	Back		175			23		90
Right Wall		Zone 1	R-13	Wall		270		Right	h /		195		15		90
OPAQUE SURFAC	ES CATUEDDA	I CEILINGS								H				-	
01	02	03	04		05	0	6	0	7		08	09	1	n	11
Name	Zone	Construction	Azimut	h Orie	entation	Area	R	Skyligh (ft	t Area	Roo	f Rise (x in 12)	-	Roof En	-	Cool Roof
Roof	Zone 1	R-30 Roof No Attic	0		ront	39	93	C)		4	0.1	0.4	85	No
FENESTRATION /	GLAZING														
01	02	03	04	05	06	07	08	09	10)	11	12	13	:	14
Name	Туре	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-fac	ctor	U-facto Source	I SHGC	SHGC Sc	ource	Exterior Shading
Window	Window	Front Wall	Front	0			1	4	0.:	3	NFRC	0.23	NFR	С	Bug Screen
Window 2	Window	Left Wall	Left	90	İ		1	9	0.:	3	NFRC	0.23	NFR	С	Bug Screen
Window 3	Window	Rear Wall	Back	180	1		1	12	0.3	2	NFRC	0.23	NFR	r	Bug Screen

01	02	03	04		05	0	6	0		08	09	10	Т
Name	Zone	Construction		HE	ntation	P	(ft²)	Skyligh (ft	t Area F	oof Rise (x in 12)	Roof Reflectance	Roof Emittance	Co
Roof	Zone 1	R-30 Roof No Attic	0	Fi	ront	39	93	0		4	0.1	0.85	
	Lanc namena an												
FENESTRATION /	GLAZING												
01	02	03	04	05	06	07	08	09	10	11	12	13	
Name	Туре	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Source	Exteri
Window	Window	Front Wall	Front	0			1	4	0.3	NFRC	0.23	NFRC	Bu
	1		1 -6-	90			1	9	0.3	NFRC	0.23	NFRC	Bu
Window 2	Window	Left Wall	Left	30									

CA Building Energ	gy Efficiency St	andards - 2022 Residential Con	Report Version: 2 Schema Version:				Report Generated: 2024-03-11 10:42:1						
CERTIFICATE OF	COMPLIANC	- RESIDENTIAL PERFORMA	NCE COMPLIANCE	METHOD						c	F1R-PRF-0		
Project Name: R	esidential Bu	ilding		Calcula	ion Dat	e/Time: 2024	-03-11T	10:41:29-07:0	00		Page 6 of 1		
Calculation Desc	ription: Title	24 Analysis		Input Fi	le Name	e: 0 Studio.rib	d22x						
REQUIRED PV SYS	TEMS												
01	02	03	04	05	06	07	08	09	10	11	12		
DC System Size (kWdc)	Excepti	on Module Type	Array Type	Power Electronics	CFI	Azîmuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Annual Solar Acce (%)			
1.46	NA	Standard (14-17%)	Fixed	none	true	150-270	n/a	n/a	<=7:12	96	98		
REQUIRED SPECIA	L FEATURES												
		nust be installed as condition for	or meeting the modele	ed energy performance	for this	computer analy	vsis_						
		np compliance option (verifica					,,,,,						
		cy Alliance (NEEA) rated heat p					talled						
HERS FEATURE SU													
		e features that must be field-v. tables below. Registered CF2R					eled ener	gy performanc	e for this com	iputer analysis	. Additional		
	lation installat				2								
Kitchen ran	uality ventilati ge hood	on					e d						
	rigerant Charg		MEN				5 M						
	abitable room	s (SC3.1.4.1.7) heating capacity											
 Wall-mount 	ted thermostat	in zones greater than 150 ft2											
Ductless inc	door units loca	ted entirely in conditioned spa	ce (SC3.1.4.1.8)										
BUILDING - FEATU	IDES INICODMA	TION											
01	TRES II TO CHILIF	02	03	04		05			06		07		
Project N	lame	Conditioned Floor Area (ft²)	Number of Dwellin Units		ooms	Number of 2	Zones	Number o	f Ventilation g Systems		er of Water		
Residential I	Building	384.64	1	0		1			0		1		
			1							_1			
Registration Num	ber: 224-P0	10031296A-000-000-0000000-0000)	Registration Date	/Time:	2024-03-11 11	:23:52	HERS	Provider:	CalCERTS inc.			
CA Building Energ	gy Efficiency St	andards - 2022 Residential Con	npliance	Report Version: 2 Schema Version:				Repo	rt Generated:	2024-03-11	10:42:16		

This program developed by EnergySoft, LLC – www.energysoft.com.

Calculation Date/Time: 2024-03-11T10:41:29-07:00

Proposed Design TDV Energy Compliance

(EDR2) (kTDV/ft² -yr)

34.41

9.37

34.38

Input File Name: 0 Studio.ribd22x

Proposed Design Source

Energy (EDR1) (kBtu/ft² -yr)

1.22

3.05

1.24

3.05

Registration Date/Time: 2024-03-11 11:23:52

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Standard Design Source

Energy (EDR1) (kBtu/ft² -yr)

2.29

3.91

6.77

0.53

3.91

Registration Number: 224-P010031296A-000-000-0000000-0000

0.04

Standard Design TDV Energy

(EDR2) (kTDV/ft² -yr)

0.28

47.17

41.87

0.28

47.17

41.87

Project Name: Residential Building

ENERGY USE SUMMARY

Energy Use

Space Heating

Space Cooling

Water Heating

Self

Credit

North Facing

Total

Space Heating

Space Cooling

IAQ Ventilation

Water Heating

Self Utilization/Flexibilit

Credit

East Facing Efficiency

Compliance Total

Efficiency Complia

Calculation Description: Title 24 Analysis

CA Building Energy Efficiency Standards - 2022 Residential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220901 Report Generated: 2024-03-11 10:42:16

CF1R-PRF-01E

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CF1R-PRF-01E

Calculation Date/Time: 2024-03-11T10:41:29-07:00

Standards Version 2022

Number of Dwelling Units

Fenestration Average U-factor 0.3

ADU Conditioned Floor Area n/a

Number of Bedrooms

Number of Stories

Glazing Percentage (%) 13.26%

Input File Name: 0 Studio.ribd22x

Registration Number: 224-P010031296A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

(EDR1)

37

35.6

fficiency EDR includes improvements like a better building envelope and more efficient equipment

Proposed PV Capacity Scaling: North (1.46 kWdc) East (1.46 kWdc) South (1.46 kWdc) West (1.46 kWdc)

35.6

²Total EDR includes efficiency and demand response measures such as photovoltaic (PV) system and batteries

³Building complies when source energy, efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

Project Name: Residential Building

ENERGY DESIGN RATINGS

Calculation Description: Title 24 Analysis

Standard Design

North Facing

East Facing

South Facing

West Facing

Standard Design PV Capacity: 1.46 kWdc

Registration Number: 224-P010031296A-000-000-0000000-0000

Project Name: Residential Building

Gross EUI¹

Net EUI²

Gross EUI¹

Gross EUI¹

Net EUI²

Project Name: Residential Building Calculation Description: Title 24 Analysis

Window

FENESTRATION / GLAZING

Window 4

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.

Registration Number: 224-P010031296A-000-000-0000000-0000

CA Building Energy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Rear Wall

Right Wall

ENERGY USE INTENSITY

North Facing

South Facing

West Facing

Calculation Description: Title 24 Analysis

CA Building Energy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

35.88

14.65

35.88

14.65

Registration Date/Time: 2024-03-11 11:23:52 Report Version: 2022.0.000 Schema Version: rev 20220901

HERS Provider: CalCERTS inc. Report Generated: 2024-03-11 10:42:16

OPAQUE DOORS Side of Building Name Area (ft²) U-factor Front Wall SLAB FLOORS 05 06 Edge Insul. R-value Edge Insul. R-value Perimeter (ft) Zone Carpeted Fraction Heated and Depth and Depth Slab-on-Grade Zone 1 393 0.1 80% No none OPAQUE SURFACE CONSTRUCTIONS 06 07 05 08 Interior / Exterior

Total Cavity Surface Type Assembly Layers Construction Name Construction Typ Continuous R-value R-value Inside Finish: Gypsum Board R-13 Wall Exterior Walls Wood Framed Wall 2x4 @ 16 in. O. C. R-13 None / None Cavity / Frame: R-13 / 2x4 Exterior Finish: 3 Coat Stucco

CF1R-PRF-01E

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Running

Certified Indoor Fan not

Fan Continuously

non-continuous

08

HERS Verification

Yes

HERS Provider: CalCERTS inc.

Report Generated: 2024-03-11 10:42:16

ADU Program

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OWNER NAME: **ADDRESS:**

APN:

LEGAL DESCRIPTION:

revisions

description Example

Energy Calculations

April 03, 2024

project no.

DESIGN PATH STUDIO drawn by

Low-Static Habitable in Conditioned & amp; Pressure Thermostat VCHP System Rooms Space Drop Rating Heat Pump System 1 Required Not required Not required Not required Not required INDOOR AIR QUALITY (IAQ) FANS 01 02 03 04

Airflow to

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Certified

VARIABLE CAPACITY HEAT PUMP COMPLIANCE OPTION - HERS VERIFICATION

Airflow (CFM)

Registration Number: 224-P010031296A-000-000-0000000-0000

CA Building Energy Efficiency Standards - 2022 Residential Compliance

Building Envelope:

110.8(ii):

150.0(g)2:

§ 110.3(c)3:

5/6/22

Project Name: Residential Building

Dwelling Unit

SFam IAQVentRpt

Calculation Description: Title 24 Analysis

0.35 Exhaust __n/a / n/a_

Heat/Energy

Ductless Units

IAQ Fan Type

Calculation Date/Time: 2024-03-11T10:41:29-07:00

Low Leakage

Ducts in

Conditioned

07

Includes Fault

Indicator Display

Space

Airflow per

RA3.3 and

SC3.3.3.4.1

Input File Name: 0 Studio.ribd22x

Air Filter Sizing

IAQ Recovery

Effectiveness -

SRE/ASRE

Registration Date/Time: 2024-03-11 11:23:52

Report Version: 2022.0.000

2022 Single-Family Residential Mandatory Requirements Summary

less when tested per NFRC-400, ASTM E283, or AAMA/WDMA/CSA 101/I.S.2/A440-2011.

Schema Version: rev 20220901

ield fabricated exterior doors and fenestration products must use U-factors and solar heat gain coefficient (SHGC) values from

Insulation Certification by Manufacturers. Insulation must be certified by the Department of Consumer Affairs, Bureau of Househol

Tables 110.6-A, 110.6-B, or JA4.5 for exterior doors. They must be caulked and/or weather-stripped.

Air Leakage. All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be

Roofing Products Solar Reflectance and Thermal Emittance. The thermal emittance and aged solar reflectance values of the roofing material must meet the requirements of § 110.8(f) and be labeled per §10-113 when the installation of a cool roof is specific

Roof Deck, Celling and Rafter Roof Insulation. Roof decks in newly constructed attics in climate zones 4 and 8-16 area-weighted

average U-factor not exceeding U-0.184. Ceiling and rafter roofs minimum R-22 insulation in wood-frame ceiling; or area-weighted averag U-factor must not exceed 0.043. Rafter roof alterations minimum R-19 or area-weighted average U-factor of 0.054 or less. Attic access

doors must have permanently atlached insulation using adhesive or mechanical fasteners. The aftic access must be gasketed to prevent air leakage, Insulation must be installed in direct contact with a roof or ceiling which is sealed to limit infiltration and exfiltration

Wall Insulation. Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less, or R-20 in 2x6 inch wood

framing or have a U-factor of 0.071 or less. Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0.1

Raised-floor Insulation. Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor, "

Slab Edge Insulation. Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alone

without facings, no greater than 0.3 percent; have a water vapor permeance no greater than 2.0 perm per inch; be protected from physical damage and UV light deterioration; and, when installed as part of a heated slab floor, meet the requirements of § 110.8(g).

Vapor Retarder. In climate zones 1 through 16, the earth floor of unvented crawl space must be covered with a Class I or Class II

[100.010].

/apor Retarder. In climate zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of

all insulation in all exterior walls, vented attics, and unvented attics with air-permeable insulation.

Fenestration Products. Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must have

Closable Doors. Masonry or factory-built fireplaces must have a closable metal or class door covering the entire opening of the firebr combustion Intake. Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inches in

3.3: certification, releasing, vernisation, and air conditioning (nVAL) equipment, water heaters, snowerpeads, raucess, and all other regulated appliances must be certified by the manufacturer to the California Energy Commission.

HVAC Efficiency. Equipment must meet the applicable efficiency requirements in Table 110.2-A through Table 110.2-N. "

Controls for Heat Pumps with Supplementary Electric Resistance Heaters. Heat pumps with supplementary electric resistance heaters must have controls that prevent supplementary heater operation when the heating load can be met by the heat pump alone; and in which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and

the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating."

Thermostats. All heating or cooling systems not controlled by a central energy management control system (EMCS) must have a

setback (hermostat,"

Insulation. Unfired service water heater storage tanks and solar water-heating backup tanks must have adequate insulation, or tank

hose bibbs or other fittings on both cold and hot water lines to allow for flushing the water heater when the valves are closed.

2022 Single-Family Residential Mandatory Requirements Summary

\$ 150.0(k)1H: elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires,

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. *

Accessible Controls. Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually furned

§ 150.0(k)2C: Mandatory Requirements. Lighting controls must comply with the applicable requirements of § 110.9.

Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8. *
Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8

Light Sources in Drawers, Cabinets, and Linen Closets. Light sources internal to drawers, cabinetry or linen closets are not require 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

on and off. *

Multiple Controls. Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the dimmer or sensor is installed

Renardatory requirements: Signing controls insist comply with the application exponence of general transfer of the significant
in § 150.0(k)2A.

Automatic Shutoff Controls. In bathrooms, garages, laundry rooms, utility rooms and walk-in closets, at least one installed luminaire

must be controlled by an occupancy or vacancy sensor providing automatic-off functionality. Lighting inside drawers and cabinets with opaque fronts or doors must have controls that turn the light off when the drawer or door is closed.

Dimmers. Lighting in habitable spaces (e.g., living rooms, dining rooms, kitchens, and bedrooms) must have readily accessible wall-mounted dimming controls that allow the lighting to be manually adjusted up and down. Forward phase cut dimmers controlling LED light sources in these spaces must comply with NEMA SSL 7A.

sources in these spaces must comply with NEMN SSL /A.

Independent controls, Integrated lighting of exhaust fans shall be controlled independently from the fans. Lighting under cabinets or shelves, lighting in display cabinets, and switched outlets must be controlled separately from ceiling-installed lighting.

Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or to other buildings on the same lot, must have a manual onloff switch and either a photocell and motion sensor or automatic time switch control) or an astronomical time clock. An energy management control system that provides the specified control functionality and meets.

applicable requirements may be used to meet these requirements.

Internally illuminated address signs. Internally illuminated address signs must either comply with § 140.8 or consume no more than 5

watts of power.

Residential Garages for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply with the applicable requirements for nonresidential garages in §§ 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0.

application 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).

Minimum Solar Zone Area. The solar zone must have a minimum total area as described below. The solar zone must comply with

access, pathway, smoke ventilation, and spacing requirements as specified in Title 24, Part 9 or other parts of Title 24 or in any 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

Shading, The solar zone must not contain any obstructions, including but not limited to: vents, chimneys, architectural features, and roof mounted equipment.

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.*

Structural Design Loads on Construction Documents. For areas of the roof designated as a solar zone, the structural design loads fo

Structural Design Loads on Construction Documents. For areas of the roof designated as a solar zone, the structural design loads to coof dead load and roof live load must be clearly indicated on the construction documents.

Interconnection Pathways. The construction documents must indicate: a location reserved for inverters and metering equipment and a pathway reserved for routing of conduit 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

Main Electrical Service Panel. The main electrical service panel must have a reserved space to allow for the installation of a double policicuit breaker for a future solar electric installation. The reserved space to allow for the installation of a double policicuit breaker for a future solar electric installation. The reserved space must be permanently marked as "For Future Solar Electric."

iolar Readiness:
Single-family Residences, Single-family residences located in subdivisions with 10 or more single-family residences and where the

§110.10(b) 1A: 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. *

Main Electrical Service Panel. The main electrical service panel must have a minimum busbar rating of 200 amps.

Azimuth. All sections of the solar zone located on steep-sloped roofs must have an azimuth between 90-300° of true north

Isolation Valves. Instantaneous water heaters with an input rating greater than 6.8 kBlu per hour (2 kW) must have isolation valves with

Loose-fill Insulation. Loose fill insulation must meet the manufacturer's required density for the labeled R-value.

a maximum U-factor of 0.45; or area-weighted average U-factor of all fenestration must not exceed 0.45. *

§ 150.0(e)2: area and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device.

Space Conditioning, Water Heating, and Plumbing System:

Certification. Heating, ventilation, and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other

Pilot Light. Continuously burning pilot lights are not allowed for indoor and outdoor fireplaces.

§ 150.0(e)3: Flue Damper. Masonry or factory-built fireplaces must have a flue damper with a readily accessible control."

Masonry walls must meet Tables 150.1-A or B. *

Fireplaces, Decorative Gas Appliances, and Gas Log:

linen closet is closed.

to comply with § 150.0(k).

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01E Project Name: Residential Building Calculation Date/Time: 2024-03-11T10:41:29-07:00 (Page 10 of 12) Calculation Description: Title 24 Analysis Input File Name: 0 Studio.ribd22x WATER HEATING - HERS VERIFICATION

ower Drain Water Heat **Compact Distribution** Pipe Insulation Parallel Piping Compact Distribution Recirculation Control Recovery Not Required DHW Sys 1 - 1/1 Not Required Not Required Not Required None Not Required SPACE CONDITIONING SYSTEMS 01 07 02 04 05 06 08 Heating Equipment Cooling Equipmen Name Heating Unit Name **Cooling Unit Name** Fan Name Distribution Name Count Thermostat Type

Heat pump Heat Pump System Heat Pump System Setback Minisplit1 heating cooling HVAC - HEAT PUMPS 03 04 05 06 07 08 09 10 Heating Cooling SEER/SE EER/EER Controlled Type Heating HSPF/HS Cap 47 Cap 17 Heating Units Efficiency ER2 2/CEER Type Heat Pump System 12800 7950 EERSEER HSPF Not Zonal VCHP-ductless

HVAC HEAT PUMPS - HERS VERIFICATION Verified Verified Heating **Verified Heating** Verified Verified Refrigerant Verified Airflow Airflow Target Verified EER/EER2 HSPF/HSPF2 SEER/SEER2 Charge Cap 47 Cap 17 Heat Pump System Not Required 1-hers-htpump

Registration Date/Time: 2024-03-11 11:23:52

Report Generated: 2024-03-11 10:42:16

RESIDENTIAL MEASURES SUMMARY | Building Type | ☑ Single Family □ Addition Alone | Date | Multi Family □ Existing+ Addition/Alteration | 3/11/2024 ifornia Energy Climate Zone Total Cond. Floor Area Addition # of Units CA Climate Zone 08 385 Cavity (ft²) Construction Type Wood Framed Opaque Door - no insulation Wood Framed Rafte Unheated Slab-on-Grad - no insulation FENESTRATION FENESTRATION
Orientation Area(ft²)

| Total Area: 51 | Glazing Percentage: 18.39 | Newi/Altered Average U-Fact
| U-Fac SHGC Overhang Sidefins Exterior Shades 0.23 none Min. Eff Thermostat Status Min. Eff Cooling Qty. Heating 8.20 HSPF Split Heat Pump 14.0 SEER HVAC DISTRIBUTION R-Value Status Location Heating Cooling Duct Location Ductless Minisplit WATER HEATING Qty. Type Gallons Min. Eff Distribution

2022 Single-Family Residential Mandatory Requirements Summary

Space Conditioning System Airflow Rate and Fan Efficacy. Space conditioning systems that use ducts to supply cooling must have a hole for the placement of a static pressure probe, or a permanently installed static pressure probe in the supply cooling milist have be ≥ 350 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 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 efficacy ≤ 0.62 watts per CFM. Field verification testing is required in accordance with

§ 150.0(o)1:	Requirements for Ventilation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(o)1.*
§ 150.0(o)1B:	Central Fan Integrated (CFI) Ventilation Systems. Continuous operation of CFI air handlers is not allowed to provide the whole- dwelling unit ventilation airflow required per §150.0(o)1C. A motorized damper(s) must be installed on the ventilation duct(s) that prevents all airflow through the space conditioning duct system when the damper(s) is closed and controlled per §150.0(o)1Bilikiv. CFI ventilation systems must have controls that track outdoor air ventilation run time, and either open or close the motorized damper(s) for compliance with §150.0(o)1C.
§ 150.0(o)1C:	Whole-Dwelling Unit Mechanical Ventilation for Single-Family Detached and townhouses. Single-family detached dwelling units, and attached dwelling units ont sharing ceilings or floors with other dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical ventilation airflow specified in § 150.0(c)1C-iii.
§ 150.0(o)1G:	Local Mechanical Exhaust, Kitchens and bathrooms must have local mechanical exhaust; nonenclosed kitchens must have demand- controlled exhaust system meeting requirements of §150.0(o)¶Giii,enclosed kitchens and bathrooms can use demand-controlled or continuous exhaust meeting §150.0(o)¶Giii-iv. Airflow must be measured by the installer per §150.0(o)¶Gv, and rated for sound per §150.0(o)¶Gvi. °
§ 150.0(o)1H&I:	Airflow Measurement and Sound Ratings of Whole-Dwelling Unit Ventilation Systems. The airflow required per § 150.0(o)1C must be measured by using a flow hood, flow grid, or other airflow measuring device at the fan's inlet or outlet terminals/grilles per Reference Residential Appendix RA3.7. Whole-Dwelling unit ventilation systems must be rated for sound per ASHRAE 62.2 §7.2 at no less than the minimum airflow rate required by §150.0(o)1C.
§ 150.0(o)2:	Field Verification and Diagnostic Testing. Whole-Dwelling Unit ventilation airflow, vented range hood airflow and sound rating, and HRV and ERV fan efficacy must be verified in accordance with Reference Residential Appendix RA3.7. Vented range hoods must be verified per Reference Residential Appendix RA3.7.4.3 to confirm if it is rated by HVI or AHAM to comply with the airflow rates and sound requirements per §150.0(o)/16
ool and Spa Sys	tems and Equipment:
§ 110.4(a):	Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following: compliance with the Appliance Efficiency Regulations and listing in MAEDbS; an on-off switch mounted outside of the heater that allows shutting off the heater without adjusting the themostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric resistance heating.* Piping, Any pool or spa heating system or equipment must be installed with at least 36 inches of pipe between the filter and the heater, or
§ 110.4(b)1:	dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating.
§ 110.4(b)2:	Covers. Outdoor pools or spas that have a heat pump or gas heater must have a cover.
§ 110.4(b)3:	Directional Inlets and Time Switches for Pools. Pools must have directional inlets that adequately mix the pool water, and a time switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods.
§ 110.5:	Pilot Light. Natural gas pool and spa heaters must not have a continuously burning pilot light.
§ 150.0(p):	Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pump sizing, flow rate, piping, filters, and valves.
ighting:	
§ 110.9:	Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirements of § 110.9.
§ 150.0(k)1A:	Luminaire Efficacy. All installed luminaires must meet the requirements in Table 150.0-A, except lighting integral to exhaust fans, kilchen range hoods, bath vanity mirrors, and garage door openers; navigation lighting less than 5 watts; and lighting internal to drawers, cabinets, and line closels with an efficacy of at least 45 lumens per watt.
150.0(k)1B:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8.
§ 150.0(k)1C:	Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must not contain screw based sockets, must be airlight and must be sealed with a gasket or caulik. California Electrical Code § 410.116 must also be met.
§ 150.0(k)1D:	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)1E:	Blank Electrical Boxes. The number of electrical boxes that are more than five feet above the finished floor and do not contain a luminaire or other device shall be no more than the number of bedrooms. These boxes must be served by a dimmer, vacancy sensor control, low voltage wiring, or fan speed control.
§ 150.0(k)1F:	Lighting Integral to Exhaust Fans, Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoods) must meet the applicable requirements of \$ 150.0(k).

of Units Tank Vol. (gal) **Tank Location** Duct Inlet Air Source Duct Outlet Air Source Brand Model PROPH40 T2 DHW Heater : RH37530 (40 gal. Outside Zone 1 Zone 1 JA13) Registration Number: 224-P010031296A-000-000-0000000-0000 Registration Date/Time: 2024-03-11 11:23:52 HERS Provider: CalCERTS inc. CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Report Generated: 2024-03-11 10:42:16 Schema Version: rev 20220901 CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01E

Calculation Date/Time: 2024-03-11T10:41:29-07:00

Interior / Exterior

R-value

None / None

06 07

Continuous U-factor

07

Distribution

None

0.034

Input File Name: 0 Studio.ribd22x

Total Cavity

R-value

R-30

System

COILINI IN 11160

05

NEEA Heat Pump

05

2x12 @ 16 in. O. C.

04

Distribution Type | Water Heater Name | Number of Units

DHW Heater 1

04

NEEA Heat Pump

Calculation Date/Time: 2024-03-11T10:41:29-07:00 (Page 12 of 12) Project Name: Residential Building Calculation Description: Title 24 Analysis Input File Name: 0 Studio.ribd22x DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete. mentation Author Name: nentation Author Signature: Yvonne St Pierre Yvonne St Pierre Design Path Studio 2024-03-11 11:23:52 CEA/ HERS Certification Identification (If applicable PO Box 230165 619-292-8807 Encinitas, CA 92023 RESPONSIBLE PERSON'S DECLARATION STATEMENT 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 specification

Yvonne St Pierre 2024-03-11 11:23:52 Design Path Studio

PO Box 230165 C 34789 Encinitas, CA 92023 619-292-8807

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

onstruction Typ

Wood Framed

Quality Insulation Installation (QII) High R-value Spray Foam Insulation Building Envelope Air Leakage

Standard

03

Surface Type

Cathedral Ceilings

System Type

Water (DHW)

Project Name: Residential Building

PAQUE SURFACE CONSTRUCTIONS

01

Construction Name

R-30 Roof No Attic

WATER HEATING SYSTEMS

DHW Sys 1

WATER HEATERS - NEEA HEAT PUMP

Calculation Description: Title 24 Analysis

BUILDING ENVELOPE - HERS VERIFICATION

Digitally signed by CalCERTS. 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: 224-P010031296A-000-000-000000-0000 Registration Date/Time: 2024-03-11 11:23:52

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CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Schema Version: rev 20220901

HERS Provider: CalCERTS inc. Report Generated: 2024-03-11 10:42:16

Easy to Verify

at CalCERTS.com

CF1R-PRF-01E

Assembly Layers

Roofing: 10 PSF (RoofTileAirGap)

Tile Gap: present

Roof Deck: Wood

Cavity / Frame: R-30 / 2x12

Inside Finish: Gypsum Board

CFM50

Name (#)

DHW Heater 1 (1)

08

HERS Verification

n/a

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2022 Single-Family Residential Mandatory Requirements Summary

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 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(h)2. Clearances. Air conditioner and heat pump outdoor condensing units must have a clearance of at least five feet from the outlet of any Liquid Line Drier. Air conditioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the manufacturer's instructions.

Water Piping, Solar Water-heating System Piping, and Space Conditioning System Line insulation. All domestic hot water piping must be insulated as specified in § 609.11 of the California Plumbing Code.*

Insulation Protection. Piping insulation must be protected from damage, including that due to sunlight, moisture, equipment'
maintenance, and wind as required by §120.3(b). Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes). Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space must include, or be protected by, a Class I or Class II vapor retarder. Pipe insulation buried below grade must be installed in a w non-crusnable casing or sleeve. Gas or Propane Water Heating Systems. Systems using gas or propane water heaters to serve individual dwelling units must designate a space at least 2.5 x 2.5 x 7 suitable for the future installation of a hast pump water heaters, and meet electrical and plumbing requirements, based on the distance between this designated space and the water heater location; and a condensate drain r more than 2" higher than the base of the water heater

Solar Water-heating Systems. Solar water-heating systems and collectors must be certified and rated by the Solar Rating and Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing (IAPMO § 150.0(n)3: R&T), or by a listing agency that is approved by the executive director. Ducts and Fans:

Ducts. Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC). If a contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement.

CMC Compliance. All air-distribution system ducts and plenums must meet CMC §§ 601.0-605.0 and ANSI/SMACNA-006-2006 HVAC CMC Compliance. All air-distribution system duets and plenums must meet CMC §§ 601.0-605.0 and ANSI/SMACNA-006-2006 HVAC Duct Construction Standards Metal and Flexible 3rd Edition. Portions of supply-air and return-air duant and plenums must be insulated to R-8.0 or higher; ducts located entirety in conditioned space as confirmed through field verification and diagnostic testing (RA3.1.4.3.8) do not require insulation. Connections of metal ducts and inner core of flexible ducts must be mechanically fastened. Openings must be sealed with mastic, tape, or other duct-closure system that meets the applicable UL requirements, or aerosol sealant that meets UL 723. The combination of mastic and either mesh or tape must be used to seal openings greater than %, if mastic or tape is used. Building cavities, air handler support platforms, and plenums designed or constructed with materials other than sealed sheet metal, duct board or flexible duct, must not be used to convey conditioned air. Building cavities and support platforms may contain ducts; ducts installed in those spaces must not be used to convey conditioned air. Building cavities and support platforms may contain ducts; ducts installed in those spaces must not be used to convey conditioned air. hese spaces must not be compressed. *
Factory-Fabricated Duct Systems. Factory-fabricated duct systems must comply with applicable requirements for duct construction connections, and closures; joints and seams of duct systems and their components must not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.

Field-Fabricated Duct Systems. Field-fabricated duct systems must comply with applicable requirements for: pressure-sensitive tapes. mastics, sealants, and other requirements specified for duct construction.

Backdraft Damper. Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic § 150.0(m)7: manually operated dampers in all openings to the outside, except combustion inlet and outlet air openings and elevator shaft vents.

Protection of Insulation. Insulation must be protected from damage due tosunlight, moisture, equipment maintenance, and wind.

Insulation exposed to weather must be suitable for outdoor service (e.g., protected by aluminum, sheet metal, painted canvas, or plastic cover). Cellular foam insulation must be protected as above or painted with a water retardant and solar radiation-resistant coating. outer vapor barrier.

Duct System Sealing and Leakage Test. When space conditioning systems use forced air duct systems to supply conditioned air to an occupiable space, the ducts must be sealed and duct leakage tested, as confirmed through field verification and diagnostic testing, in accordance with Reference Residential Appendix RA3.1. Air Filtration. Space conditioning systems with ducts exceeding 10 feet and the supply side of ventilation systems must have MERV 13 or equivalent filters. Filters for space conditioning systems must have a two inch depth or can be one inch if sized per Equation 150.0-A.

Clean-filter pressure drop and labeling must meet the requirements in §150.0(m)12. Filters must be accessible for regular service. Filter racks or grilles must use gaskets, sealing, or other means to close gaps around the inserted filters to and prevents air from bypassing the

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Registration Number: 224-P010031296A-000-000-0000000-0000 HERS Provider: CalCERTS inc.

CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Schema Version: rev 20220901

	Central Fan Integrated (CFI) Ventilation Systems. Continuous operation of CFI air handlers is not allowed to provide the whole-dwelling unit ventilation airflow required per §150.0(o)1C. A motorized damper(s) must be installed on the ventilation duct(s) that prevents all airflow through the space conditioning duct system when the damper(s) is closed and controlled per §150.0(o)1Bilikiv. CFI ventilation systems must have controls that track outdoor air ventilation run time, and either open or close the motorized damper(s) for compliance with §150.0(o)1C.
	Whole-Dwelling Unit Mechanical Ventilation for Single-Family Detached and townhouses. Single-family detached dwelling units, and attached dwelling units not sharing cellings or floors with other dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical ventilation airflow specified in § 150.0(o)1Ci-iii.
	Local Mechanical Exhaust. Kitchens and bathrooms must have local mechanical exhaust; nonenclosed kitchens must have demand- controlled exhaust system meeting requirements of §150.0(o)16iii,enclosed kitchens and bathrooms can use demand-controlled or continuous exhaust meeting §150.0(o)16iii-iv. Airilow must be measured by the installer per §150.0(o)16v, and rated for sound per §150.0(o)16vi.*
BI:	Airflow Measurement and Sound Ratings of Whole-Dwelling Unit Ventilation Systems. The airflow required per § 150.0(o)1C must be measured by using a flow hood, flow grid, or other airflow measuring device at the far's inlet or outlet terminals/grilles per Reference Residential Appendix RA3.7. Whole-Dwelling unit ventilation systems must be rated for sound per ASHRAE 62.2 § 7.2 at no less than the minimum airflow rate required by §150.0(o)1C.
	Field Verification and Diagnostic Testing. Whole-Dwelling Unit ventilation airflow, vented range hood airflow and sound rating, and HRV and ERV fan efficacy must be verified in accordance with Reference Residential Appendix RA3.7. Vented range hoods must be verified per Reference Residential Appendix RA3.7.4.3 to confirm if it is rated by HVI or AHAM to comply with the airflow rates and sound requirements per §150.0(p)1G
Syst	ems and Equipment:
	Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following: compliance with the Appliance Efficiency Regulations and listing in MAEDbS; an on-off switch mounted outside of the heater that allows shutting off the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric resistance heating.
	Piping. Any pool or spa heating system or equipment must be installed with at least 36 inches of pipe between the filter and the heater, or dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating.
	Covers. Outdoor pools or spas that have a heat pump or gas heater must have a cover.
	Directional Inlets and Time Switches for Pools. Pools must have directional inlets that adequately mix the pool water, and a time switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods.
	Pilot Light. Natural gas pool and spa heaters must not have a continuously burning pilot light.
	Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pump sizing, flow rate, piping, filters, and valves.
	Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirements of § 110.9.
	Luminaire Efficacy. All installed luminaires must meet the requirements in Table 150.0-A, except lighting integral to exhaust fans, kitchen range hoods, bath vanity mirrors, and garage door openers; navigation lighting less than 5 watts; and lighting internal to drawers, cabinets, and linen closels with an efficacy of at least 45 lumens per watt.
	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8. *
	Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must not contain screw based sockets, must be airtight, and must be sealed with a gasket or caulk. California Electrical Code § 410.116 must also be met.

Electric and Energy Storage Ready:

§ 110.10(b)3B: ho

*Exceptions may apply.

5/6/22

Project Name		AND COOLING LOAD	3 30W	INCAL C.		Date	
Studio - Pre Approved AD	U						11/2024
System Name Ductless Minisplit						Floor	Area 385
ENGINEERING CHECKS		SYSTEM LOAD					505
Number of Systems	1	O TO TEM LOVE	COIL	COOLING F	PEAK	COIL H	TG. PEAK
Heating System			CFM	Sensible	Latent	CFM	Sensible
Output per System	12,800	Total Room Loads	159	3,411	177	110	4,35
Total Output (Btuh)	12,800	Return Vented Lighting		0			
Output (Btuh/sqft)	33.3	Return Air Ducts		0			
Cooling System		Return Fan		0			
Output per System	12,300	Ventilation	0	0	0	0	
Total Output (Btuh)	12,300	Supply Fan		0			
Total Output (Tons)	1.0	Supply Air Ducts		0	ļ		
Total Output (Btuh/sqft)	32.0						
Total Output (sqft/Ton)	375.3	TOTAL SYSTEM LOAD		3,411	177		4,35
Air System							
CFM per System	0	TIVAC EQUI MENT CELECTION					
Airflow (cfm)		Minisplit		11,447	0	Ļ	9,56
Airflow (cfm/sqft)	0.00					-	
Airflow (cfm/Ton)	0.0					-	
Outside Air (%)	0.0%	Total Adjusted System Output (Adjusted for Peak Design conditions)		11,447	0	L	9,56
Outside Air (cfm/sqft)			,		Aug 3 PM		Jan 1 Al
Note: values above given at ARI		TIME OF SYSTEM PEAK (Airstream Temperatures at Time of	of Heating	Poak)	Aug a Fixi		Jan i Ai
33 °F Outside Air 0 ofm	68 °F Heating (105 °F				1	↓ 05 年
68 °F	-				RO	ООМ	38 °F
COOLING SYSTEM PSYCHRI		(Airstream Temperatures at Time	of Cooling	Peak)			
92 / 68 °F	75	i/62 °F 55 / 54 °F					
Outside Air 0 ofm		Cooling Coil	→		allewic.	55	754°F
Ī				46.8	% RC	OOM	/ 62 °F

architecture + planning

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project
County of Orange
Pre-Approved
ADU Program

OWNER NAME:

ADDRESS: APN:

LEGAL DESCRIPTION:

revisions

Example
Energy
Calculations

date April 03, 2024

project no.

drawn by DESIGN PATH STUDIO

eet no

T24.3