SHEET INDEX

RESIDENTIAL MANDATORY FEATURES 2022 CALGREEN

EXTERIOR STYLE OPTIONS

WINDOW & DOOR SCHEDULES FLOOR PLAN CRAFTSMAN

SITE INFORMATION

GENERAL NOTES

EXAMPLE SITE PLAN

FLOOR PLAN SPANISH FLOOR PLAN TRADITIONAL

ROOF PLAN CRAFTSMAN

ROOF PLAN TRADITIONAL

MECHANICAL/PLUMBING PLAN

EXTERIOR ELEVATIONS CRAFTSMAN

EXTERIOR ELEVATIONS SPANISH

BUILDING SECTIONS CRAFTSMAN

BUILDING SECTIONS TRADITIONAL

STRUCTURAL NOTES + SPECIFICATIONS

CRAFTSMAN FOUNDATION & FRAMING PLAN

TRADITIONAL FOUNDATION & FRAMING PLAN

EXAMPLE ENERGY CALCS. CLIMATE ZONE 16 ONLY

EXAMPLE ENERGY CALCS. CLIMATE ZONE 16 ONLY

T24.6 EXAMPLE ENERGY CALCS. CLIMATE ZONE 16 ONLY

SPANISH FOUNDATION & FRAMING PLAN

BUILDING SECTIONS SPANISH

ARCHITECTURAL DETAILS

ARCHITECTURAL DETAILS

ARCHITECTURAL DETAILS

STRUCTURAL DETAILS

STRUCTURAL DETAILS

EXAMPLE ENERGY CALCS

EXAMPLE ENERGY CALCS

EXAMPLE ENERGY CALCS.

ROOF PLAN SPANISH

ELECTRICAL PLAN

CONTACT LOCAL UTILITY COMPANIES REGARDING GAS, ELECTRIC, WATER AND SEWER SERVICES TO THIS DETACHED ADU. FOR SEPTIC SYSTEMS CONTACT COUNTY OF RIVERSIDE ENVIRONMENTAL HEALTH. SEE EXAMPLE SITE PLAN, SHEET AS.2, FOR MORE INFORMATION PRIOR TO ANY SITE TRENCHING CALL 811.

COMPANY

ADDRESS

ADDRESS

PHONE

EMAIL

PHONE

EMAIL

CONTACT PERSON

PROPERTY OWNER:

BUILDING DEPARTMENT:

4080 LEMON STREET,

RIVERSIDE, CA 92502

P. (951)955-1800



VICINITY MAP

APN

HERS NOTES

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 811 before you dig. 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

> PROPERLY COMPLETED & ELECTRONICALLY SIGNED AND 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 FORMS ARE LOCATED ON THE PLANS. IF REGISTRATION IS REQUIRED, A WATER-MARK AND REGISTRATION NUMBER WILL BE VISIBLE. QUALITY INSULATION INSPECTION - Hire HERS rater early before drywall. VARIABLE CAPACITY HEAT PUMP - Ductless units entirely located in conditioned space, Airflow in habitable rooms, wall mounted thermostat in zones greater than 150 s.f., verify heat pump rated capacity, and Refrigerant charge. At ADU -Studio, 1 Bed, 2 Bed & 2 Bed 2 Bath - R-6 ducts in conditioned space, Verified EER/EER2, SEER/SEER2, HSPF, Heat pump rated heating capacity, Min Airflow, Refrigerant Charge, & Fan watt Draw/Fan Efficacy. KITCHEN RANGE HOOD CFM VERIFICATION (100 CFM , = 3 SONES) IAQ MECHANICAL VENTILATION - See new ducting requirements Table 150.0-H

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 A WHOLE BUILDING INDOOR AIR QUALITY VENTILATION WITH OUTDOOR AIR IN COMPLIANCE WITH ASHRAE STANDARD 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMMISSION.

4. FOR IAQ FAN - PLEASE SEE SITE SPECIFIC CALCULATIONS FOR CFM

5. PV SYSTEM SOLAR: SEE SITE SPECIFIC T24 SHEETS FOR kWdc REQUIRED. POSSIBLE PV EXCEPTION 2: NO PV REQUIRED WHEN MINIMUM PV SIZE < 1.8 KWDC(SECTION 150.1(C)14) PV EXEMPTION BASED IN UPDATED ENERGY CALCULATIONS WITH SITE SPECIFIC INFORMATION.

6. SPECIAL FEATURES: VCHP required items listed above, exposed slab flooring, and NEEA rated heat pump water heater; specific brand/model or eq., and Solar exemption 2 was taken at Studio & 1 Bed

7. NEW 2022 ELECTRIC READY REQUIREMENTS FOR NEW CONSTRUCTION: IF HEAT PUMP WATER HEATER IS NOT INSTALLED. PROVIDE SPACE FOR THIS TYPE OF WATER HEATER. A 240v OUTLET IS REQUIRED FOR WATER HEATER, DRYER, AUTO CHARGING, AND STOVE INCLUDING BREAKER SPACE. ENERGY STORAGE SYSTEM FOR A FUTURE BATTERY SYSTEM (BATTERY READY) IS REQUIRED IF FULL SYSTEM IS NOT INSTALLED.

BUILDING INFORMATION GOVERNING CODES: APPROVAL OF THIS PROJECT SHALL COMPLY WITH THE 2022 CALIFORNIA RESIDENTIAL CODE (CRC), 2022 CALIFORNIA MECHANICAL CODE (CMC), 2022 CALIFORNIA PLUBLING CODE (CPC), 2022 CALIFORNIA ELECTRICAL CODE (CEC), 2022 CALIFORNIA ENERGY CODE (CEC), 2022 CALIFORNIA GREEN BUILDING CODE (CGBC), COUNTY OF RIVERSIDE MUNICIPAL CODE AND COUNTY OF RIVERSIDE ORDINANCES 457. SITE ADDRESS:

GOVERNING AGENCY: OCCUPANCY GROUP: R3 STORIES:

COUNTY OF RIVERSIDE, CA.

PROJECT DESCRIPTION REAR-

ZONING INFORMATION

PLANNING: PHONE: (760) 863-8277

OVERLAY

LOT SIZE :

EXISTING FAR:

PROPOSED FAR

LOT SLOPE

MAX. ALLOWABLE FAR

FLOOR AREA OF GARAGE:

EXISTING LOT COVERAGE:

ALLOWABLE LOT COVERAGE

PROPOSED LOT COVERAGE

ADU SETBACKS ALLOWED

OFF STREET PARKING:

REAR-

REQUIRED:

EXISTING HABITABLE SQ. FT.

CONTACT COUNTY OF RIVERSIDE FOR THE INFORMATION BELOW

GIS MAP: https://gis1.countyofriverside.us/Html5Viewer/?viewer=MMC_Public

PROPOSED

SIDE-

PROVIDED:

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, DIMENSIONED SETBACKS, AND MINIMUM SEPARATION FROM EXISTING

IF A GRADING PLAN IS REQUIRED, THE GRADING PLAN SHALL BE SUBMITTED TO

STREET SIDE-

NEW CONSTRUCTION OF A ONE STORY, STUDIO, 1 BATH, DETACHED 499 S.F. ACCESSORY DWELLING UNIT HABITABLE AREA: 499 SQFT. CRAFTSMAN PATIO AREA: 397 SQFT. SPANISH PATIO AREA: 419 SQFT. TRADITIONAL PATIO AREA: 84 SQFT.

Accessory Dwelling Unit Studio - 499s.f.

Unincorporated County of Riverside, CA

DIRECTORY

SITE PLAN & TITLE SHEET INFORMATION PREPARED BY:

LEGAL DESCRIPTION

	REQUIRED SUP	PLEMENTAL INFORMATION - TO	BE COMPLETED BY OWNER	
dditional plan information	window and trim color:	deferred submittals under	fire rated details:	EXAMPLE GAS PIPE DIAGRAM
rovided by owner:	X SELECTION	separate permit to be obtained	X SELECTION	TO BE UPDATED FOR SITE SPECIFIC CONDITIONS
COMPLETED	WHITE	by owner:	ROOF EAVE DETAIL 1,2,3,5,6,7/ A5.2	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	TAN	X TO BE COMPLETED	WALL FINISH DETAIL 9B,12B,15B/ A5.1	DESIGNER OF CHOICE. CFH & BTUS PROVIDED AS SUGGESTED LOADS. OWNER/DESIGNER IS TO PROVIDE ACCURATE INFORMATION.
SITE PLAN SHEET (AS.2) PROVIDED IN PLAN SET FOR REVIEW	DARK BRONZE	FIRE SPRINKLERS: TO BE PROVIDED BY A FIRE SPRINKLER CONTRACTOR FOR THE RESIDENTIAL FIRE SPRINKLER PLANS (WHEN REQUIRED) AND APPROVED BY FIRE DEPT.	WINDOW & DOOR HIGH FIRE SEVERITY NOTES 14, 15, 16, 17 & 18 ON G0.3	
UPDATED SITE SPECIFIC TITLE 24 ENERGY CALCULATION REPORT WITH CORRECT NAME, ADDRESS, AND EXACT ORIENTATION FOR SITE SPECIFIC CONDITIONS. OWNER SHOULD CONTACT AN ENERGY CONSULTANT TO OBTAIN UPDATES TO THE REPORTS	OTHER WINDOW COLOR	PHOTOVOLTAIC SYSTEM: THE PV SYSTEM MUST BE INSTALLED, OPERATIONAL, AND FINAL PRIOR TO FINAL BUILDING INSPECTION AND APPROVAL FOR THE ADU. PLANS TO BE PROVIDED BY A SOLAR PANEL PROVIDER (WHEN REQ. TO BUILDING AND SAFETY DEPT.	FIRE RATED DETAILS ABOVE ARE TO BE USED WHEN WALLS AND ROOF EAVES ARE LESS THAN 5 FT FROM PROPERTY LINE IN AN UNSPRINKLERED BUILDING OR LESS THAN 3 FT FROM PROPERTY LINE IN SPRINKLERED BUILDINGS PER TABLE R302.1(1) & R302.1(2).	(E)GAS METER PIPE (CFH ('LENGTH)
CONSTRUCTION AND DEMOLITION FORM	WINDOW TRIM COLOR OF EXISTING DWELLING UNIT	fire department information:	FIRE RATED DETAILS ABOVE ARE ALSO TO BE USED WHEN THE ADU IS LESS THAN 10 FT FROM THE MAIN DWELLING UNIT IN AN UNSPRINKLERED BUILIDNG OR LESS THAN 6 FT FROM THE MAIN DWELLING UNIT IN A SPRINKLERED BUILDING.	GAS CALCULATIONS " PIPE (N)DRYER 35 CFH
HOLD HARMLESS AGREEMENT	(WINDOW TRIM COLOR FOR THE ADD SHALL MATCH EXISTING DWELLING UNIT WINDOW COLOR)	X SELECTION	- electrical service information:	APPLIANCE QTY CFH TOTAL CFH
terior style selection:	roof material:	EXISTING RESIDENCE CURRENTLY HAS FIRE SPRINKLERS		(NEW) DRYER 1 35 35 (NEW) OVEN & RANGE 1 65 65
SELECTION MUST MATCH THE EXISTING DWELLING UNIT (HOME	X SELECTION	EXISTING RESIDENCE DOES NOT CURRENTLY HAVE FIRE SPRINKLERS	X SELECTION	
· · · · · · · · · · · · · · · · · · ·	ROOF COLOR OF PRINCIPAL DWELLING UNIT	PROPERTY IS LOCATED IN THE VERY HIGH FIRE HAZARD SEVERITY ZONE HTTPS://GIS1.COUNTYOFRIVERSIDE.US/HTML5VIEWER/INDEX.HTML?VIEWER=MMC_PUBLIC	UPGRADED SERVICE	TOTAL GAS LOAD FOR HOUSEHOLD APPLIANCES = 100 000 BTL/b ('LENGTH) 65 CFH
RAFTSMAN	(ROOF COLOR OF ADU SHALL MATCH PRINCIPAL DWELLING UNIT)	PROPERTY IS <u>NOT</u> LOCATED IN THE VERY HIGH FIRE HAZARD SEVERITY ZONE	EXISTING SERVICE TO REMAIN (LOAD CALCS FOR THE EXISTING DWELLING IS REQUIRED)	APPLIANCES = 100,000 BTU/h 100 CFH
SPANISH	TRIM COLOR OF PRINCIPAL DWELLING	A CURRENT FIRE FLOW REPORT FROM THE LOCAL WATER PURVEYOR MAY BE REQUIRED. PLEASE CONTACT THE RIVERSIDE COUNTY OFFICE OF THE FIRE MARSHAL FOR MORE INFORMATION. FIRE	NEW SERVICE (NEW ADDRESS REQUIRED)	PIPE SIZE SCHEDULE 40 METALLIC PIPE 125' LENGTH PER TABLE 1216.2(1) CALIFORNIA SPECIFICATIONS FOR
TRADITIONAL	(TRIM COLOR OF ADU SHALL MATCH PRINCIPAL DWELLING UNIT TRIM)	SPRINKLERS MAY BE REQUIRED IF THE FIRE FLOW IS INSUFFICIENT, OR THE NEAREST FIRE HYDRANT IS OVER 400 FEET FROM THE FURTHEST POINT ON THE ADU AS MEASURED ALONG	SIZE OF EXISTING SERVICE SIZE OF NEW SERVICE	LENGTH PER TABLE 1216.2(1) CALIFORNIA PLUMBING CODE SIZE ½" ¾" 1" 1½" 1½" 2" SIZE ½" ¾ 1" 1½" 1½" 2" SIZE ½" ¾ 1" 1½" 1½" 2"
terior wall material:	CONCRETE TILE ROOF - EAGLE ROOF PRODUCTS INC IAMPO UES-ER 1900 MINIMUM 2-1/2:12 ROOF SLOPE. COLOR OF CONCRETE TILE ROOF	NEW ADU IS REQUIRED TO HAVE FIRE SPRINKLERS IF THE EXISTING RESIDENCE HAS FIRE	CONTACT SERVICE PROVIDER, REGARDING ELECTRIC SERVICES TO THIS DETACHED ADU. EXISTING SERVICE UPGRADE OR NEW SERVICE WILL REQUIRE A SEPARATE PERMIT FROM	SIZE ½" ¾" 1" 1½" 2" CFH 44 92 173 355 532 1,020 COUNTY OF RIVERSIDE BUILDING INSPECTOR
SELECTION(S)	ARCHITECTURAL GRADE SHINGLE - CERTAINTEED - ICC-ES-ESR-1389 & ESR-3537 MINIMUM 2:12 ROOF SLOPE.	SPRINKLERS. IN ORDER FOR THE ADU TO NOT BE EQUIPPED WITH RESIDENTIAL FIRE SPRINKLERS ALL OF THE FOLLOWING HAVE TO BE MET PER THE RESIDENTIAL CODE. "PER THE CALIFORNIA RESIDENTIAL CODE, SECTION R313.2, #2 ACCESSORY DWELLING	gas service information:	
EXTERIOR WALL COLOR OF PRINCIPAL DWELLING UNIT	COLOR OF ARCHITECTURAL GRADE SHINGLES	UNIT, PROVIDING THAT ALL OF THE FOLLOWING ARE MET: 2.1 THE UNIT MEETS THE DEFINITION OF AN ACCESSORY DWELLING UNIT AS DEFINED IN THE GOVERNMENT CODE SECTION 65852.2: 2.2 THE EXISTING PRIMARY RESIDENCE DOES NOT HAVE SPRINKLERS:	X SELECTION	
	WOOD SHAKE - ICC ESR 2867 - MINIMUM 4:12 ROOF SLOPE. COLOR OF WOOD SHAKE ROOF	2.3 THE ACCESSORY DETACHED DWELLING UNIT DOES NOT EXCEED 1,200 SQUARE FEET IN SIZE AND 2.4 THE UNIT IS ON THE SAME LOT AS THE PRIMARY RESIDENCE."		site / soils / foundation information
STUCCO / MANUFACTURER COLOR #		IF THE EXISTING HOME IS EQUIPPED WITH RESIDENTIAL FIRE SPRINKLERS THEN THE ADU WILL BE REQUIRED TO HAVE RESIDENTIAL FIRE SPRINKLERS INSTALLED/ SPRINKLER	EVICTING SERVICE TO DEMAIN	PLEASE CHECK THE BOX THAT APPLIES TO YOUR PROJECT SITE
STONE VENEER / MANUFACTURER COLOR #	OTHER ROOF MATERIAL / COLOR	PLANS WILL BE REQUIRED TO BE SUBMITTED TO THE FIRE DEPARTMENT FOR REVIEW AND APPROVAL.		YES NO QUALIFIER (PROJECT WILL NOT QUALIFY IF ANY OF THE BELOW QUESTIONS HAVE A
FIBER CEMENT - SIDING / MANUFACTURER COLOR #	sewer waste water information:	lot size and impervious area:	NEW SERVICE	DOES THE PROJECT ABUT SEVERE ASCENDING OR DESCENDING SLOPES EXCEEDING
VOOD SIDING / MANUFACTURER COLOR #	X SELECTION	Total Lot Size = (Existing building footprint, patios, decks, hardscape, etc.)	ALL ELECTRICAL	DOES THE PROJECT INCLUDE RETAINING WALLS?
THER	ADU TO HAVE NEW CONNECTION TO EMWD SEWER MAIN	Total Area of Existing Impervious Surfaces =	PROPANE "FIRE CLEARANCE REQUIRED"	
		(Existing building footprint, patios, decks, hardscape, etc.)	SIZE OF EXISTING SERVICE SIZE OF NEW SERVICE	DOES THE SITE CONTAIN ANY KNOWN GEOTECHNICAL HAZARDS? DOES THE EXISTING DWELLING ON THE SITE HAVE A NON-CONVENTIONAL
	ADU TO CONNECT TO EXISTING RESIDENCE SEWER LATERAL	Total Area of New Impervious Surfaces =(Increase to building footprint, patios, decks, hardscape, etc.)		FOUNDATION?
	SEPTIC - REQUIRES HEALTH DEPARTMENT APPROVAL	Total Area of Replaced Impervious Surfaces =		DOES THE EXISTING DWELLING FOUNDATION SHOW ANY SIGNS OF DISTRESS?
	DISTANCE TO CONNECTION	(Replacement to building footprint, patios, decks, hardscape, etc.)		

BY USING THESE PERMIT READY CONSTRUCTION DOCUMENTS, THE RECIPIENT ACKNOWLEDGES, ACCEPTS AND VOLUNTARILY AFFIRMS TH 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 THE COUNTY OF RIVERSIDE ONLY. THIS IS A LIMITED SET OF STANDARDIZED ADU PLANS AND SPECIFICATIONS APPROVED BY THE COUNTY OF RIVERSIDE **BUILDING DEPARTMENT. BUILDING CODES** DO CHANGE OVER TIME AND RECIPIENT SHALI ENSURE FULL COMPLIANCE UNDER ALL CODES THEN IN EFFECT AT THE TIME OF THE SUBJECT PERMIT. THIS DOES NOT ELIMINATE OR REDUCE TH 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 CONSTRUCTION DOCUMENTS IF THE PERMIT HAS EXPIRED OR IS REVOKED AT ALL. . THE RECIPIENT RECOGNIZES AND ACKNOWLEDGE THAT THE USE OF THIS INFORMATION WILL BE AT THEIR SOLE RISK AND WITHOUT ANY LIABILITY OF 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 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

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.

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CONSTRUCTION OF AN ADU OR OTHER

COPYRIGHT PROTECTION.

project

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

revisions	
01	

Title Sheet

description

20 January 2025

project no. RIVERSIDE ADU

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

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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 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 COPYRIGHTE AND ANE 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

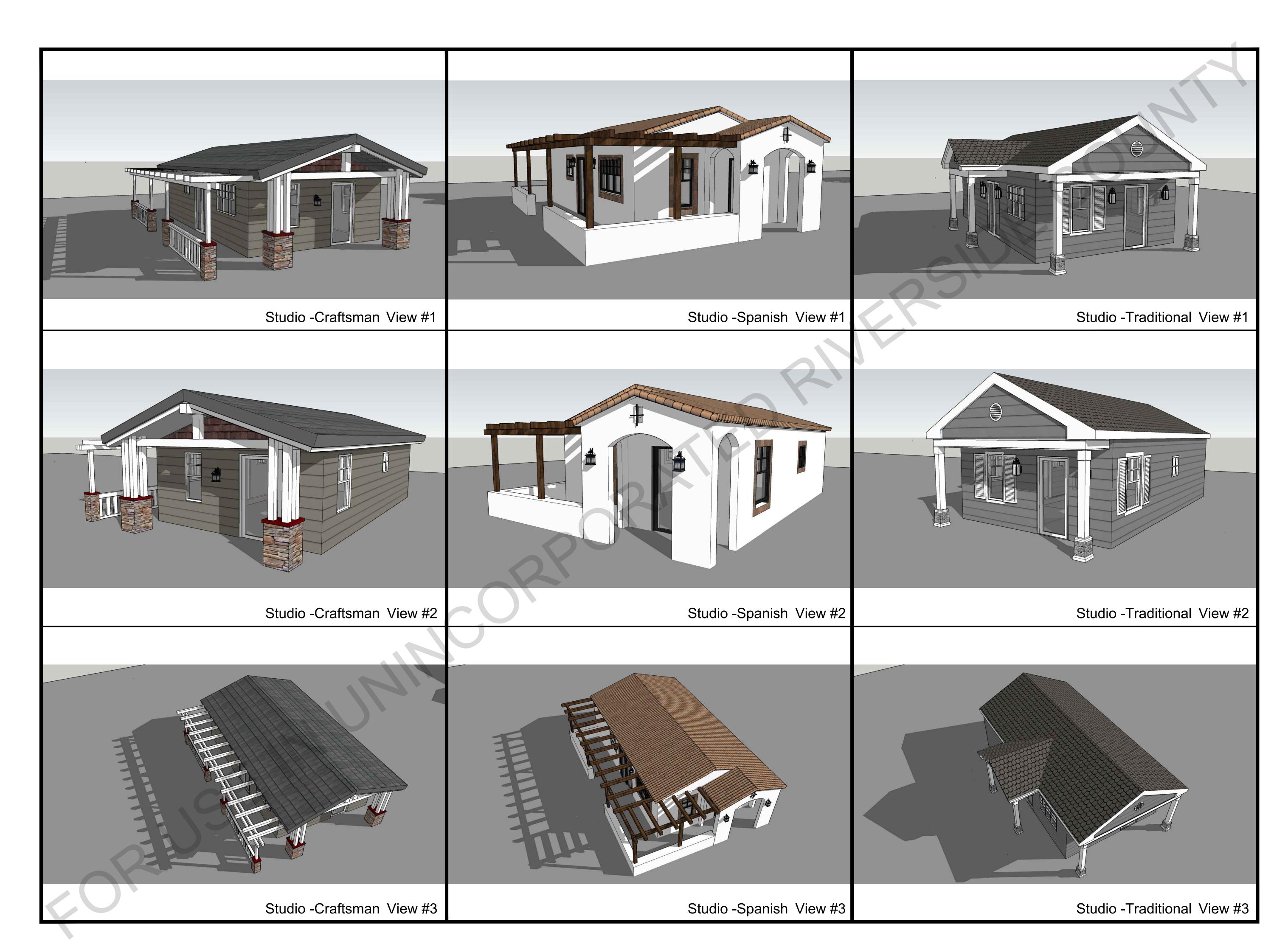
County of Riverside Pre-Approved ADU Program

description **Exterior** Style Options

20 January 2025

project no. RIVERSIDE ADU

drawn by DESIGN PATH STUDIO



2. ALL PROPERTY CORNERS, GRADING BOUNDARIES AND ALL CONSERVATION AREAS/LEAST SENSITIVE AREA (LSA) DETERMINED BY THE ENVIRONMENTAL PROGRAMS DEPARTMENT (EPD) SHALL BE CLEARLY DELINEATED AND STAKED IN THE FIELD PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION/GRADING

3. ALL WORK UNDER THIS PERMIT SHALL BE LIMITED TO WORK WITHIN THE PROPERTY LINES. ALL WORK WITHIN THE ROAD RIGHT-OF-WAY WILL REQUIRE SEPARATE PLANS AND A SEPARATE REVIEW-APPROVAL (PERMIT) FROM THE TRANSPORTATION DEPARTMENT

4. ALL GRADING SHALL BE DONE UNDER THE SUPERVISION OF SOILS ENGINEER IN CONFORMANCE WITH THE RECOMMENDATIONS OF THE PRELIMINARY SOILS INVESTIGATION PREPARED BY

5. COMPACTED FILL TO SUPPORT ANY STRUCTURES SHALL COMPLY WITH SECTION 1803.5.8. PROJECTS WITHOUT A PRELIMINARY SOIL REPORT SHALL INCLUDE DETAILED SPECIFICATIONS IN ACCORDANCE WITH SECTIONS 1803.2 AND 1803.5 PREPARED BY THE ENGINEER OF RECORD

6. THE CONTRACTOR SHALL NOTIFY THE BUILDING AND SAFETY DEPARTMENT AT LEAST 24 HOURS IN ADVANCE TO REQUEST FINISH LOT GRADE AND DRAINAGE INSPECTION. THIS INSPECTION MUST BE APPROVED PRIOR TO BUILDING PERMIT FINAL INSPECTION FOR EACH LOT.

7. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE DIGGING AT 1-800-422-4133 8. PRIOR TO GRADING, A MEETING SHALL BE SCHEDULED WITH RIVERSIDE COUNTY ENVIRONMENTAL COMPLIANCE INSPECTOR PRIOR TO COMMENCEMENT OF GRADING OPERATIONS.

1. MAXIMUM CUT AND FILL SLOPE = 2:1 (HORIZONTAL TO VERTICAL).

2. NO FILL SHALL BE PLACED ON EXISTING GROUND UNTIL THE GROUND HAS BEEN CLEARED OF WEEDS, TOPSOIL AND OTHER DELETERIOUS MATERIAL. FILLS SHOULD BE PLACED IN THIN LIFTS (8-INCH MAX OR AS RECOMMENDED IN THE SOILS REPORT), COMPACTED AND TESTED THROUGHOUT THE GRADING PROCESS UNTIL FINAL GRADES ARE ATTAINED. ALL FILLS ON SLOPES STEEPER THAN 5 TO 2 (HORIZONTAL TO VERTICAL) AND A HEIGHT GREATER THAN 5 FEET SHALL BE KEYED AND BENCHED INTO FIRM NATURAL SOIL FOR FULL SUPPORT. THE BENCH UNDER THE TOE MUST BE 10 FEET

3. NO ROCK OR SIMILAR IRREDUCIBLE MATERIAL WITH A MAXIMUM DIMENSION GREATER THAN 12 INCHES SHALL BE BURIED OR PLACED IN FILLS CLOSER THAN 10 FEET TO THE FINISHED GRADE.

1. DRAINAGE ACROSS PROPERTY LINES SHALL NOT EXCEED THAT WHICH EXISTED PRIOR TO GRADING. EXCESS OR CONCENTRATED DRAINAGE SHALL BE CONTAINED ON SITE OR DIRECTED TO AN APPROVED DRAINAGE FACILITY. EROSION OF THE GROUND IN THE AREA OF DISCHARGE SHALL BE PREVENTED BY INSTALLATION OF NON-EROSIVE DOWN DRAINS OR OTHER DEVICES. THE GROUND SURFACE IMMEDIATELY ADJACENT TO THE BUILDING FOUNDATION SHALL BE SLOPED AWAY FROM THE BUILDING AT A SLOPE OF NOT LESS THAN ONE UNIT VERTICAL IN 20 UNITS HORIZONTAL (5-PERCENT SLOPE) FOR A MINIMUM DISTANCE OF 10 FEET MEASURED PERPENDICULAR TO THE FACE OF THE FOUNDATION,

2. NO OBSTRUCTION OF NATURAL WATER COURSES SHALL BE PERMITTED

3. PRIOR TO CONSTRUCTION OF PERMANENT DRAINAGE STRUCTURES, TEMPORARY DRAINAGE CONTROL (BEST MANAGEMENT PRACTICES, BMPS) SHALL BE PROVIDED TO PREVENT PONDING WATER AND DRAINAGE TO ADJACENT PROPERTIES

4. DUST CONTROL SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS.

5. FUGITIVE DUST CONTROL: CONSTRUCTION SITES SUBJECT TO PM10 FUGITIVE DUST MITIGATION SHALL COMPLY WITH

6. ALL EXISTING DRAINAGE COURSES AND STORM DRAIN FACILITIES SHALL CONTINUE TO FUNCTION. PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT ADJOINING PROPERTIES NPDES:

1. CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMP'S) FOR THE MANAGEMENT OF STORM WATER AND NON-STORMWATER DISCHARGES SHALL BE DOCUMENTED ON THE GRADING PLAN. ARRANGEMENTS SHALL BE MADE BY THE DEVELOPER TO RETAIN THE SWPPP ON THE JOBSITE EROSION AND SEDIMENTATION. ARRANGEMENTS SHALL BE MADE BY THE DEVELOPER TO MAINTAIN THOSE BMPS THROUGHOUT THE TIME OF CONSTRUCTION

2. EROSION CONTROL BMPS SHALL BE IMPLEMENTED AND MAINTAINED TO PREVENT AND/OR MINIMIZE THE ENTRAINMENT OF SOIL IN RUNOFF FROM DISTURBED SOIL AREAS ON CONSTRUCTION SITES.

3. SEDIMENT CONTROL BMPS SHALL BE IMPLEMENTED AND MAINTAINED TO PREVENT AND/OR MINIMIZE TRANSPORT OF SOIL FROM THE CONSTRUCTION SITE 4. GRADING SHALL BE PHASED TO LIMIT THE AMOUNT OF DISTURBED AREA EXPOSED TO THE EXTENT FEASIBLE

5. AREAS THAT ARE CLEARED AND GRADED SHALL BE LIMITED TO ONLY THE PORTION OF THE SITE THAT IS NECESSARY FOR CONSTRUCTION. THE CONSTRUCTION SITE SHALL BE MANAGED TO MINIMIZE THE EXPOSURE TIME OF DISTURBED SOIL AREAS THROUGH PHASING AND SCHEDULING OF GRADING AND THE USE OF TEMPORARY AND PERMANENT SOIL

6. ONCE DISTURBED. SLOPES (TEMPORARY OR PERMANENT) SHALL BE STABILIZED IF THEY WILL NOT BE WORKED WITHIN 21 DAYS. DURING STORM SEASON, ALL SLOPED SHALL BE STABILIZED PRIOR TO PREDICTED STORM EVENT. CONSTRUCTION SITES SHALL BE REVENGETATED AS EARLY AS FEASIBLE AFTER SOIL DISTURBANCE.

7. STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO ELIMINATE OR REDUCE SEDIMENT TRANSPORT FROM THE SITE OR STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TRACKING, OR WIND

B. CONSTRUCTION SITES SHALL BE MAINTAINED IN SUCH A CONDITION THAT A STORM DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITE. DISCHARGES OTHER THAN STORMWATER (NON-STORMWATER DISCHARGES) ARE PROHIBITED, EXCEPT AS AUTHORIZED BY AN INDIVIDUAL NPDES PERMIT, THE STATEWIDE GENERAL PERMIT-CONSTRUCTION ACTIVITY. POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS; WASTES FROM PAINTS, STAINS, SEALANTS, SOLVENTS, DETERGENTS, GLUES, LIME, PESTICIDES. HERBICIDES, FERTILIZERS, WOOD PRESERVATIVES, AND ASBESTOS FIBERS, PAIN FLAKES OR STUCCO FRAGMENTS, FUEL, OILS, LUBRICANTS, AND HYDRAULIC, RADIATOR OR BATTERY FLUIDS, CONCRETE AND RELATED CUTTING OR CURING RESIDUES: FLOATABLE WASTES: WASTES FROM ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING; WASTES FROM STREET CLEANING; AND SUPER-CHLORINATED POTABLE WATER FROM LINE FLUSHING AND TESTING, DURING CONSTRUCTION, DISPOSAL OF SUCH MATERIALS SHOULD OCCUR IN A SPECIFIED AND CONTROLLED TEMPORARY AREA ON-SITE PHYSICALLY SEPARATE FROM POTENTIAL STORMWATER RUNOFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS

9. RUNOFF FROM EQUIPMENT AND VEHICLE WASHING SHALL BE CONTAINED AT CONSTRUCTION SITE AND MUST NOT BE DISCHARGED TO RECEIVING WATERS OR LOCAL STORM DRAIN SYSTEM

10. APPROPRIATE BMPS FOR CONSTRUCTION-RELATED MATERIALS, WASTES, SPILLS OR RESIDUES SHALL BE IMPLEMENTED TO ELIMINATE OR REDUCE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTIES BY WIND OR RUNOFF.

11. ALL CONSTRUCTION CONTRACTORS AND SUBCONTRACTOR PERSONNEL ARE TO BE TRAINED IN THE IMPLEMENTATION AND USE OF THE REQUIRED BMPS AND GOOD HOUSEKEEPING MEASURES FOR THE PROJECT SITE AND ANY ASSOCIATED CONSTRUCTION STAGING AREAS AND ALL TRAINING DOCUMENTATION SHALL BE MAINTAINED IN

12. DISCHARGING CONTAMINATED GROUNDWATER PRODUCED BY DEWATERING GROUNDWATER THAT HAS INFILTRATED INTO THE CONSTRUCTION SITE IS PROHIBITED. DISCHARGING OF CONTAMINATED SOILS SURFACE EROSION IS ALSO PROHIBITED. DISCHARGING NON-CONTAMINATED GROUNDWATER PRODUCED BY DEWATERING ACTIVITIES MAY REQUIRE A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FROM THE REGIONAL WATER

13. BMPSS SHALL BE MAINTAINED AT ALL TIMES. IN ADDITION, BMPS SHALL BE INSPECTED PRIOR TO PREDICTED STORM

14. AT THE END OF EACH DAY OF CONSTRUCTION ACTIVITY, ALL CONSTRUCTION DEBRIS AND WASTE MATERIALS SHALL BE COLLECTED AND PROPERLY DISPOSED OF IN TRASH OR RECYCLE BINS

EVENTS AND FOLLOWING STORM EVENTS.

FIRE NOTES

GENERAL NOTES

AND NOTES NOT SHOWN.

FOUNDATION SETBACK.

REVIEWS AND PERMITS

1. NEW AND EXISTING BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS OR APPROVED 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 INCHES HIGH WITH A MINIMUM STROKE OF .5 INCHES. WHERE ACCESS IS BY MEANS OF A 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

SPAS, WALLS, FENCES, PATIO COVERS AND OTHER 10. PROJECTIONS, INCLUDING EAVES, MUST BE AT

ALL FIRE APPARATUS ROADS ACCESS ROADS SHALL HAVE AN UNOBSTRUCTED VERTICAL CLEARANCE OF NO LESS THAN 13 FEET 6 INCHES.

1. SEE BUILDING PLANS FOR ALL OTHER DIMENSIONS 7.

2. SEE BUILDING PLANS AND SCHEDULES FOR ALL 8.

EXTERIOR WALL FINISH TO THE PROPERTY LINE AND

NOT FROM THE OUTSIDE OF THE FOOTING (OR FACE

THE WALL FINISH THICKNESS (I.E. 7/8" STUCCO, ETC.)

THE PLANNED WALL FINISH THICKNESS TO THE 9.

OF STUDS). THE PLANS MUST BE DESIGNED WITH

MEASUREMENT. THE FIELD INSPECTOR WILL ADD

4. NEW ELECTRIC SERVICE IS TO BE LOCATED - POOLS,

5. LANDSCAPE AND IRRIGATION WATER USE SHALL

6. ADU WILL BE CONNECTED TO THE PUBLIC SEWER

HAVE WEATHER OR SOIL BASED CONTROLLERS

SYSTEM OR WILL PROVIDE A COMPLYING SEPTIC

FREESTANDING STRUCTURES REQUIRE SEPARATE

ADDED TO THE PLAN FOR THE SETBACK

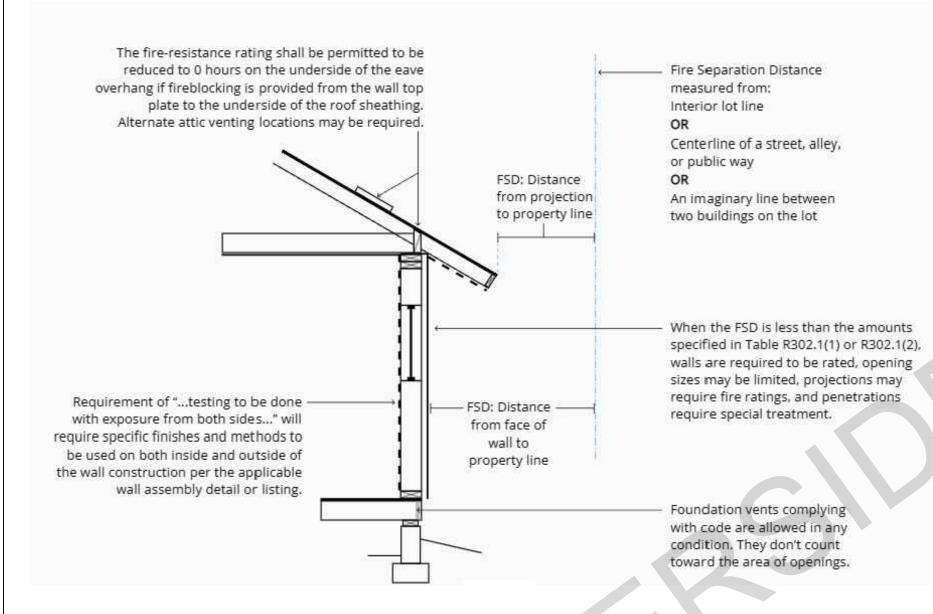
EXTERIOR DOOR AND WINDOW REFERENCES AND

3. YARD SETBACKS ARE TO BE MEASURED FROM THE

SITE NOTES

- THE APPLICANT SHALL PROVIDE A DIMENSIONED AND SCALED SITE PLAN SHOWING PROPERTY LINES, YARDS. DIMENSIONED SETBACKS, EASEMENTS, UTILITIES, STREETS, EXISTING AND PROPOSED BUILDINGS, MINIMUM SEPARATION FROM EXISTING STRUCTURES, AND FUEL MODIFICATION ZONES IF APPLICABLE
- 2. WHEN REQUIRED. THE APPLICANT SHALL IMPLEMENT SITE DESIGN STORMWATER BEST MANAGEMENT PRACTICES (BMP) AND LOW IMPACT DEVELOPMENT (LID) CONCEPTS SUCH AS IMPERVIOUS AREA DISPERSION, DRAINAGE TO NATURAL VEGETATION, REDUCTION IN IMPERVIOUS SURFACES, BREAKING UP HARDSCAPE AREA, ETC. SEE OPTION 'A' OR 'B'.
- 3. PER COUNTY OF RIVERSIDE MUNICIPAL CODE 17.56 GRADING & EROSION CONTROL SHOULD THE PROJECT SCOPE DISTURB 50 CUBIC YARDS THE APPLICANT WILL REQUIRE TO SUBMIT TO THE ENGINEERING DIVISION A GRADING PERMIT. PERMIT REGULATIONS AND SUBMITTAL REQUIREMENTS CAN BE OBTAINED FROM THE COUNTY AT THE TIME OF BUILDING PERMIT APPLICATION SUBMISSION.
- 4. THE SUBMISSION OF ANY BUILDING, GRADING AND/OR DEVELOPMENT APPLICATIONS/PLANS SHALL INCLUDE ADEQUATE PROVISIONS TO PREVENT THE DISCHARGE OF POLLUTANTS BOTH ON AND OFF A CONSTRUCTION SITE. AT A MINIMUM THESE PROVISIONS SHALL INCLUDE: (1) FOR SITES THAT INCLUDE GROUND DISTURBING ACTIVITIES APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES; AND (2) SOIL STABILIZATION MEASURES; (3) WHERE PUMPING OF GROUND WATER MAY BE NECESSARY THE INCLUSION OF APPROPRIATE DEWATERING CONTROL MEASURES; (4) SITE-SPECIFIC SOURCE CONTROLS TO PREVENT THE RELEASE AND DISCHARGE OF ANY POLLUTANTS; AND (5) APPROPRIATE POLLUTION PREVENTION CONTROL MEASURES TO PREVENT THE RELEASE AND DISCHARGE OF ANY POLLUTANTS PER INDUSTRY ACCEPTABLE STANDARDS AS DEEMED APPROPRIATE BY THE COUNTY

WALL AND PROJECTION SEPARATION REQUIREMENTS TO PROPERTY LINES AND ADJACENT BUILDINGS



PLEASE NOTE: NOT ALL ELEVATIONS IN THESE PERMIT READY ADU PLANS COMPLY WITH 25% MAX OPENINGS RULE FOR NON-SPRINKLERED BUILDING AND THEREFORE A MINIMUM SEPARATION OF 5' TO THE PROPERTY LINE WOULD BE REQUIRED AND MINIMUM10' TO ADJACENT BUILDINGS (FOR NON-SPRINKLERED BUILDINGS).

WALLS OF UNSPRINKLERED BUILDINGS BETWEEN 5 AND 3 FEET TO PROPERTY LINES SHALL BE ONE-HOUR RATED CONSTRUCTION AND HAVE A MAXIMUM OF 25% OF UNPROTECTED/PROTECTED OPENINGS. [CRC TABLE R302.1(1)]

WALLS OF UNSPRINKLERED BUILDINGS CLOSER THAN 3 FEET TO PROPERTY LINES SHALL BE ONE-HOUR RATED CONSTRUCTION AND HAVE NO OPENING. [CRC TABLE R302.1(1)]

PROJECTIONS, INCLUDING EAVES, SHALL BE ONE-HOUR FIRE-RESISTIVE CONSTRUCTION, HEAVY TIMBER OR OF FRT WOOD IF THEY PROJECT INTO THE 3/5 FOOT (SPRINKLERED /UNSPRINKLERED) SETBACK AREA FROM THE PROPERTY LINE. THEY MAY PROJECT A MAXIMUM OF 12 INCHES BEYOND THE 3 FOOT SETBACK. [CRC TABLES R302.1(1) AND R302.1(2), WITH **EXCEPTIONS**]

THE APPLICANT SHALL PROVIDE A DIMENSIONED AND SCALED SITE PLAN SHOWING PROPERTY LINES, YARDS, DIMENSIONED SETBACKS, EASEMENTS, UTILITIES, STREETS, EXISTING AND PROPOSED BUILDINGS, MINIMUM SEPARATION FROM EXISTING STRUCTURES, AND FUEL MODIFICATION ZONES IF APPLICABLE. SEE EXAMPLE SITE PLAN IN THIS SET FOR REFERENCE

THE APPLICANT SHALL IMPLEMENT SITE DESIGN STORMWATER BEST MANAGEMENT PRACTICES (BMP) AND LOW IMPACT DEVELOPMENT (LID) CONCEPTS SUCH AS IMPERVIOUS AREA DISPERSION, DRAINAGE TO NATURAL VEGETATION, REDUCTION IN IMPERVIOUS SURFACES, BREAKING UP HARDSCAPE AREA, ETC. APPLICANT IS REQUIRED TO INCORPORATE THESE CONCEPTS WITH NEW CONSTRUCTION

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

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

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

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

MINIMUM EXTERIOR MINIMUM FIRE-RESISTANCE RATING WALL ELEMENT SEPARATION DISTANCE 1 hour—tested in accordance with ASTM E119, UL 263 or Section 703.3 resistance of the California Building Code with exposure from both sides Walls Not fire-≥ 5 feet resistance 0 hours Not allowed < 2 feet Fire-1 hour on the underside, or heavy ≥ 2 feet to < 5 timber, or fireresistance retardant-treated wooda, b Projections rated Not fireresistance 0 hours rated < 3 feet Not allowed NA 25% Openings i maximum o 0 hours wall area

TABLE R302.1(1)

EXTERIOR WALLS

TABLE R302.1(2) EXTERIOR WALLS—DWELLINGS AND ACCESSORY BUILDINGS WITH AUTOMATIC RESIDENTIAL FIRE SPRINKLER PROTECTION

0 hours

Comply with Section R302.4

None required

Unlimited

Penetrations

	RIOR LEMENT	MINIMUM FIRE-RESISTANCE RATING	MINIMUM FIRE SEPARATION DISTANCE			
Walls	Not fire- resistance 0 hours					
	white with the control of	0 hours	3 feet ^a			
	Not allowed	NA	< 2 feet			
Projections	Fire- resistance rated	1 hour on the underside, or heavy timber, or fire- retardant-treated wood ^{b, c}	2 feet ^a			
	Not fire- resistance rated	0 hours	3 feet			
Openings in	Not allowed	NA	< 3 feet			
walls	Unlimited	0 hours	3 feet ^a			
D	7.0	Comply with Section R302.4	< 3 feet			
Penetrations	All	None required	3 feet ^a			

FOLLOWING CONDITIONS:

5 feet

< 3 feet

3 feet

BY USING THESE PERMIT READY CONSTRUCTION

RESTRICTED TO THE ORIGINAL PROJECT FOR WHICH

ACCESSORY DWELLING UNIT (ADU) PROGRAM FOR

LIMITED SET OF STANDARDIZED ADU PLANS AND

SPECIFICATIONS APPROVED BY THE COUNTY OF

DO CHANGE OVER TIME AND RECIPIENT SHALL

THEN IN EFFECT AT THE TIME OF THE SUBJECT

RECIPIENT'S RESPONSIBILITY TO VERIFY ANY AND

ALL INFORMATION RELEVANT TO THE RECIPIENT'S

DESIGN PATH STUDIO SHALL NOT BE RESPONSIBLE FOR TRANSLATION ERRORS. DO NOT USE THESE

CONSTRUCTION DOCUMENTS IF THE PERMIT HAS

. THE RECIPIENT RECOGNIZES AND ACKNOWLEDGE

THAT THE USE OF THIS INFORMATION WILL BE AT

THEIR SOLE RISK AND WITHOUT ANY LIABILITY OF

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

PERMITTED BY LAW, DEFEND, INDEMNIFY AND HOLD DESIGN PATH STUDIO AND ITS ARCHITECTS

USE OF THESE CONSTRUCTION DOCUMENTS FOR

OR ON ACCOUNT OF ANY INJURY, DEATH, DAMAGI

OR LOSS TO PERSONS OR PROPERTY, DIRECT OR 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.

DOCUMENTS BY THE RECIPIENT OR BY OTHERS

WILL BE AT THE RECIPIENT'S RISK AND FULL

LEGAL RESPONSIBILITY. FURTHERMORE, THE

HARMLESS FROM ANY AND ALL CLAIMS, SUITS

LIABILITY, DEMANDS, JUDGMENTS, OR COSTS ARISING OUT OF OR RESULTING THERE FROM AN

INDEMNITY DOES NOT APPLY TO THE SOLE

ARE COPYRIGHTED AND ARE SUBJECT TO

CONSTRUCTION OF AN ADU OR OTHER

PATH STUDIO OR ITS ARCHITECTS.

COPYRIGHT PROTECTION.

RECIPIENT WILL, TO THE FULLEST EXTENT

USE, REUSE, OR ALTERATION OF THESE

WORK AND RESPONSIBILITY ON THIS PROJECT.

EXPIRED OR IS REVOKED AT ALL.

PERMIT. THIS DOES NOT ELIMINATE OR REDUCE THE

ENSURE FULL COMPLIANCE UNDER ALL CODES

/ERSIDE BUILDING DEPARTMENT. BUILDING CODES

DOCUMENTS. THE RECIPIENT ACKNOWLEDGES.

IT WAS PREPARED FOR THE PERMIT READY

THE COUNTY OF RIVERSIDE ONLY. THIS IS A

ACCEPTS AND VOLUNTARILY AFFIRMS TH

1. THE USE OF THIS INFORMATION IS

description

project no. RIVERSIDE ADU

drawn by design path studio

GREEN BUILDING CODE NOTES

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

FIRE ACCESS ROADWAYS

WIDE PER LANE.

SURFACE FIRE APPARATUS ACCESS ROADS SHALL BE

PROVIDE ALL-WEATHER DRIVING CAPABILITIES.

DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED

GATED ENTRANCES WITH CARD READERS, GUARD STATIONS

OF ONE-WAY TRAFFIC, SHALL BE NOT LESS THAN 14 FEET

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

OR CENTER MEDIANS, WHICH WILL HAVE SEPARATED LANES

SHALL BE PROVIDED WITH AN APPROVED PACED SURFACE TO

PRIOR TO INITIAL INSPECTION BY THE BUILDING DEPT. 2. 65 % OF CONSTRUCTION WASTE IS TO BE RECYCLED.

3. SITE PLAN SHALL PROVIDE DIMENSIONS SHOWING REQUIRED

LESS THAN 24 FEET.

CAL-OSHA PERMIT IS REQUIRED FOR EXCAVATIONS

A DIMENSIONED SITE PLAN DRAWN TO SCALE SHALL

NORTH ARROW, PROPERTY LINES, EASEMENTS,

STRUCTURES, LOCATION OF YARDS USED FOR

DIMENSIONED SETBACKS, MINIMUM SEPARATION

IF A GRADING PLAN IS REQUIRED, INCORPORATE THE

ENTIRE APPROVED GRADING PLAN/IMPROVEMENT

PLAN (ALL SHEETS) WITH THE BUILDING PLANS.

ALLOWABLE INCREASE OF BUILDING AREA.

FROM EXISTING STRUCTURES AND FUEL

MODIFICATION ZONES PER UNIFORM

ADMINISTRATIVE CODE SECTION 302.

LEAST 24" FROM PROPERTY LINES.

BE PROVIDED SHOWING THE FOLLOWING:

DEEPER THAN 5' AND SHORING AND UNDERPINNING.

STREETS, EXISTING AND PROPOSED BUILDINGS, AND

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.

OF 16 FEET OF UNOBSTRUCTED IMPROVED WIDTH.

HIGH FIRE HAZARD SEVERITY ZONE SHALL HAVE MINIMUM OF

SINGLE-FAMILY RESIDENTIAL DRIVEWAYS SERVING NO MORE

THAN TWO SINGLE-FAMILY DWELLING SHALL HAVE A MINIMUM

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

ACCESS EASEMENT.

CONTRACTOR BY ONE OF THE LISTED METHODS LISTED IN CGC SECTION 4.503.3

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.

9. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN TO THE JURISDICTION AGENCY THAT REGULATES WASTE MANAGEMENT, PER CGC 4,408,2.

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 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

12. BATHROOM FANS SHALL BE ENERGY STAR RATED, VENTED DIRECTLY TO THE OUTSIDE AND CONTROLLED BY A HUMIDISTAT.

DIVISION 2 - SITEWORK

PERSONNEL. (CFC SECTION 503.6 AMENDMENT)

1. SITE PREPARATION
PROJECT IS TO BE STAKED OUT FOR OWNER APPROVAL BEFORE FOR EARTHWORKIS TO
RECIN

2. SITE CLEARING CONTRACTOR WILL VERIFY WITH OWNER ALL PLANTING TO BE REMOVED PRIOR TO

STARTING WORK. 3. LINES AND LEVELS THE CONTRACTOR WILL VISIT THE SITE AND EVALUATE GRADE CONDITION. FOR BIDDING

PURPOSES, THE CONTRACTOR WILL CALCULATE HIS OWN CUT AND FILL QUANTITIES BASED ON THE SITE PLAN.

4. SHORING IS TO BE PROVIDE AS REQUIRED

4. SECURITY GATES: AN AUTOMATIC GATE ACROSS A FIRE ACCESS ROADWAY OR DRIVEWAY

OVERRIDING ALL COMMAND FUNCTIONS AND OPENING THE GATE. WHERE THIS SECTION

REQUIRES AN APPROVED KEY-OPERATED SWITCH, IT MAY BE DUAL-KEYED OR EQUIPPED

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

SHALL BE EQUIPPED WITH AN APPROVED EMERGENCY KEY-OPERATED SWITCH

WITH DUAL SWITCHES PROVIDED TO FACILITATE ACCESS BY LAW ENFORCEMENT

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

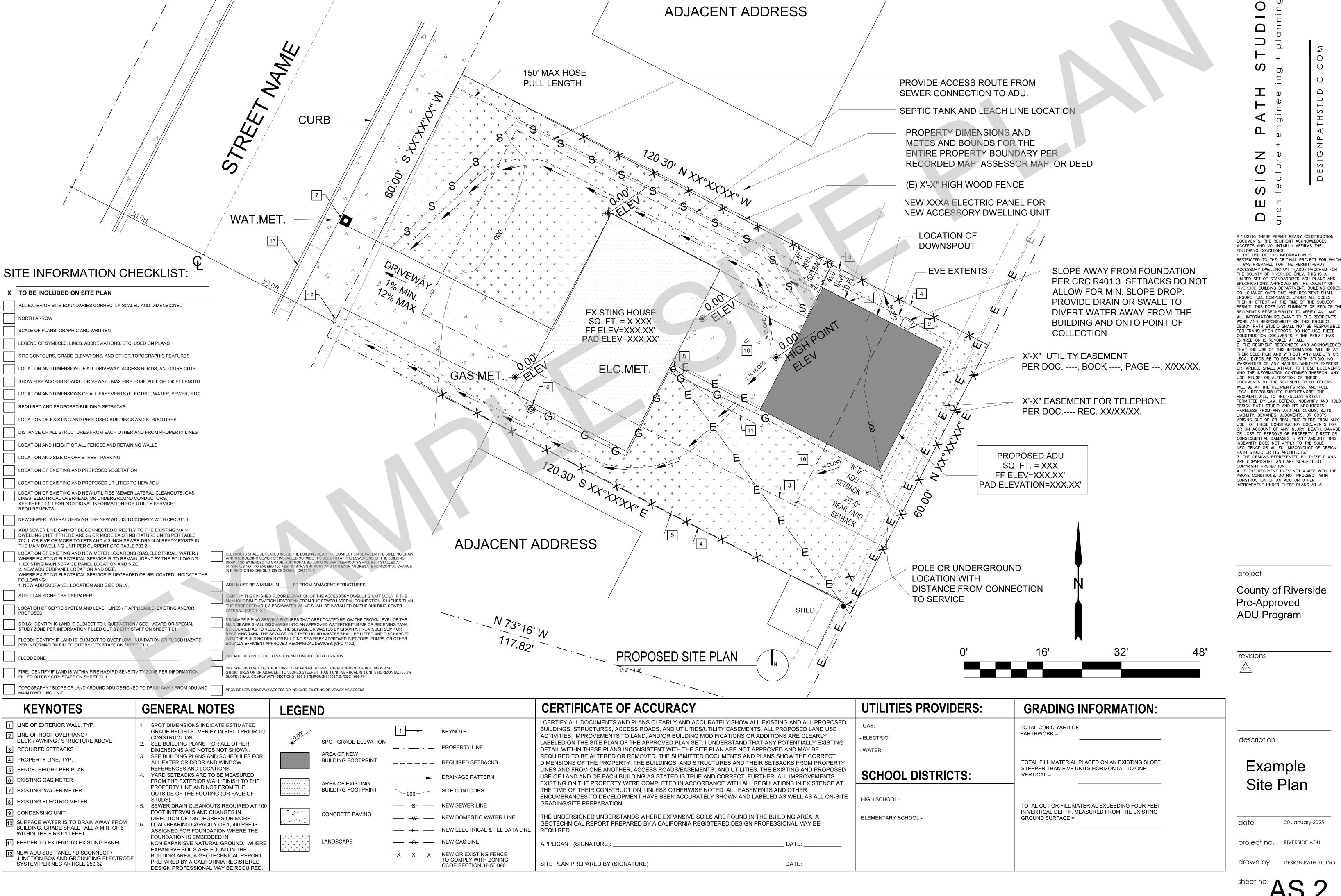
DISTANCE OF 5'-0". LOT DRAINAGE TO AVOID POOLING AT BUILDING.

County of Riverside Pre-Approved revisions

Information

20 January 2025

BLEEDING, SHRINKAGE AND CURLING SHALL BE USED. 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



BY USING THESE PERMIT READY CONSTRUCTION

DOCUMENTS, THE RECIPIENT ACKNOWLEDGES,

ACCEPTS AND VOLUNTARILY AFFIRMS TH

RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER,

4.303.1.3.1 Single Showerhead. Showerheads shall have a maximum flow rate of not more than 1.8

WaterSense Specification for Showerheads.

allow one shower outlet to be in operation at a time.

Note: A hand-held shower shall be considered a showerhead.

gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA

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

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. 4.504.3.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 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. **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

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 management district rules apply: 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

(Emission testing method for California Specification 01350)

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)

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

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

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

4. Programs sponsored by manufacturing organizations.

performance contractors, and home energy auditors.

4. Other programs acceptable to the enforcing agency.

project they are inspecting for compliance with this code.

the appropriate section or identified applicable checklist.

703 VERIFICATIONS

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the

considered by the enforcing agency when evaluating the qualifications of a special inspector:

project they are inspecting for compliance with this code.

shall be closely related to the primary job function, as determined by the local agency.

1. Certification by a national or regional green building program or standard publisher.

3. Successful completion of a third party apprentice training program in the appropriate trade.

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

this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the

employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with

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

Note: Special inspectors shall be independent entities with no financial interest in the materials or the

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not

documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in

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

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

2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building

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

2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate

5. Other programs acceptable to the enforcing agency.

DIVISION 4.5 ENVIRONMENTAL QUALITY (continued)

by the enforcing agency. Documentation shall include at least one of the following:

0121, CSA 0151, CSA 0153 and CSA 0325 standards.

5. Other methods acceptable to the enforcing agency.

by or before the dates specified in those sections, as shown in Table 4.504.5

1. Product certifications and specifications.

CCR, Title 17, Section 93120, et seq.).

Chain of custody certifications.

4.505 INTERIOR MOISTURE CONTROL

4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, particleboard and medium density fiberboard

formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.),

4.504.5.1 Documentation. Verification of compliance with this section shall be provided as requested

3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see

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

composite wood products used on the interior or exterior of the buildings shall meet the requirements for

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

1. THE USE OF THIS INFORMATION IS RESTRICTED TO THE ORIGINAL PROJECT FOR WHICH T WAS PREPARED FOR THE PERMIT READY ACCESSORY DWELLING UNIT (ADU) PROGRAM FOR THE COUNTY OF RIVERSIDE ONLY. THIS IS A LIMITED SET OF STANDARDIZED ADU PLANS AND SPECIFICATIONS APPROVED BY THE COUNTY OF ERSIDE BUILDING DEPARTMENT. BUILDING CODES 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 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 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. . THE DESIGNS REPRESENTED BY THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION. 4. IF THE RECIPIENT DOES NOT AGREE WITH THE CONSTRUCTION OF AN ADU OR OTHER IMPROVEMENT UNDER THESE PLANS AT ALL.

project

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

revisions

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.

1. Directions to the owner or occupant that the manual shall remain with the building throughout the

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

a. Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major

2. Operation and maintenance instructions for the following:

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

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

appliances and equipment.

 Landscape irrigation systems. e. Water reuse systems.

description

20 January 2025

project no. RIVERSIDE ADU

- 2. 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
- 4. VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE AND STAKE OUT STRUCTURE FOR OWNER'S APPROVAL PRIOR TO STARTING ANY WORK.

OF RIVERSIDE

- 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 RIVERSIDE 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 COUNTY FOR REVIEW AND APPROVAL.
- 9. 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 COUNTY FOR REVIEW AND APPROVAL PRIOR TO BUILDING PERMIT ISSUANCE.
- 10. 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 COUNTY 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 R902.4.
- 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.
- 3. 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. WHERE ONLY AIR-IMPERMEABLE IS PROVIDED, IT SHALL BE APPLIED IN DIRECT CONTACT WITH UNDERSIDE OF THE STRUCTURAL ROOF SHEATHING.
b. WHERE AIR-PERMEABLE INSULATION IS INSTALLED DIRECTLY BELOW THE STRUCT. SHEATHING, RIGID BOARD OR SHEET INSULATION SHALL BE INSTALLED DIRECTLY ABOVE THE STRUCTURAL ROOF SHEATHING w/ MIN. R VALUE BASED ON CLIMATE ZONE PER TABLE R806.5.
c. WHERE BOTH AIR-IMPERMEABLE AND AIR-PERMEABLE INSULATION SHALL BE APPLIED IN DIRECT CONTACT WITH THE UNDERSIDE OF THE STRUCT. ROOF SHEATHING w/ MIN. R VALUE BASED ON CLIMATE ZONE PER TABLE R806.5.FOR CONDENSATION CONTROL.

FLOOR PLAN NOTES

- . 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.
- 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, FLECTRICAL, AND SPRINKLER FOLIPMENT, IF
- 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.
- 12. 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)
- 4. 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 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.
- 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.
- 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 4.505.3
 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
- 3. 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
- 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 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 SEE SHEET A5.3 FOR AGING IN PLACE DETAILS 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
- RÉINFORCEMENT 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

- CARBON MONOXIDE ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL DWELLING UNIT. [CRC R315.5] CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHERE SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND, WHERE PRIMARY POWER IS INTERRUPTED, SHALL RECEIVE POWER FROM A BATTERY. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN THOSE REQUIRED FOR OVERCURRENT PROTECTION. [CRC R315.6] 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 R303.3.1)
- 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
- SUPPLY AND RETURN AIR DUCTS TO BE INSULATED AT A MIN. 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)
- 8. THE MAX. AMOUNT OF WATER CLOSETS ON A 3" HORIZONTAL DRAINAGE SYSTEM LINE IS 5 (CPC TABLE 703.2)
- THE MAX. AMOUNT OF WATER CLOSETS ON A 3" VERTICAL DRAINAGE LINE IS 5. (CPC TABLE 703.2)

 PROVIDE GAS LINES WITH A MN. CAPACITY OF 200,000BTU FOR
- 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).
- 4. EXHAUST DUCTS AND DRYER VENTS SHALL BE EQUIPPED WITH BACK DRAFT DAMPERS
- ALL EXHAUST FANS SHALL BE SWITCHED SEPARATELY FROM LIGHTING SYSTEMS. (CENC 150(K) 2B)
- 6. 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.
- 17. 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.
- ALL HOSE CONNECTIONS SHALL BE EQUIPPED WITH NON-REMOVABLE BACK FLOW PREVENTERS. [CPC 603.3.3]

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
- 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- AMP 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 BE ON A DIMMER SWITCH OR THE FIXTURE NEEDS TO BE HIGH EFFICACY.
- OUTDOOR LIGHTING FIXTURES ARE REQUIRED TO BE HIGH EFFICACY OR CONTROLLED BY A COMBINATION PHOTOCONTROL / MOTION SENSOR.
- 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 1 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)
- 4. PROVIDE A DEDICATED CIRCUIT FOR THE A.C./FAU (CEC 422.12)
- 15. TWO OR MORE SMALL-APPLIANCE 20-AMPERE BRANCH CIRCUITS SHALL BE PROVIDED FOR RECEPTACLES INSTALLED IN A KITCHEN TO SERVE COUNTERTOP SURFACES. [CEC 210.52(B)(3) & CEC 210.11(C)(1)] IN DWELLING UNITS IN ALL AREAS SPECIFIED IN 210.52, ALL 15- AND 20-AMPERE, 125- AND 250-VOLT NONLOCKING-TYPE RECEPTACLES SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES. [CEC 406.12]

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 DESCRIPTION OF THE ORDER OF THE PROPERTY OF
- 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.
- 8. DOORBELL BUTTON MUST BE INSTALLED NO MORE THAN 48 INCHES FROM EXTERIOR FLOOR.
- 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 CALLEDRING 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."

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ACCEPTS AND VOLUNTARILY AFFIRMS TH . 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 THE COUNTY OF RIVERSIDE ONLY. THIS IS A LIMITED SET OF STANDARDIZED ADU PLANS AND SPECIFICATIONS APPROVED BY THE COUNTY OF ERSIDE BUILDING DEPARTMENT. BUILDING CODES CHANGE OVER TIME AND RECIPIENT SHALI ENSURE FULL COMPLIANCE UNDER ALL CODES THEN IN EFFECT AT THE TIME OF THE SUBJECT PERMIT. THIS DOES NOT ELIMINATE OR REDUCE TH 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 CONSTRUCTION DOCUMENTS IF THE PERMIT HAS EXPIRED OR IS REVOKED AT ALL THE RECIPIENT RECOGNIZES AND ACKNOWLEDGE THAT THE USE OF THIS INFORMATION WILL BE AT THEIR SOLE RISK AND WITHOUT ANY LIABILITY O 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, DAMAGI 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. THE DESIGNS REPRESENTED BY THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION. 4. IF THE RECIPIENT DOES NOT AGREE WITH THE CONSTRUCTION OF AN ADU OR OTHER

BY USING THESE PERMIT READY CONSTRUCTION

DOCUMENTS. THE RECIPIENT ACKNOWLEDGES.

project

County of Riverside Pre-Approved ADU Program

IMPROVEMENT UNDER THESE PLANS AT ALL.

description

General Notes

date 20 January 2025

project no. RIVERSIDE ADU

drawn by design path studio

G0.2

SECTION R337 - MATERIALS AND CONSTRUCTION METHODS FOR EXTERIOR WILDFIRE EXPOSURE

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 CRC. **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:

- R337.5.2 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.
- R337.5.3 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.
- R337.5.4 ROOF GUTTER. ROOF GUTTERS SHALL BE PROVIDED WITH THE MEANS TO PREVENT THE ACCUMULATION OF LEAVES AND DEBRIS IN THE GUTTER
- R337.6 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
- R337.6.2.1 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.
- R337.7.3 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 R337.7.4:
 - 1. NONCOMBUSTIBLE MATERIAL 2. IGNITION- RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION R337.4.2. 3. FIRE-RETARDANT-TREATED WOOD. THE FIRE-RETARDANT-TREATED WOOD SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF
- R337.7.3.1 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.

SECTION 2303.2.

- 8. R337.7.4 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 R337.7.3:**
 - 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 R337.7.4.1.
 - 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
- R337.7.5 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 R337.4.2
 - 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 $\frac{1}{8}$ " TYPE X GYPSUM SHEATHING APPLIES BEHIND AN EXTERIOR COVERING ON THE UNDERSIDE EXTERIOR OF THE ROOF
 - 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 R337.7.5: THE FOLLOWING MATERIALS DO NOT REQUIRE PROTECTION: FASCIA AND OTHER ARCHITECTURAL TRIM BOARDS

- 10. R337.7.6 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:
 - 1. NONCOMBUSTIBLE MATERIAL 2. IGNITION- RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION R337.4.2
 - 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 R337.7.11 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 R337.7.11 WHEN TESTED IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN SFM STANDARD 12-7A-3

EXCEPTION TO SECTION R337.7.6: THE FOLLOWING MATERIALS DO NOT REQUIRE PROTECTION:FASCIA AND OTHER ARCHITECTURAL TRIM BOARDS

- 11. R337.7.7 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 R337.4.2 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 OR CLADDING ON THE
- 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
- FIRE RESISTANCE DESIGN MANUAL 7. PORCH CEILING ASSEMBLIES WITH A HORIZONTAL UNDERSIDE THAT MEET THE PERFORMANCE CRITERIA IN SECTION R337.7.11 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 SFM STANDARD 12-7A-3

EXCEPTION TO SECTION R337.7.7: ARCHITECTURAL TRIM BOARDS DO NOT REQUIRE PROTECTION

- 12. R337.7.8 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
 - 2. IGNITION- RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION R337.4.2 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
 - 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 R337.7.10 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 R337.7.8: ARCHITECTURAL TRIM BOARDS DO NOT REQUIRE PROTECTION

- 13. R337.7.9 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 R337.4.2 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
 - 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

FLOOR PROJECTION

- FIRE RESISTANCE DESIGN MANUAL. 7. THE UNDERSIDE OF A FLOOR ASSEMBLY THAT MEETS THE PERFORMANCE CRITERIA IN SECTION R337.7.11 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 R337.7.9: 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.

FIRE SPRINKLER NOTES

14. R337.7.10 UNDERSIDE OF APPENDAGES. WHEN REQUIRED BY THE IF FIRE SPRINKLERS ARE REQUIRED AT PROPOSED DWELLING OR ADU THEN THE FOLLOWING NOTES APPLY. AUTOMATIC FIRE SPRINKLER SYSTEM - AN AUTOMATIC FIRE WITH THE REQUIREMENTS OF THIS CHAPTER OR THE UNDERSIDE SPRINKLER SYSTEM SHALL BE INSTALLED AS PER NFPA 13D THE OF THE EXPOSED UNDER FLOOR SHALL CONSIST OF ONE OF THE MOST CURRENT EDITION. DETAILED SPRINKLER PLANS SHALL BE

ENFORCING AGENCY THE UNDERSIDE OF OVERHANGING

MEET THE REQUIREMENTS OF SECTION R337.4.2

SHALL MEET THE REQUIREMENTS OF SECTION 2303.2

4. MATERIALS APPROVED FOR NOT LESS THAN 1-HOUR

1. NONCOMBUSTIBLE MATERIAL

THE APPENDAGE PROJECTION

FOLLOWING:

12-7A-3.

AND WELL SPIKED

6. SKYLIGHTS

7. VENTS

1. EXTERIOR WINDOWS

2. EXTERIOR GLAZED DOORS

OF SFM STANDARD 12-7A-2.

WITH ONE OF THE FOLLOWING:

RESISTANT MATERIAL

LESS THAN 3/4" THICK.

STANDARD 12-7A-1.

ACCORDING TO THE NFPA 252.

REQUIREMENTS:

THICK.

APPENDAGES SHALL BE ENCLOSED TO GRADE IN ACCORDANCE

2. IGNITION- RESISTANT MATERIAL. THE IGNITION-RESISTANT

MATERIAL SHALL BE LABELED FOR EXTERIOR USE AND SHALL

3. FIRE-RETARDANT-TREATED-WOOD. THE FIRE-RETARDANT

TREATED WOOD SHALL BE LABELED FOR EXTERIOR USE AND

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

6. THE EXTERIOR PORTION A 1- HOUR FIRE RESISTIVE

7. THE UNDERSIDE OF AN APPENDAGE ASSEMBLY THAT

8. THE UNDERSIDE OF AN APPENDAGE ASSEMBLY THAT

THE TEST PROCEDURES SET FORTH IN SFM STANDARD

AND BEAMS DO NOT REQUIRE PROTECTION WHEN

ASSOCIATION FIRE RESISTANCE DESIGN MANUAL

WHEN TESTED IN ACCORDANCE WITH THE TEST

PROCEDURES SET FORTH IN ASTM E2957.

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

MEETS THE PERFORMANCE CRITERIA IN SECTION R337.7.11

MEETS THE PERFORMANCE CRITERIA IN ACCORDANCE WITH

EXCEPTION TO SECTION R337.7.10: STRUCTURAL COLUMNS

CONSTRUCTED WITH SAWN LUMBER OR GLUE-LAMINATED

4 INCHES. SAWN OR GLUE-LAMINATED PLANKS SHALL BE

15. R337.8.2 EXTERIOR GLAZING. THE FOLLOWING EXTERIOR GLAZING

4. GLAZED OPENINGS WITHIN EXTERIOR GARAGE DOORS

MATERIALS AND/OR ASSEMBLIES SHALL COMPLY WITH THIS

3. GLAZED OPENINGS WITHIN EXTERIOR DOORS

16. R337.8.2.1 EXTERIOR WINDOWS AND EXTERIOR GLAZED DOOR

MINIMUM OF ONE TEMPERED PANE MEETING THE

2. BE CONSTRUCTED OF GLASS BLOCK UNITS, OR

17. R337.8.3 EXTERIOR DOORS. EXTERIOR DOORS SHALL COMPLY

CORE WOOD THAT COMPLY WITH 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

3. THE EXTERIOR DOOR SHALL BE CONSTRUCTED OF SOLID

3.1 STILES AND RAILS SHALL NOT BE LESS THAN 1-3/8"

3.2 RAISED PANELS SHALL NOT BE LESS THAN 1-1/4" THICK.

EXCEPT FOR THE EXTERIOR PERIMETER OF THE PANEL

4. THE EXTERIOR DOOR SHALL HAVE A FIRE-RESISTANCE

RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED

TO MEET THE PERFORMANCE REQUIREMENTS OF SFM

TESTED IN ACCORDANCE WITH ASTM E2707.

18. R337.8.3.1 EXTERIOR DOOR GLAZING. GLAZING IN EXTERIOR

DOORS SHALL COMPLY WITH SECTION R337.8.2.1

THAT SHALL BE PERMITTED TO TAPER TO A TONGUE NOT

5. THE EXTERIOR SURFACE OR CLADDING SHALL BE TESTED

6. THE EXTERIOR SURFACE OR CLADDING SHALL BE TESTED

TO MEET THE PERFORMANCE IN SECTION R337.7.3.1 WHEN

1. BE CONSTRUCTED OF MULTI-PANE GLAZING WITH A

REQUIREMENTS OF SECTION 2406 SAFETY GLAZING, 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

5. EXTERIOR STRUCTURAL GLASS VENEERS

WOOD WITH THE SMALLEST MINIMUM NOMINAL DIMENSION OF

SPLINED, TONGUE-AND-GROOVE, OR SET CLOSE TOGETHER

SUBMITTED TO THE FIRE PREVENTION BUREAU AND APPROVED PRIOR TO INSTALLATION. PLANS AND INSTALLATION MUST BE BY A C16 LICENSED SPRINKLER CONTRACTOR. 3. SECTION R313.2.1 AN AUTOMATIC SPRINKLER SYSTEM

OR MFPA13D.

DESIGNED AND INSTALLED IN ACCORDANCE WITH SECTION R313.3

BY USING THESE PERMIT READY CONSTRUCTION DOCUMENTS. THE RECIPIENT ACKNOWLEDGES. ACCEPTS AND VOLUNTARILY AFFIRMS THE 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 THE COUNTY OF RIVERSIDE ONLY. THIS IS A LIMITED SET OF STANDARDIZED ADU PLANS AND SPECIFICATIONS APPROVED BY THE COUNTY OF VERSIDE 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 CONSTRUCTION DOCUMENTS IF THE PERMIT HAS EXPIRED OR IS REVOKED AT ALL . THE RECIPIENT RECOGNIZES AND ACKNOWLEDGE THAT THE USE OF THIS INFORMATION WILL BE AT THEIR SOLE RISK AND WITHOUT ANY LIABILITY O LEGAL EXPOSURE TO DESIGN PATH STUDIO. NO WARRANTIES OF ANY NATURE, WHETHER EXPRES 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

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

NEGLIGENCE OR WILLFUL MISCONDUCT OF DESIGN

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.

CONSTRUCTION OF AN ADU OR OTHER

LIABILITY, DEMANDS, JUDGMENTS, OR COSTS

INDEMNITY DOES NOT APPLY TO THE SOLE

PATH STUDIO OR ITS ARCHITECTS.

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

revisions

description

General Notes

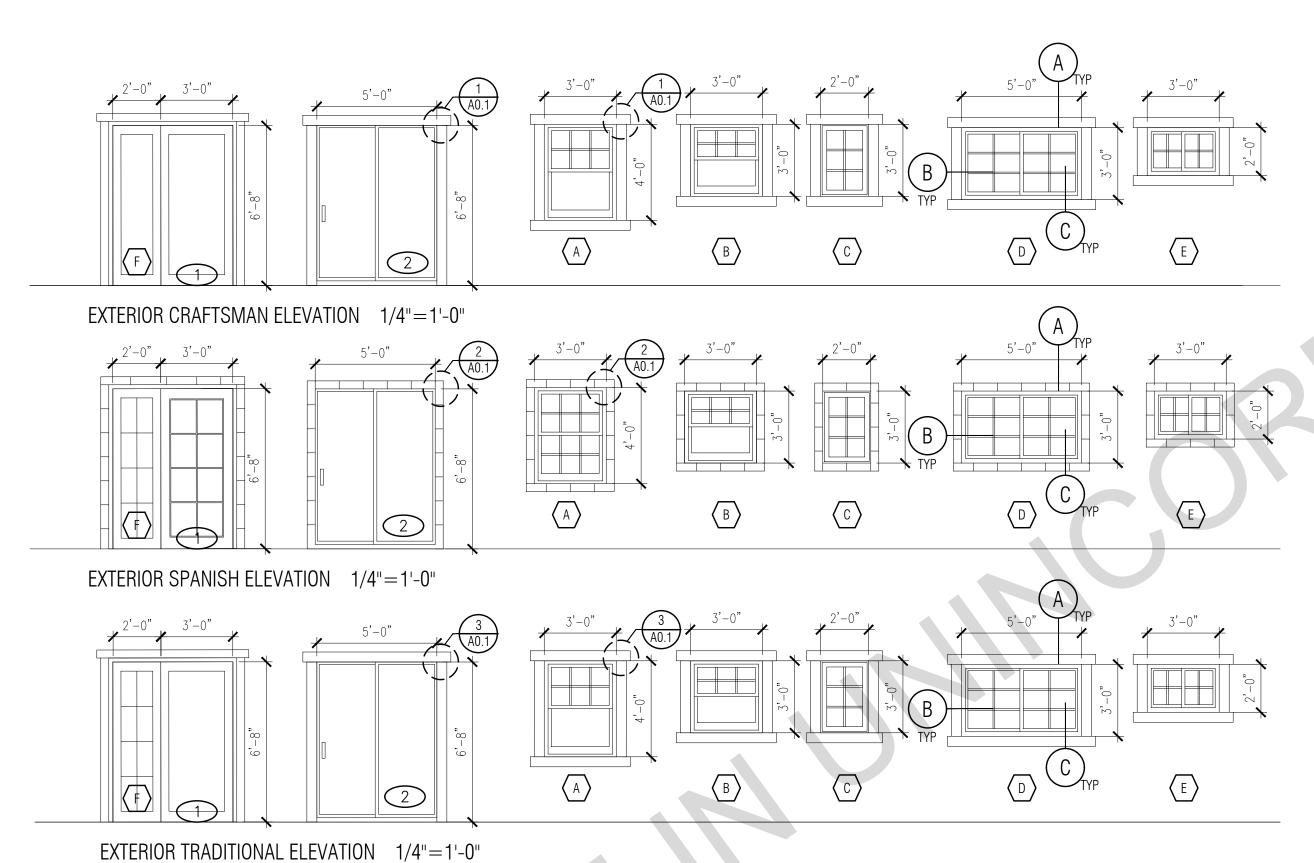
20 January 2025

project no. RIVERSIDE ADU

- DOORS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTION 116 E.E.S.
- 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 1-1/2 INCH LOWER
- THAN THE DOOR THRESHOLD. SECTION R311.3.1 CRC
- . GLAZED OPENINGS WITHIN EXTERIOR DOORS SHALL BE INSULATNG-GLASS UNITS WITH A MINIMUM OF ONE TEMPERED PANE,
- 8. THE FOLLOWING WINDOWS SHALL BE FULLY TEMPERED: (CRC R308.4) -SLIDING/SWINGING GLASS DOORS
 - -GLAZING IN WALLS AND ENCLOSURES FACING HOT TUBS, SPAS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS, SHOWERS AND SWIMMING POOLS WHERE THE GLAZING IS LESS THAN 60 INCHES ABOVE THE STANDING SURFACE WITHIN THE COMPARTMENT AND WITHIN 60 INCHES HORIZONTALLY OF THE WATER'S EDGE (CRC R308.4.5)
 - -GLAZING WITHIN A 24" ARC OF A DOOR THAT IS LESS THAN 60 INCHES ABOVE THE FLOOR. SAFETY GLAZING REQUIRED ON A WALL LESS THAN 180 DEGREES FROM THE PLANE OF THE DOOR IN A CLOSED POSITION AND WITHIN 24" OF HINGE SIDE OF AN IN-SWING DOOR. (R308.4.2) -GLAZING WHERE THE EXPOSED AREA IS GREATER THAN 9SQ.FT, BOTTOM IS LESS THAN 18 IN. AND AT LEAST 36 IN. ABOVE THE FLOOR, AND ADJACENT TO A WALKING SURFACE WITHIN 60IN. OF
 - THE BOTTOM TREAD OF A STAIRWAY AND LESS THAN 36IN. ABOVE THE LANDING -GLAZING IN GUARDS AND RAILINGS
 - -GLAZING ADJACENT TO STAIRWAYS, LANDINGS, AND RAMPS WITHIN 36IN. HORIZONTALLY OF THE WALKING SURFACE LESS THAN 36IN. ABOVE THE WALKING SURFACE
- 10. NOT USED

9. NOT USED

11. EXTERIOR HINGED DOORS FACING THE SOURCE OF NOISE MUST BE MIN. STC 40 DB 12. SLIDING GLASS DOORS NOT FACING SOURCE OF NOISE MUST BE MIN STC 35 DB. DIRECT EXPOSURE NOT PERMITTED



-GLAZING IN WALLS AND ENCLOSURES FACING HOT TUBS, SPAS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS, SHOWERS AND SWIMMING POOLS WHERE THE GLAZING IS LESS THAN 60 INCHES

-GLAZING WHERE THE EXPOSED AREA IS GREATER THAN 9SQ.FT, BOTTOM IS LESS THAN 18 IN. AND AT LEAST 36 IN. ABOVE THE FLOOR, AND ADJACENT TO A WALKING SURFACE WITHIN 60IN. OF THE

-GLAZING WITHIN A 24" ARC OF A DOOR THAT IS LESS THAN 60 INCHES ABOVE THE FLOOR. SAFETY GLAZING REQUIRED ON A WALL LESS THAN 180 DEGREES FROM THE PLANE OF THE DOOR IN A

ABOVE THE STANDING SURFACE WITHIN THE COMPARTMENT AND WITHIN 60 INCHES HORIZONTALLY OF THE WATER'S EDGE (CRC R308.4.5)

-GLAZING ADJACENT TO STAIRWAYS, LANDINGS, AND RAMPS WITHIN 36IN. HORIZONTALLY OF THE WALKING SURFACE LESS THAN 36IN. ABOVE THE WALKING SURFACE

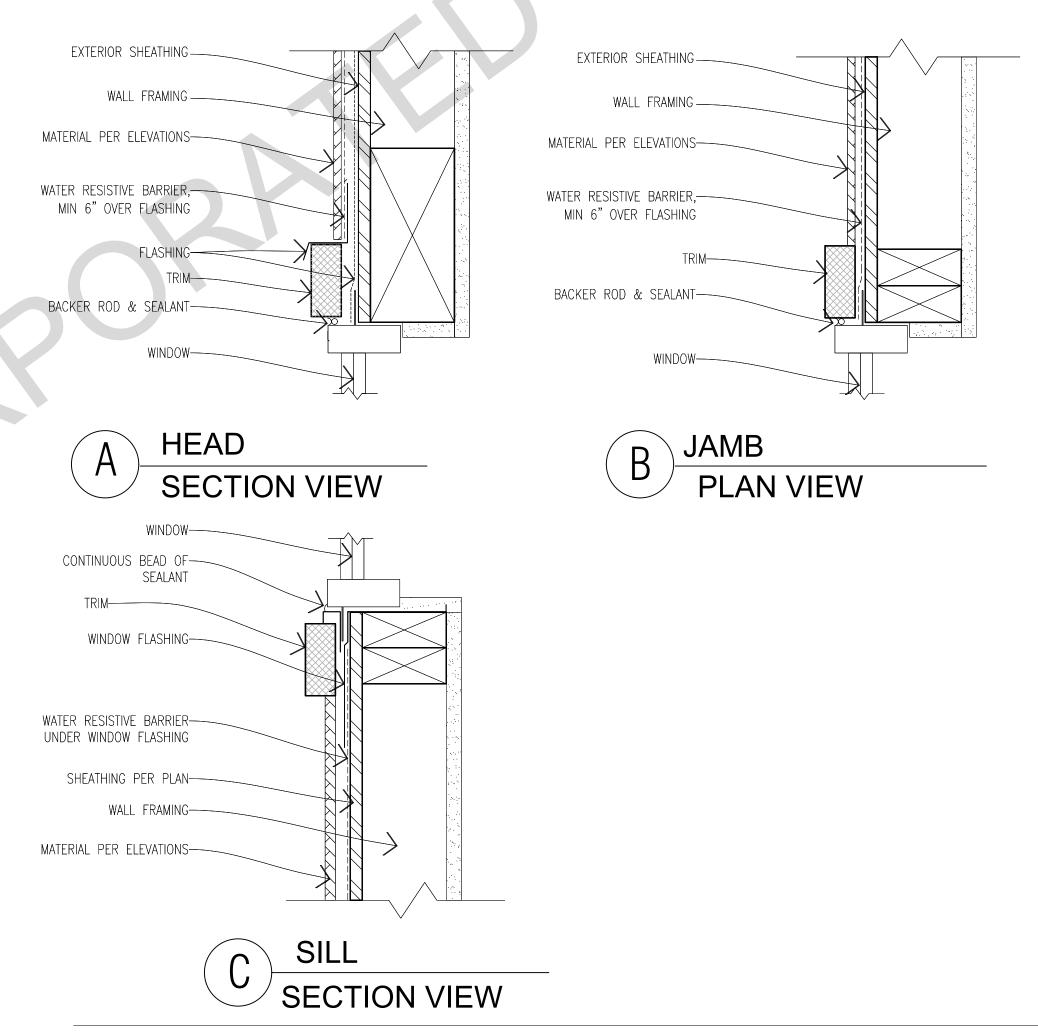
12. THE FOLLOWING WINDOWS SHALL BE FULLY TEMPERED: (CRC R308.4)

CLOSED POSITION AND WITHIN 24" OF HINGE SIDE OF AN IN-SWING DOOR. (R308.4.2)

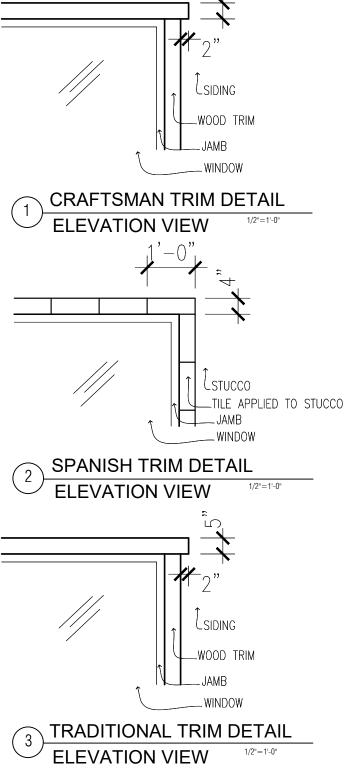
BOTTOM TREAD OF A STAIRWAY AND LESS THAN 36IN. ABOVE THE LANDING

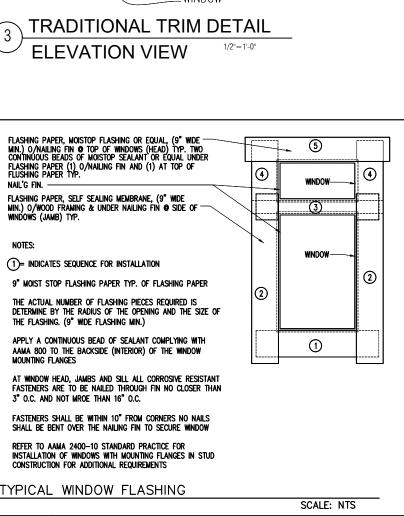
-SLIDING/SWINGING GLASS DOORS

-GLAZING IN GUARDS AND RAILINGS









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project

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

revisions

description

Window & Door Schedules

20 January 2025

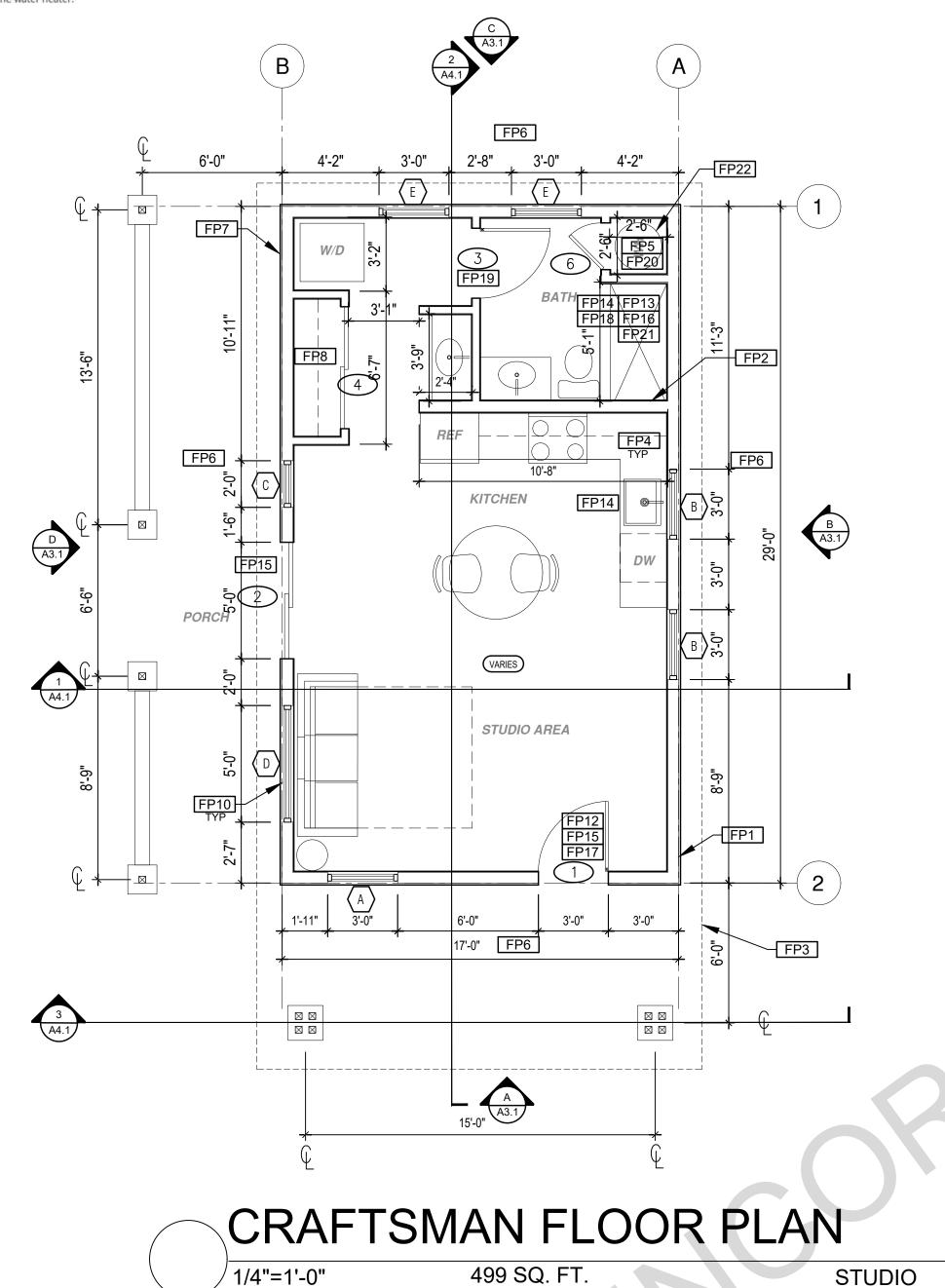
project no. RIVERSIDE ADU

drawn by DESIGN PATH STUDIO

(1) Water heater shall be of the direct vent type. [NFPA 54:10.27.1(2)]

(2) Fuel-burning water heaters shall be permitted to be installed in a closet located in the bedroom or bathroom provided the closet is equipped with a listed, gasketed door assembly and a listed self-closing device. The self-closing door assembly shall meet the requirements of Section 504.1.1. The door assembly shall be installed with a threshold and bottom door seal and shall meet the requirements of Section 504.1.2. Combustion air for such installations shall be obtained from the outdoors in accordance with Section 506.4. The closet shall be for the exclusive use of the water heater.

RP8 ROOF VENTILATION TO BE PROVIDED AND LOCATED TO CREATE PROPER CROSS VENTILATION



FP12 MIN. 1 HINGED ENTRY DOOR FOR EGRESS COMPLIANCE REQUIRED - THE EGRESS DOOR SHALL

BE SIDE-HNGED AND SHALL PROVIDE A CLEAR WIDTH

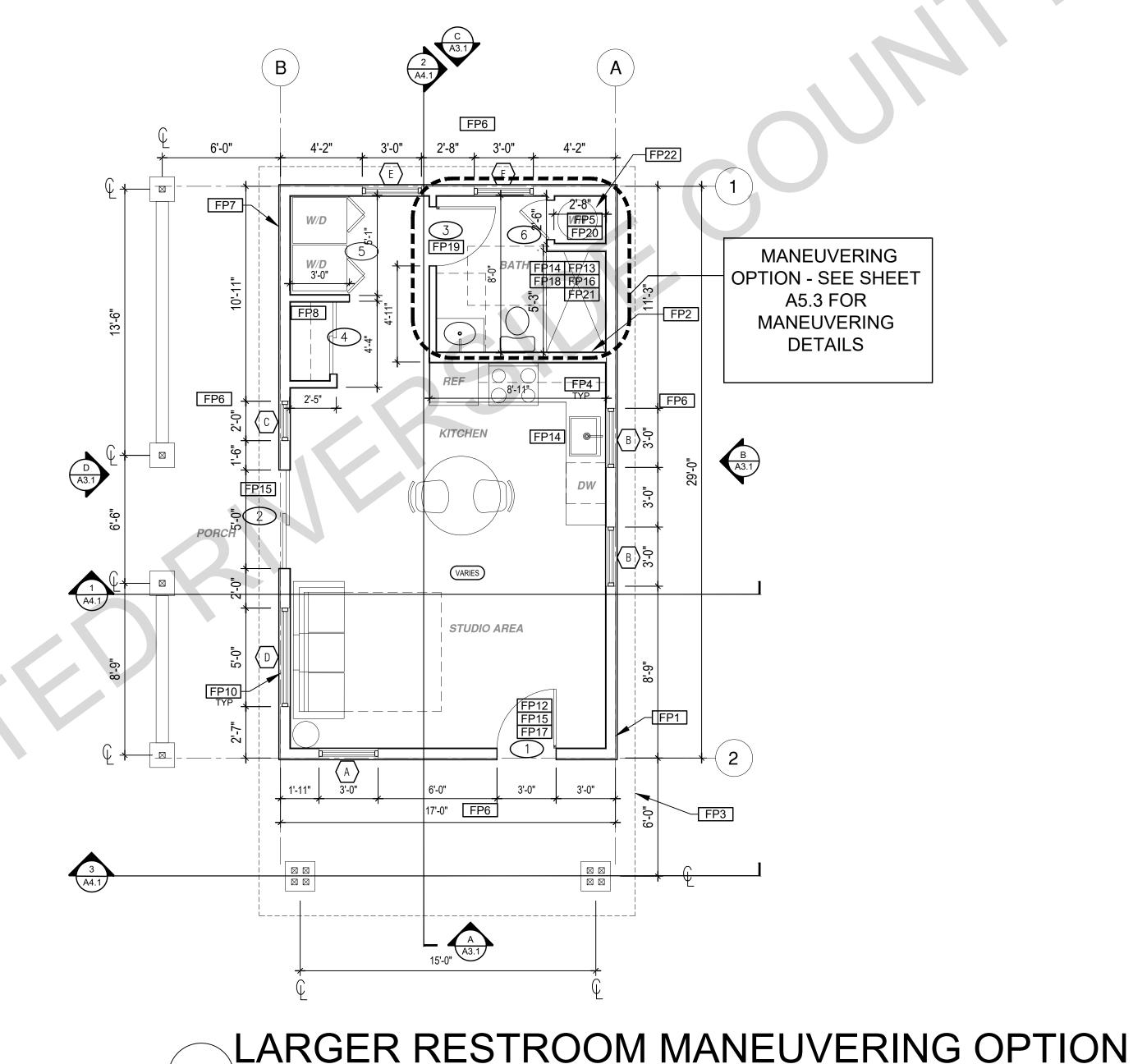
WITH THE DOOR OPEN 90°. THE CLEAR HEIGHT OF THE

DOOR OPENING SHALL BE NOT LESS THAN 78 INCHES

OF NOT LESS THAN 32 INCHES WHERE MEASURED

BETWEEN THE FACE OF THE DOOR AND THE STOP,

IN HEIGHT MEASURED FROM THE TOP OF THE THRESHOLD TO THE BOTTOM OF THE STOP



499 SQ. FT.

ROOFING

1/4"=1'-0"

ROOF VENTING: 1SF. OF ROOF VENTING PER 150 SF. OF ENCLOSED AREA OR

VENTILATION AREA REQUIRED: 499 SF./150SF.= 3.33 SF.

CONVERT TO SQ. IN: <u>3.33 SF. x 144 = 479</u> SQ. IN. MINIMUM VENTILATION AREA REQUIRED: <u>479</u> SQ. IN.

ENCLOSED RAFTER AREA.

ENCLOSED RAFTER AREA: 499 SF.

STUDIO

County of Riverside
Pre-Approved
ADU Program

revisions

description

Floor Plan

Craftsman

project

BY USING THESE PERMIT READY CONSTRUCTION

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
THE COUNTY OF RIVERSIDE ONLY. THIS IS A
LIMITED SET OF STANDARDIZED ADU PLANS AND
SPECIFICATIONS APPROVED BY THE COUNTY OF

RIVERSIDE BUILDING DEPARTMENT. BUILDING CODES DO CHANGE OVER TIME AND RECIPIENT SHALL

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

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FLOOR PLAN KEYNOTES ROOF KEYNOTES SOLAR READY NOTES LEGEND FP1 STUD WALL SIZED PER STRUCTURAL FP13 SHOWER ENCLOSURE MUST BE TEMPERED. FP16 WALL COVERING SHALL BE CEMENT PLASTER, TILE OR RP1 LINE OF ROOF OVERHANG GLAZING IN THE WALLS/DOORS FACING OR APPROVED EQUAL TO 72" ABOVE DRAIN AT SHOWERS OR SOLAR READY ROOF AREA: FP2 2X6 STUD WALL OR FURRING AS NEEDED FOR CONTAINING BATHTUBS, SHOWERS, HOT TUBS, TUB WITH SHOWERS. MATERIALS USED AS BACKERS FOR X KEYNOTE SECTION CUT MIN DIMENSION > 5FT. MIN. SF. > 80SF. MECHANICAL / PLUMBING / VENTING RP2 CLASS A ROOFING MATERIAL. SEE GENERAL ROOF NOTE SPAS, WHIRLPOOLS, SAUNAS, STEAM ROOMS AND WALL TILE IN TUBE AND REINFORCED GYPSUM PANELS, PER CALIFORNIA ENERGY CODE SECTION 110.10(b) INDOOR/OUTDOOR SWIMMING POOLS WHERE THE NON-ASBESTOS FIBER CEMENT BACKER BOARD, OR FP3 LINE OF OVERHANG ABOVE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS NON-ASBESTOS FIBER CEMENT REINFORCED THE SOLAR ZONE SHALL COMPLY WITH ACCESS, PATHWAY, SMOKE VENTILATION, RP3 SUPPORT POST BELOW THAN 60" ABOVE THE STANDING SURFACE. CEMENTITIOUS BACKER UNITS INSTALLED IN ACCORDANCE AND S[PACING REQUIREMENTS AS SPECIFIED IN TILE 24, PART 9 OR OTHER FP4 36" HIGH COUNTER **ELEVATION** DOOR SYMBOL EXCEPTION: GLAZING THAT IS MORE THAN 60", WITH MANUFACTURERS' RECOMMENDATIONS. PARTS OF TITLE 24 OR IN ANY REQUIREMENTS ADOPTED NY LOCAL JURISDICTION CALLOUT RP4 LINE OF WALLS BELOW MEASURED HORIZONTALLY, FROM THE WATER'S FP5 WATER HEATER EDGE OF A BATHTUB, HOT TUB, SPA, WHIRLPOOL SINGLE FAMILY RESIDENCE. THE SOLAR ZONE SHALL BE LOCATED ON THE ROOF FP17 DOOR BELL BUTTON TO BE NO MORE THEN RP5 ROOF DOWNSPOUT LOCATION TO BE DETERMINED BY SITE SPECIFIC CONDITIONS. ROOF GUTTERS OR SWIMMING POOL. SHOWER DOORS SHALL OPEN 8" ABOVE EXTERIOR FLOOR OR LANDING OR OVERHANG OF THE BUILDING AND HAVE A TOTAL AREA OF NO LESS THAN FP6 SLOPE SURFACE AWAY FROM BUILDING AS TO MAINTAIN NOT LESS THAN A 22-INCH WINDOW SYMBOL SHALL BE PROVIDED WITH THE MEANS TO PREVENT UNOBSTRUCTED OPENING FOR EGRESS. FP18 WATER CLOSET AND SHOWER TO HAVE DETAIL FP7 DRYER VENT TERMINATION ON EXTERIOR WALL TO THE ACCUMULATION OF LEAVES AND DEBRIS IN THE DRAWING REF. FOR PHOTOVOLTAIC ARRAYS OCCUPYING NOT MORE THAN 33 PERCENT OF THE REINFORCEMENT IN WALLS 2X8 NOMINAL AT 32" TO FP14 PER SECTION 301.1.1 CALGREEN AND CIVIL CODE BE A MINIMUM OF 3 FT FROM ANY OPENING. VENT GUTTER IN HIGH FIRE SEVERITY ZONES. PLAN VIEW TOTAL ROOF AREA, NOT LESS THAN AN 18-INCH (457 MM) CLEAR 39.5" ABOVE FINISH FLOOR. SEE FLOOR PLAN GENERAL DRYER THROUGH WALL. SEE MECHANICAL / 1101.3(c), ALL PLUMBING FIXTURES SHALL BE NOTE #28 ON SHEET G0.2 FOR FURTHER INFORMATION. SETBACK IS REQUIRED ON BOTH SIDES OF A HORIZONTAL RIDGE. FOR RP6 EXAMPLE DESIGNATED SOLAR PANEL AREA. PLEASE SEE PLUMBING PLANS FOR FURTHER INFORMATION COMPLIANT WATER -CONSERVING PLUMBING PHOTOVOLTAIC ARRAYS OCCUPYING MORE THAN 33 PERCENT OF THE PLAN VIEW WHERE THE WATER CLOSET IS NOT PLACED ADJACENT SOLAR READY NOTES ON THIS SHEET. O'HAGIN VENTS OR WALL BELOW OR _____ FIXTURES. SEE MECHANICAL / PLUMBING PLANS FOR X'-X" FP8 CLOSET SHELF AND POLE **CEILING HEIGHTS** TOTAL ROOF AREA, NOT LESS THAN A 36-INCH (914 MM) CLEAR SETBACK IS TO A SIDE WALL CAPABLE OF ACCOMMODATING A EQUIVALENT TO BE USED AT SOLAR PANEL LOCATIONS. **ROOF ABOVE** FURTHER INFORMATION REQUIRED ON BOTH SIDES OF A HORIZONTAL RIDGE. GRAB BAR, THE BATHROOM SHALL HAVE PROVISIONS RP7 RAFTER VENTS TO MEET REQUIRED VENTILATION FP9 EMERGENCY EGRESS WINDOW FP15 LANDING OR FLOOR REQUIRED AT EACH SIDE OF FOR INSTALLATION OF FLOOR-MOUNTED, FOLDAWAY AREA FOR ENCLOSED RAFTER SPACES. MAX 1/4", 1/8" IN OR SIMILAR ALTERNATE GRAB BAR REINFORCEMENTS FP10 WINDOW MUST HAVE A FRAME AND SASH EXTERIOR DOOR. WIDTH TO BE NOT LESS THAN THE CAPACITY OF THE PV SYSTEMS PER THE INITIAL CF1R-PRF: 2.39 kWdc APPROVED BY THE ENFORCING AGENCY. HIGH FIRE ZONE, MIN 1/16" OPENING SIZE ON VENT COMPRISED OF WELDED CORNERS, METAL VAULTED CEILING **VARIES** SOLAR ZONE. REFER DOOR SERVED AND HAVE A MIN 36 INCH DEPTH TO BE UPDATED WITH SITE SPECIFIC NUMBERS. SCREEN WITH CORROSION-RESISTANT WIRE SCREEN REINFORCEMENT IN THE INTERLOCK AREA, AND TO SOLAR NOTES ON MEASURED IN THE DIRECTION OF TRAVEL. EXTERIOR FP19 DOOR TO HAVE A NET CLEAR MATERIAL. 1 SF OF VENTING PER 150 SF OF CONSTRUCTED OF MULTIPANE TEMPERED GLAZING LANDINGS SHALL BE PERMITTED TO HAVE A SLOPE SHEET G0.2 ENCLOSED RAFTER AREA IN NON-FIRE RATED WHERE INDICATED TYPICAL ALL WINDOWS **VENTING CALCULATIONS** NOT TO EXCEED ¹/₄" PER FOOT, (CRC 3111.3) LANDINGS CONSTRUCTION PLEASE SEE VENTING FP20 DESIGNATED 2'- 6" x 2'- 6" x 7' TALL MINIMUM AREA FOR FP11 NOTE USED OR FINISHED FLOORS AT EGRESS DOOR SHALL NOT CALCULATIONS OF THIS SHEET INSTALLATION OF AN ELECTRIC HYBRID HEAT PUMP

WATER HEATER PER CEC 2022 SECTION 150.0(N)

FP21 FURRING AS NEEDED FOR STANDARD TUB AND SHOWER

SHALL BE PROVIDED WITH LANDINGS OR FLOORS NOT FP22 WATER HEATER TO BE STRAPPED TO WALL PER CRC 507.2

BE MORE THAN 1.5" LOWER THAN THE TOP OF THE

THRESHOLD FOR OUTWARD SWINGING DOORS OR

7.75" FOR DOORS THAT DO NOT SWING OUTWARD.

DOORS OTHER THAN THE REQUIRED EGRESS DOOR

MORE THAN 7.75" BELOW THE TOP OF THE

THRESHOLD (CRC 3111.3.2)

(CRC 3111.3.1)

date 20 January 2025

project no. RIVERSIDE ADU

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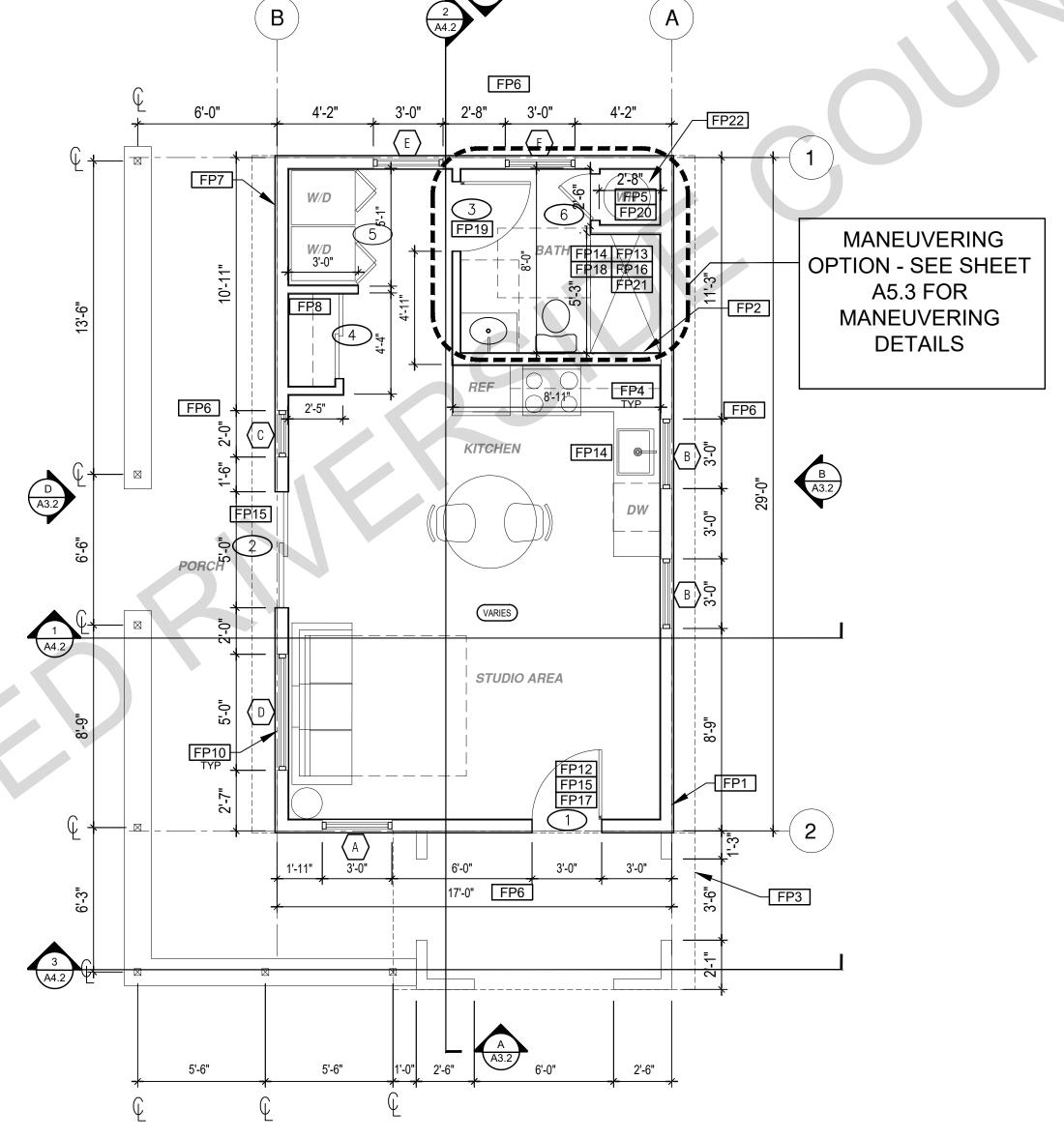
sheet no.
A1_1

Section 506.4. The closet shall be for the exclusive use of the water heater.

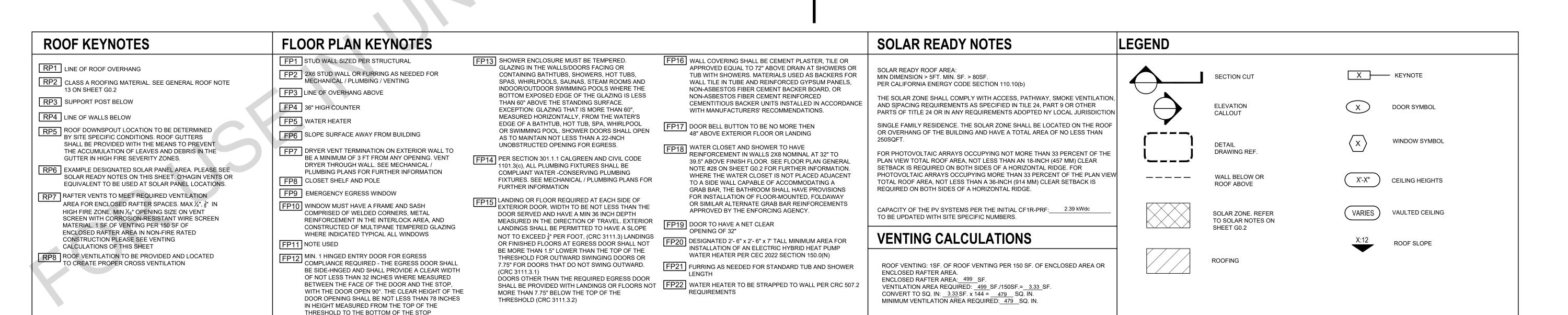
499 SQ. FT

1/4"=1'-0"

STUDIO



LARGER RESTROOM MANEUVERING OPTION 499 SQ. FT. STUDIO 1/4"=1'-0"



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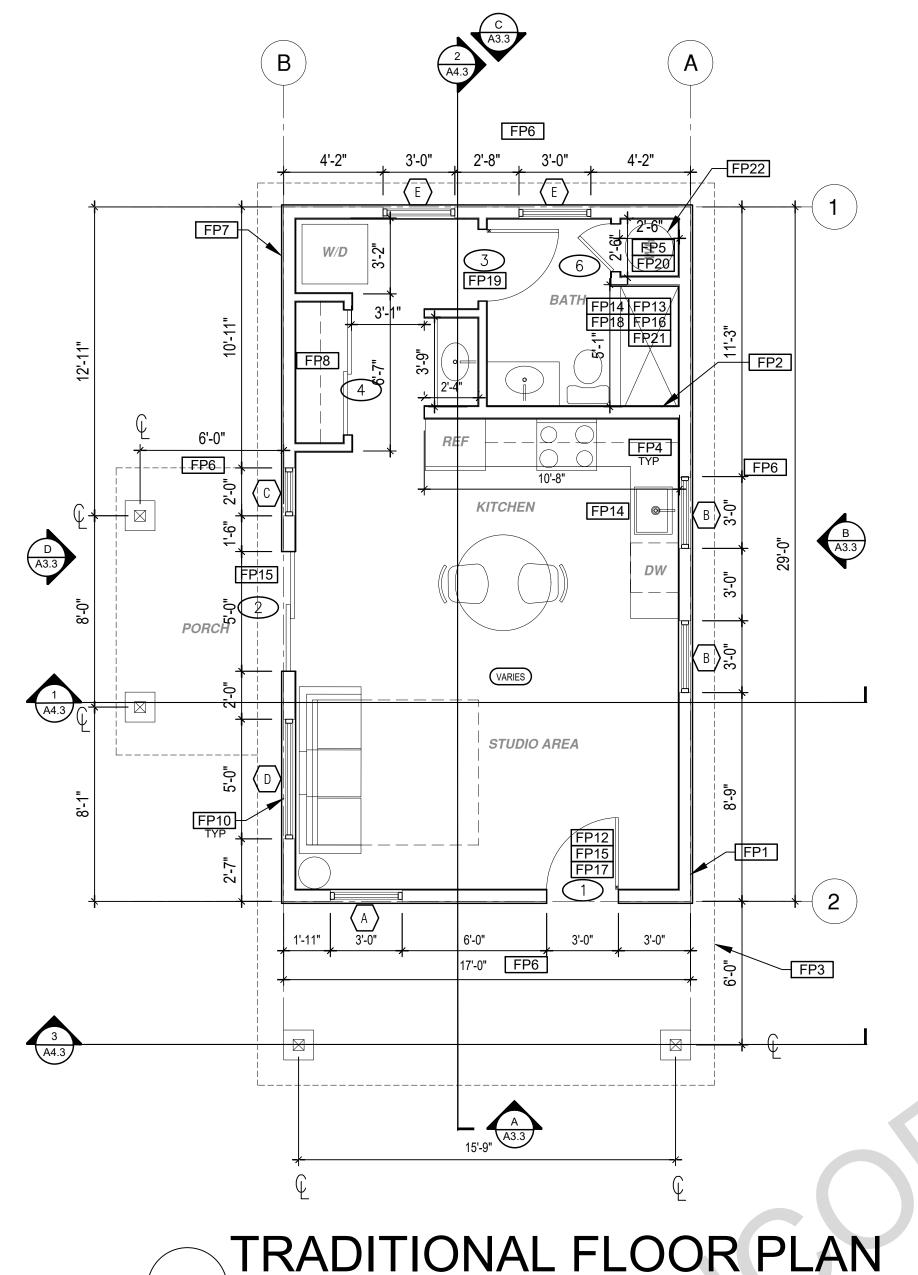
revisions

Floor Plan Spanish

20 January 2025

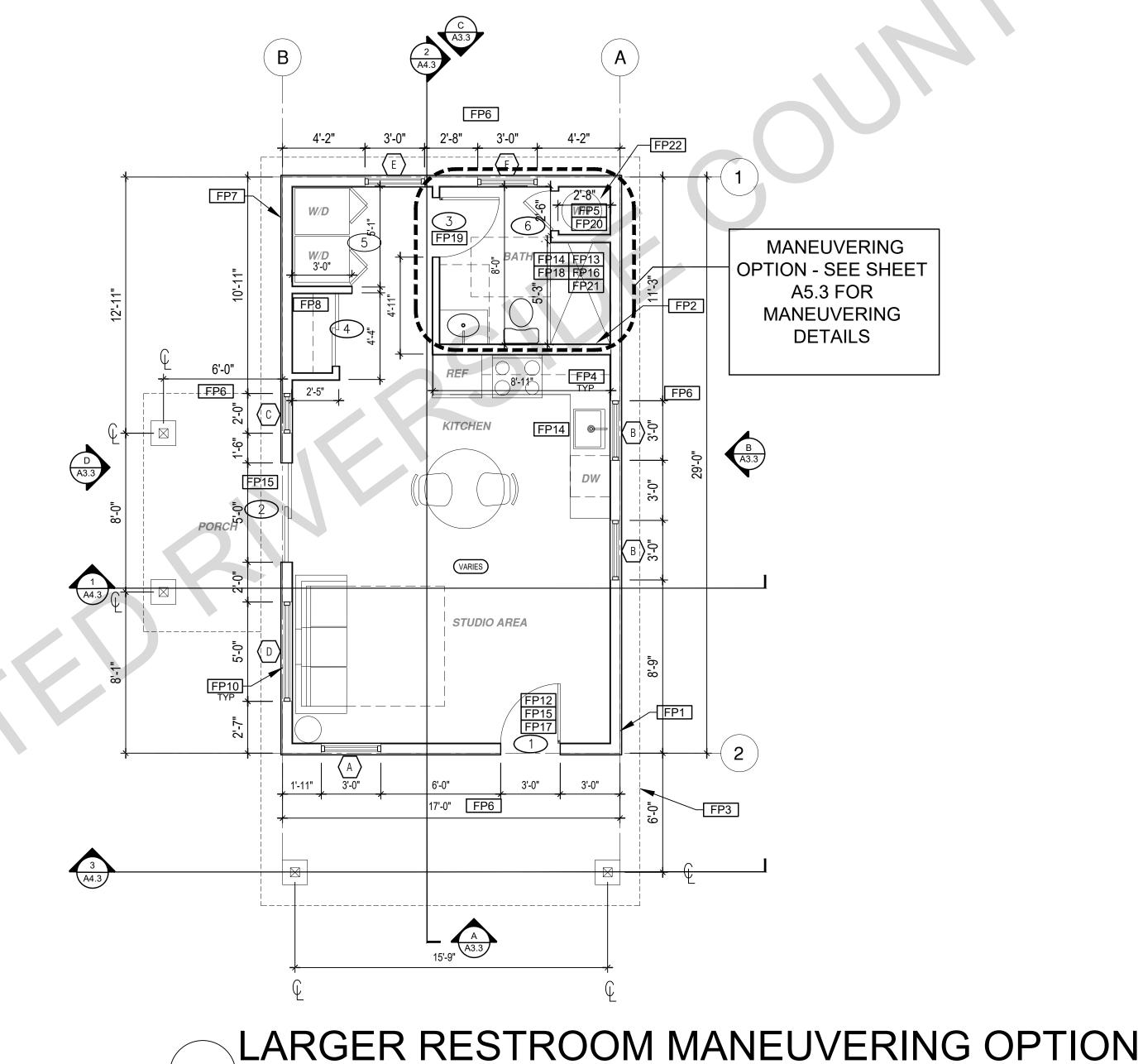
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499 SQ. FT

1/4"=1'-0"



499 SQ. FT.

1/4"=1'-0"

STUDIO

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RIVERSIDE BUILDING DEPARTMENT. BUILDING CODES DO CHANGE OVER TIME AND RECIPIENT SHALL

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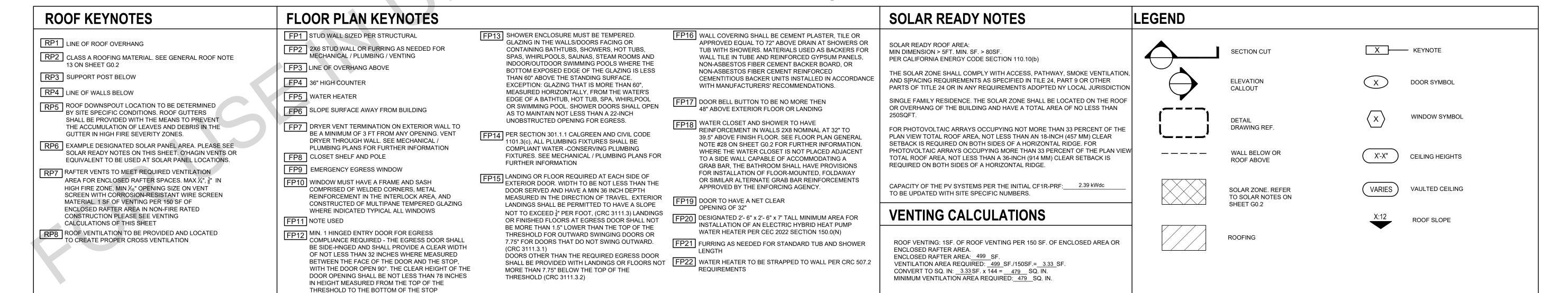
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Floor Plans **Traditional**

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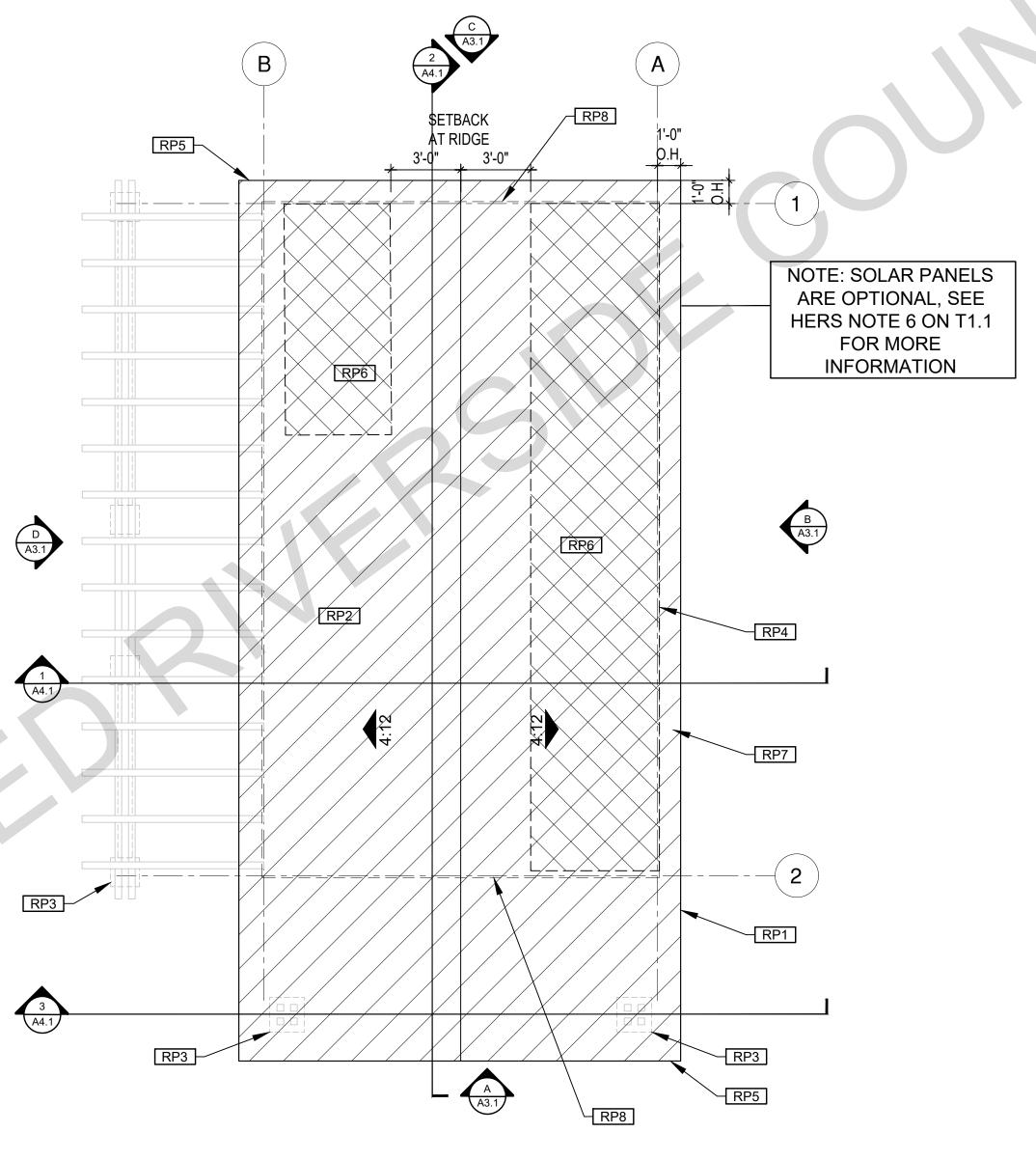
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Roof Plan Craftsman

20 January 2025

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FLOOR PLAN KEYNOTES **ROOF KEYNOTES SOLAR READY NOTES** LEGEND FP1 STUD WALL SIZED PER STRUCTURAL FP13 SHOWER ENCLOSURE MUST BE TEMPERED. FP16 WALL COVERING SHALL BE CEMENT PLASTER, TILE OR RP1 LINE OF ROOF OVERHANG GLAZING IN THE WALLS/DOORS FACING OR APPROVED EQUAL TO 72" ABOVE DRAIN AT SHOWERS OR SOLAR READY ROOF AREA: FP2 2X6 STUD WALL OR FURRING AS NEEDED FOR CONTAINING BATHTUBS, SHOWERS, HOT TUBS, TUB WITH SHOWERS. MATERIALS USED AS BACKERS FOR X KEYNOTE SECTION CUT MIN DIMENSION > 5FT. MIN. SF. > 80SF. RP2 CLASS A ROOFING MATERIAL. 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OF ENCLOSED AREA OR FP21 FURRING AS NEEDED FOR STANDARD TUB AND SHOWER BE SIDE-HNGED AND SHALL PROVIDE A CLEAR WIDTH (CRC 3111.3.1) ENCLOSED RAFTER AREA. OF NOT LESS THAN 32 INCHES WHERE MEASURED DOORS OTHER THAN THE REQUIRED EGRESS DOOR ENCLOSED RAFTER AREA: 499 SF. SHALL BE PROVIDED WITH LANDINGS OR FLOORS NOT FP22 WATER HEATER TO BE STRAPPED TO WALL PER CRC 507.2 BETWEEN THE FACE OF THE DOOR AND THE STOP, VENTILATION AREA REQUIRED: 499 SF./150SF.= 3.33 SF. WITH THE DOOR OPEN 90°. THE CLEAR HEIGHT OF THE CONVERT TO SQ. IN: 3.33 SF. x 144 = 479 SQ. IN. MORE THAN 7.75" BELOW THE TOP OF THE DOOR OPENING SHALL BE NOT LESS THAN 78 INCHES THRESHOLD (CRC 3111.3.2) MINIMUM VENTILATION AREA REQUIRED: 479 SQ. IN. IN HEIGHT MEASURED FROM THE TOP OF THE

THRESHOLD TO THE BOTTOM OF THE STOP

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project

County of Riverside Pre-Approved ADU Program

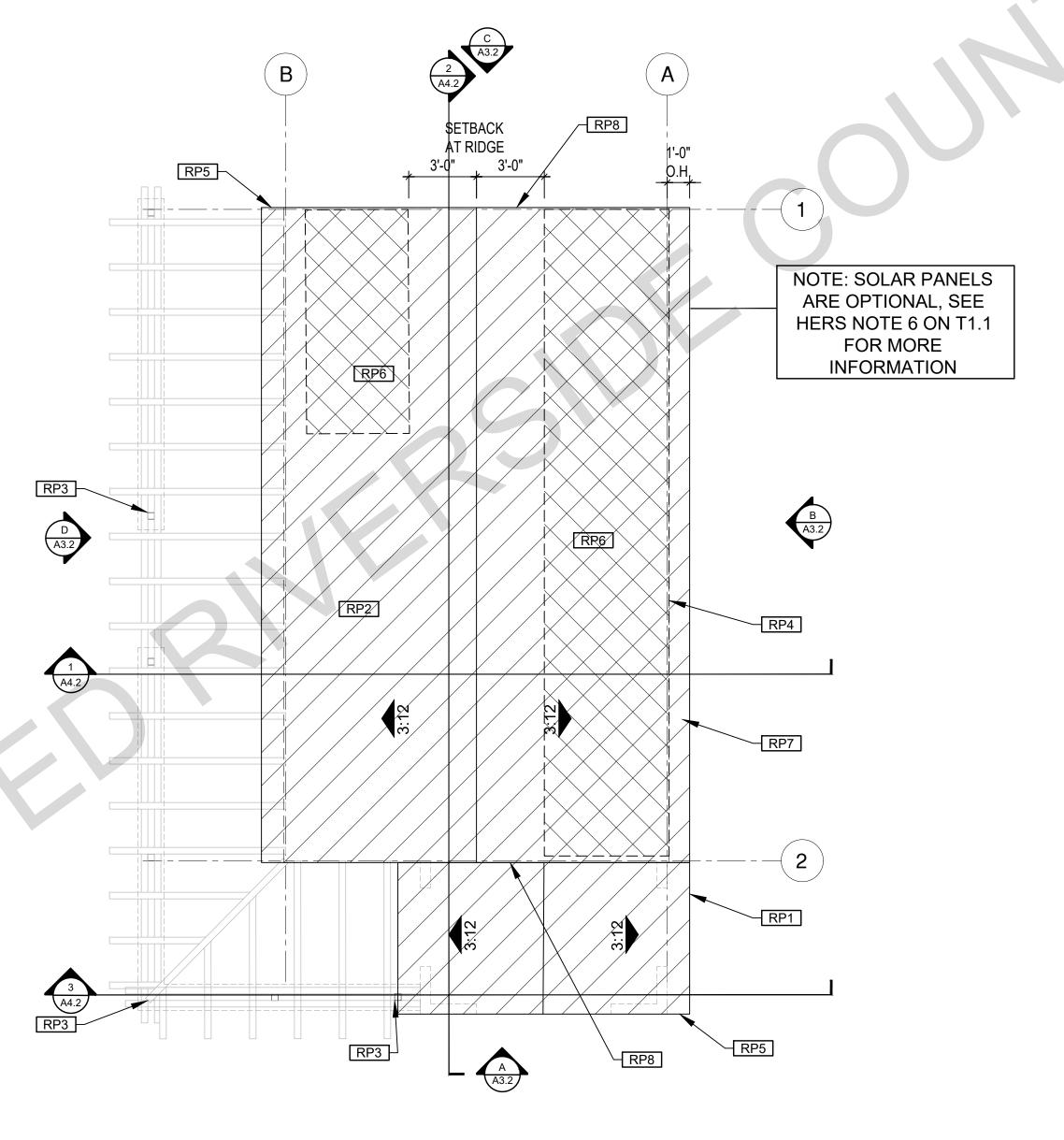
revisions

Roof Plan Spanish

20 January 2025

project no. RIVERSIDE ADU

drawn by DESIGN PATH STUDIO





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County of Riverside Pre-Approved ADU Program

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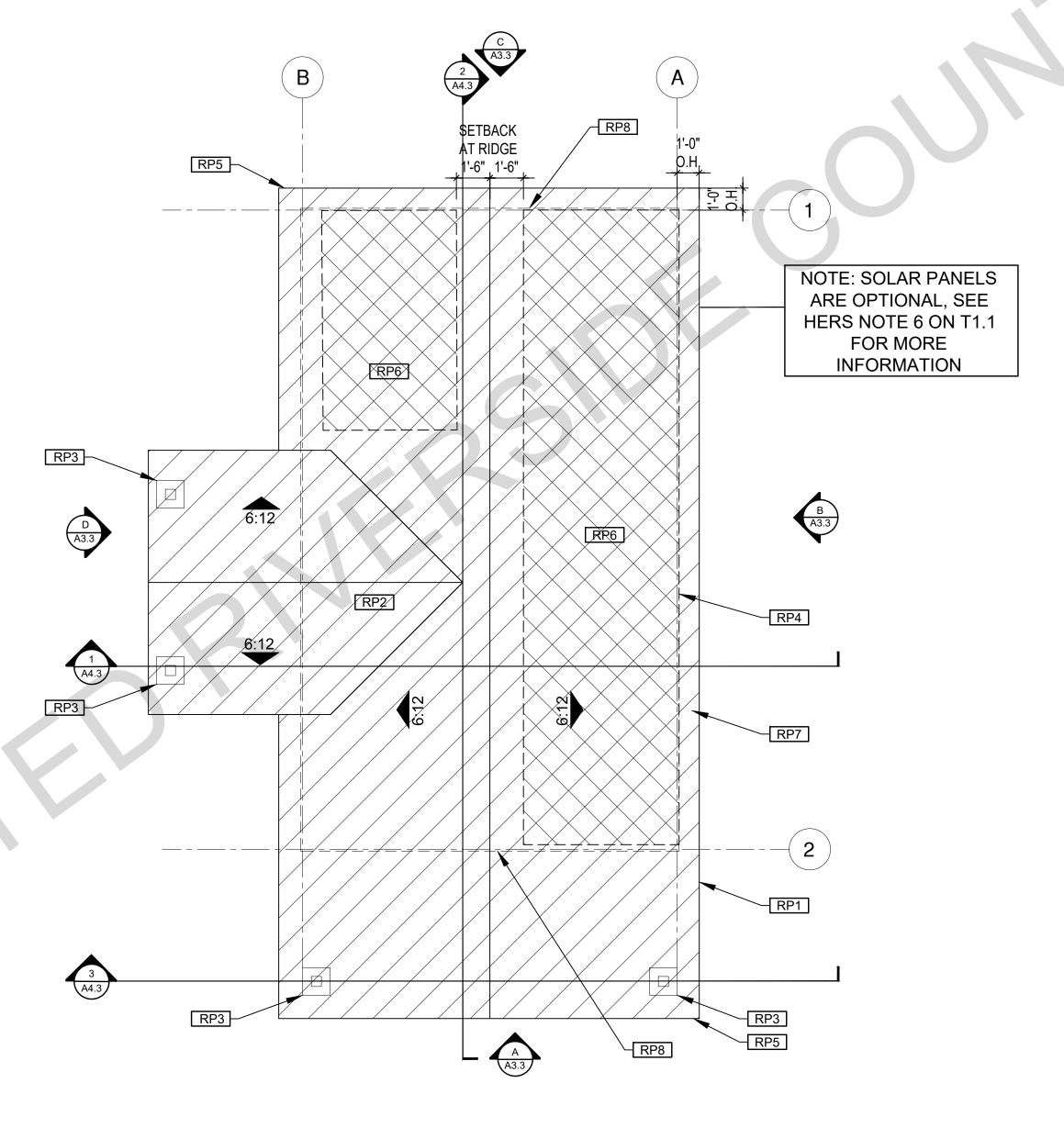
revisions

Roof Plan **Traditional**

20 January 2025

project no. RIVERSIDE ADU

drawn by DESIGN PATH STUDIO





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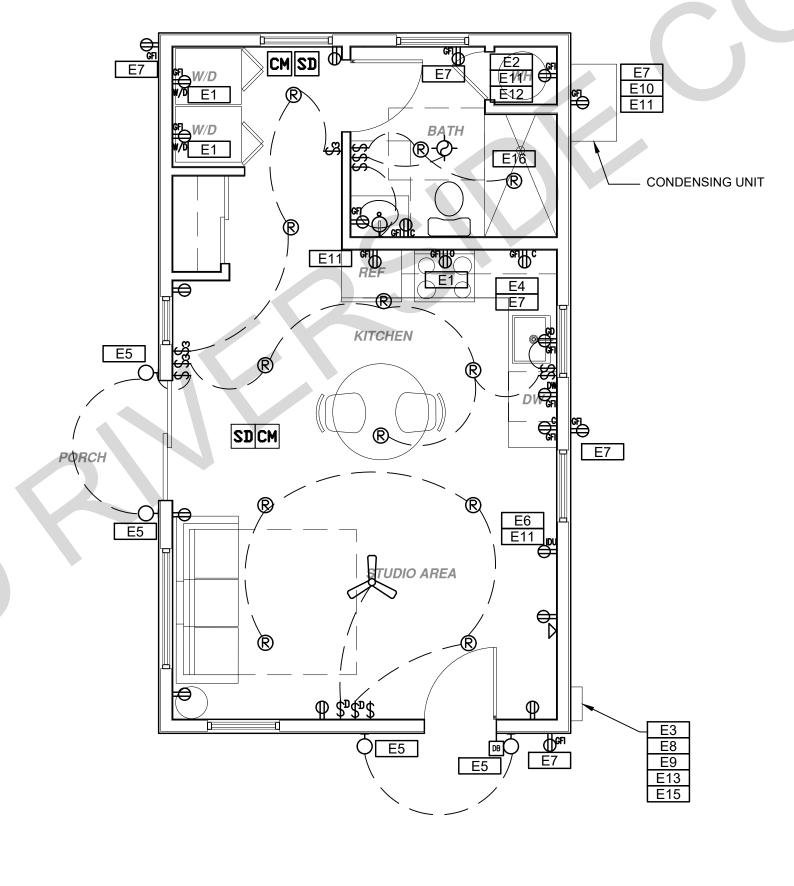
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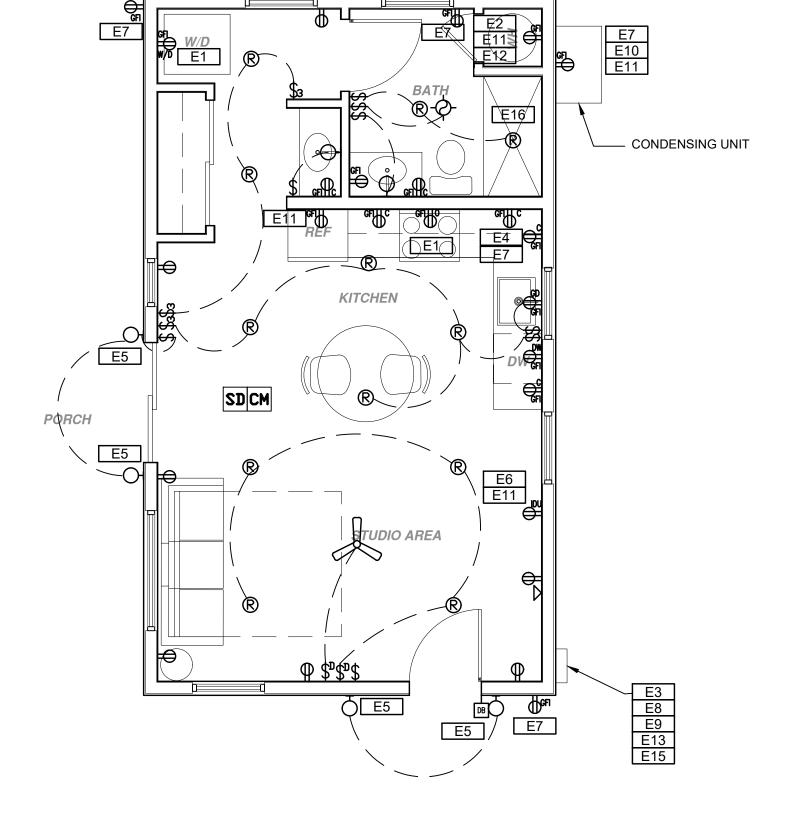
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County of Riverside Pre-Approved ADU Program

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revisions





ELECTRICAL PLAN

LARGER RESTROOM MANEUVERING OPTION 1/4"=1'-0"

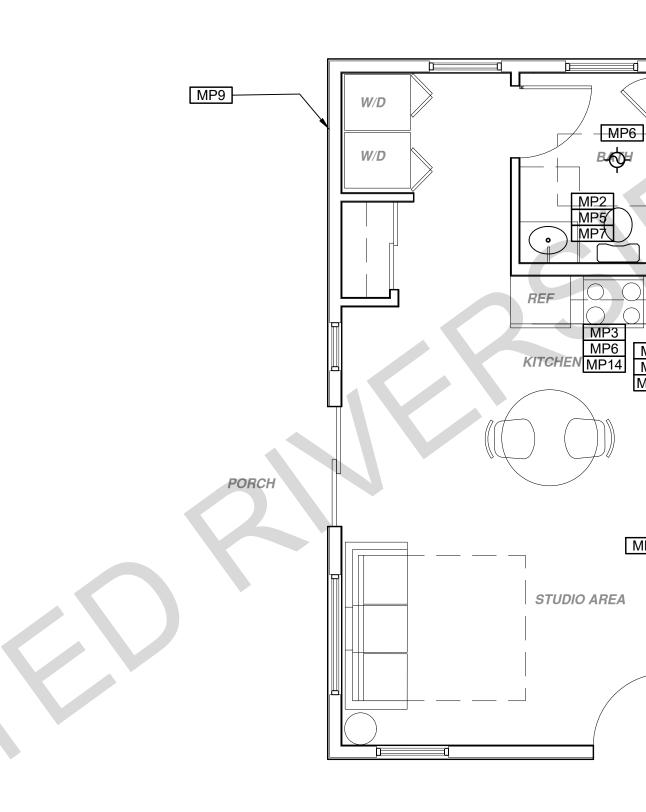
description Electrical Plans project no. RIVERSIDE ADU drawn by design path studio

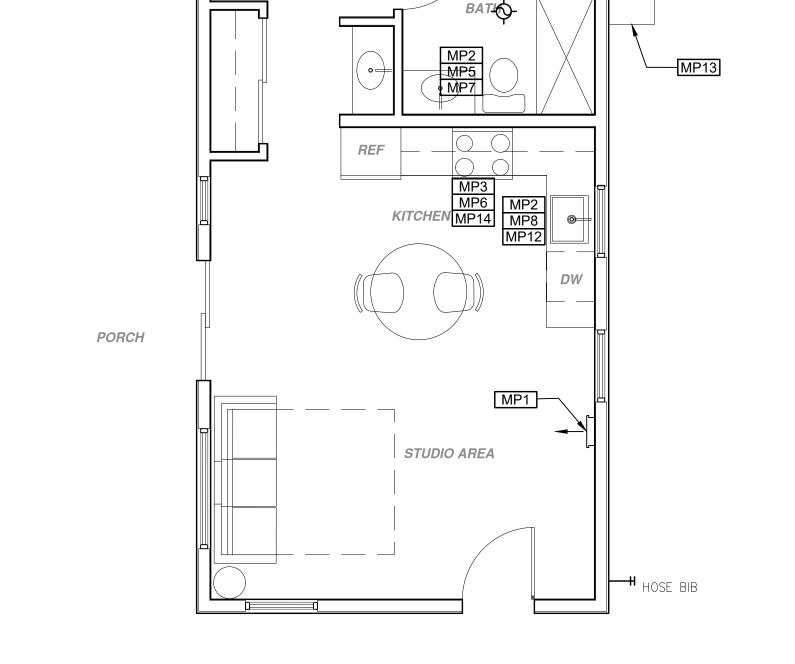
MECHANICAL / PLUMBING KEYNOTES ELECTRICAL KEYNOTES MECHANICAL LEGEND **ELECTRICAL LEGEND** E1 DEDICATED 30 AMP/ 240V POWER FOR ELECTRIC DRYER OR INSTALLED AT AN ACCESSIBLE LOCATION FOR THE SERVICING MP9 DRYER EXHAUST OUTLET FROM DRYER TO EXTERIOR MAX LENGTH SWITCHING **MECHANICAL** FIRE DETECTION LIGHTING POWER/DATA MP1 INDOOR UNIT MINI SPLIT SYSTEM. 14' WITH MAXIMUM OF TWO 90° ELBOWS.EXHAUST VENT MUST OVEN. VERIFY REQUIREMENTS WITH APPLIANCE SMOKE DETECTORS PER SECTION R314 BATHROOM EXHAUST FAN: MINIMUM 50 CFM TO BE TAMPER RESISTANT RECEPTACLE OF THE HEATING AND COOLING EQUIPMENT AND SHALL BE MP2 WATER CONSERVING FIXTURES: NEW WATER CLOSETS SHALL USE TERMINATE A MIN. OF 3' FROM ANY OPENING. MIN. TYPE 1 CLOTHES CEILING, RECESSED, DIRECTIONAL, ZERO SPECIFICATIONS - ELECTRIC COOKTOP READY SWITCH, MOUNT AT 43" AFF DETECTORS SHALL BE PERMANENTLY WIRED DUCTED TO THE EXTERIOR AND SHALL PROVIDE WALL MOUNTED, 110 V DUPLEX U.O.N. LOCATED ON THE SAME LEVEL AND WITHIN 25 FEET OF THE DRYER EXHAUST DUCTS SHALL BE OF RIGID METAL & SHALL HAVE REQUIREMENTS ARE TO BE IMPLEMENTED, SEE SHEET G0.2, CLEARANCE IC RATED LED BULB NO MORE THAN 1.28 GAL. OF WATER PER FLUSH, LAVATORIES WITH BATTERY BACKUP. SOUND AN ALARM THREE-WAY SWITCH FIVE AIR CHANGES PER HOUR. CFM AND NOISE EQUIPMENT. THIS RECEPTACLE SHALL BE GFCI-WP GFI = WATER PROOF GFCI SMOOTH INTERIOR SURFACES. THE DIAMETER SHALL BE NOT LESS LIMITED TO 1.2 GPM, KITCHEN FAUCETS NOT TO EXCEED 1.8 GPM AT ELECTRIC READY 150.0(u) FOR REQUIREMENTS CEILING, RECESSED, ZERO CLEARANCE IC RATING MAXIMUM 3 SONE FOR INTERMITTENT USE. AUDIBLE IN ALL SLEEPING AREAS. ALARM FOUR-WAY SWITCH CT = COOKTOP/ GRILL 240 V PROTECTED. THAN 4 INCHES NOMINAL (100 MM), & THE THICKNESS SHALL BE NOT 60 PSI THEY CAN INCREASE THE FLOW MOMENTARILY BUT CANT E2 OUTLET FOR NEW ELECTRIC HYBRID HEAT PUMP WATER SHALL BE ENERGY STAR RATED AND CONTROLLED DEVICES SHALL BE INTERCONNECTED IN SUCH A O = OVEN 240 V DIMMER SWITCH HEATER WITHIN 3' OF WATER HEATER. SEE ELECTRICAL NOTE E11 A DISCONNECTING MEANS CAPABLE OF DISCONNECTING LESS THAN 0.016 OF AN INCH (0.406 MM). EXHAUST DUCTS & DRYER EXCEED 2.2GALLONS PER MIN. AT 60 PSI AND MUST DEFAULT TO A MANNER THAT THE ACTUATION OF ONE ALARM BY A HUMIDISTAT CAPABLE OF AN ADJUSTMENT MW = MICROWAVE 110 V CEILING, RECESSED, ZERO CLEARANCE IC VENTS SHALL BE EQUIPPED WITH BACK DRAFT DAMPERS MOUNT 6" ABV COUNTER MAX. FLOW RATE OF 1.8GALLONS PER MIN AT 60 PSI., AND SHOWERS AIR-CONDITIONING AND REFRIGERATING EQUIPMENT. BETWEEN 50-80% HUMIDITY. WILL ACTIVATE ALL O F THE ALARMS IN THE UNIT. GD = GARBAGE DISPOSAL 110 V RATED, WATER RESISTANT, LED BULB #16 ON G0.2 FOR MORE INFORMATION OCCUPANCY/VACANCY SENSOR NOT EXCEED 1.8 GPM. AT 80 PSI AND ALL SHALL BE CERTIFIED TO MP10 NEW WATER HEATER WITH T&P RELIEF VALVE AND DISCHARGE PIPE AT EXTERIOR. PROVIDE COMBUSTION AIR AND CLEARANCES PER SHALL COMPLY WITH THE FOLLOWING: IQA FAN IS REQUIRED. ONE OR MORE FANS (EITHER R = RANGE 220V CEILING, RECESSED, LED BULB WITH E3 SUBPANEL LOCATION. ALTERNATE LOCATION TO BE DETERMINED BY OWNER MEET THE PERFORMANCE CRITERIA OF THE EPA WATERSENCE THE CIRCUIT CONDUCTOR IS REQUIRED WITHIN SIGHT FROM KITCHEN OR BATHROOM) TO OPERATE AT LEAST 3' FROM THE TIP OF THE BLADE OF C = COUNTER HEIGHT 6" ABV COUNTER OCCUPANT OR VACANCY SENSOR SPECIFICATIONS FOR SHOWERHEADS. CPC SECTIONS 407, 408, 411, MANUFACTURER REQUIREMENTS. THE EQUIPMENT LOCATION PER CEC SECTION 440.11 CONTINUOUSLY AT REQUIRED CFM PER HERS A CEILING-MOUNTED FAN IDU = INDOOR UNIT POWER 84" AFF 412 AND SECTION 301.1.1 CALGREEN CODE AND CIVIL CODE 1101.3(c WALL MOUNTED LIGHT NOT LESS THAN 3' FROM THE DOOR E4 OUTLET AT COUNTER HEIGHT - SHALL COMPLY WITH CEC E12 PER CEC 2022 150.0(N).1.A.: THE DESIGNATED SPACE IS WITHIN NOTES ON T1.1(OR GREATER) TO PROVIDE INDOOR CEILING FAN/LIGHT COMBO MP11 NEW WATER HEATERS SHALL HAVE ISOLATION VALVES ON BOTH THE W/D = WASHER/DRYER AIR QUALITY. 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MP4 MP10 MP12 MP8 MP11 MP15

MECHANICAL / PLUMBING PLAN

ABOVE THE CONTROLS WITH THE STRAPPING.

LARGER RESTROOM MANEUVERING OPTION 1/4"=1'-0"

MP4 MP10 MP12 MP8 MP11 MP15

description Mechanical/ Plumbing Plans project no. RIVERSIDE ADU

*ALL THROUGHOUT THE RESIDENCE, INCLUDING THE GARAGE AND EXTERIOR, SHALL BE HIGH

ELECTRICAL LEGEND MECHANICAL / PLUMBING KEYNOTES ELECTRICAL KEYNOTES MECHANICAL LEGEND E1 DEDICATED 30 AMP/ 240V POWER FOR ELECTRIC DRYER OR INSTALLED AT AN ACCESSIBLE LOCATION FOR THE SERVICING MP9 DRYER EXHAUST OUTLET FROM DRYER TO EXTERIOR MAX LENGTH SWITCHING FIRE DETECTION **MECHANICAL** LIGHTING POWER/DATA MP1 INDOOR UNIT MINI SPLIT SYSTEM. 14' WITH MAXIMUM OF TWO 90° ELBOWS.EXHAUST VENT MUST OVEN. VERIFY REQUIREMENTS WITH APPLIANCE SMOKE DETECTORS PER SECTION R314 BATHROOM EXHAUST FAN: MINIMUM 50 CFM TO BE TAMPER RESISTANT RECEPTACLE OF THE HEATING AND COOLING EQUIPMENT AND SHALL BE MP2 WATER CONSERVING FIXTURES: NEW WATER CLOSETS SHALL USE TERMINATE A MIN. OF 3' FROM ANY OPENING, MIN. TYPE 1 CLOTHES. CEILING, RECESSED, DIRECTIONAL, ZERO SPECIFICATIONS - ELECTRIC COOKTOP READY SWITCH, MOUNT AT 43" AFF DUCTED TO THE EXTERIOR AND SHALL PROVIDE DETECTORS SHALL BE PERMANENTLY WIRED WALL MOUNTED, 110 V DUPLEX U.O.N. LOCATED ON THE SAME LEVEL AND WITHIN 25 FEET OF THE DRYER EXHAUST DUCTS SHALL BE OF RIGID METAL & SHALL HAVE REQUIREMENTS ARE TO BE IMPLEMENTED, SEE SHEET G0.2, CLEARANCE IC RATED LED BULB NO MORE THAN 1.28 GAL. OF WATER PER FLUSH, LAVATORIES WITH BATTERY BACKUP. SOUND AN ALARM THREE-WAY SWITCH FIVE AIR CHANGES PER HOUR. CFM AND NOISE GFI = WATER PROOF GFCI EQUIPMENT. THIS RECEPTACLE SHALL BE GFCI-WP SMOOTH INTERIOR SURFACES. THE DIAMETER SHALL BE NOT LESS LIMITED TO 1.2 GPM, KITCHEN FAUCETS NOT TO EXCEED 1.8 GPM AT ELECTRIC READY 150.0(u) FOR REQUIREMENTS CEILING, RECESSED, ZERO CLEARANCE IC CT = COOKTOP/ GRILL 240 V RATING MAXIMUM 3 SONE FOR INTERMITTENT USE. AUDIBLE IN ALL SLEEPING AREAS. ALARM FOUR-WAY SWITCH PROTECTED. THAN 4 INCHES NOMINAL (100 MM), & THE THICKNESS SHALL BE NOT 60 PSI THEY CAN INCREASE THE FLOW MOMENTARILY BUT CANT E2 OUTLET FOR NEW ELECTRIC HYBRID HEAT PUMP WATER SHALL BE ENERGY STAR RATED AND CONTROLLED DEVICES SHALL BE INTERCONNECTED IN SUCH A O = OVEN 240 V DIMMER SWITCH HEATER WITHIN 3' OF WATER HEATER. SEE ELECTRICAL NOTE E11 A DISCONNECTING MEANS CAPABLE OF DISCONNECTING LESS THAN 0.016 OF AN INCH (0.406 MM). EXHAUST DUCTS & DRYER EXCEED 2.2GALLONS PER MIN. AT 60 PSI AND MUST DEFAULT TO A MANNER THAT THE ACTUATION OF ONE ALARM BY A HUMIDISTAT CAPABLE OF AN ADJUSTMENT MW = MICROWAVE 110 V CEILING, RECESSED, ZERO CLEARANCE IC VENTS SHALL BE EQUIPPED WITH BACK DRAFT DAMPERS MOUNT 6" ABV COUNTER MAX. FLOW RATE OF 1.8GALLONS PER MIN AT 60 PSI., AND SHOWERS AIR-CONDITIONING AND REFRIGERATING EQUIPMENT. BETWEEN 50-80% HUMIDITY. WILL ACTIVATE ALL O F THE ALARMS IN THE UNIT. GD = GARBAGE DISPOSAL 110 V RATED, WATER RESISTANT, LED BULB #16 ON G0.2 FOR MORE INFORMATION OCCUPANCY/VACANCY SENSOR NOT EXCEED 1.8 GPM. AT 80 PSI AND ALL SHALL BE CERTIFIED TO MP10 NEW WATER HEATER WITH T&P RELIEF VALVE AND DISCHARGE PIPE AT EXTERIOR. PROVIDE COMBUSTION AIR AND CLEARANCES PER SHALL COMPLY WITH THE FOLLOWING: IQA FAN IS REQUIRED. ONE OR MORE FANS (EITHER R = RANGE 220V E3 SUBPANEL LOCATION. ALTERNATE LOCATION TO BE CEILING, RECESSED, LED BULB WITH MEET THE PERFORMANCE CRITERIA OF THE EPA WATERSENCE THE CIRCUIT CONDUCTOR IS REQUIRED WITHIN SIGHT FROM KITCHEN OR BATHROOM) TO OPERATE AT LEAST 3' FROM THE TIP OF THE BLADE OF C = COUNTER HEIGHT 6" ABV COUNTER OCCUPANT OR VACANCY SENSOR SPECIFICATIONS FOR SHOWERHEADS. CPC SECTIONS 407, 408, 411, ☐ DETERMINED BY OWNER MANUFACTURER REQUIREMENTS. THE EQUIPMENT LOCATION PER CEC SECTION 440.11 CONTINUOUSLY AT REQUIRED CFM PER HERS A CEILING-MOUNTED FAN IDU = INDOOR UNIT POWER 84" AFF 412 AND SECTION 301.1.1 CALGREEN CODE AND CIVIL CODE 1101.3(c WALL MOUNTED LIGHT NOT LESS THAN 3' FROM THE DOOR E12 PER CEC 2022 150.0(N).1.A.: THE DESIGNATED SPACE IS WITHIN NOTES ON T1.1(OR GREATER) TO PROVIDE INDOOR CEILING FAN/LIGHT COMBO E4 OUTLET AT COUNTER HEIGHT - SHALL COMPLY WITH CEC W/D = WASHER/DRYER MP11 NEW WATER HEATERS SHALL HAVE ISOLATION VALVES ON BOTH THI AIR QUALITY. AT THE IAQ FAN SWITCH, A LABEL OPENING OF A BATHROOM MP3 EXHAUST HOOD ABOVE/ TO BE SMOOTH METALLIC INTERIOR 3 FEET FROM THE WATER HEATER AND IS TO COMPLY WITH 30AMP/ 240AMP COLD AND THE HOT WATER PIPING LEAVING THE WATER HEATER $^{
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project

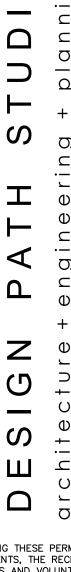
revisions

drawn by

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

20 January 2025

DESIGN PATH STUDIO



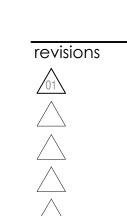
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County of Riverside Pre-Approved ADU Program



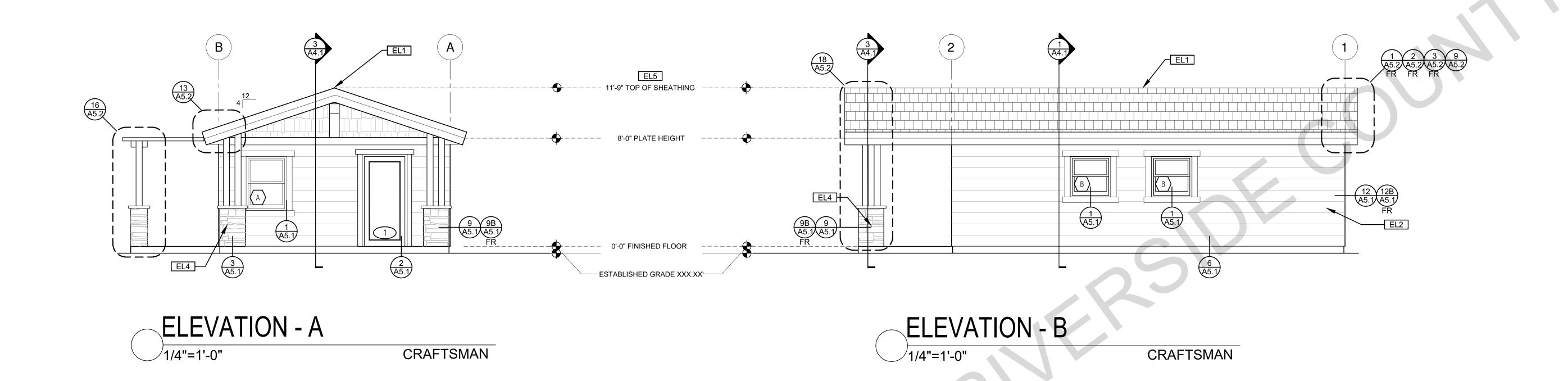
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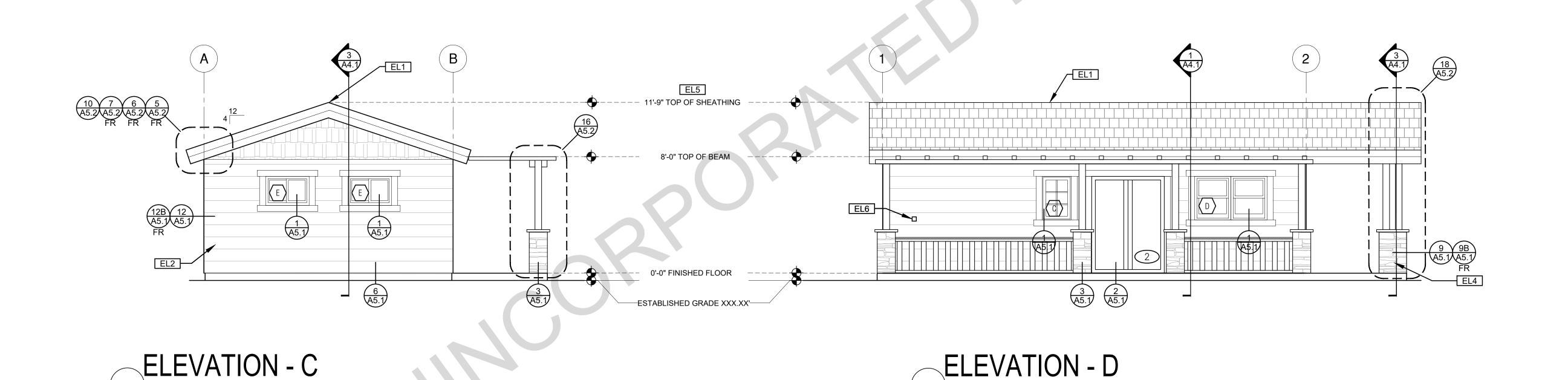
Exterior Elevations Craftsman

20 January 2025

project no. RIVERSIDE ADU

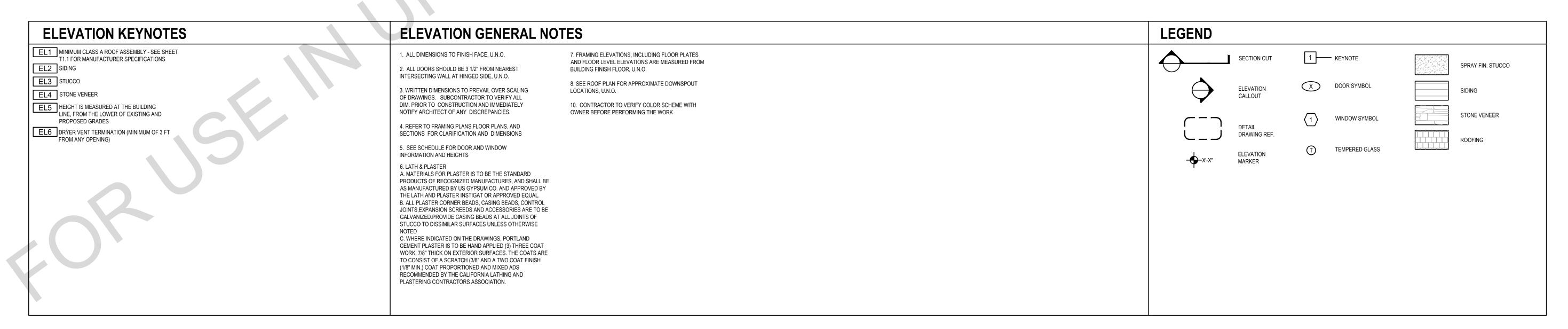
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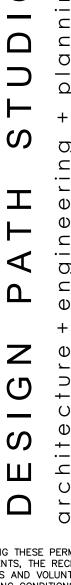
CRAFTSMAN

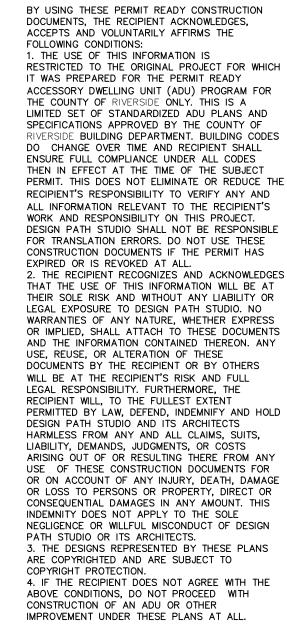
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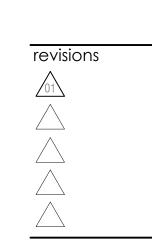
CRAFTSMAN







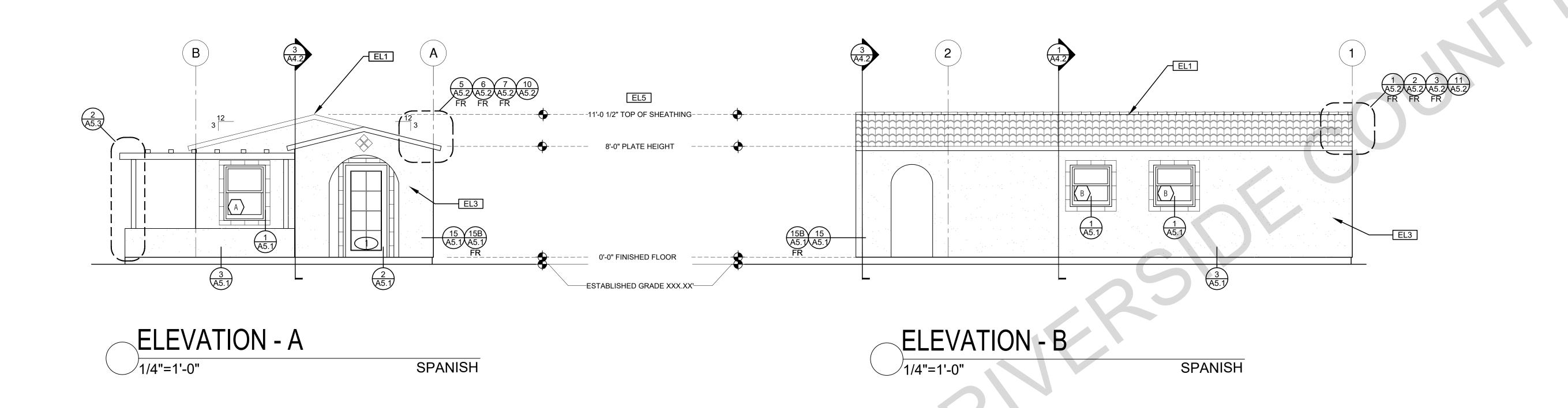
County of Riverside Pre-Approved ADU Program

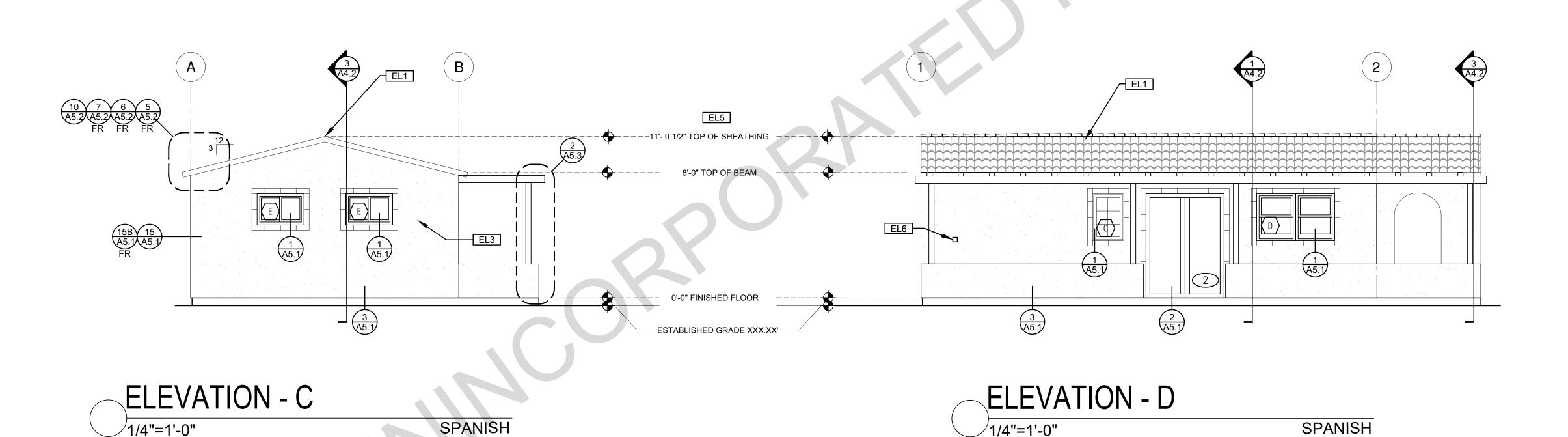


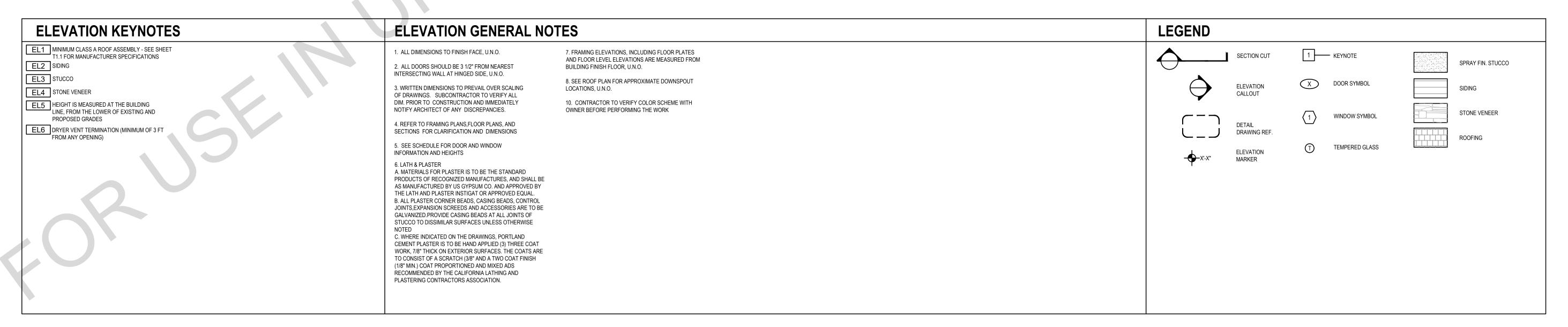
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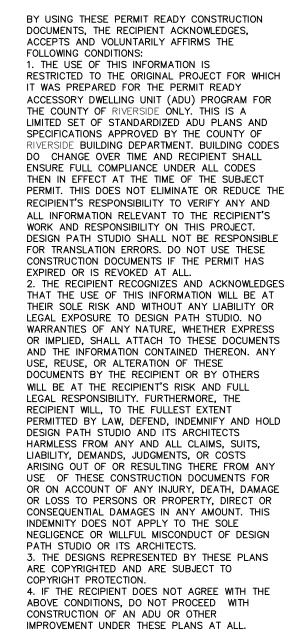
Exterior Elevations Spanish

20 January 2025 project no. RIVERSIDE ADU



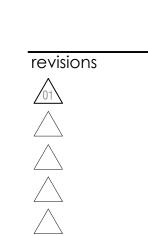








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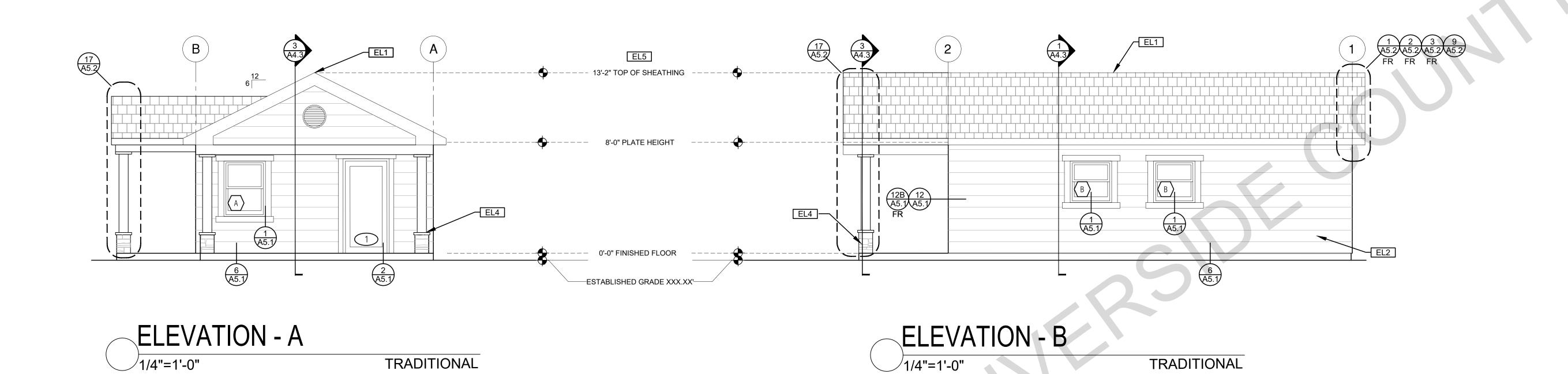


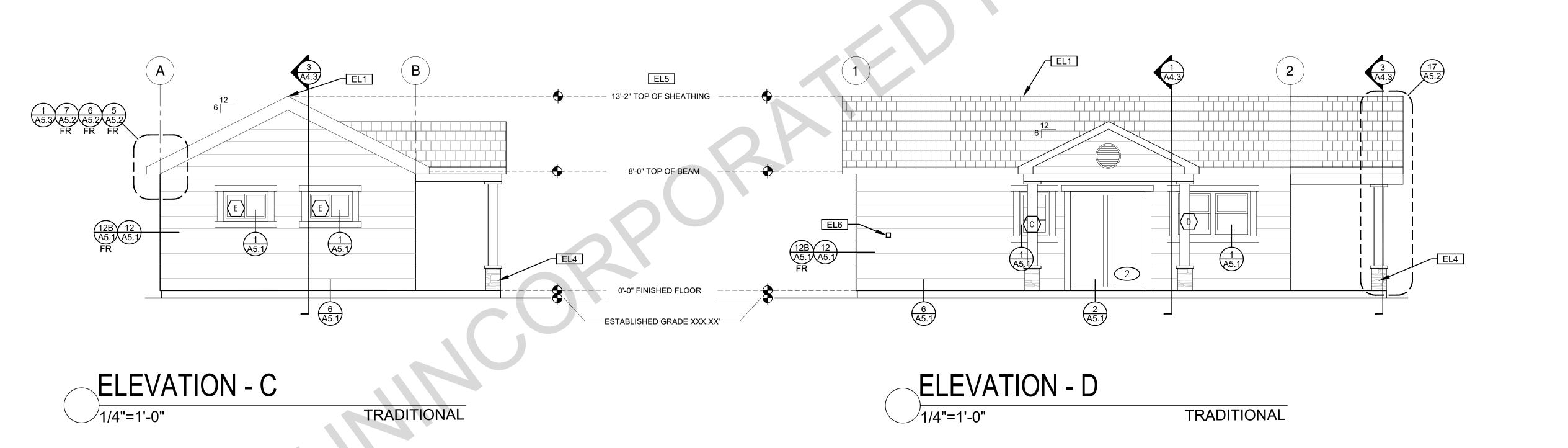
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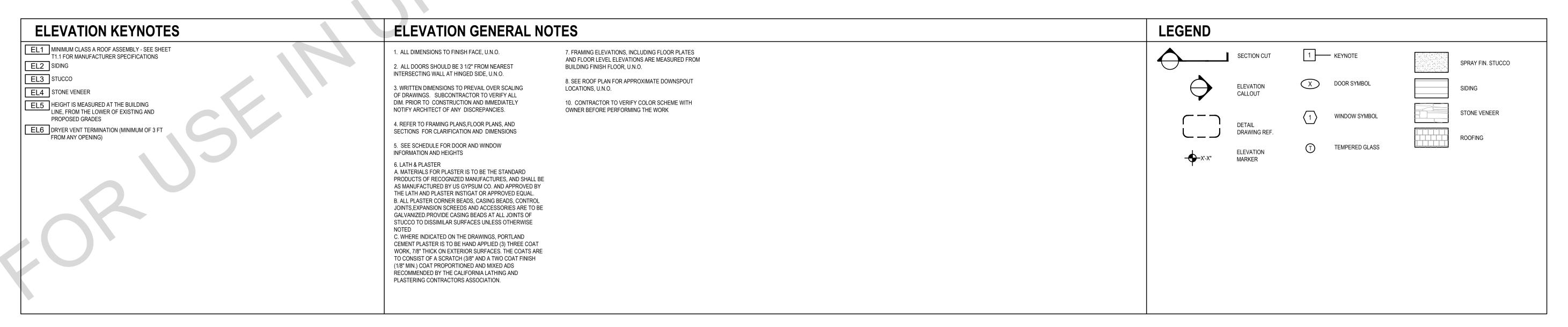
Exterior Elevations Traditional

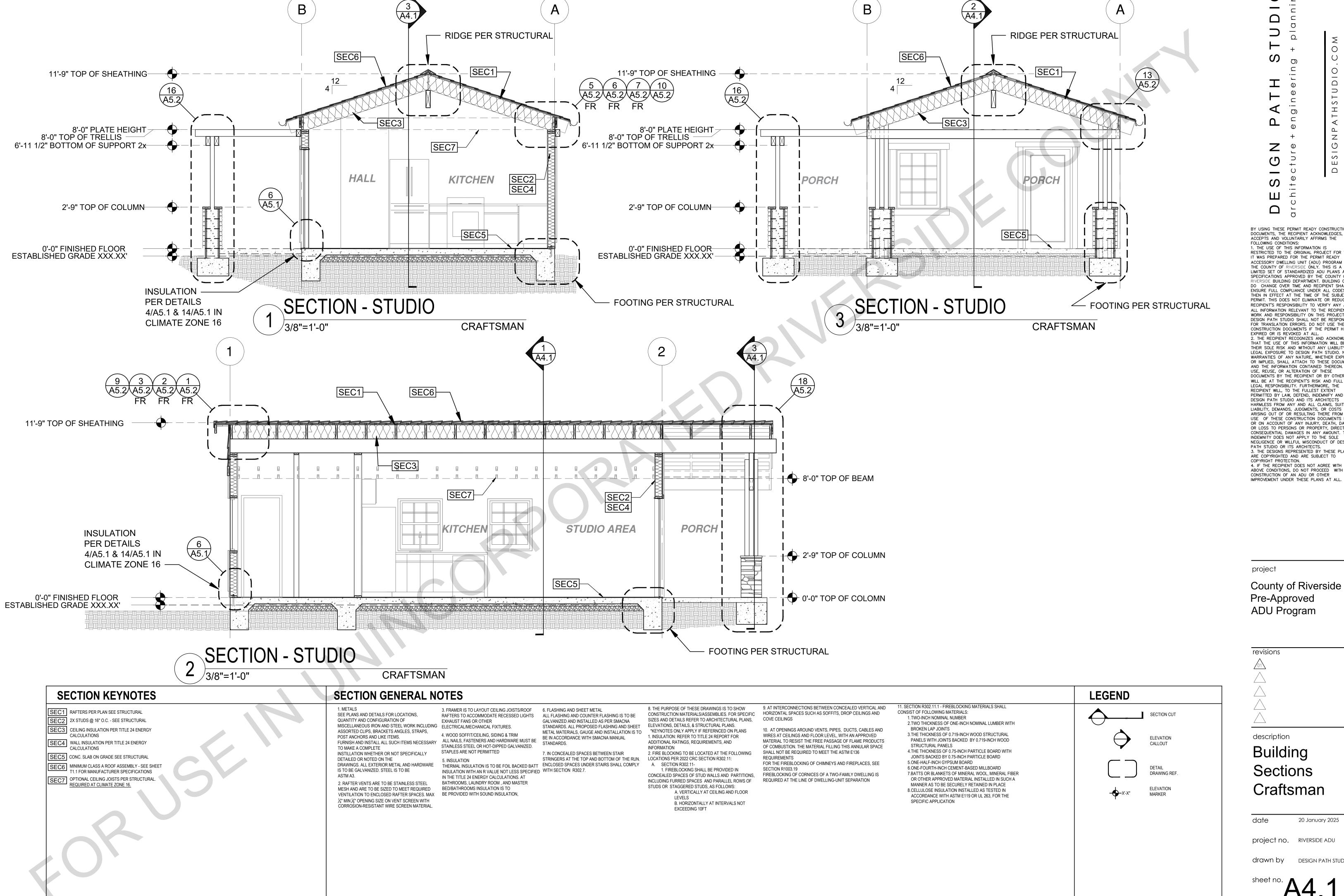


project no. RIVERSIDE ADU



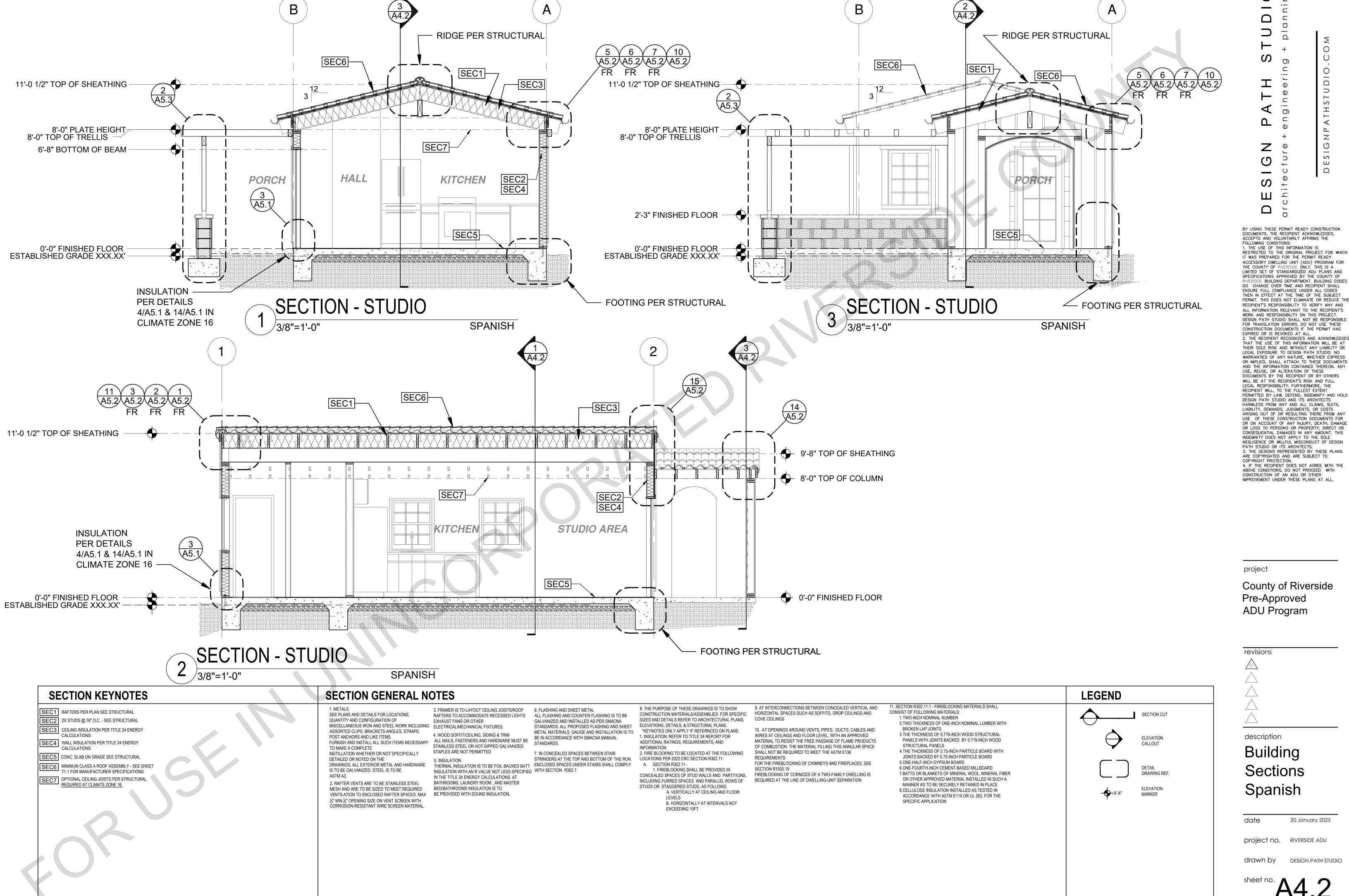


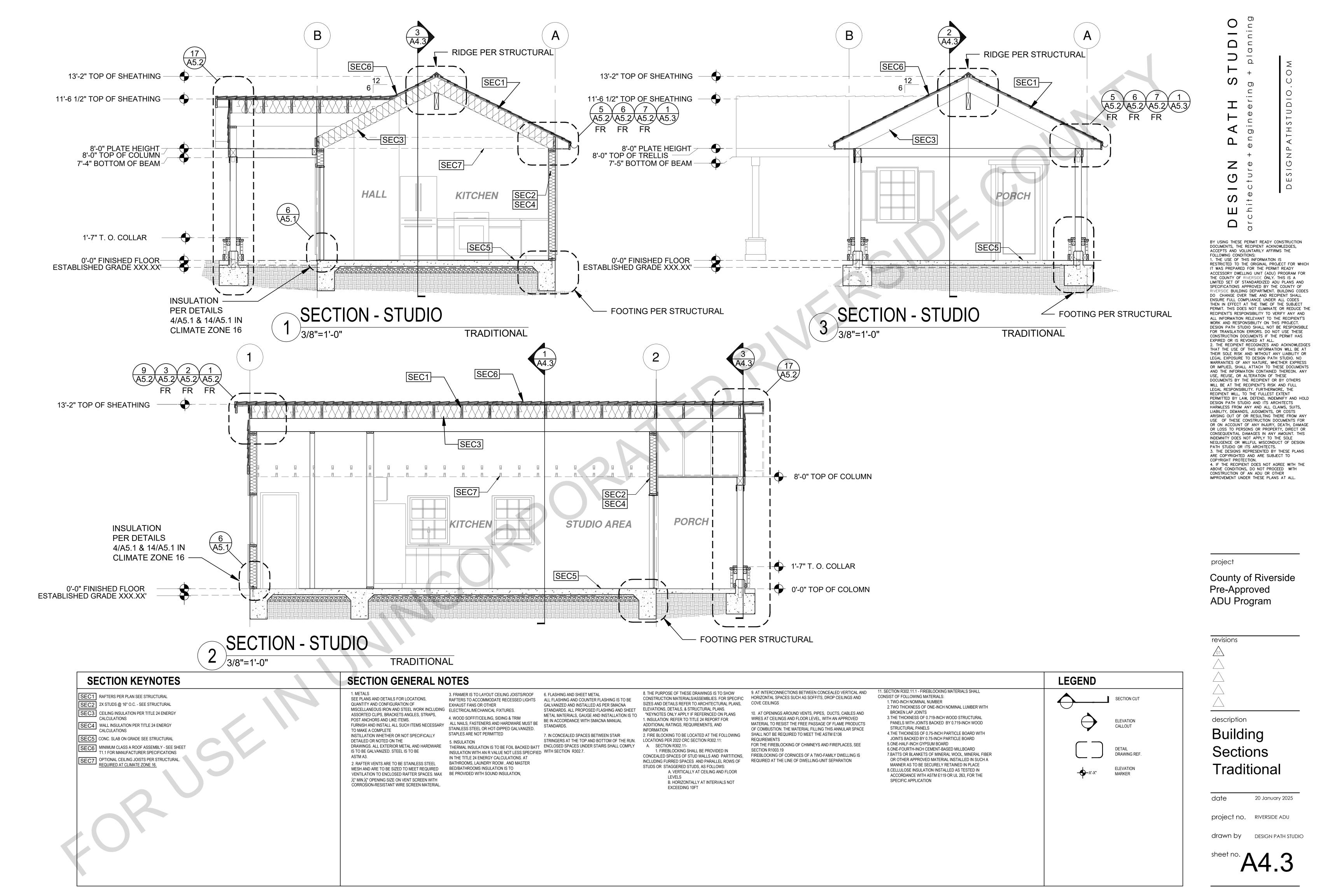


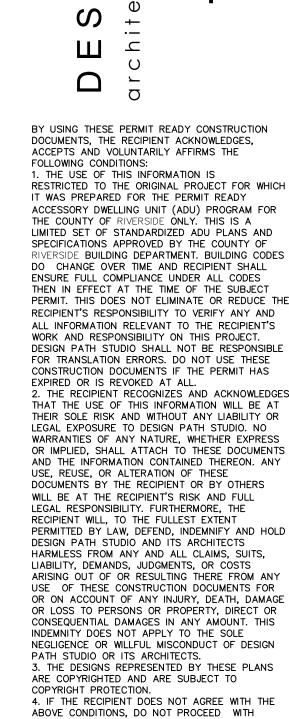


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20 January 2025







project

County of Riverside

Pre-Approved

ADU Program

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

revisions

On

description

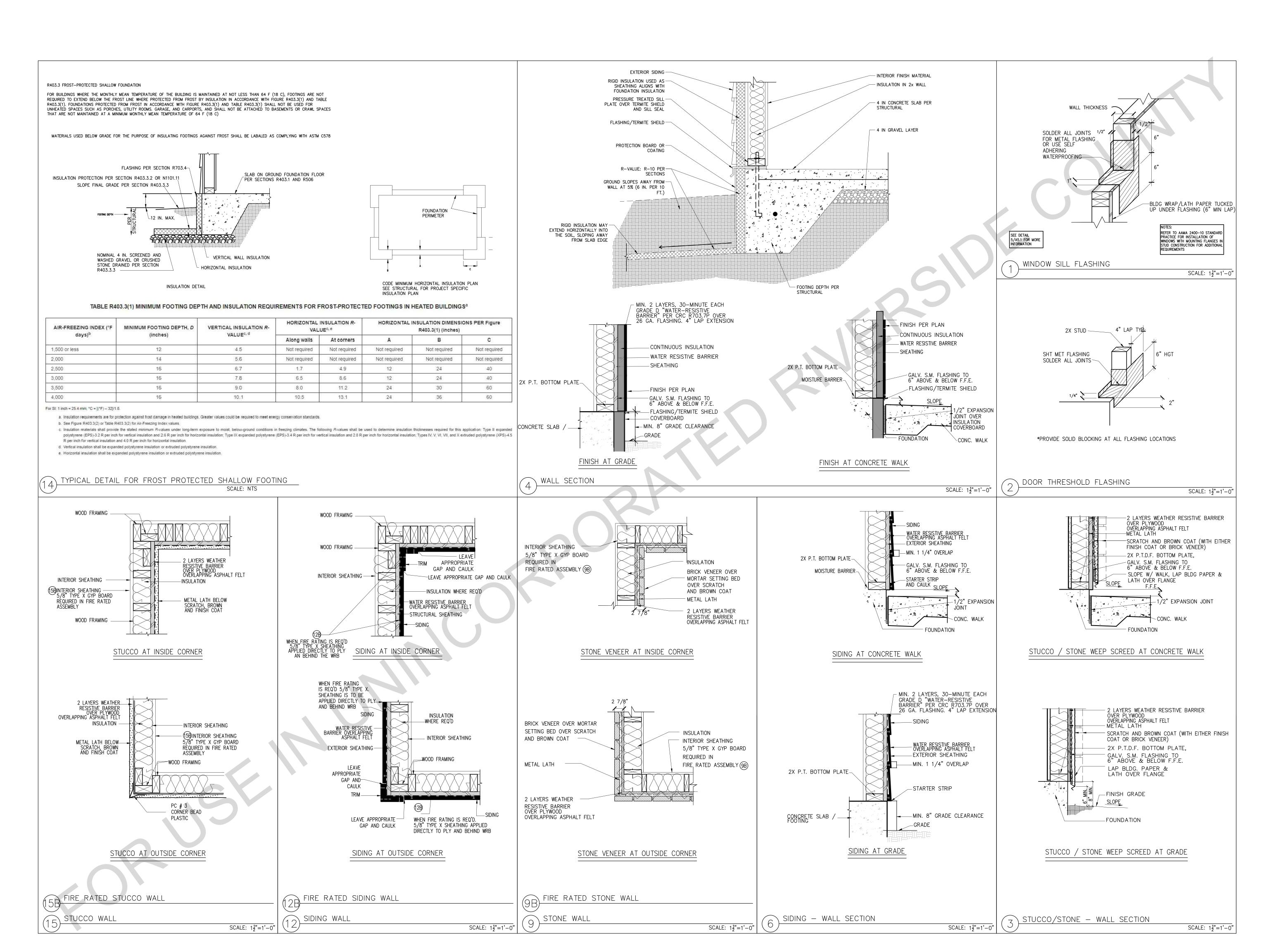
Architectural Details

date 20 January 2025

project no. RIVERSIDE ADU

drawn by DESIGN PATH STUDIO

heet no. A5.





revisions

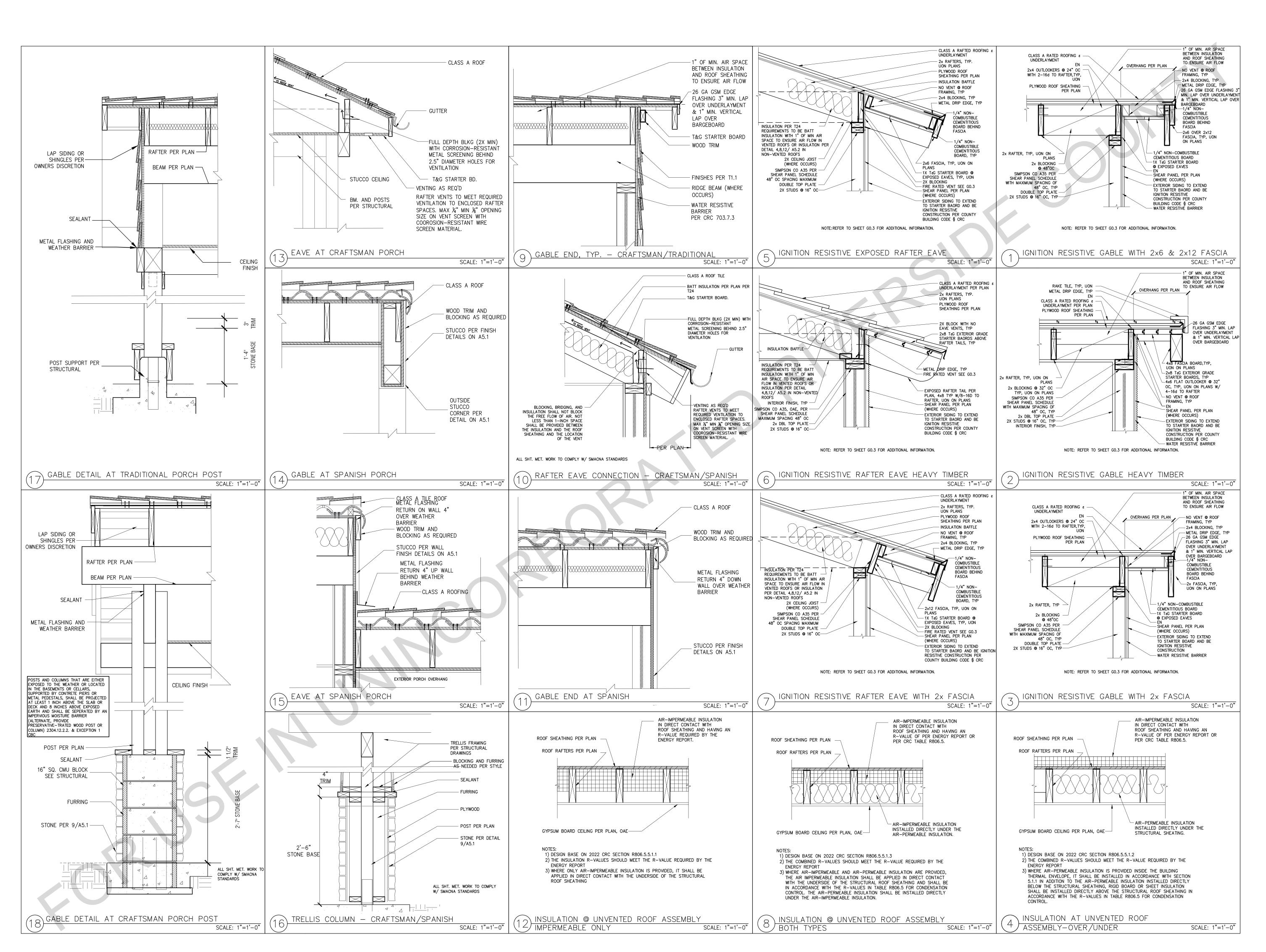
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Architectural Details

20 January 2025

project no. RIVERSIDE ADU

drawn by DESIGN PATH STUDIO



CLASS A ROOF TILE

- BATT INSULATION PER

FULL DEPTH BLKG (2X

CORROSION-RESISTANT

METAL SCREENING BEHIND

2.5" DIAMETER HOLES FOR

SCALE: 1"=1'-0

TRELLIS FRAMING

PER STRUCTURAL

DRAWINGS

SEALANT

CMU WALL WITH

FOUNDATION PER

SCALE: 1"=1'-0'

VULCAN CONTINUOUS

FIRESTOP CAULKING)

VENTED RIDGE CAP BY

ROOF FRAMING

PER PLAN

SCALE: 1"=1'-0

SCALE: 1"=1'-0'

VENT VSC2120 w/

STAINLESS STEEL

EMBER MESH

EVERKEM 814+

(INTUMESCENT

COR-A-VENT

VULCAN VENT

ROOF SHEATHING

—IN HIGH FIRE HAZARD ZONE, IF TILES USED,

TILËS MUST BE SEALED TO PREVENT

INTRUSION FROM AMBERS.

72# UNDERLAYMENT REQUIRED AND ENDS OF

STUCCO PER

STRUCTRUAL

STRUCTURAL

PLAN PER T24

GUTTER

MIN) WITH

VENTILATION

VENTING AS REQ'D

TRELLIS BEAM AND

LEDGER BOARD PER

PLAN (WHERE OCCURS)

T&G STARTER BD

AT PORCH

BEAM TO POST

PORCH, SEE

STRUCTURAL

TRIM 🔸

STONE

CAP SHINGLES TO -

MATCH ROOF

ARCHITECTURAL

SHINGLES OVER

BITIMINUOUS

UNDERLAYMENT AND

MEMBRANE LAYERS

RIDGE VENT, TYP.

AND SIZES OF METALLIC PIPES, CONDUITS, OR TUBING MAY BE USED:

OP 25WB+ CAULK OF MPS-2+ PUTTY

A. COPPER TUBING-NOM. 4 IN DIAM. (OR SMALLER) TYPE M (OR HEAVIER) COPPER TUBING. B. COPPER PIPE-NOM. 4 IN DIAM. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

D. CONDUIT—NOM. 4 IN DIAM. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR RIGID STEEL CONDUIT

FILL, VOID OR CAVITY MATERIALS (BEARING THE UL CLASSIFICATION MARKING) -CAULK OR PUTTY MIN. 1/2 IN. DIAMETER BEAD CAULK

OR PUTTY APPLIED CONTINUOUSLY AROUND THE PENETRATE ON THE WALL SURFACES ON BOTH SIDES OF THE WALL. 3M COMPANY

C. STEEL PIPE-NOM. 4 IN DIAM. (OR SMALLER) SCHEDULE 5 (OR HEAVIER) STEEL PIPE.

THROUGH PENETRATION @ WALL

. IRON PIPE-NOM. 4 IN DIAM. (OR SMALLER) CAST OR DUCTILE IRON PIPE

SHINGLES

CONNECTION AT

EAVE AT TRADITIONAL

TRELLIS POST AT CMU WALL - SPANISH

SYSTEM NO. W-L-1166 F RATING - 1 HR T RATING - 0 HR

—T&G STARTER BD.



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revisions

description

Architectural Details

20 January 2025

project no. RIVERSIDE ADU

drawn by DESIGN PATH STUDIO

RESIDENTIAL UNIT MANUEVERING BATHROOM NOTES (SINGLE BATHROOM OPTION)

40 INCHES (1016 MM) FROM THE FLOOR.

ADAPTABLE KNEE AND TOE SPACE.

MANEUVERING SPACE, AT LEAST 30 INCHES BY 48 INCHES, FOR A PERSON USING A WHEELCHAIR OR OTHER MOBILITY AID TO ENTER AND CLOSE THE DOOR, USE THE FIXTURES, REOPEN THE DOOR AND EXIT. THE MANEUVERING SPACE MAY INCLUDE ANY KNEE SPACE OR TOE SPACE. IF A DOOR IS PROVIDED TO A BATHROOM OR POWDER ROOM, IT SHALL HAVE MANEUVERING CLEARANCE AND

STRIKE EDGE DISTANCES

ADAPTABLE BATHING AND TOILET FACILITIES OR POWDER ROOMS SHALL PROVIDE A SUFFICIENT

THE MINIMUM FLOOR SPACE PROVIDED AT A WATER CLOSET SHALL BE 48 INCHES IN CLEAR WIDTH. THE CLEAR FLOOR SPACE SHALL EXTEND PAST THE FRONT EDGE OF THE WATER CLOSET AT LEAST 36 INCHES. THE MINIMUM HEIGHT OF WATER CLOSET SEATS SHALL BE 15 INCHES ABOVE THE FLOOR.

WATER CLOSET CONTROLS SHALL BE MOUNTED NO MORE THAN 44 INCHES ABOVE THE FLOOR THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUND-FORCE (22.2 N). BATHROOMS OR POWDER ROOMS THAT WOULD LIKE TO BE MANEUVERABLE SHALL HAVE MIRRORS OR TOWEL

VANITIES AND LAVATORIES SHALL BE INSTALLED WITH THE CENTERLINE OF THE FIXTURE A MINIMUM OF 18 INCHES HORIZONTALLY FROM AN ADJOINING WALL OR FIXTURE TO ALLOW FOR FORWARD APPROACH. WHEN PARALLEL APPROACH IS PROVIDED, LAVATORIES SHALL BE INSTALLED WITH THE CENTERLINE OF THE FIXTURE A MINIMUM OF 24 INCHES (610 MM) HORIZONTALLY FROM AN ADJOINING WALL OR FIXTURE. THE TOP OF THE FIXTURE RIM SHALL BE A MAXIMUM OF 34 INCHES (864 MM) ABOVE THE FINISHED FLOOR.

FIXTURES PROVIDED, AT LEAST ONE OF EACH SHALL BE MOUNTED WITH THE BOTTOM EDGE NO HIGHER THAN

MIRROR AND TOWEL FIXTURES SHALL BE MOUNTED WITH THE BOTTOM EDGE NO HIGHER THAN 40 INCHES

A CLEAR MANEUVERING SPACE AT LEAST 30 INCHES BY 48 INCHES SHALL BE PROVIDED AT LAVATORIES AND CABINETS UNDER LAVATORIES ARE ACCEPTABLE PROVIDED THE BATHROOM HAS SPACE TO ALLOW A PARALLEL APPROACH BY A PERSON IN A WHEELCHAIR AND THE LAVATORY CABINETS ARE DESIGNED WITH

THE KNEE SPACE SHALL BE AT LEAST 30 INCHES (762 MM) WIDE AND 8 INCHES DEEP. AT LEAST 29 INCHES HIGH AT THE FRONT FACE, REDUCING TO NOT LESS THAN 27 INCHES AT A POINT 8 INCHES BACK FROM THE FRONT

THE KNEE AND TOE SPACE REQUIRED FOR A SINK SHALL BE PROVIDED BY ONE OF THE FOLLOWING:

-THE SPACE BENEATH THE LAVATORY SHALL BE LEFT CLEAR AND UNOBSTRUCTED. -ANY CABINET BENEATH THE LAVATORY SHALL BE REMOVABLE WITHOUT THE USE OF SPECIALIZED KNOWLEDGE OR SPECIALIZED TOOLS OR, DOORS TO THE CABINET BENEATH THE LAVATORY SHALL BE REMOVABLE OR OPENABLE TO PROVIDE THE REQUIRED UNOBSTRUCTED KNEE AND TOE SPACE.

THE TOE SPACE REQUIRED UNDER SINKS SHALL BE AT LEAST 30 INCHES WIDE CENTERED ON THE LAVATORY. AT LEAST 17 INCHES DEEP, MEASURED FROM THE FRONT EDGE AND AT LEAST 9 INCHES HIGH FROM THE

THE FINISHED FLOOR BENEATH THE LAVATORY SHALL BE EXTENDED TO THE WALL. (SEC. 1134A.8)

HOT WATER AND DRAIN PIPES EXPOSED UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES (SEC. 1134A.8)

FAUCET CONTROLS AND OPERATION MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING. PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUND-FORCE (22.2 N). SELF CLOSING VALVES SHALL REMAIN OPEN

WATER CLOSETS SHALL BE LOCATED WITHIN BATHROOMS IN A MANNER THAT PERMITS A GRAB BAR TO BE INSTALLED ON ONE SIDE OF THE FIXTURE. IN LOCATIONS WHERE WATER CLOSETS ARE ADJACENT TO WALLS OR BATHTUBS, THE CENTERLINE OF THE FIXTURE SHALL BE A MINIMUM OF 18 INCHES FROM THE OBSTACLE. THE OTHER (NON GRAB BAR) SIDE OF THE WATER CLOSET SHALL BE A MINIMUM OF 18 INCHES FROM THE CENTERLINE OF THE FIXTURE TO THE FINISHED SURFACE OF ADJOINING WALLS, VANITIES OR FROM THE EDGE

PROVIDE NOMINAL 6 INCH HIGH REINFORCEMENT ON BOTH SIDES OR ONE SIDE AND REAR OF WATER CLOSETS PLACED ADJACENT TO A SIDE WALL, INSTALL REINFORCEMENT BETWEEN 32 AND 38 INCHES ABOVE THE FLOOR. REAR BACKING SHALL BE AT LEAST 40 INCHES LONG. SIDE REINFORCEMENT SHALL BE A MAXIMUM OF 12 INCHES FROM THE REAR WALL EXTENDING A MINIMUM OF 26 INCHES IN FRONT OF THE WATER CLOSET. IF WATER CLOSETS ARE NOT PLACED ADJACENT TO A SIDE WALL, PROVIDE FOR INSTALLATION OF FLOOR-MOUNTED, FOLDAWAY OR SIMILAR ALTERNATIVE GRAB BARS

ON THE SIDE OF A BATHTUB OR BATHTUB-SHOWER COMBINATION THERE SHALL BE A MINIMUM CLEAR FLOOR SPACE 48 INCHES PARALLEL BY 30 INCHES PERPENDICULAR (1219 MM BY 762 MM) (MEASURED AT THE FOOT OR DRAIN END OF THE BATHTUB) TO PROVIDE FOR THE MANEUVERING OF A WHEELCHAIR AND TRANSFER TO AND FROM THE BATHING FACILITY. THE AREA UNDER A LAVATORY MAY BE INCLUDED IN THE CLEAR FLOOR SPACE

NOT REQUIRE FIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUND-FORCE (22.2 N). LEVER OPERATED, PUSH-TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. BATHTUB OR SHOWER ENCLOSURES IF PROVIDED, SHALL BE FULLY TEMPERED, LAMINATED SAFETY GLASS OR

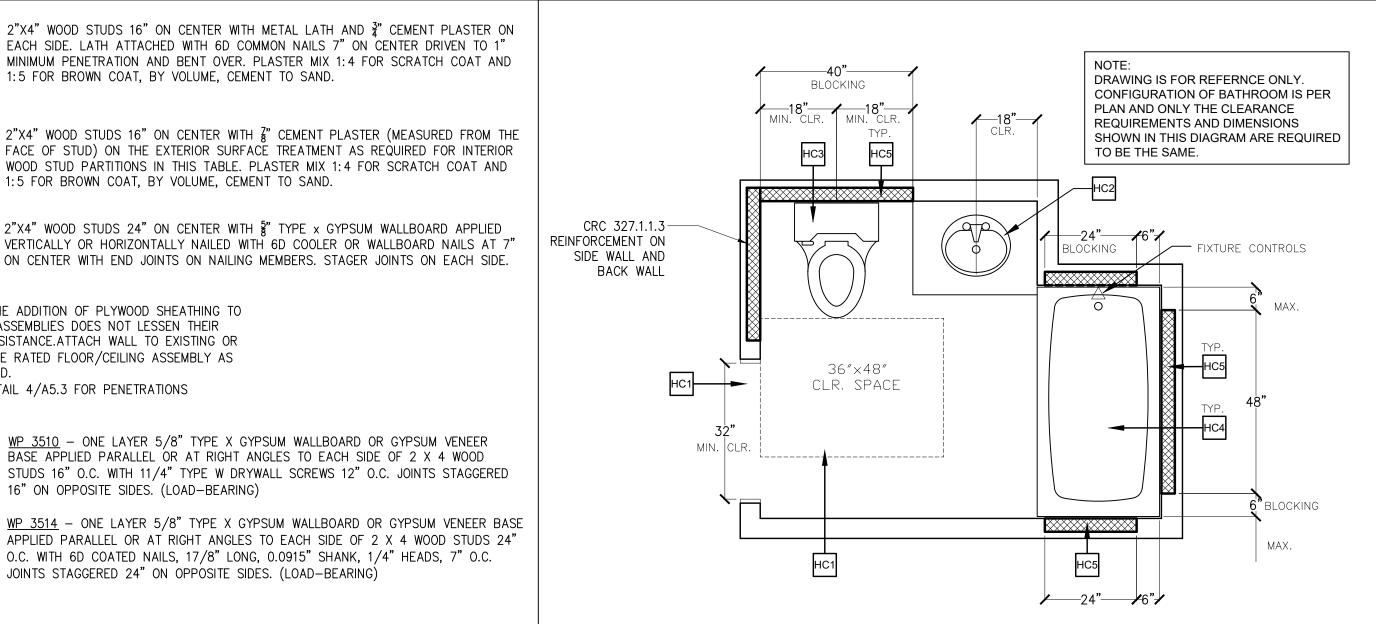
APPROVED PLASTIC. WHEN GLASS IS USED, IT SHALL HAVE MINIMUM THICKNESS OF NOT LESS THAN 1/8 INCH WHEN FULLY TEMPERED. OR 1/4 INCH WHEN LAMINATED. AND SHALL PASS THE TEST REQUIREMENTS OF THIS PART CHAPTER 24 GLASS AND GLAZING PLASTICS USED IN DOORS AND PANELS OF SHOWERS ENCLOSURES SHALL BE OF A SHATTER-RESISTANT TYPE. HINGED SHOWER DOORS SHALL OPEN OUTWARD

FAUCET CONTROLS AND OPERATION MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUND-FORCE (22.2 N). LEVER OPERATED, PUSH-TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS.

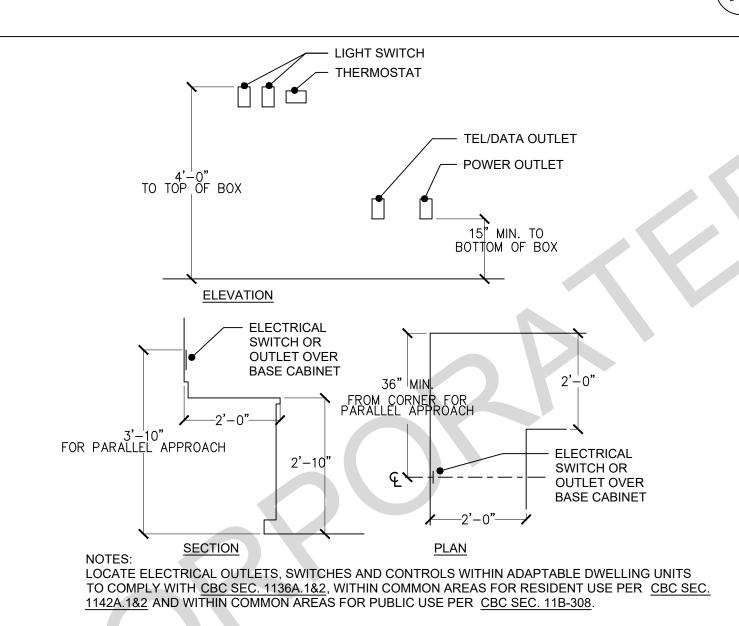
INSTALL GRAB BAR REINFORCEMENTS AT EACH END OF A BATHTUB, 32 TO 38 INCHES ABOVE THE FLOOR, STARTING AT THE FRONT FACE OF THE TUB EXTENDING 24 INCHES MINIMUM TO THE BACK FOR BATHTUBS WITH SURROUNDING WALLS. PROVIDE GRAB BAR REINFORCEMENTS AT THE BATHTUB BACK WALL STARTING WITHIN 6 INCHES ABOVE THE BATHTUB RIM, EXTENDING UP TO AT LEAST 38 INCHES ABOVE THE FLOOR, AND EXTENDING HORIZONTALLY TO WITHIN 6 INCHES OF THE END WALLS.

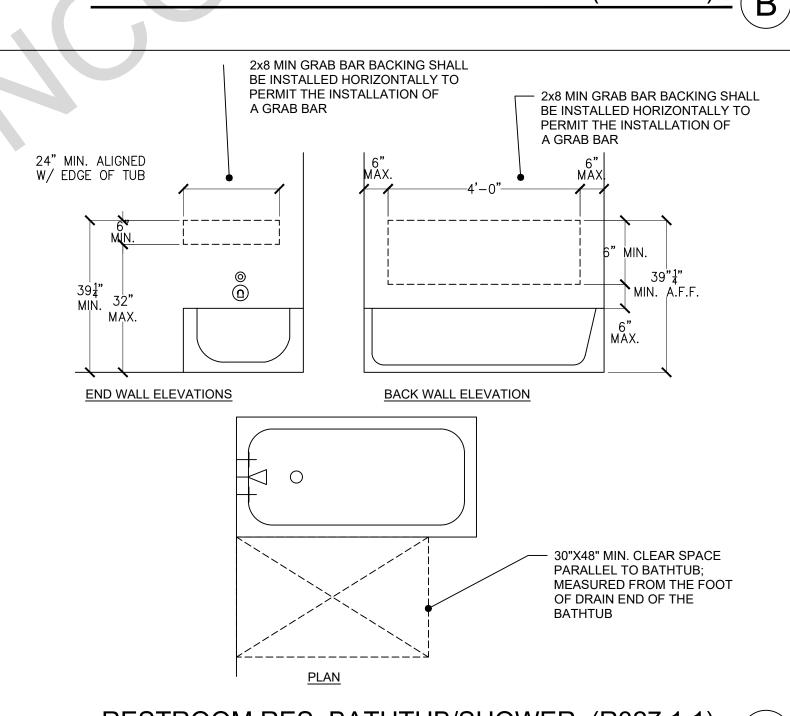
GRAB BAR REINFORCEMENT SHALL BE INSTALLED CONTINUOUS IN THE WALLS OF SHOWERS 32 INCHES TO 38 INCHES ABOVE THE FLOOR. THE GRAB BAR REINFORCEMENT SHALL BE A MINIMUM OF 6 INCHES (152.4 MM) NOMINAL IN HEIGHT. GLASS-WALLED SHOWER STALLS SHALL PROVIDE REINFORCEMENT FOR INSTALLATION OF FLOOR-MOUNTED OR CEILING-MOUNTED GRAB BARS.

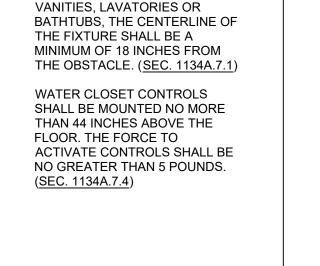
ELECTRICAL RECEPTACLES, SWITCHES, CONTROLS: IF THE REACH FOR A SWITCH OR OUTLET IS OVER AN OBSTRUCTION BETWEEN 20 AND 25 INCHES IN DEPTH. THE MAXIMUM HEIGHT IS REDUCED TO 44 INCHES FOR SIDE APPROACH PROVIDED THE OBSTRUCTION IS NO MORE THAN 24 INCHES IN DEPTH. OBSTRUCTIONS SHALL NOT EXTEND MORE THAN 25 INCHES FROM THE WALL BENEATH A CONTROL.



EXAMPLE AGING IN PLACE BATHROOM (CRC 327)







2"X4" WOOD STUDS 16" ON CENTER WITH METAL LATH AND ₹" CEMENT PLASTER ON

FACE OF STUD) ON THE EXTERIOR SURFACE TREATMENT AS REQUIRED FOR INTERIOR

WOOD STUD PARTITIONS IN THIS TABLE. PLASTER MIX 1:4 FOR SCRATCH COAT AND

2"X4" WOOD STUDS 24" ON CENTER WITH \{ \}" TYPE x GYPSUM WALLBOARD APPLIED

VERTICALLY OR HORIZONTALLY NAILED WITH 6D COOLER OR WALLBOARD NAILS AT 7"

ON CENTER WITH END JOINTS ON NAILING MEMBERS. STAGER JOINTS ON EACH SIDE.

WP 3510 - ONE LAYER 5/8" TYPE X GYPSUM WALLBOARD OR GYPSUM VENEER

BASE APPLIED PARALLEL OR AT RIGHT ANGLES TO EACH SIDE OF 2 X 4 WOOD

O.C. WITH 6D COATED NAILS, 17/8" LONG, 0.0915" SHANK, 1/4" HEADS, 7" O.C.

TOP OF DOORBELI

4'-0" TO TOP OF

DOORBELL BUTTON

NOTES:

WHERE WATER CLOSETS ARE NOT PLACED ADJACENT TO A SIDE WALL, PROVIDE FOR

INSTALLATION OF FLOOR-

MOUNTED, FOLDAWAY OR

SIMILAR ALTERNATIVE GRAB BARS. (<u>SEC. 1134A.7.2</u>)

IN LOCATIONS WHERE WATER

CLOSETS ARE ADJACENT TO

NON-GRAB BAR WALLS,

JOINTS STAGGERED 24" ON OPPOSITE SIDES. (LOAD-BEARING)

DOORBELL BUTTONS OR CONTROLS, WHEN INSTALLED, SHALL NOT EXCEED 48 INCHES ABOVE EXTERIOR FLOOR

INTEGRATED WITH OTHER FEATURES ARE REQUIRED TO BE INSTALLED ABOVE 48 INCHES MEASURED FROM THE

EXTERIOR FLOOR OR LANDING, A STANDARD DOORBELL BUTTON OR CONTROL SHALL ALSO BE PROVIDED AT A

HEIGHT NOT EXCEEDING 48 INCHES ABOVE EXTERIOR FLOOR OR LANDING, MEASURED FROM THE TOP OF THE

OR LANDING, MEASURED FROM THE TOP OF THE DOORBELL ASSEMBLY. WHERE DOORBELL BUTTONS

FIRE RESISTIVE 1-HOUR WOOD FRAMED WALLS

STUDS 16" O.C. WITH 11/4" TYPE W DRYWALL SCREWS 12" O.C. JOINTS STAGGERED

EACH SIDE. LATH ATTACHED WITH 6D COMMON NAILS 7" ON CENTER DRIVEN TO 1" MINIMUM PENETRATION AND BENT OVER. PLASTER MIX 1:4 FOR SCRATCH COAT AND

1:5 FOR BROWN COAT, BY VOLUME, CEMENT TO SAND.

1:5 FOR BROWN COAT, BY VOLUME, CEMENT TO SAND.

(1.) NOTE: THE ADDITION OF PLYWOOD SHEATHING TO

(2.) SEE DETAIL 4/A5.3 FOR PENETRATIONS

THESE ASSEMBLIES DOES NOT LESSEN THEIR

FIRE RESISTANCE.ATTACH WALL TO EXISTING OR

NEW FIRE RATED FLOOR/CEILING ASSEMBLY AS

16" ON OPPOSITE SIDES. (LOAD-BEARING)

2X4 (MIN) WOOD STUDS

7" CEMENT PLASTER. —

2X4 (MIN) WOOD STUDS

§" TYPE X GYM BOARD.

7" CEMENT PLASTER. -

2X4 (MIN) WOOD STUDS

(C)

§" TYPE X GYM BOARD.

15-1.2

REQUIRED.

DOORBELL BUTTONS REQUIREMENTS

ELEVATION

MAX.

DOORBELL BUTTONS (R327.1.4)

ELEVATIONS

CRC R327.1.4

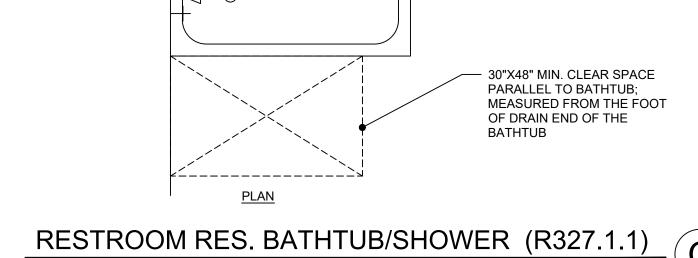
DOORBELL BUTTON OR CONTROL.

RESTROOM RES. WATER CLOSET (CRC 327)

GRAB BAR

BLOCKING





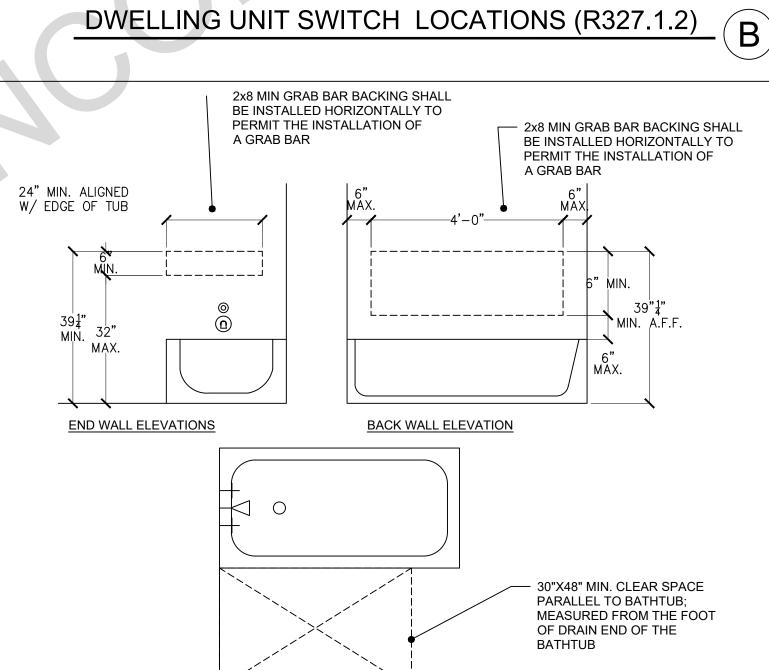
HC1

AT LEAST ONE BATHROOM AND ONE BEDROOM ON THE ENTRY LEVEL SHALL PROVIDE
A DOORWAY WITH A NET CLEAR OPENING OF NOT LESS THAN 32", MEASURED WITH
THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM THE CLOSED POSITION THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM THE CLOSED POSITION.

LAVATORY ACCESSIBILITY REQUIREMENTS SEE NOTES UNDER THE "RESIDENTIAL UNIT MANEUVERING BATHROOM NOTES."

MINIMUM 48"x36" CLEAR MANEUVERING SPACE PERPENDICULAR TO THE SIDE OF TH BATHTUB/SHOWER COMBO FLUSH AT THE FOOT OF THE TUB/SHOWER WALL WITH

A REMOVABLE BASE CABINET



MANEUVERING BATHROOM KEYNOTES

MANEUVERABLE LAVATORY PER PLAN W/ A REMOVABLE BASE CABINET. FOR

MINIMUM 48"x36" CLEAR MANEUVERING SPACE PERPENDICULAR TO THE SIDE OF THE

MINIMUM 48"x30" CLEAR MANEUVERING SPACE CENTERED AT THE LAVATORY. CLEAR

MANEUVERABLE WATER CLOSET PER PLAN. FOR WATER CLOSET ACCESSIBIL REQUIREMENTS SEE NOTES UNDER THE "RESIDENTIAL UNIT MANEUVERING BATHROOM NOTES." MANEUVERABLE WATER CLOSET PER PLAN. FOR WATER CLOSET ACCESSIBILITY THE 1 HR. FIRE RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN UL FIRE RESISTANCE DIRECTORY & SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES: BATHROOM NOTES." A. STUDS-WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STEEL. WOOD STUDS TO CONSIST OF NOM. 2 IN MANEUVERABLE 60"L (MIN.) TUB/SHOWER COMBINATION FED FLAIR. 1 O.X TUB/SHOWER ACCESSIBILITY REQUIREMENTS SEE NOTES UNDER THE "RESIDENTIAL UNIT MANEUVERING BATHROOM NOTES." BY 4 IN. LUMBER SPACED 16 IN. O.C. STEEL STUDS TO BE MIN. 3 1/2 IN. WIDE & SPACED MAX. 24 IN. O.C. B. GYPSUM BOARD (BEARING THE UL CLASSIFICATION MARKING)-THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS REQUIRED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX. DIAM. OF OPENING IS 5 IN. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED HC5 REINFORCED 2x8 BLOCKING IN WALL FOR FUTURE GRAB BARS. (CRC R327.1.1.2) ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN THE PIPE, CONDUIT OR TUBING AND PERIPHERY OF THE OPENING SHALL BE MIN. OF 0 IN. (POINT CONTACT) TO A MAX. 1/8 IN. PIPE CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES

HC7 MINIMUM 48"x30" CLEAR MANEUVERING SPACE CENTERED AT THE LAVATORY. CLEAR SPACE SHALL BE ALLOWED TO ENCROACH THE UNDERSIDE OF THE LAVATORY WITH

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

4-8d box, 3-8d Com, 3-10d box, 3-3"x.131 nails, 3-3" 14 gage staples

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

8-16d Com. 12-16d Box. 12-10d Box. 12-3" x 0.131" nails. 12-3" 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

3-10d Com, 4-10d box, 4-3"x0.131" nails, 4-3" 14 gage staples

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 Com @ 16" o.c OR 16d Box @ 12" o.c.

FOOTNOTES:

4-8d Com, 4-10d Box, 5-8d box

16d Box, 3" x 0.131" nails, 3" 14 gage staples USING THESE PERMIT READY CONSTRUCTION 2-16d Com. 3-16d Box.4-3"x.131" nails,4-3" 14 gage staples DOCUMENTS, THE RECIPIENT ACKNOWLEDGES, THE USE OF THIS INFORMATION IS RESTRICTED TO THE ORIGINAL PROJECT FOR WHICH WAS PREPARED FOR THE PERMIT READY 3-16d Box, 2-16d Com, 3-10d Box, 3-3"x0.131" nails, 3-3" 14 gage staples ACCESSORY DWELLING UNIT (ADU) PROGRAM FOR THE COUNTY OF RIVERSIDE ONLY THIS IS A 2-16d Com, 3-10d box, 3-3" x 0.131" nails, 3-3" 14 gage staples LIMITED SET OF STANDARDIZED ADU PLANS AND 3-8d Box, 2-8d Com, 2-10d Box, 2-3" x 0.131" nails, 2-3" 14 gage staples SIDE BUILDING DEPARTMENT. BUILDING CODES CHANGE OVER TIME AND RECIPIENT SHALI ENSURE FULL COMPLIANCE UNDER ALL CODES THEN IN EFFECT AT THE TIME OF THE SUBJECT PERMIT. THIS DOES NOT ELIMINATE OR REDUCE TH 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 RESPONSIBL XPIRED OR IS REVOKED AT ALL. THE RECIPIENT RECOGNIZES AND ACKNOWLEDGE HAT THE USE OF THIS INFORMATION WILL BE AT THEIR SOLE RISK AND WITHOUT ANY LIABILITY OF 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 3-16d Com, 4-10d Box, 4-3"X0.131, 4-3" 14ga. STAPLES DESIGN PATH STUDIO AND ITS ARCHITECTS 2-8d Com, 2-10d box, 2-3" x 0.131" nails, 2-3" 14 gage staples 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. 5. THE DESIGNS REPRESENTED BY THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION. 4. IF THE RECIPIENT DOES NOT AGREF WITH TH CONSTRUCTION OF AN ADU OR OTHER IMPROVEMENT UNDER THESE PLANS AT ALL.

project

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

revisions

description Structural Notes & Specifications

20 January 2025

project no. RIVERSIDE ADU

drawn by DESIGN PATH STUDIO

sheet no.

WOOD FRAMING CONSTRUCTION (CONT.)

204. PROVIDE WEAKENED PLANE JOINTS FOR CRACK CONTROL (SAWCUT OR TOOLED JOINT) AT 14'-0" O/C MAX.

2. CONCRETE FOUNDATION CONSTRUCTION

ON THE PLANS.

200. THE FIELD INSPECTOR SHALL VERIFY FOUNDATION REQUIREMENTS DURING FOUNDATION INSPECTION

201. CONCRETE STRENGTH SHALL BE NO LESS THAN 2,500 PSI @ 28 DAYS, OR HIGHER STRENGTH IF NOTED

203. REINFORCING BARS TO BE GRADE 40 FOR #3 BARS, GRADE 60 FOR #4 BARS & LARGER

202. SLAB REINFORCEMENT & FOOTINGS SHALL BE PER STRUCTURAL DETAILS ON SHEET S5, CENTERED IN SLAB.

205. SILL ANCHORAGE AT ALL SHEARWALL LOCATIONS SHALL BE PER THE SHEARWALL SCHEDULE ALL SHEARWALL ANCHOR BOLTS SHALL RECEIVE A 3" SQUARE X 0.229" THICK WASHER. THE WASHER MAY BE DIAGONALLY SLOTTED (WIDTH >= BOLT DIAMETER + $\frac{3}{16}$ ", LENGTH<=1 $\frac{3}{4}$ ") PROVIDED THAT A STANDARD CUT WASHER IS USED ON TOP OF THE SQUARE WASHER. SHEARWALL ANCHORS SHALL BE PLACED A MIN. OF $1\frac{3}{4}$ " FROM THE EDGE OF CONCRETE.

206. EMBEDDED SILL ANCHOR BOLTS AT TYPICAL NON-SHEARWALL CONDITIONS SHALL BE 🖁 " DIA. MIN. ANCHOR BOLTS WITH A STANDARD CUT WASHER. SPACING SHALL NOT EXCEED 48 INCHES O/C. LOCATE AN ANCHOR BOLT NOT MORE THAN 9 INCHES, OR LESS THAN 4" FROM ENDS AND SPLICES. EACH SILL SHALL HAVE (2) SILL BOLTS MIN

207. ANCHOR BOLTS SHALL BE EMBEDDED A MIN. OF 7 INCHES INTO CONCRETE. IN A TWO-POUR SYSTEM, ANCHOR BOLTS TO BE EMBEDDED 5 INCHES MIN. INTO FIRST POUR.

208. SEE WOOD FRAMING CONSTRUCTION NOTES FOR ALTERNATE SILL ANCHORAGE.

209. ALL HOLDOWNS SHALL BE PLACED A MINIMUM DIM AS SHOWN IN DETAIL S5 FROM EXTERIOR CORNER OF SLAB.

210. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. SUBCONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. IMMEDIATELY NOTIFY HOMEOWNER AND COUNTY OF RIVERSIDE OF ANY DISCREPANCY, TYPICAL

211. PROVIDE A UFER GROUND FOR ELECTRICAL SYSTEM PER ARTICLE 250.52 N.E.C.

212. ALL SURROUNDING FLAT WORK SHALL BE VERIFIED WITH HOMEOWNER FOR LOCATION AND AMOUNT TO BE POURED

213. RETROFIT MISPLACED HOLDOWNS AS NOTED BELOW. AT EPOXY ANCHORS USE SIMPSON SET-XP EPOXY PER MANUFACTURERS INSTALLATION REQUIREMENTS AS FOLLOWS: MISPLACED HOLDOWN RETROFIT BOLT MIN EDGE DISTANCE REPLACEMENT HD 5/8" ALL-THREAD, EMBED 6" HDU2 5/8" ALL-THREAD, EMBED 6" 4.5" HDU4 5/8" ALL-THREAD, EMBED 9" HDU5 HDU8 7/8" ALL-THREAD, EMBED 9" HDU8 HDU11 1" ALL-THREAD, EMBED 12" 7'

214 RETROFIT \(\frac{5}{8} \)" EMBEDDED ANCHOR BOLTS AS NOTED BELOW. AT EPOXY ANCHURS USE SIMPSON SEI-XP EPOXY PER SIMPSON'S INSTALLATION REQUIREMENTS. LOCATION REPLACEMENT SLAB EDGE. 1 3/4" DIST. SHEARWALL ⁵ " ALL-THREAD. EPOXY. EMBED 3"

INTERIOR > 6," EDGE DIST. SHEARWALL OR NON-SHEAR

0.145 DIA. SHOT PINS SPACED 4 INCHES ANY OTHER **NON-SHEAR** APART ON SILL. (2) FOR EACH MISSING ANCHOR BOLT. MAX. OF (6) SHOT PINS

OR $\frac{5}{8}$ " TITEN HD, EMBED $5\frac{1}{2}$ " MIN.

·" TITEN HD, EMBED 5½" MIN.

EVERY 6 FT. ^{215.} WHEN REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION. HAVE CONTRACTOR DOCUMENTATION IN WRITING FOR THE FOLLOWING:

A) THE PAD WAS PREPARED IN ACCORDANCE WITH THE SITE REQUIREMENTS AND COUNTY OF RIVERSIDE APPROVAL B) THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED & COMPACTED.

C) THE FOUNDATION EXCAVATIONS. EXPANSIVE CHARACTERISTICS AND BEARING

CAPACITY COMPLIES WITH THE COUNTY OF RIVERSIDE RECOMMENDATIONS

216. ALL HOLDOWN ANCHORS & HARDWARE MUST BE TIED IN PLACE PRIOR TO CALLING FOR A FOUNDATION INSPECTION

3. WOOD FRAMING CONSTRUCTION

300. ROOFING MATERIALS SHALL BE PER ARCHITECTURAL DRAWINGS.

301. ROOF SHEATHING SHALL BE $\frac{19}{39}$ " OR $\frac{5}{8}$ " C-D GRADE, INTERIOR TYPE PLYWOOD WITH EXTERIOR GLUE, OR OSB PANELS. IDENTIFICATION INDEX (24/0) W/ 10D COMMON NAILS @ 6" O/C @ ALL PERIMETER EDGES AND ALL INTERIOR SUPPORTED EDGES AND @ 12" O/C @ ALL INTERMEDIATE SUPPORTS. SEE DETAILS FOR SHEAR AND DRAG NAILING.

302. TYPICAL WALL SHEATHING:

INTERIOR SURFACES: WHERE DRYWALL IS SPECIFIED, PROVIDE MIN. 5" GYPSUM WALLBOARD W/ 5D COOLER NAILS OR EQUAL @ 6" 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 & 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 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. SHEATHING (WOOD STRUCTURAL PANELS) MUST MEET THE REQUIREMENTS OF DOC PS1 OR PS2 IN ACCORDANCE WITH NDS SDPWS.

304. TOP PLATES SHALL BE DOUBLE 2X W/ WIDTH EQUAL TO STUDS BELOW, W/ (8)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.

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.

SILL PLATE ANCHORS:

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. IF OTHER TREATMENTS ARE USED, SEE NOTE 309.

308. FASTENERS IN CONTACT WITH PRESSURE TREATED WOOD: 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 ASTM A153.

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 OR 316 STAINLESS STEEL.

WHERE PRESSURE TREATED LUMBER IS INSTALLED IN AN EXTERIOR WET ENVIRONMENT. ALL NAILS AND FASTENERS IN CONTACT WITH THE PRESSURE TREATED LUMBER SHALL BE TYPE 303, 304, 305, OR 316 STAINLESS STEEL

309. RE-TIGHTEN ALL HOLDOWN ANCHORS JUST PRIOR TO COVERING THE WALL FRAMING.

310. ENGINEERED BEAMS ARE AS FOLLOWS: "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

LUMBER SPECIFICATIONS: ALL FRAMING LUMBER SHALL BE DOUGLAS FIR-LARCH. STUDS, PLATES & BLOCKING: 2X4 FRAMING LUMBER NOT LISTED BELOW STANDARD GRADE OR BETTER 92-1/4", 104-1/4", & 116-1/4" 2X4 STUDS STUD GRADE OR BETTER 2X4 STUDS OVER 10' #2 OR BETTER 2X4 SILLS & PLATES STANDARD OR BETTER 2X6 STUDS, SILLS, & PLATES #2 OR BETTER 4X4 STUDS & POSTS STANDARD OR BETTER OR #1 4X6. 6X6. & LARGER STUDS & POSTS #1 OR BETTER 4X4, 4X6 BEAMS & HEADERS #2 OR BETTER 4X8. 4X10. 4X12. 4X14 BEAMS & HEADERS #1 OR BETTER 6X4 BEAMS & HEADERS #2 OR BETTER 6X6 & LARGER BEAM & HEADERS **#1 OR BETTER** 2X10 AND LARGER RAFTERS AND JOISTS

312. HOLES, CUTOUTS, AND NOTCHES IN FRAMING MEMBERS: 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:

#1 OR BETTER

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 WRITING FROM THE ENGINEER OR ARCHITECT.

STUDS AND PLATES: SEE STRUCTURAL DETAILS 14 & 15 ON SHEET S5 FOR NOTCHING AND BORING.

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 TRIMMERS AT EACH 3-1/2 X 7-1/2 PSL OR LSL OR LARGER

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 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:

3. WOOD FRAMING CONSTRUCTION (CONT.)

BEAM OR JOIST SIMPSON/USP HANGER I-JOIST FLOOR JOISTS IUS, IUT, OR ITT HANGERS 1.75 X LSL AND LVL HU. HUS. OR WPU 2.69 X PSL AND LVL HU OR HWU 3.5 X PSL AND LVL HHUS OR HWU 5.25 X PSL AND LVL HHUS OR HWU 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: A) APPROXIMATELY SQUARE HOLES NOTCHED. PUNCHED. OR CUT THAT ARE LESS THAN 25 SQ. INCHES

B) APPROXIMATELY SQUARE HOLES CLEAN CUT OR BORED IN SHEARWALLS THAT ARE 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 SHEARWALL) WITH ALL EDGES BLOCKED & EDGE NAILED.

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

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.

327. REDWOOD OR PRESSURE-TREATED LUMBER IS TO BE USED AT STRUCTURAL MEMBERS FOR BUILDING, BALCONIES, PORCHES OR SIMILAR APPURTENANCES WHEN EXPOSED TO THE WEATHER WITHOUT ADEQUATE PROTECTION OF A ROOF, EAVE, OVERHANG, OR OTHER COVERING TO PREVENT MOISTURE OR WATER ACCUMULATION.

4. ICC-ES AND NER APPROVALS

HTTP://WWW.ICC-ES.ORG 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 GLU-LAM BEAMS-- ESR-1940 PACIFIC WOOD TECH - ESR 2909

400. PLYWOOD AND OSB PANELS:

APA PLYWOOD & OSB--ESR-2586

02. WOOD CONNECTORS: SIMPSON CONNECTORS--ICC-ES ESR #S 1161, 1622, 1866, 2105, 2203, 2236, 2320, 2549, 2551, 2552, 2553, 2330, 2554, 2555, 2604, 2605, 2606, 2607, 2608, 2611, 2613, 2614, 2615, 2616, 2877, 2920, 3046 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, IAPMO 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 WEDGE-ALL (WA) WEDGE ANCHORS--ICC-ES ES-1771 SIMPSON TITEN HD--ICC-ESR-1056, 2713

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

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: 8D 2 $\frac{1}{2}$ " X 0.135 WIRE BARBED NAILS BY CUTLER OR EQUAL.

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

504. SHEAR PANELS WHERE 8D COMMON NAILS ARE SPECIFIED:

0.148

0.162

12D

	10D 2 ½ " X 0.148" WIRE BARBED NAILS BY CUTLER OR EQUAL					1		C IMPORTANG	CE FACTO)R			1	
NAIL S	SIZES				C&C PRESS	URES			2.400 0.900	Sds: Sd1:	1.920 1.020		Cs: R:	0.269 6.5
SIZE OF NAIL	STANDARD LENGTH JAILS		SIZE (INCHES)	PENETRATION REQUIRED	<u> </u>	28 sf 30 sf -39.5 psf -39.3 psf	N	METHO	EISMIC FOR D: EQUIVALE ATIONS.					
6D 8D 10D 12D 16D	2" 2 " 3" 3" 3 "	12 11 10 10	0.099 0.113 0.128 0.128 0.135	1" 1" 1" 1 "	` '	f -45.5 psf -45.1 psf -76.0 psf -75.2 psf 16.0 psf 16.0 psf	F E	WIND S RISK C <i>A</i> EXPOSL	SIGN CRITEF PEED (V-ult) TEGORY JRE AL PRESSUR					129 mph II C 0.18
16D SINKER COMN 6D 8D 10D	3" MON NA 2" 2\frac{1}{2\frac{1}{2}} " 3"	9	0.148 0.113 0.131 0.148	1" 1" 1" 1" 1 ¹ / ₄ "	(-) ZONE 5 -1.58 ps	21 sf 48 sf -34.7 psf -32.9 psf -41.6 psf -38.0 psf 31.9 psf 30.1 psf	F F	ROOF [PORCH TRELLIS	DL	28 psf 33 psf 6 psf 3 psf		ROOF LI PORCH TRELLIS	LL	20 psf 20 psf 10 psf

FULL REPORTS FOUND AT:

'. DESIGN CRITERIA 700. BUILDING CODE: 2022 CALIFORNIA BUILDING CODE

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

ANALYSIS TRUCTURAL

704. SNOW LOADING: WORST CASE PER RIVERSIDE COUNTY

RECOMMENDATIONS: 63 PSF

OF THE BUILDING.

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 **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 CONT. HEADER TO STUD, T.N. 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 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 4-8d Box, 4x10d Box, 4-8d Com, 3-16d Box, 4-3"x0.131" nails, 4-3" 14 gage staples **ENDNAIL** TOP PLATES, LAPS AT CORNERS AND INTERSECTION, F.N. 1" BRACE TO EACH STUD AND PLATE, F.N. 1"x6" SHEATHING TO EACH BEARING, F.N 1"x8" SHEATHING AND WIDER TO EACH BEARING, F.N. JOIST TO SILL, TOP PLATE, OR GIRDER, T.N. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER 1"x6" SUBFLOOR OR LESS TO EACH JOIST, F.N. 2" SUBFLOOR TO JOIST OR GIRDER, F.N. or BLIND 2" PLANKS (PLANK & BEAM - FLOOR & ROOF), FACENAIL & EACH BEARING BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS

BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS EACH END, T.N.

BLKNG AT CEILING JOISTS, RAFTERS, OR TRUSSES TO TOP PLATE OR OTHER FRAMING, T.N.

CEILING JOISTS ATTACHED TO PARALLEL RAFTER (HEEL JOINT), F.N. PER 2308.7.3.1

FLAT BLKNG TO TRUSS AND WEB, F.N.

RAFTER/TRUSS TO TOP PLATE, T.N. PER TABLE 2308.7.3.5

CEILING JOISTS TO TOP PLATE, T.N.

COLLAR TIE TO RAFTER, F.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.

CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS, F.N. PER 2308.7.3.1

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 4-8d box, 3-8d Com, 3-10d Box, 3-3" x 0.131" nails, 3-3" 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 2-1.75" Gage Staples, 2-8d Com, 3-10d Box 3-16d Box, 2-16d Com 3-16d Box, 2-16d Com 32" o.c. FN Top & BTTM STAGGERED ON OPPOSITE SIDES 10d Box, 3"x0.131" nails, 3" 14 gage staples 24" o.c. FN Top & BTTM 2-20d Com, 3-10d Box, 3-3"x0.131" nails, 3-3" 14 gage staples ENDS & SPLICES, FN LEDGER SUPPORTING JOISTS/RAFTERS 4-16d Box, 3-16d Com, 4-10d Box, 4-3"X0.131, 4-3" 14ga. STAPLES JOIST TO BAND OR RIM JOIST, END NAIL

6. NAILING SCHEDULE, MINIMUMS (CBC CHAPTER 23, TABLE 2304.10.2)

WOOD STRUCT. PANELS, SUBFLOOR, ROOF AND INTERIOR WALL SHTNG TO FRMG AND EDGES INTERMEDIATE PARTICI FBOARD 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) $1\frac{3}{4}$ " 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. $\frac{7}{48}$ " crown (roof) 8d Com or deformed (subfloor and wall) for wall sheathing are permitted to be common, box or casing. b. Spacing shall be 6 inches on center on the edges and 12 inches on 8d Com or deformed (roof) or $2\frac{3}{8}$ " x.113" nail (roof) 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 $1\frac{1}{4}$ " x0.120", galvanized roofing nail ($\frac{7}{16}$ " 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 $\frac{1}{2}$ " & LESS | 6d corrosion-resistant siding ($\frac{17}{8}$ "x.106"); or 6d corrosion-resistant (2"x.099") g. Nails and staples are carbon steel meeting the specifications of 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 INTERIOR PANELING

practice or approved under Section 104.11. 6 4d casing (1½"x0.080"); or 4d finish (1½"x0.072") 6d casing (2"x0.099"); or 6d finish (2"x.092") - (Panel supports at 24 inches)

8. STATEMENT OF SPECIAL INSPECTIONS

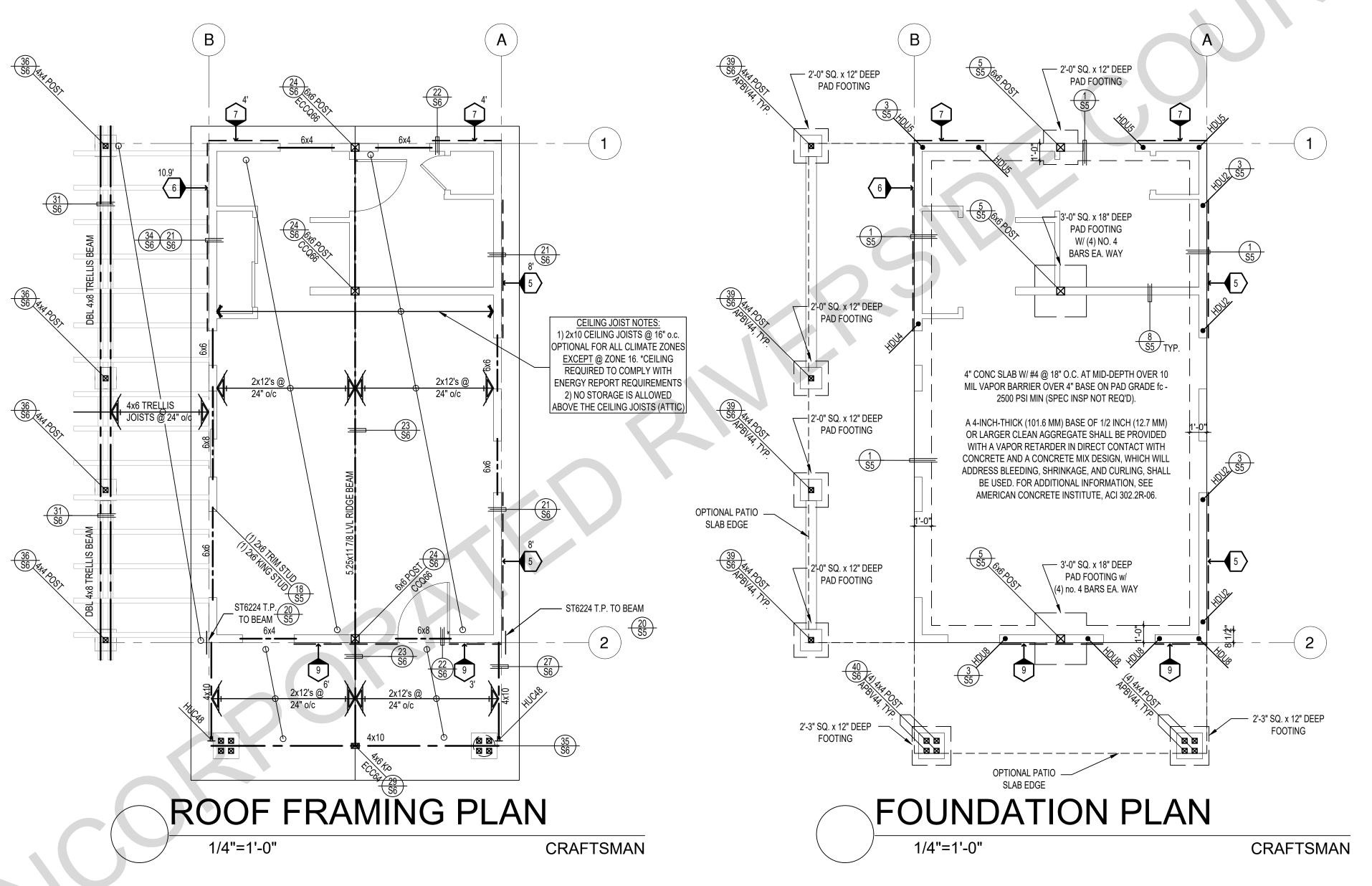
800. RETROFIT ANCHOR BOLTS FOR MISPLACED HOLDOWNS WITH ALL-THREAD ROD AND SIMPSON SET-XP EPOXY REQUIRE SPECIAL INSPECTION. (NO SPECIAL INSPECTION IS REQUIRED FOR RETROFIT ANCHOR BOLTS OR TITEN HD's WITHOUT A HOLDOWN ATTACHED.) REFER TO NOTE 213 FOR MINIMUM EMBEDMENT AND EDGE DISTANCE REQUIREMENTS. 801. 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 1705.13 SPECIAL INSPECTION IS NOT REQUIRED FOR SEISMIC COMPONENTS FOR DETTACHED ONE- AND TWO-FAMILY DWELLINGS NOT EXCEEDING 2 STORIES ABOVE

9. SOILS REPORT

A SOILS REPORT MAY BE REQUIRED BY THE BUILDING OFFICIAL. IN-LIEU OF THE SOILS REPORT A CONSERVATIVE VALUE FOR THE SOIL BEARING ALLOWABLE OF 1500 PSF HAS BEEN USED IN DESIGN



SHEAR WALL SCHEDULE (ASD VALUES)

FOUNDATION NOTES

- 1. ALL ANCHOR BOLTS, HOLDOWN ANCHORS, & REINF. MUST BE SECURELY TIED IN PLACE PRIOR TO FDTN. INSP.
- 2. ALL EXTERIOR STUDS TO BE 2x6 @ 16" O.C.

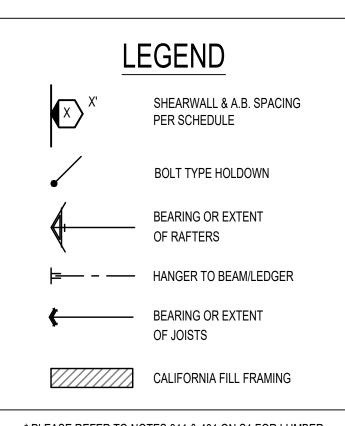
TO BE 4" (AND A MAXIMUM OF 12")

- 3. THE MINIMUM NOMINAL ANCHOR BOLT DIAMETER SHALL BE 5/8 INCH NOTE: THIS WILL REQUIRE A MINIMUM DISTANCE FROM THE ENDS OF SILL PLATES
- PLATE WASHERS (MINIMUM SIZE OF 3" x 3" x 1/4") SHALL BE USED ON EACH ANCHOR BOLT.
- 5. PROVIDE CONC SLAB JOINTS AT NO MORE THAN 15 FT EA. WAY
- S. SEE SHEET S5 FOR TYP. CONCRETE & SLAB DETAILS 1-8
- 7. POSTS W/O SPECIFIED BASE SHALL BE NAILED TO BOLTED SILL PLATES W/ (2) 16d T.N. EA SIDE, TYP.
- 8. FOOTINGS ADJACENT TO SLOPES GREATER THAN OR EQUAL TO 33.3% SHALL COMPLY WITH SETBACK REQUIREMENTS DEFINED IN CBC 1808.7.

	4	5	6	7	8	9
SHEARWALL DESCRIPTION (See footnotes 1& 4)	3" ply. C-D or C-C sheathing, (1) side w/ 8d @ 6" o/c edge, 12" o/c field, blocked (See footnotes 3 & 6)	3/8" ply. C-D or C-C sheathing, (1) side w/ 8d @ 4" o/c edge, 12" o/c field, blocked (See footnotes 3 & 6)	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, & 6)	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, & 6)	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, & 6)	$^{15}\!\!/_{32}$ " 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, & 6)
SHEAR VALUE (PLF)	260*	375*	490*	550*	665*	870*
ANCHOR BOLT SPACING	½" @ 48" or ½" @ 32"	½" @ 32" or ½" @ 24"	½" @ 24" or ½" @ 16"	½" @ 24" or ½" @ 16"	½" @ 16" or ½" @ 12"	½" @ 12" or ½" @ 8"
SPACING OF A35/LTP4 FRAMING TO TOP PLATE	24" O.C.	16" O.C.	12" O.C.	12" O.C.	8" O.C.	8" O.C.

SHEAR WALL FOOTNOTES

- (1) AT PLYWOOD OR OSB PS-1 OR PS-2 RATED PANELS USE COMMON NAILS OR GALVANIZED BOX NAILS (2) LAYERS OF PAPER EXTERIOR PLYWOOD REQUIRED. SHEARSHALL BE APPLIED OVER STUDS @ 16" O/C. GALVANIZED NAILS SHALL NOT BE HOT-DIPPED OR TUMBLED.
- (2) SILL PLATES & WASHERS SHALL COMPLY WITH THE CONCRETE FOUNDATION CONSTRUCTION AND WOOD FRAMING CONSTRUCTION NOTES. (SEE NOTES #206, 208, 209. 307, 308, 309, ETC.)
- (3) IN PLYWOOD SHEARWALLS, THE EDGE OF THE 3" SQUARE WASHERS (SEE NOTE #206) SHALL BE ½" OR LESS FROM THE EDGE OF THE SILL PLATE ON THE SIDE OF THE SHEATHING. ALL NAILING SHALL BE ¾" MIN. FROM THE EDGE OF SHEATHING.
- (4) WHERE ALLOWABLE SHEAR VALUES EXCEED 350 PLF (SHEARWALL TYPES 6, 7, 8, & 9) ALL FRAMING RECEIVING NAILING FROM ABUTTING PANEL EDGES SHALL NOT BE LESS THAN A SINGLE 3" NOMINAL MEMBER OR (2) 2X MEMBERS STITCH NAILED WITH 10D, SPACING EQUAL TO THE E.N. SPACING. PLYWOOD JOINT AND SILL NAILING SHALL BE STAGGERED.
- (5) IN SHEARWALL TYPES 8 & 9, SILL PLATE NAILING SHALL BE STAGGERED.
- (6) WHERE NOISE INSULATION IS REQUIRED, STRUCTURAL SHEAR PANELS TO BE UPGRADED TO ½" WSP, ALL OTHER EXTERIOR SURFACES TO BE SHEATH WITH GRADE D MIN. ½" SOLID SHEATHING WITH 6" O.C. EDGE NAILING, 12" O.C. FIELD NAILING.
- (7) ALL ANCHOR BOLTS AND HOLD-DOWN BOLT NUTS SHALL BE TIGHTENED PRIOR TO WALL COVERING.
- (*) ALLOWABLE SHEAR VALUES FOR PLYWOOD SHEARWALLS MAY BE INCREASED BY 40% UNDER WIND LOADING.



* PLEASE REFER TO NOTES 311 & 401 ON S1 FOR LUMBER GRADE SPECIFICATIONS.

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project

County of Riverside Pre-Approved ADU Program

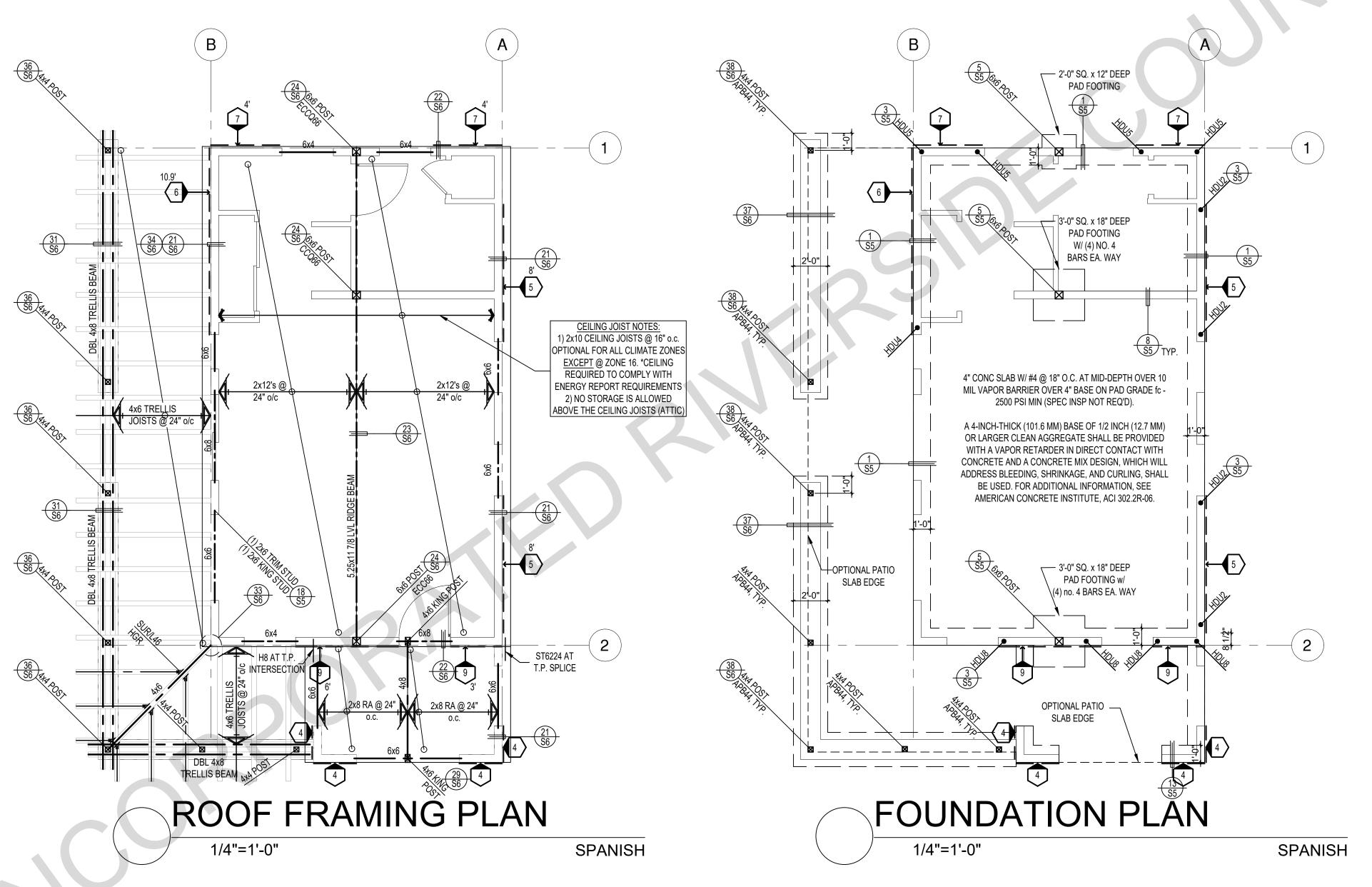
Craftsman
Foundation
& Framing
Plan

date 20 January 2025

project no. RIVERSIDE ADU

drawn by DESIGN PATH STUDIO

eet no.



SHEAR WALL SCHEDULE (ASD VALUES)

FOUNDATION NOTES

- 1. ALL ANCHOR BOLTS, HOLDOWN ANCHORS, & REINF. MUST BE SECURELY TIED IN PLACE PRIOR TO FDTN. INSP.
- 2. ALL EXTERIOR STUDS TO BE 2x6 @ 16" O.C.

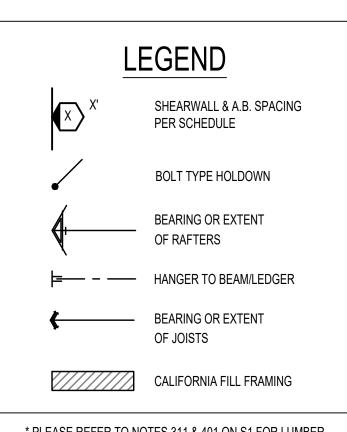
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- 3. THE MINIMUM NOMINAL ANCHOR BOLT DIAMETER SHALL BE 5/8 INCH NOTE: THIS WILL REQUIRE A MINIMUM DISTANCE FROM THE ENDS OF SILL PLATES
- PLATE WASHERS (MINIMUM SIZE OF 3" x 3" x 1/4") SHALL BE USED ON EACH ANCHOR BOLT.
- 5. PROVIDE CONC SLAB JOINTS AT NO MORE THAN 15 FT EA. WAY
- 6. SEE SHEET S5 FOR TYP. CONCRETE & SLAB DETAILS 1-87. POSTS W/O SPECIFIED BASE SHALL BE NAILED TO BOLTED SILL PLATES W/ (2)
- 16d T.N. EA SIDE, TYP.
- 8. FOOTINGS ADJACENT TO SLOPES GREATER THAN OR EQUAL TO 33.3% SHALL COMPLY WITH SETBACK REQUIREMENTS DEFINED IN CBC 1808.7.

	4	5	6	7	8	9
SHEARWALL DESCRIPTION (See footnotes 1& 4)	$\frac{3}{8}$ " ply. C-D or C-C sheathing, (1) side w/ 8d @ 6" o/c edge, 12" o/c field, blocked (See footnotes 3 & 6)	3/8" ply. C-D or C-C sheathing, (1) side w/ 8d @ 4" o/c edge, 12" o/c field, blocked (See footnotes 3 & 6)	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, & 6)	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, & 6)	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, & 6)	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, & 6)
SHEAR VALUE (PLF)	260*	375*	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" @ 12"	5%" @ 12" or ½" @ 8"
SPACING OF A35/LTP4 FRAMING TO TOP PLATE	24" O.C.	16" O.C.	12" O.C.	12" O.C.	8" O.C.	8" O.C.

SHEAR WALL FOOTNOTES

- (2) SILL PLATES & WASHERS SHALL COMPLY WITH THE CONCRETE FOUNDATION CONSTRUCTION AND WOOD FRAMING CONSTRUCTION NOTES. (SEE NOTES #206, 208, 209. 307, 308, 309, ETC.)
- IN PLYWOOD SHEARWALLS, THE EDGE OF THE 3" SQUARE WASHERS (SEE NOTE #206) SHALL BE ½" OR LESS FROM THE EDGE OF THE SILL PLATE ON THE SIDE OF THE SHEATHING. ALL NAILING SHALL BE 3/8" MIN. FROM THE EDGE OF SHEATHII
- (4) WHERE ALLOWABLE SHEAR VALUES EXCEED 350 PLF (SHEARWALL TYPES 6, 7, 8, & 9) ALL FRAMING RECEIVING NAILING FROM ABUTTING PANEL EDGES SHALL NOT BE LESS THAN A SINGLE 3" NOMINAL MEMBER OR (2) 2X MEMBERS STITCH NAILED WITH 10D, SPACING EQUAL TO THE E.N. SPACING. PLYWOOD JOINT AND SILL NAILING SHALL BE STAGGERED.
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project

County of Riverside Pre-Approved ADU Program

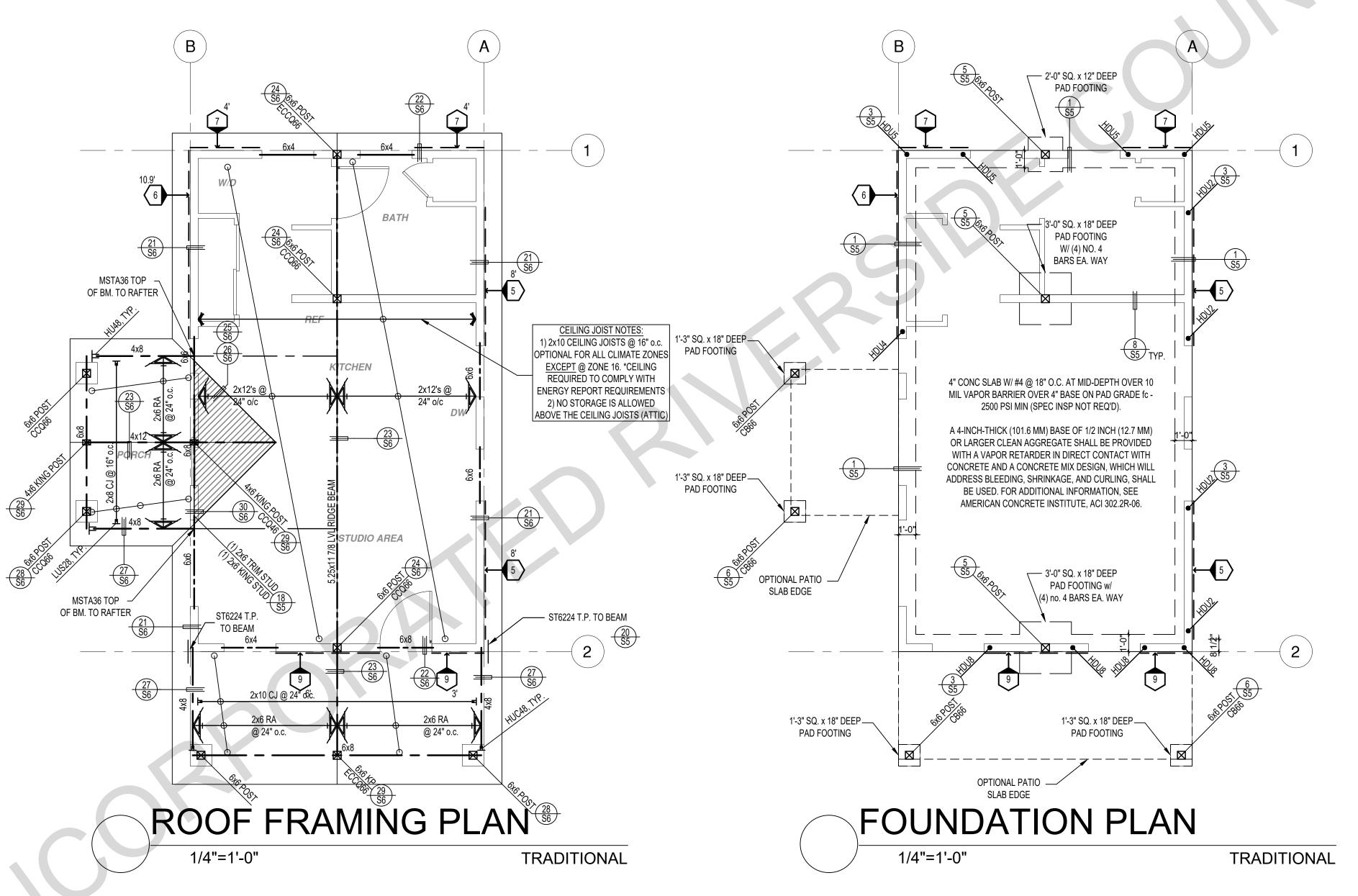
Spanish
Foundation
& Framing
Plan

date 20 January 2025

project no. RIVERSIDE ADU

drawn by DESIGN PATH STUDIO

eet no. S3



SHEAR WALL SCHEDULE (ASD VALUES)

FOUNDATION NOTES

- 1. ALL ANCHOR BOLTS, HOLDOWN ANCHORS, & REINF. MUST BE SECURELY TIED
- IN PLACE PRIOR TO FDTN. INSP.
 2. ALL EXTERIOR STUDS TO BE 2x6 @ 16" O.C.

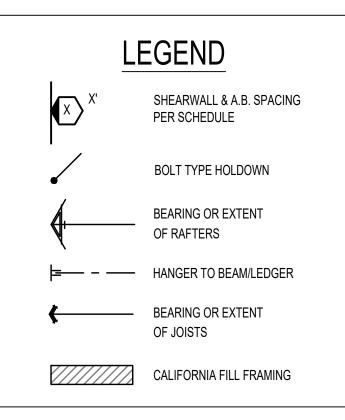
TO BE 4" (AND A MAXIMUM OF 12")

- 3. THE MINIMUM NOMINAL ANCHOR BOLT DIAMETER SHALL BE 5/8 INCH NOTE:
 THIS WILL REQUIRE A MINIMUM DISTANCE FROM THE ENDS OF SILL PLATES
- PLATE WASHERS (MINIMUM SIZE OF 3" x 3" x 1/4") SHALL BE USED ON EACH ANCHOR BOLT.
- 5. PROVIDE CONC SLAB JOINTS AT NO MORE THAN 15 FT EA. WAY
- 6. SEE SHEET S5 FOR TYP. CONCRETE & SLAB DETAILS 1-8
- 7. POSTS W/O SPECIFIED BASE SHALL BE NAILED TO BOLTED SILL PLATES W/ (2) 16d T.N. EA SIDE, TYP.
- 8. FOOTINGS ADJACENT TO SLOPES GREATER THAN OR EQUAL TO 33.3% SHALL COMPLY WITH SETBACK REQUIREMENTS DEFINED IN CBC 1808.7.

	4	5	6	7	8	9
SHEARWALL DESCRIPTION (See footnotes 1& 4)	$\frac{3}{8}$ " ply. C-D or C-C sheathing, (1) side w/ 8d @ 6" o/c edge, 12" o/c field, blocked (See footnotes 3 & 6)	3/8" ply. C-D or C-C sheathing, (1) side w/ 8d @ 4" o/c edge, 12" o/c field, blocked (See footnotes 3 & 6)	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, & 6)	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, & 6)	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, & 6)	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, & 6)
SHEAR VALUE (PLF)	260*	375*	490*	550*	665*	870*
ANCHOR BOLT SPACING	½" @ 48" or ½" @ 32"	½" @ 32" or ½" @ 24"	½" @ 24" or ½" @ 16"	½" @ 24" or ½" @ 16"	½" @ 16" or ½" @ 12"	½" @ 12" or ½" @ 8"
SPACING OF A35/LTP4 FRAMING TO TOP PLATE	24" O.C.	16" O.C.	12" O.C.	12" O.C.	8" O.C.	8" O.C.

SHEAR WALL FOOTNOTES

- (1) AT PLYWOOD OR OSB PS-1 OR PS-2 RATED PANELS USE COMMON NAILS OR GALVANIZED BOX NAILS (2) LAYERS OF PAPER EXTERIOR PLYWOOD REQUIRED. SHEARSHALL BE APPLIED OVER STUDS @ 16" O/C. GALVANIZED NAILS SHALL NOT BE HOT-DIPPED OR TUMBLED.
- (2) SILL PLATES & WASHERS SHALL COMPLY WITH THE CONCRETE FOUNDATION CONSTRUCTION AND WOOD FRAMING CONSTRUCTION NOTES. (SEE NOTES #206, 208, 209. 307, 308, 309, ETC.)
- IN PLYWOOD SHEARWALLS, THE EDGE OF THE 3" SQUARE WASHERS (SEE NOTE #206) SHALL BE ½" OR LESS FROM THE EDGE OF THE SILL PLATE ON THE SIDE OF THE SHEATHING. ALL NAILING SHALL BE 3/8" MIN. FROM THE EDGE OF SHEATHII
- (4) WHERE ALLOWABLE SHEAR VALUES EXCEED 350 PLF (SHEARWALL TYPES 6, 7, 8, & 9) ALL FRAMING RECEIVING NAILING FROM ABUTTING PANEL EDGES SHALL NOT BE LESS THAN A SINGLE 3" NOMINAL MEMBER OR (2) 2X MEMBERS STITCH NAILED WITH 10D, SPACING EQUAL TO THE E.N. SPACING. PLYWOOD JOINT AND SILL NAILING SHALL BE STAGGERED.
- (5) IN SHEARWALL TYPES 8 & 9, SILL PLATE NAILING SHALL BE STAGGERED.
- (6) WHERE NOISE INSULATION IS REQUIRED, STRUCTURAL SHEAR PANELS TO BE UPGRADED TO ½" WSP, ALL OTHER EXTERIOR SURFACES TO BE SHEATH WITH GRADE D MIN. ½" SOLID SHEATHING WITH 6" O.C. EDGE NAILING, 12" O.C. FIELD NAILING.
- (7) ALL ANCHOR BOLTS AND HOLD-DOWN BOLT NUTS SHALL BE TIGHTENED PRIOR TO WALL COVERING.
- (*) ALLOWABLE SHEAR VALUES FOR PLYWOOD SHEARWALLS MAY BE INCREASED BY 40% UNDER WIND LOADING.



* PLEASE REFER TO NOTES 311 & 401 ON S1 FOR LUMBER GRADE SPECIFICATIONS.

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project

County of Riverside Pre-Approved ADU Program

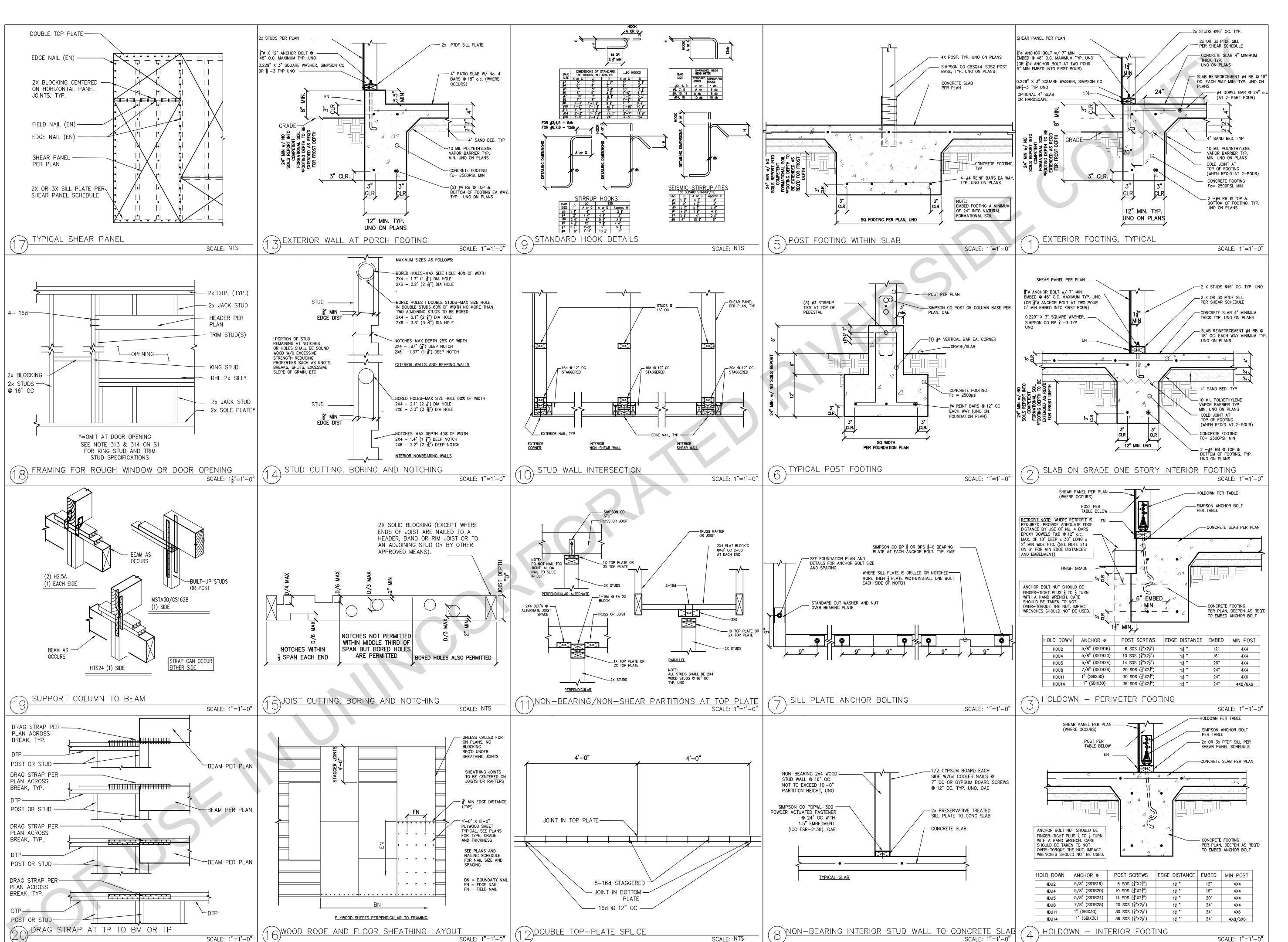
Traditional Foundation & Framing Plan

date 20 January 2025

project no. RIVERSIDE ADU

drawn by DESIGN PATH STUDIO

eet no. S4



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Architecture + engineering + planning

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project

County of Riverside Pre-Approved ADU Program

revisions

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Structural Details

date 20 January 2025

project no. RIVERSIDE ADU

drawn by DESIGN PATH STUDIO

sheet no.

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project

County of Riverside Pre-Approved ADU Program

Structural Details

date 20 January 2025
project no. RIVERSIDE ADU

drawn by DESIGN PATH STUDIO

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project

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

revisions

description

Example Energy Calculations

20 January 2025

project no. RIVERSIDE ADU

drawn by Design Path Studio

Inside Finish: Gypsum Board Cavity / Frame: R-19 in 5-1/2 in. (R-18) /

Exterior Finish: 3 Coat Stucco

BUILDING ENERGY ANALYSIS REPORT PROJECT: Riverside County ADU Studio Riverside County, CA 92522 Project Designer: Design Path Studio P.O. Box 230165 Encinitas, CA 92023 619-292-8807 Report Prepared by:

Design Path Studio

Job Number:

12/30/2024

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

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2022 Building Energy Efficiency Standards.

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01-E Project Name: Riverside County ADU Studio - Palm Springs Calculation Date/Time: 2024-12-30T10:49:44-08:00 (Page 3 of 12) Calculation Description: Title 24 Analysis Input File Name: Riverside County ADU Studio.ribd22x

Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft ² -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft ² -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	0.05	0.36	0.48	3.54	-0.43	-3.18
Space Cooling	6.57	117.09	5.56	106.4	1.01	10.69
IAQ Ventilation	0.46	4.82	0.46	4.82	0	0
Water Heating	2.43	25.63	1.81	20.3	0.62	5.33
Self Utilization/Flexibility Credit			74 15 m	0		0
North Facing Efficiency Compliance Total	9.51	147.9	8.31	135.06	1.2	12.84
Space Heating	0.05	_ 0.36	0.55	4.05	-0.5	-3.69
Space Cooling	6.57	117.09	5.49	106.58	1.08	10.51
IAQ Ventilation	0.46	4.82	0.46	4.82	0	0
Water Heating	2.43	25.63	1.81	20.33	0.62	5.3
Self Utilization/Flexibility Credit	,			0		0
East Facing Efficiency Compliance Total	9.51	147.9	8.31	135.78	1.2	12.12

Registration Number: 424-P010328282A-000-000-000000-0000

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD		CF1R-PRF-01-E
Project Name: Riverside County ADU Studio - Palm Springs	Calculation Date/Time: 2024-12-30T10:49:44-08:00	(Page 6 of 12)
Calculation Description: Title 24 Analysis	Input File Name: Riverside County ADU Studio.ribd22x	

REQUIRED PV SYS	TEMS										
01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception	Module Type	Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Acces (%)
2.39	NA	Standard (14-17%)	Fixed	none	true	150-270	n/a	n/a	<=7:12	96	98

REQUIRED SPECIAL FEATURES The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis. 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 brand/model, or equivalent, must be installed

HERS FEATURE SUMMARY					
				ergy performance for this computer analysis. Addition	onal
detail is provided in the building tables below	Registered CF2Rs and CF3Rs are required to b	e completed in the HE	RS Registry		
Quality insulation installation (QII)					

•	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)	-	
١.	Ductless indoor units located entirely in conditioned space (SC3 1 4 1 8)		

Indoor air quality ventilation

,	,				
01	02	03	04	05	06
BUILDING - FEATURES INFORMA	ATION				
Ductless indoor units loca	ted entirely in conditioned sp	ace (SC3.1.4.1.8)			
 Wall-mounted thermostat 	t in zones greater than 150 ft2	2 (SC3.4.5)	_		

BUILDING - FEATURES INFORMA	ATION					
01	02	03	04	05	06	07
Project Name	Conditioned Floor Area (ft ²)	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
Riverside County ADU Studio - Palm Springs	495	1	1	1	0	1

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01-E Calculation Date/Time: 2024-12-30T10:49:44-08:00 Project Name: Riverside County ADU Studio - Palm Springs (Page 1 of 12) Calculation Description: Title 24 Analysis Input File Name: Riverside County ADU Studio.ribd22x

01	Project Name	Riverside County ADU Studio - Palm Springs			
02	Run Title	Title 24 Analysis			
03	Project Location	_	3 ° 2		
04	City	Riverside County	05	Standards Version	2022
06	Zip code	92522	07	Software Version	EnergyPro 9.2
08	Climate Zone	15	09	Front Orientation (deg/ Cardinal)	All orientations
10	Building Type	Single family	11	Number of Dwelling Units	1
12	Project Scope	Newly Constructed	13	Number of Bedrooms	1
14	Addition Cond. Floor Area (ft ²)	0	15	Number of Stories	1
16	Existing Cond. Floor Area (ft ²)	n/a	17	Fenestration Average U-factor	0.3
18	Total Cond. Floor Area (ft²)	495	19	Glazing Percentage (%)	23.43%
20	ADU Bedroom Count	n/a	21	ADU Conditioned Floor Area	n/a
22	Fuel Type	Natural gas	23	No Dwelling Unit:	No

01 Building Complies with Computer Performance O2 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

Registration Number: 424-P010328282A-000-000-0000000-0000 Registration Date/Time: 12/30/2024 15:19 HERS Provider: CHEERS NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (and cannot guarantee, the accuracy or completeness of the information contained in this document CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Report Generated: 2024-12-30 10:50:40 Schema Version: rev 20220901

CF1R-PRF-01-E

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

So the country of the control of the	e County ADU Studio - Palm S	prings	• * ***	: 2024-12-30T10:49:44-08:00		(Page 4 of 1
alculation Description	n: Title 24 Analysis		Input File Name: River	side County ADU Studio.ribd22	2x	
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft ² -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft ² -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2
Space Heating	0.05	0.36	0.52	3.82	-0.47	-3.46
Space Cooling	6.57	117.09	5.48	105.84	1.09	11.25
IAQ Ventilation	0.46	4.82	0.46	4.82	0	0
Water Heating	2.43	25.63	1.81	20.32	0.62	5.31
Self Utilization/Flexibility Credit				0		0
South Facing Efficiency Compliance Total	9.51	147.9	8.27	134.8	1.24	13.1
Space Heating	0.05	0.36	0.46	3.42	-0.41	-3.06
Space Cooling	6.57	117.09	5.58	107.43	0.99	9.66
IAQ Ventilation	0.46	4.82	0.46	4.82	0	0
Water Heating	2.43	25.63	1.81	20.29	0.62	5.34
Self Utilization/Flexibility Credit				0		0
West Facing Efficiency Compliance Total	9.51	147.9	8.31	135.96	1.2	11.94

Registration Number: 424-P010328282A-000-000-000000-0000
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Project Name: Calculation Des		nty ADU Studio - 24 Analysis	Palm Springs							-			19:44-08:00 Studio.ribd22x			(Page 7 of 12)
ZONE INFORMAT	TION															
01		02		03			04	1		. 0	5		06			07
Zone Nan	ne	Zone Type	HVAC	System	Name	Z	one Floor	Area (ft	t ²)	Avg. Ceilii	ng Height	W	/ater Heating Sy	stem 1		Status
ADU-Stud	lio	Conditioned	Minisp	olit ADU-	Studio1	1	495 9 DHW Sys 1								New	
PAQUE SURFAC	ES			*	1	1 1			₹ (, , , , , , , , , , , , , , , , , , ,			
01		02	0	3			04		05	7 7	06		07	'		08
Name		Zone	Constr	uction		Az	imuth	.0	rientation	, a	iross Area	(ft ²)	Window a Area (Tilt (deg)
Front Wall ADU-	Studio A	ADU-Studio	R-19	Wall			0		Front		153		32			90
Right Wall ADU-	t Wall ADU-Studio ADU-Studio R-19		Wall		270			Right		294		18	3	90		
Back Wall ADU-S	Studio A	ADU-Studio	R-19	Wall			180		Back		153		45	,		90
Left Wall ADU-S	tudio /	ADU-Studio	R-19	Wall			90		Left		294		21	•		90
OPAQUE SURFAC	ES _ CATHEDDA	L CELLINGS							7-3	· .				_		(
01	02	03	04		0	5	0	<u> </u>	07	7	08	Т	09	10		11
Name	Zone	Construction	Azimut	h	Orient	tation	Area	(ft²)	Skyligh (ft	ON CONTRACTOR OF THE PARTY OF T	Roof Rise 12)	(x in	Roof Reflectance	Roof Emit	tance	Cool Roof
Roof (cath) ADU-Studio	ADU-Studio	R-30 Roof No Attic	270_		Rig	ght	1 49	5 _ ~		~	3		0.1	0.85		No
ENESTRATION /	GLAZING					10			<u> </u>			1			-	
01	02	03	04	05		06	07	08	09	10		11	12	13		14
Name	Туре	Surface	Orientation	Azimu	uth	Width (ft)	Height (ft)	Mult.	Area (ft²)	U-facto	or I	actor urce	SHGC	SHGC Sou	rce	Exterior Shading
Window #A	Window	Front Wall ADU-Studio	Front	0				1	12	0.3	N	FRC	0.23	NFRC		Bug Screen
Door	Window	Front Wall ADU-Studio	Front	0				1	20	0.3	N	FRC	0.23	NFRC		Bug Screen

Registration Number: 424-P010328282A-000-000-0000000-0000 NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (and cannot guarantee, the accuracy or completeness of the information contained in this document Registration Date/Time: 12/30/2024 15:19 HERS Provider: CHEERS 5) using information uploaded by third parties not affiliated with or related to CHEERS. Therefore, CHEERS is not responsible for, CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Generated: 2024-12-30 10:50:40 Report Version: 2022.0.000 Schema Version: rev 20220901

Calculation Date/Time: 2024-12-30T10:49:44-08:00 **Project Name:** Riverside County ADU Studio - Palm Springs (Page 2 of 12) Input File Name: Riverside County ADU Studio.ribd22x Calculation Description: Title 24 Analysis ENERGY DESIGN RATINGS **Compliance Margins** Source Energy Efficiency¹ EDR Source Energy Efficiency¹ EDR Total² EDR (EDR1) (EDR1) (EDR2efficiency) (EDR2total) (EDR2efficiency) (EDR2total) Standard Design 40.8 **Proposed Design North Facing** 33.6 37.3 2.2 24.4 2.1 3.5 33.5 24.5 East Facing 37.5 2.2 2.1 37.2 33.5 24.3 2.2 2.3 South Facing West Facing 33.6 37.5 24.5 2.1 3.3 2.1 RESULT³: PASS ¹Efficiency EDR includes improvements like a better building envelope and more efficient equipment

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

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

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

Proposed PV Capacity Scaling: North (2.39 kWdc) East (2.39 kWdc) South (2.39 kWdc) West (2.39 kWdc)

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Calculation Description: Title	24 Analysis		Input File Name	: Riverside County ADU Studio.ribd22x	(
ENERGY USE INTENSITY					
	Standard Design (kBt	u/ft ² - yr)	Proposed Design (kBtu/ft ² - yr)	Compliance Margin (kBtu/ft ² - yr)	Margin Percenta
North Facing	·				
Gross EUI ¹	38.06		36.09	1.97	5.18
Net EUI ²	9.9		7.93	1.97	19.9
East Facing		The state of	N. J. X	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Gross EUI ¹	38.06	1	36.17	1.89	4.97
Net EUI ²	9.9		8.01	1.89	19.09
South Facing	•				
Gross EUI ¹	38.06		36.16	1.9	4.99
Net EUI ²	9.9		8	1.9	19.19
West Facing	خير				
Gross EUI ¹	38.06	3-5-7 7-8 M	36.34	1.72	4.52
Net EUI ²	9.9		8.18	1.72	17.37

HERS Provider: CHEERS lated to CHEERS. Therefore, CHEERS is not responsible for Registration Number: 424-P010328282A-000-000-000000-0000 NOTICE: This document has been generated by California Home Energy Efficiency Rating Services and cannot guarantee, the accuracy or completeness of the information contained in this document Registration Date/Time: 12/30/2024 15:19 Report Generated: 2024-12-30 10:50:40 Report Version: 2022.0.000 CA Building Energy Efficiency Standards - 2022 Residential Compliance Schema Version: rev 20220901

Project Name: R	iverside Co	unty ADU Studio -	- Palm Springs				Calcula	tion Date	e/Tim	e: 2024-	12-30T10	0:49:44-08	:00	(Page 8 of 1
Calculation Desc	ription: Ti	tle 24 Analysis					Input F	ile Name	: Rive	rside Co	unty ADL	J Studio.rik	od22x	
FENESTRATION /	GLAZING													
01	02	03	04	05	06	_ 07	.08	09	8	10	11	12	13	14
Name	Туре	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-f	factor	U-facto Source	I SHO	GC SHGC Sour	ce Exterior Shadi
Window (2) #B	Window	Right Wall ADU-Studio	Right	270			1	18	1	0.3	NFRC	0.2	3 NFRC	Bug Screen
Window (2) #E	Window	Back Wall ADU-Studio	Back	180	A Y		1	12	1	0.3	NFRC	0.2	3 NFRC	Bug Screen
Door 2	Window	Back Wall ADU-Studio	Back	180		·	1	33	(0.3	NFRC	0.2	3 NFRC	Bug Screen
Window #C	Window	Left Wall ADU-Studio	Left	90			1	6	(0.3	NFRC	0.2	3 NFRC	Bug Screen
Window #D	Window	Left Wall ADU-Studio	Left	90		Į .	1	15	(0.3	NFRC	0.2	3 NFRC	Bug Screen
SLAB FLOORS	9					N A	P.	<u> </u>				<u> </u>		
01		02	03 .		04			05			. 06		07	08
Name		Zone	Area (ft²		Perimete	r (ft)	_	Insul. R-va nd Depth	lue		nsul. R-va d Depth	lue Ca	rpeted Fraction	Heated
Slab-on-Grade	9	ADU-Studio	495		91			none		1	0		80%	No
OPAQUE SURFACE	CONSTRUC	CTIONS						-						
01		02	03			04		05		0	6	07		08
Construction N	lame	Surface Type	Construction	n Type	Fr	aming		Total Cav	/ity	Interior / Contir		U-factor	Assen	ably Layers

HERS Provider: CHEERS ated to CHEERS. Therefore, CHEERS is not responsible for, Registration Number: 424-P010328282A-000-000-000000-0000 NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (Chand cannot guarantee, the accuracy or completeness of the information contained in this document. Registration Date/Time: 12/30/2024 15:19 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Report Generated: 2024-12-30 10:50:40 Schema Version: rev 20220901

2x6 @ 16 in. O. C.

R-19 Wall

Exterior Walls

Wood Framed Wall

R-19

None / None

0.074

Registration Number: 424-P010328282A-000-000-0000000-0000 Registration Date/Time: 12/30/2024 15:19 NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (Cand cannot guarantee, the accuracy or completeness of the information contained in this document. CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Generated: 2024-12-30 10:50:40 Schema Version: rev 20220901

(Page 11 of 12)

Indoor Fan not

Running

___ BY USING THESE PERMIT READY CONSTRUCTION

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project

County of Riverside Pre-Approved ADU Program

revisions

description

Example Energy Calculations

20 January 2025

project no. RIVERSIDE ADU

drawn by design path studio

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Riverside County ADU Studio - Palm Springs Calculation Date/Time: 2024-12-30T10:49:44-08:00

CF1R-PRF-01-E

(Page 10 of 12)

09

Verified Heating

Cap 17

Calculation Descrip	ption: Title 24 Analy	sis .				Inp	ut File	Name:	Riverside	County A	DU Studio.ril	od22x			
WATER HEATING - H	ERS VERIFICATION														
01	02	2		03		04			05			06		07	
Name	Pipe Ins	ulation	Pa	rallel Piping	Cor	npact Distril	bution	Co	Compact Distrib Type		Recircula	tion Control	Show	Shower Drain Water He Recovery	
DHW Sys 1 - 1/2	1 Not Re	quired	N	ot Required	1	Not Require	ed		None	r	Not F	Required		Not Required	
						000	19. J			,	•				
SPACE CONDITIONIN	IG SYSTEMS	,			1 45				<u> </u>	_					
01	02	03		04		05			06		07	08		09	
Name	System Type	Heating Unit	t Name	Heating Equi Count		ooling Unit N	lame		g Equipmen Count	t Fa	n Name	Distribution I	Name	Required Thermostat Type	
Minisplit ADU-Studio1	Heat pump heating cooling	Heat Pump !	System	1	Н	eat Pump Sy 1	stem		1		n/a	n/a		Setback	
HVAC - HEAT PUMPS	<u> </u>					4		- 1							
01	02	03	04	05	06	07	3.	08	09	10	11	12		13	
				Hea	ting			6	Cooling						
Name	System Type	Number of Units	Heat Efficie Typ	ency HSPF/H		Cap 17	Effic	oling ciency ype	SEER/SE ER2	EER/EER 2/CEER	Zonally Controlled	Compressor Type	н	ERS Verification	
Heat Pump System 1	VCHP-ductless	1	HSP	PF 8,2	12000	10000	EÉR	RSEER	14	11.7	Not Zonal	Single Speed		eat Pump System 1-hers-htpump	

Registration Number: 424-P010328282A-000-000-0000000-0000 Registration Date/Time: 12/30/2024 15:19 HERS Provider: CHEERS NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (and cannot guarantee, the accuracy or completeness of the information contained in this document Report Version: 2022.0.000 Report Generated: 2024-12-30 10:50:40 CA Building Energy Efficiency Standards - 2022 Residential Compliance Schema Version: rev 20220901

05

SEER/SEER2

Not Required

06

Verified Refrigerant

Charge

Verified

HSPF/HSPF2

Verified Heating

Cap 47

	IDENTIAL I	VIEAS	UKES S									RMS-
	side County AD	U Stud	io		ding Type	☐ Mu	Iti Family	,		Addition	/Alteration	Date 12/30/20
Project A	Address erside County					ergy Clima ate Zor		Total	Cond. Flor	or Area	Addition n/a	# of Uni
	LATION				, (O III I I	Area	10 10		700		17/4	
	truction Typ	ое		Cav	ity	(ft^2)	s	peci	al Feat	ures		Status
Wall	Wood Framed			R 19		778						New
Roof	Wood Framed R	after		R 30		495						New
Slab	Unheated Slab-c	on-Grade		- no in	sulation	495	Perim	= 91'				New
							7	Ź				
	STRATION	162	Total Area:			Percenta		23.4%			ge U-Factor:	0.30
	ntation Area			SHGC	Over	hang	Sidef	ins	Exteri	or Sha	ades	Status
Front (N)		32.0	0.300	0.23	none		none		N/A			New
Right (W	,	18.0	0.300	0.23	none		none		N/A			New
Rear (S) Left (E)		45.0 21.0	0.300	0.23	none		none		N/A N/A			New
-on (L)		21.0	0.000	0.20	110110		710110		747.			71011
	C SYSTEMS		Min Eff	F. Co.	aling		Min	. 54		Thor	mostat	Status
Qty.	Heating	0	Min. Eff		oling it Heat Pi	ımp		n. Eff			mostat	Status New
		0	Min. Eff		oling it Heat Pt	ump		n. Eff	,	Ther Setback	mostat	Status New
Qty.	Heating Electric Heat Pump C DISTRIBUT	ION	8.20 HSPF	: Spi	it Heat Po		14.0	SEER		Setback D	uct	
Qty.	Heating Electric Heat Pump C DISTRIBUT	ION		: Spi	_			SEER		Setback D		
Qty. 1 HVAC	Heating Electric Heat Pump C DISTRIBUT	ION Hea	8.20 HSPF	: Spi	it Heat Pt		14.0	SEER		Setback D	uct -Value	New
Qty. 1 HVAC Locat Minisplit	Heating Electric Heat Pump C DISTRIBUT tion ADU-Studio	ION Hea	8.20 HSPF	Co	it Heat Pt	Duc	14.0	SEER		Setback D R	uct -Value	New Status
Qty. 1 HVAC Locat Minisplit	Heating Electric Heat Pump C DISTRIBUT tion	ION Hea	8.20 HSPF ating is / with Fan	Co	it Heat Pt	Duc n/a	14.0	ation	1	Setback D R	uct -Value	New Status
Qty. 1 HVAC Locat Minisplit	Heating Electric Heat Pump C DISTRIBUT tion ADU-Studio	ION Hea	8.20 HSPF ating is / with Fan	Co Duc	oling	Duc n/a	14.0	ation	1	Setback D R	uct -Value	Status New
Qty. 1 HVAC Locat Minisplit WATI Qty.	Heating Electric Heat Pump C DISTRIBUT tion ADU-Studio ER HEATING Type	ION Hea	8.20 HSPF ating is / with Fan	Co Duc	oling oling Min.	Duc n/a	14.0	ation	1	Setback D R	uct -Value	Status New Status
Qty. 1 HVAC Locat Minisplit WATI Qty.	Heating Electric Heat Pump C DISTRIBUT tion ADU-Studio ER HEATING Type	ION Hea	8.20 HSPF ating is / with Fan	Co Duc	oling oling Min.	Duc n/a	14.0	ation	1	Setback D R	uct -Value	Status New Status
HVAC Locat Minisplit WATI Qty.	Heating Electric Heat Pump C DISTRIBUT tion ADU-Studio ER HEATING Type	ION Hea Ductles	8.20 HSPF ating as / with Fan Gal	Co Duc	oling oling Min.	Duc n/a	14.0	ation	1	Setback D R	uct -Value	Status New Status

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 plenum. Airflow must
§ 150.0(m)13:	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
	Reference Residential Appendix RA3.3. *

§ 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 andcontrolled per §150.0(o)1Biii&iv. 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 not sharing ceilings 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.
§ 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)1Giii,enclosed kitchens and bathrooms can use demand-controlled or continuous exhaust meeting §150.0(o)1Giii-iv. Airflow must be measured by the installer per §150.0(o)1Gv, and rated for sound per §150.0(o)1Gvi.*
§ 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/griles 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)1G
ool and Spa Sy	stems 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 thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric resistance heating.*
§ 110.4(b)1:	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.
§ 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:	
	Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable
§ 110.9:	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, kitchen range hoods, bath vanity mirrors, and garage door openers; navigation lighting less than 5 watts; and lighting internal to drawers, cabinets, and linen closets 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 JAS.
150.0(k)1B: § 150.0(k)1C:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA3. * 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.
	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. 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)1C:	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. Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8

HVAC HEAT PUMPS - HERS VERIFICATION

Verified Airflow

Not Required

Airflow Target

Verified EER/EER2

Not Required

01

Heat Pump System

1-hers-htpump

CF1R-PRF-01-E

Assembly Layers

Roofing: Light Roof (Asphalt Shingle)

Roof Deck: Wood

Siding/sheathing/decking

Cavity / Frame: R-30 / 2x10 Inside Finish: Gypsum Board

(Page 9 of 12)

03 CFM50 **Building Envelope Air Leakage** N/A n/a

0.037

Calculation Date/Time: 2024-12-30T10:49:44-08:00

Total Cavity

R-value

Input File Name: Riverside County ADU Studio.ribd22x

Interior / Exterior

Continuous

R-value

None / None

WATER HEATING SYSTEMS 01 02 04 05 06 07 08 09 Water Heater Distribution Type | Water Heater Name | Number of Units **HERS Verification** System Type System Distribution Name (#) Domestic Hot DHW Sys 1 DHW Heater 1 n/a None n/a DHW Heater 1 (1) Water (DHW)

2x10 @ 16 in. O. C.

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Construction Type

Wood Framed

Ceiling

Project Name: Riverside County ADU Studio - Palm Springs

02

Surface Type

Cathedral Ceilings

Quality Insulation Installation (QII) High R-value Spray Foam Insulation

Calculation Description: Title 24 Analysis

BUILDING ENVELOPE - HERS VERIFICATION

Required

OPAQUE SURFACE CONSTRUCTIONS

01

Construction Name

R-30 Roof No Attic

WATER HEATERS - NEEA HEAT PUMP **NEEA Heat Pump NEEA Heat Pump** # of Units Tank Vol. (gal) **Tank Location** Duct Inlet Air Source | Duct Outlet Air Source Model Brand PROPH40 T2 DHW Heater 1 RH375SO (40 gal, ADU-Studio ADU-Studio JA13)

Registration Number: 424-P010328282A-000-000-000000-0000 NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (Ca and cannot guarantee, the accuracy or completeness of the information contained in this document. Registration Date/Time: 12/30/2024 15:19 HERS Provider: CHEERS CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Report Generated: 2024-12-30 10:50:40 Schema Version: rev 20220901

CERTIFICATE OF COMPLIANCE - RESIDENTIAL		6	CF1R-PRF-01-E
Project Name: Riverside County ADU Studio	- Palm Springs	Calculation Date/Time: 2024-12-30T10:49:44-08:00	(Page 12 of 12)
Calculation Description: Title 24 Analysis		Input File Name: Riverside County ADU Studio.ribd22x	
DOCUMENTATION AUTHOR'S DECLARATION STA	TEMENT		
1. I certify that this Certificate of Compliance docu	umentation is accurate and complete.		
Documentation Author Name:		Documentation Author Signature:	
Yvonne St. Pierre		Yvonne St. Pierre	
Company:		Signature Date:	
Design Path Studio		12/30/2024	
Address:		CEA/ HERS Certification Identification (If applicable):	
P.O. Box 230165			
City/State/Zip:	4	Phone:	
Encinitas, CA 92023		(760) 484-0253	
RESPONSIBLE PERSON'S DECLARATION STATEME	NT S		
I certify the following under penalty of perjury, under th	***************************************		
		e building design identified on this Certificate of Compliance.	
, 5,		Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the Califo e are consistent with the information provided on other applicable compliance do	9
	tted to the enforcement agency for approval with this		cuments, worksneets,
Responsible Designer Name:	No. of the Control of	Responsible Designer Signature:	
Yvonne St. Pierre		Yvonne St. Pierre	
Company:		Date Signed:	
Design Path Studio		12/30/2024	
Address:		License:	
P.O. Box 230165			
City/State/Zip:		Phone:	
Encinitas, CA 92023		(760) 484-0253	

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

5/6/22

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	2022 Single-Family Residential Mandatory Requirements Summary
0.5:	Pilot Lights. Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces; household co (except appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu pe spa heaters. *
	Building Cooling and Heating Loads. Heating and/or cooling loads are calculated in accordance with the ASHRAE

al gas: fan-type central furnaces; household cooking appliances h pilot lights that consume less than 150 Btu per hour); and pool ar ire 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 dryer.

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 (r 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 waterproof an non-crushable 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 heat pump water heater, and meet electrical and plumbing requirements, based on the distance between this designated space and the water heater location; and a condensate drain no § 150.0(n)1: 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 (IAPMC 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

Ducts. Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC). If 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 Duct Construction Standards Metal and Flexible 3rd Edition. Portions of supply-air and return-air ducts and plenums must be insulated to R-6.0 or higher; ducts located entirely 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 72: The combination of mastic and either mesh or tape must be used to seal openings greater than 1/2", 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 flexible duct must not be used to convey conditioned air. Building cavities and support platforms may contain ducts; ducts installed in these 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 cuct 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 dampers. Gravity Ventilation Dampers. Gravity ventilating systems serving conditioned space must have either automatic or readily accessible 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 to sunlight, moisture, equipment maintenance, and wind Insulation exposed to weather must be suitable for outdoor service (e.g., protected by aluminum, sheet metal, painted canyas, or plastic cover). Cellular foam insulation must be protected as above or painted with a water retardant and solar radiation-resistant coating. § 150.0(m)10: Porous Inner Core Flex Duct. Porous inner cores of flex ducts must have a non-porous layer or air barrier between the inner core and outer vapor barrier.

Duct System Sealing and Leakage Test. When space conditioning systems use forced air duct systems to supply conditioned air to a

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 Claan-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 th

5/6/22

SFam IAQVentRpt 29 0.35 Exhaust

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Airflow to

Habitable

Rooms

03

Fan Efficacy

(W/CFM)

Ductless Units

in Conditioned

Space

04

Project Name: Riverside County ADU Studio - Palm Springs

02

Airflow (CFM)

VARIABLE CAPACITY HEAT PUMP COMPLIANCE OPTION - HERS VERIFICATION

Low-Static

VCHP System

Calculation Description: Title 24 Analysis

Heat Pump System 1

INDOOR AIR QUALITY (IAQ) FANS

Dwelling Unit

Registration Number: 424-P010328282A-000-000-000000-0000 NOTICE: This document has been generated by California Home Energy Efficiency Rating Services and cannot guarantee, the accuracy or completeness of the information contained in this document. HERS Provider: CHEERS Registration Date/Time: 12/30/2024 15:19 Report Version: 2022.0.000 Report Generated: 2024-12-30 10:50:40 CA Building Energy Efficiency Standards - 2022 Residential Compliance Schema Version: rev 20220901

2022 Single-Eamily Posidential Mandatory Poquirements Sum

Calculation Date/Time: 2024-12-30T10:49:44-08:00

05 06

Wall Mount

Thermostat

Includes

Heat/Energy

Recovery?

No

Air Filter Sizing

& Pressure

Drop Rating

IAQ Recovery

SRE/ASRE

n/a / n/a

Input File Name: Riverside County ADU Studio.ribd22x

07

Ducts in

Conditioned

Includes Faul

Indicator Display?

Space

08

Airflow per

RA3.3 and

SC3.3.3.4.1

Certified

non-continuous

Fan

08

IERS Verification

	mily residential buildings subject to the Energy Codes must comply with all applicable mandatory measures, regardless of the compliance appr e respective section for more information.
§ 110.6(a)1:	Air Leakage. Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 CFM per square foot or less when tested per NFRC-400, ASTM E283, or AAMA/WDMA/CSA 101/I.S.2/A440-2011. *
§ 110.6(a)5:	Labeling. Fenestration products and exterior dcors must have a label meeting the requirements of § 10-111(a).
§ 110.6(b):	Field fabricated exterior doors and fenestration products must use U-factors and solar heat gain coefficient (SHGC) values from Tables 110.6-A, 110.6-B, or JA4.5 for exterior doors. They must be caulked and/or weather-stripped. *
§ 110.7:	Air Leakage. All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be caulked, gasketed, or weather stripped.
§ 110.8(a):	Insulation Certification by Manufacturers. Insulation must be certified by the Department of Consumer Affairs, Bureau of Househ Goods and Services (BHGS).
§ 110.8(g):	Insulation Requirements for Heated Slab Floors. Heated slab floors must be insulated per the requirements of § 110.8(g).
§ 110.8(i):	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(i) and be labeled per §10-113 when the installation of a cool roof is specified on the CF1R.
§ 110.8(j):	Radiant Barrier. When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Cons Affairs.
§ 150.0(a):	Roof Deck, Ceiling 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 average 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 acc doors must have permanently attached insulation using adhesive or mechanical fasteners. The attic 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 as specified in § 110.7, including but not limited to placing insulation either above or below the roof deck or on top of a drywall ceilin
§ 150.0(b):	Loose-fill Insulation. Loose fill insulation must meet the manufacturer's required density for the labeled R-value.
§ 150.0(c):	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 woo framing or have a U-factor of 0.071 or less. Opaque non-framed assemblies must have an overall assembly U-factor not exceeding Masonry walls must meet Tables 150.1-A or B. *
§ 150.0(d):	Raised-floor Insulation. Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor. *
§ 150.0(f):	Slab Edge Insulation. Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material without facings, no greater than 0.3 percent; have a water vapor permeance no greater than 2.0 perm per inch; be protected physical damage and UV light deterioration; and, when installed as part of a heated slab floor, meet the requirements of § 110.8(g).
§ 150.0(g)1:	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 vapor retarder. This requirement also applies to controlled ventilation crawl space for buildings complying with the exception to §150.0(d).
§ 150.0(g)2:	Vapor 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.
§ 150.0(q):	Fenestration Products. Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors mus a maximum U-factor of 0.45; or area-weighted average U-factor of all fenestration must not exceed 0.45.
ireplaces, Dec	orative Gas Appliances, and Gas Log:
§ 110.5(e)	Pilot Light. Continuously burning pilot lights are not allowed for indoor and outdoor fireplaces.
§ 150.0(e)1:	Closable Doors. Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firel
§ 150.0(e)2:	Combustion Intake. Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inch area and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device.
§ 150.0(e)3:	Flue Damper. Masonry or factory-built fireplaces must have a flue damper with a readily accessible control.*

\$ 110.0-\(\) 110.3:

\[\frac{\text{ecrtification.} Heating, ventilation, and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other regulated appliances must be certified by the manufacturer to the California Energy Commission. \(\)

\[\frac{\text{tification.} HVAC Efficiency. Equipment must meet the applicable efficiency requirements in Table 110.2-A through Table 110.2-N. \(\)

\[\frac{\text{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 out-off temperature for supplementary heating, and the out-off temperature for supplementary heating. \(\) 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 \$ 110.2(c): setback thermostat. *

S 110.3(c)3: setback thermostat. *

Insulation. Unfired service water heater storage tanks and solar water-heating backup tanks must have adequate insulation, or tank surface heat loss rating. Isolation Valves. Instantaneous water heaters with an input rating greater than 6.8 kBtu per hour (2 kW) must have isolation valves with § 110.3(c)6: hose bibbs or other fittings on both cold and hot water lines to allow for flushing the water heater when the valves are closed.

5/6/22

2022 Single-Family Residential Mandatory Requirements Summary

1 (30) L	2022 Onigie-i anniy Nesidentiai mandatory Nequirements Summary
§ 150.0(k)1G:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8.*
§ 150.0(k)1H:	Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)1I:	Light Sources in Drawers, Cabinets, and Linen Closets. Light sources internal to drawers, cabinetry or linen closets are not requit 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, cabine linen closet is closed.
§ 150.0(k)2A:	Interior Switches and Controls. All forward phase cut dimmers used with LED light sources must comply with NEMA SSL 7A.
§ 150.0(k)2B:	Interior Switches and Controls. Exhaust fans must be controlled separately from lighting systems. *
§ 150.0(k)2A:	Accessible Controls. Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned on and off. *
§ 150.0(k)2B:	Multiple Controls. Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the dimmer or sensor is instate comply with § 150.0(k).
§ 150.0(k)2C:	Mandatory Requirements. Lighting controls must comply with the applicable requirements of § 110.9.
§ 150.0(k)2D:	Energy Management Control Systems. An energy management control system (EMCS) may be used to comply with dimming, occupancy, and control requirements if it provides the functionality of the specified control per § 110.9 and the physical controls specifin § 150.0(k)2A.
§ 150.0(k)2E:	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.
§ 150.0(k)2F:	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 I sources in these spaces must comply with NEMA SSL 7A.
§ 150.0(k)2K:	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.
§ 150.0(k)3A:	Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mounted to a residential building, other buildings on the same lot, must have a manual on/off 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 me applicable requirements may be used to meet these requirements.
§ 150.0(k)4:	Internally illuminated address signs. Internally illuminated address signs must either comply with § 140.8 or consume no more than watts of power.
§ 150.0(k)5:	Residential Garages for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply wit applicable requirements for nonresidential garages in §§ 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0.
Solar Readiness	
§ 110.10(a)1:	Single-family Residences. Single-family residences located in subdivisions with 10 or more single-family residences and where the 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).
§110.10(b)1A:	Minimum Solar Zone Area. The solar zone must have a minimum total area as described below. The solar zone must comply with 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 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 16 square feet each for buildings with roof areas greater than 10,000 square feet. For single-family residences, the solar zone must be
	located on the roof or overhang of the building and have a total area no less than 250 square feet.
§ 110.10(b)2:	Azimuth. All sections of the solar zone located on steep-sloped roofs must have an azimuth between 90-300° of true north.
§ 110.10(b)3A:	Shading. The solar zone must not contain any obstructions, including but not limited to: vents, chimneys, architectural features, and remounted equipment.*
§ 110.10(b)3B:	Shading. Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice thorizontal distance of the height difference between the highest point of the obstruction and the horizontal projection of the nearest point of the solar zone, measured in the vertical plane.
§ 110.10(b)4:	Structural Design Loads on Construction Documents. For areas of the roof designated as a solar zone, the structural design loads roof dead load and roof live load must be clearly indicated on the construction documents.
§ 110.10(c):	Interconnection Pathways. The construction documents must indicate: a location reserved for inverters and metering equipment and pathway reserved for routing of conduit from the solar zone to the point of interconnection with the electrical service; and for single-fam 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
§ 110.10(d):	provided to the occupant.
§ 110.10(e)1:	Main Electrical Service Panel. The main electrical service panel must have a minimum busbar rating of 200 amps.
§ 110.10(e)2:	Main Electrical Service Panel. The main electrical service panel must have a reserved space to allow for the installation of a double circuit breaker for a future solar electric installation. The reserved space must be permanently marked as "For Future Solar Electric."

*Exceptions may apply.

HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY Riverside County ADU Studio
System Name
Minisplit ADU-Studio 12/30/2024 ENGINEERING CHECKS COIL COOLING PEAK COIL HTG. PEAK Number of Systems CFM Sensible Latent CFM Sensible Heating System Output per System Return Vented Lighting Total Output (Btuh) Output (Btuh/sqft) **Return Air Ducts** Cooling System Return Fan Output per System Supply Fan Total Output (Btuh) Supply Air Ducts Total Output (Tons) Total Output (Btuh/sqft) TOTAL SYSTEM LOAD Total Output (sqft/Ton) Air System CFM per System 300 HVAC EQUIPMENT SELECTION Airflow (cfm) Airflow (cfm/sqft) Airflow (cfm/Ton) Outside Air (%) Outside Air (cfm/sqft) Note: values above given at ARI conditions TIME OF SYSTEM PEAK
HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak) **→** 0 cfm Supply Fan Heating Coil 300 cfm ROOM COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak 75 / 61 °F 75 / 61 °F 55 / 54 °F

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project

County of Riverside Pre-Approved ADU Program

revisions

On

description

Example
Energy
Calculations

date 20 January 2025

project no. RIVERSIDE ADU

drawn by DESIGN PATH STUDIO

°T24 3

(Page 2 of 12)

Total² EDR

(EDR2total)

0.2

0.6

Compliance Margins

Efficiency¹ EDR

(EDR2efficiency)

0.1

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revisions

description

Example Energy Calculations Climate Zone

16 Only 20 January 2025

project no. RIVERSIDE ADU

drawn by DESIGN PATH STUDIO

BUILDING ENERGY ANALYSIS REPORT CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Calculation Date/Time: 2024-12-30T11:34:56-08:00 Project Name: Riverside County ADU Studio - Idyllwild Calculation Description: Title 24 Analysis Input File Name: tmpD0DB.ribd22x GENERAL INFORMATION PROJECT: Project Name Riverside County ADU Studio - Idyllwild Riverside County ADU Studio Run Title Title 24 Analysis Riverside County, CA 92522 City | Riverside County 05 **Zip code** 92522 07 **Project Designer:** Design Path Studio Building Type | Single family P.O. Box 230165 Encinitas, CA 92023 Project Scope Newly Constructed 619-292-8807 Addition Cond. Floor Area (ft²) 15 Existing Cond. Floor Area (ft²) n/a Total Cond. Floor Area (ft²) 495 19 Report Prepared by: ADU Bedroom Count n/a 21 Fuel Type Natural gas Design Path Studio COMPLIANCE RESULTS Building Complies with Computer Performance 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

CF1R-PRF-01-E

Registration Number: 424-P010328009A-000-000-0000000-0000 Registration Date/Time: 12/30/2024 12:40 HERS Provider: CHEERS IOTICE: This document has been generated by California Home Energy Efficiency Rating Services nd cannot guarantee, the accuracy or completeness of the information contained in this documen Report Version: 2022.0.000 Report Generated: 2024-12-30 11:35:49 CA Building Energy Efficiency Standards - 2022 Residential Compliance Schema Version: rev 20220901

CF1R-PRF-01-E CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Riverside County ADU Studio - Idyllwild Calculation Date/Time: 2024-12-30T11:34:56-08:00 (Page 4 of 12) Calculation Description: Title 24 Analysis Input File Name: tmpD0DB.ribd22x ENERGY USE SUMMARY Proposed Design TDV Energy Compliance Standard Design Source Standard Design TDV Energy Proposed Design Source Energy Use Energy (EDR1) (kBtu/ft² -yr) (EDR2) (kTDV/ft² -yr) Margin (EDR1) Margin (EDR2) (EDR2) (kTDV/ft² -yr) Energy (EDR1) (kBtu/ft² -yr) 62.6 8.76 95.11 5.13 -32.51 Space Heating 13.89 Space Cooling 0.58 6.56 0.21 2.28 0.37 4.28 **IAQ** Ventilation 5.02 0.46 5.02 69.06 3.32 39.87 29.19 **South Facing** 143.24 12.75 142.28 7.73 0.96 Efficiency Complian Total 62.6 8.77 13.89 95.58 5.12 -32.98 Space Heating 6.56 5.06 Space Cooling 0.58 0.14 1.5 0.44 5.02 0.46 **IAQ** Ventilation 0.46 5.02 Water Heating 5.55 69.06 3.32 39.92 2.23 29.14 Self Jtilization/Flexibi Credit

Registration Number: 424-P010328009A-000-000-0000000-0000 Registration Date/Time: 12/30/2024 12:40 Report Generated: 2024-12-30 11:35:49 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Schema Version: rev 20220901

143.24

12.69

7.79

142.02

1.22

West Facing Efficiency

Compliance Total

20.48

Right Wall

ADU-Studio

TIFICATE OF	COMPLIA	NCE - RESIDENTIAL	PERFORMAN	ICE COMPLIA	NCE ME	THOD							CF1R-PRF-01-E
ec t Name: R	liverside Co	ounty ADU Studio -	Idyllwild			С	alculat	ion Date	/Time: 2024	I-12-30T11	1:34:56-08:00		(Page 7 of 12)
ulation Desc	c ription: Ti	itle 24 Analysis				Ir	put Fi	le Name	tmpD0DB.r	ibd22x			
E INFORMATI	ON												
01		02	03			04		7	05		06		07
Zone Nam	e	Zone Type	HVAC System Name			Zone Floor A		rea (ft²) Avg. Ceili		eight	Water Heating S	ystem 1	Status
ADU-Studi	О	Conditioned	Minisp	Minisplit ADU-Studio1		495	4			9		1	New
			1								,	'	
QUE SURFACE	ES			- : '					1 /				
01		02	0	3	5	04		05		06	°)7	08
Name		Zone	Constr	uction	A	zimuth	Or	ientation	Gros	s Area (ft ²)	100900000000000000000000000000000000000	and Door (ft2)	Tilt (deg)
t Wall ADU-S	tudio	ADU-Studio	R-21	Wall	3-1	0		Front		153	3	2	90
t Wall ADU-S	tudio	ADU-Studio	R-21	Wall		270		Right		294	1	.8	90
k Wall ADU-St	tudio	ADU-Studio	R-21	Wall		180		Back	1	153	4	15	90
: Wall ADU-St	udio	ADU-Studio	R-21	Wall		90		Left		294	2	11	90
(cath) ADU-S	Studio	ADU-Studio	R-38 H	P Attic		n/a		n/a		495	n	/a	n/a
						1	. 4	-					
01		02	.0	2	- B	04	- 9-	05		06		7	08
Name		Construction	Ту		Roof R	ise (x in 12)	Roof	Reflectan	ce Roof	Emittance		Barrier	Cool Roof
ttic ADU-Stuc	dio Att	tic RoofADU-Studio	Venti		1 1	3		0.1		0.85		lo	No
					- 11				37 (5)	7			
STRATION /	GLAZING		1	way D	1.1		·	- 1					
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 (ft²)	U-factor	U-factor Source	I SHUC	SHGC Source	Exterior Shading
indow #A	Window	Front Wall	Front	0			1	12	0.3	NFRC	0.4	NFRC	Bug Screen

Registration Number: 424-P010328009A-000-000-0000000-0000 Registration Date/Time: 12/30/2024 12:40 HERS Provider: CHEERS OTICE: This document has been generated by California Home Energy Efficiency Rating Services ad cannot guarantee, the accuracy or completeness of the information contained in this documer CA Building Energy Efficiency Standards - 2022 Residential Compliance

Project Name: Riverside County ADU Studio - Idyllwild Calculation Date/Time: 2024-12-30T11:34:56-08:00 (Page 3 of 12) Calculation Description: Title 24 Analysis Input File Name: tmpD0DB.ribd22x ENERGY USE SUMMARY Proposed Design Source Proposed Design TDV Energy Compliance Standard Design TDV Energy Standard Design Source **Energy Use** nergy (EDR1) (kBtu/ft² -yr) (EDR2) (kTDV/ft² -yr) Energy (EDR1) (kBtu/ft² -yr) (EDR2) (kTDV/ft² -yr) Margin (EDR1) Margin (EDR2) 8.82 5.07 -33.26 Space Heating 13.89 62.6 95.86 0.2 4.42 Space Cooling 0.58 6.56 2.14 0.38 5.02 0.46 0 IAQ Ventilation 0.46 5.02 0 Water Heating 5.55 69.06 3.32 39.87 2.23 29.19 Utilization/Flexibility **North Facing** 12.8 142.89 7.68 0.35 ficiency Complian

Job Number:

12/30/2024

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

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

20.48

East Facing Efficiency

Compliance Total

Total Space Heating 13.89 62.6 8.73 94.93 5.16 -32.33 0.58 0.14 0.44 5.04 6.56 1.52 Space Cooling 0.46 IAQ Ventilation 0.46 5.02 5.02 0 0 3.32 39.91 2.23 29.15 Water Heating 5.55 69.06 Self tilization/Flexibili Credit

Registration Number: 424-P010328009A-000-000-0000000-0000 Registration Date/Time: 12/30/2024 12:40 Report Generated: 2024-12-30 11:35:49 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Schema Version: rev 20220901

12.65

141.38

7.83

1.86

143.24

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01-E **Calculation Date/Time:** 2024-12-30T11:34:56-08:00 (Page 6 of 12) Project Name: Riverside County ADU Studio - Idyllwild Calculation Description: Title 24 Analysis Input File Name: tmpD0DB.ribd22x

REQUIRED PV SYST	TEMS										
01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception	Module Type	Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Access (%)
1.58	NA	Standard (14-17%)	Fixed	none	true	150-270	n/a	n/a	<=7:12	96	98
REQUIRED SPECIAL	FFATURES										

he following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis. Insulation below roof deck Variable capacity heat pump compliance option (verification details from VCHP Staff report, Appendix B, and RA3) Slab Edge Insulation Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed

HERS FEATURE SUMMARY he following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry

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)

BUILDING - FEATURES INFORMATION 01 02 **Number of Water** lumber of Dwelling **Number of Ventilation Number of Zones Project Name** Number of Bedroom Units **Cooling Systems Heating Systems** rside County ADU Studio -1 Idyllwild

Registration Number: 424-P010328009A-000-000-0000000-0000 Registration Date/Time: 12/30/2024 12:40 HERS Provider: CHEERS NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (and cannot guarantee, the accuracy or completeness of the information contained in this document Report Generated: 2024-12-30 11:35:49 CA Building Energy Efficiency Standards - 2022 Residential Compliance Schema Version: rev 20220901

to CHEERS. Therefore, CHEERS is not responsible for, Report Generated: 2024-12-30 11:35:49 Schema Version: rev 20220901

0.4 33.9 46 9.8 West Facing 33.9 57.9 46 9.8 0.5 0.4 RESULT³: PASS Efficiency EDR includes improvements like a better building envelope and more efficient equipment 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 Proposed PV Capacity Scaling: North (1.58 kWdc) East (1.58 kWdc) South (1.58 kWdc) West (1.58 kWdc) Registration Number: 424-P010328009A-000-000-000000-0000 NOTICE: This document has been generated by California Home Energy Efficiency Rating Service: and cannot guarantee, the accuracy or completeness of the Information contained in this docume HERS Provider: CHEERS

Efficiency¹ EDR

(EDR2efficiency)

58.4

58.3

57.7

Proposed Design

Calculation Date/Time: 2024-12-30T11:34:56-08:00

Source Energy

(EDR1)

9.7

9.9

Input File Name: tmpD0DB.ribd22x

(EDR2total)

46.2

45.8

Registration Date/Time: 12/30/2024 12:40

Report Version: 2022.0.000

Schema Version: rev 20220901

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Source Energy

(EDR1)

34

33.8

Project Name: Riverside County ADU Studio - Idyllwild

Calculation Description: Title 24 Analysis

Standard Design

North Facing

East Facing

South Facing

ENERGY DESIGN RATINGS

CF1R-PRF-01-E

(Page 1 of 12)

Standards Version 2022

Front Orientation (deg/ Cardinal) All orientations

Number of Stories

Glazing Percentage (%) 12.73%

Number of Dwelling Units

Fenestration Average U-factor 0.3

ADU Conditioned Floor Area n/a

Software Version EnergyPro 9.2

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01-E Project Name: Riverside County ADU Studio - Idyllwild Calculation Date/Time: 2024-12-30T11:34:56-08:00 (Page 5 of 12) Calculation Description: Title 24 Analysis Input File Name: tmpD0DB.ribd22x **ENERGY USE INTENSITY** Standard Design (kBtu/ft² - yr) Proposed Design (kBtu/ft² - yr) Compliance Margin (kBtu/ft² - yr) Margin Percentage North Facing Gross EUI¹ 46.92 37.42 9.5 20.25 32.47 Net EUI² 29.26 19.76 9.5

East Facing 46.92 37.25 9.67 20.61 Gross EUI¹ 29.26 19.59 9.67 South Facing 46.92 37.34 9.58 20.42 Gross EUI¹ Net EUI² 29.26 19.68 9.58 32.74 West Facing 37.35 Gross EUI¹ 46.92 9.57 20.4 29.26 19.69 9.57 32.71 Net EUI²

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: 424-P010328009A-000-000-0000000-0000

CA Building Energy Efficiency Standards - 2022 Residential Compliance

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CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Number: 424-P010328009A-000-000-0000000-0000 HERS Provider: CHEERS ted to CHEERS. Therefore, CHEERS is not responsible fo Registration Date/Time: 12/30/2024 12:40 : This document has been generated by California Home Energy Efficiency Rating Services not guarantee, the accuracy or completeness of the information contained in this docume Report Generated: 2024-12-30 11:35:49 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Schema Version: rev 20220901

Project Name: Ri	verside Cou	ntv ADU Studio	- Idvllwild				Calculat		(Page 8 of 1					
Calculation Desc			iayiiwiia				Calculation Date/Time: 2024-12-30T11:34:56-08:00 (Page 8 of Input File Name: tmpDODB.ribd22x							
FENESTRATION / G	•	24 Allalysis					input ri	e Name	: ппрооб	D.IIDUZZX		-		
1			1 1		1				1	1 1		1	1	
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-factor	U-factor Source	SHGC	SHGC Source	Exterior Shad	
Window (2) #E	Window	Back Wall ADU-Studio	Back	180			1.	12	0.3	NFRC	0.4	NFRC	Bug Screer	
Window #C	Window	Left Wall ADU-Studio	Left	90	A Y		1	6	0.3	NFRC	0.4	NFRC	Bug Screer	
Window #D	Window	Left Wall ADU-Studio	Left	90		, , , , , , , , , , , , , , , , , , ,	1	15	0.3	NFRC	0.4	NFRC	Bug Screer	
<u>'</u>							· ·		10 5		,	<u>'</u>	<u>'</u>	
OPAQUE DOORS					8.0		1.3							
	01			02			.03					04		
	Name			Side of Buildi	ng	ſ	1.44		Area (ft ²)			U-factor		
	Door		Fro	nt Wall ADU-S	tudio	4			20			0.5		
	Door 2		Bac	ck Wall ADU-S	tudio	3			33		1	0.2		
	onto y real global control						. 4-	· 1,	J.	4	_			
SLAB FLOORS	,				: 	_ 2 - 2			(A Carrier				
01		02	03		04			-05		06		07	08	
Name		Zone	Area (ft ²)		Perimete	r (ft)		sul. R-va d Depth	lue Edg	ge Insul. R-value and Depth	Carpete	ed Fraction	Heated	
Slab-on-Grade	. A	DU-Studio	495		91			R-5		8	1	00%	No	

Registration Date/Time: 12/30/2024 12:40

Report Version: 2022.0.000

Schema Version: rev 20220901

HERS Provider: CHEERS

Report Generated: 2024-12-30 11:35:49

(Page 11 of 12)

Cap 17

Indoor Fan no

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 THE COUNTY OF RIVERSIDE ONLY. THIS IS A LIMITED SET OF STANDARDIZED ADU PLANS AND SPECIFICATIONS APPROVED BY THE COUNTY OF RIVERSIDE 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 CONSTRUCTION DOCUMENTS IF THE PERMIT HAS EXPIRED OR IS REVOKED AT ALL. . 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 WILLEUL 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

project

County of Riverside Pre-Approved ADU Program

IMPROVEMENT UNDER THESE PLANS AT ALL.

revisions

description **Example Energy** Calculations Climate Zone 16 Only

20 January 2025

project no. RIVERSIDE ADU

drawn by Design Path Studio

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Calculation Date/Time: 2024-12-30T11:34:56-08:00 Project Name: Riverside County ADU Studio - Idyllwild (Page 10 of 12) Input File Name: tmpD0DB.ribd22x Calculation Description: Title 24 Analysis

CF1R-PRF-01-E

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Airflow Target

Airflow to

Rooms

03

(W/CFM)

0.35

Calculation Date/Time: 2024-12-30T11:34:56-08:00

07

Low Leakage

Ducts in

Space

Conditioned

HSPF/HSPF2

Includes Fault

Indicator Display

Airflow per

RA3.3 and

SC3.3.3.4.1

08

Cap 47

HERS Provider: CHEERS

Report Generated: 2024-12-30 11:35:49

erified Heating

Certified

non-continuous

Fan

06

Charge

Yes

Air Filter Sizing

& Pressure

Drop Rating

SRE/ASRE

n/a / n/a

Registration Date/Time: 12/30/2024 12:40

Schema Version: rev 20220901

2022 Single-Family Residential Mandatory Requirements Summary

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

Tables 110.6-A, 110.6-B, or JA4.5 for exterior doors. They must be caulked and/or weather-striped. **Air Leakage.** All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be

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

Insulation Requirements for Heated Slab Floors. Heated slab floors must be insulated per the requirements of § 110.8(g).

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(i) and be labeled per §10-113 when the installation of a cool roof is specified

Radiant Barrier. When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Cons

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

oractor must have permanently attached insulation using adhesive or mechanical fasteners. The attic 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 exfiltrat

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

§ 150.0(d): Raised-floor Insulation. Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor.

3 150.0(q): 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: Combustion Intake. Masonity or ladding-public independent into the combustion intake. Masonity or ladding-public interpretation into the combustion intake. Masonity or ladding public into the combustion into the combus § 150.0(e)3: Flue Damper. Masonry or factory-built fireplaces must have a flue damper with a readily accessible control.

Space Conditioning, Water Heating, and Plumbing System:

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

§ 110.3(c)6: Stratum varies. Installations that it is a strain to allow for flushing the water heater when the valves are closed.

2022 Single-Family Residential Mandatory Requirements Summary

§ 150.0(k)1G: 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

§ 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 turned

Energy Management Control Systems. An energy management control system (EMCS) may be used to comply with dimming, § 150.0(k)2D: occupancy, and control requirements if it provides the functionality of the specified control per § 110.9 and the physical controls specified

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-

§ 150.0(k)2F: Solution in abitation spaces (e.g., living rooms, unining rooms, and down. Forward phase cut dimmers controlling LED light sources in these spaces must comply with NEMA SSL 7A.

§ 150.0(k)2K; Independent controls. Integrated lighting of exhaust fans shall be controlled independently from the fans. Lighting under cabinets or

\$ 150.0(k)3A: other buildings on the same lot, must have a manual on/off switch and either a photocell and motion sensor or automatic time switch

110.10(a)1: application for a tentative subdivision map for the residences has been deemed complete and approved by the enforcement agency,

§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

\$ 110.10(b)2: Azimuth. All sections of the solar zone located on steep-sloped roots must have an azimuth between 90-300° of true north.

\$ 110.10(b)3A: Shading. The solar zone must not contain any obstructions, including but not limited to: vents, chimneys, architectural features, and roof mounted equipment.

\$ 110.10(b)3B: Shading. Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice the horizontal distance of the height difference between the highest point of the obstruction and the horizontal projection of the nearest point of the solar zone, measured in the vertical plane.

\$ 110.10(b)4: Structural Design Loads on Construction Documents. For areas of the roof designated as a solar zone, the structural design loads for roof dead load and roof live load must be clearly indicated on the construction documents.

located on the roof or overhang of the building and have a total area no less than 250 square feet. * 110.10(b)2: Azimuth. All sections of the solar zone located on steep-sloped roofs must have an azimuth between 90-300° of true north.

§ 110.10(e)1: Main Electrical Service Panel. The main electrical service panel must have a minimum busbar rating of 200 amps.

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

§ 110.5(e) Pilot Light. Continuously burning pilot lights are not allowed for indoor and outdoor fireplaces.

average U-factor not exceeding U-0.184. Ceiling and rafter roofs minimum R-22 insulation in wood-frame ceiling; or area-weighted average J-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

as specified in § 110.7, including but not limited to placing insulation either above or below the roof deck or on top of a drywall ceiling.

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

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 vapor retarder. This requirement also applies to controlled ventilation crawl space for buildings complying with the exception to 8150.0(d).

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

§ 150.0(c): 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.

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

§ 150.0(g)2: 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

§ 150.0(e)1: Closable Doors. Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebox Combustion Intake. Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inch

3: entireation, reading, ventilation, and an ordinationing of the control of t

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

setback thermostat.*

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

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

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

on and off. *

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

in § 150.0(k)2A.

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

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

walts 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.

Single-family Residences. Single-family residences located in subdivisions with 10 or more single-family residences and where the

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

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 110.10(e)2: main Electrical Service Falset. The main discusses as a social service of a falset from a future solar electric. The main discusses as a social service of a falset from a future solar electric. The main discusses as a social service of a falset from a fals

I) or an astronomical time clock. An energy management control system that provides the specified control functionality and meet 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

NOTE: Single-family residential buildings subject to the Energy Codes must comply with all applicable mandatory measures, regardless of the compliance approach used. Review the respective section for more information.

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

caulked, gasketed, or weather stripped.

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

Fireplaces, Decorative Gas Appliances, and Gas Log:

linen closet is closed.

§ 150.0(k)2B: to comply with § 150.0(k).

110.10(d): provided to the occupant.

5/6/22

§ 110.2(c):

§ 150.0(k)11:

§ 150.0(k)2A:

150.0(k)4:

Goods and Services (BHGS).

Input File Name: tmpD0DB.ribd22x

05

SEER/SEER2

Not Required

Wall Mount

Thermostat

Recovery?

erified EER/EER

Not Required

Ductless Units

Space

Habitable in Conditioned

Exhaust

Project Name: Riverside County ADU Studio - Idyllwild

Verified Airflow

Not Required

02

Registration Number: 424-P010328009A-000-000-0000000-0000

CA Building Energy Efficiency Standards - 2022 Residential Compliance

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Building Envelope:

VARIABLE CAPACITY HEAT PUMP COMPLIANCE OPTION - HERS VERIFICATION

Low-Static

VCHP System

Calculation Description: Title 24 Analysis

HVAC HEAT PUMPS - HERS VERIFICATION

1-hers-htpump

INDOOR AIR QUALITY (IAQ) FANS

SFam IAQVentRpt

		,											
WATER HEATERS - NEEA	HEAT PUMP												
01	02	03	04	05	06	07	08						
Name	# of Units	Tank Vol. (gal)	NEEA Heat Pump Brand	NEEA Heat Pump Model	Tank Location	Duct Inlet Air Source	Duct Outlet Air Sour						
DHW Heater 1	r 1 1 40		Rheem	PROPH40 T2 RH375SO (40 gal, JA13)	Outside	ADU-Studio	ADU-Studio						
					/ J								
WATER HEATING - HERS	VERIFICATION			1									
01	02	03	0	4	05	06	07						

Name	Pipe In	sulation	Parallel Piping	Compact Distribution	Type	oution	Recircula	tion Control	Recovery
DHW Sys 1 - 1,	/1 Not Re	equired	Not Required	lot Required Not Required		Not Re		Required	Not Required
SPACE CONDITIONI	NG SYSTEMS			A					
	1	1							
01	02	03	04	05	06	0	7	08	09
			Heating Equipmen	t 1 // /	Cooling Equipment				Required

ADU-Studio1	heating cooling	1	System -	- 1	-:	1		1 8		n/a	n/a	Setback
HVAC - HEAT PUMPS	3											
01	02	03	. 04	05	06	07	08	09	- 10	11	12	13
				Heati	ng			Cooling				
Name	System Type	Number of Units	Heating Efficiency Type	HSPF/HS PF2/COP	Can /17	Cap 17	Cooling Efficiency Type	SEER/SE ER2	EER/EER 2/CEER	Zonally Controlled	Compressor Type	HERS Verification
Heat Pump	VCHP-ductless	1	HSPF	8.2	12000	10000	EERSEER	14	11.7	Not Zonal	Single Speed	Heat Pump System

Registration Number: 424-P010328009A-000-000-0000000-0000 HERS Provider: CHEERS Registration Date/Time: 12/30/2024 12:40 OTICE: This document has been generated by California Home Energy Efficiency Rating Services (nd cannot guarantee, the accuracy or completeness of the information contained in this document Report Generated: 2024-12-30 11:35:49 CA Building Energy Efficiency Standards - 2022 Residential Compliance

	CIVITAL WEAS	OKES S	UMMARY						RMS-1
Project Nan R <i>iverside</i>	ne e County ADU Stud	lio	Building Ty		gle Family ti Family	✓ □ Addition □ Existing		/Alteration	Date 12/30/202
Project Add Rivers	lress ide County			nergy Clima mate Zon		Total Cond. F 495		Addition n/a	# of Units
INSUL/				Area					
	uction Type		Cavity	(ft ²)	Sp	ecial Fea	atures		Status
Wall	Wood Framed		R 20	778					New
Door	Opaque Door		- no insulation	20					New
Door	Opaque Door		R-5	33					New
Roof	Wood Framed Attic		R 38	495	Add=R-1	19.0			New
Slab	Unheated Slab-on-Grade		R 5	495	Perim =	91'			New
					4				
								-	
FENES	TRATION	Total Area:	63 Glazi	ng Percenta	no: 12	.7% New/Alt	arad Avara	ge U-Factor:	0.30
	tion Area(ft²)			rhang	Sidefir		rior Sha		Status
ront (N)	12.0	0.300	0.40 none		none	N/A	TO OTHE		New
Right (W)	18.0	0.300	0.40 none		none	N/A			New
Rear (S)	12.0	0.300	0.40 none		none	N/A			New
eft (E)	21.0	0.300	0.40 none		none	N/A			New
	SYSTEMS Jeating	Min. Eff	f Cooling	1	Min	Eff	Ther	mostat	Status
Qty. I	SYSTEMS leating	Min. Eff			Min.		Ther	mostat	Status New
Qty. I	leating							mostat	
Qty. F	leating lectric Heat Pump DISTRIBUTION	8.20 HSPF	Split Heat	Pump	14.0 S	EER	Setback D	uct	
Qty. H	Heating Flectric Heat Pump DISTRIBUTION On He			Pump		EER	Setback D	uct -Value	New
HVAC I Locatio	DISTRIBUTION On Heavilles PU-Studio Ductles R HEATING	8.20 HSPF ating ss / with Fan	Cooling Ductless llons Mir	Pump g Duc n/a	14.0 S	tion	Setback D R	uct -Value	Status New Status
HVAC I Locatio	DISTRIBUTION On Heary OU-Studio Ductles	8.20 HSPF ating ss / with Fan	Cooling Ductless	Pump g Duc n/a	14.0 S	tion	Setback D R	uct -Value	Status New

5/6/22

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 plenum. Airflow must
§ 150.0(m)13:	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

	cooling capacity, and an air-handling unit fan efficacy ≤ 0.62 watts per CFM. Field verification testing is required in accordance with Reference Residential Appendix RA3.3.*
entilation and In	door Air Quality:
§ 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)1Biiišiv. 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 not sharing ceilings 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.
§ 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)1Giii, enclosed kitchens and bathrooms can use demand-controlled or continuous exhaust meeting §150.0(o)1Giii-iv. Airflow must be measured by the installer per §150.0(o)1Gv, and rated for sound per §150.0(o)1Gvi.*
§ 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)1G
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 or-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. *
§ 110.4(b)1:	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.
§ 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, kitchen range hoods, bath vanity mirrors, and garage door openers; navigation lighting less than 5 watts; and lighting internal to drawers, cabinets, and linen closets 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 airtight, and must be sealed with a gasket or caulk. 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).

Inside Finish: Gypsum Board R-21 Wall **Vood Framed Wal** 2x6 @ 16 in. O. C None / None 0.069 Cavity / Frame: R-21 / 2x6 Exterior Finish: 3 Coat Stucco Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Wood Framed Attic RoofADU-Studio 2x4 @ 24 in. O. C. 0.059 Siding/sheathing/decking Cavity / Frame: R-13.0 / 2x4 Around Roof Joists: R-6.0 insul. Over Ceiling Joists: R-28.9 insul. Ceilings (below Wood Framed R-38 HP Attic 2x4 @ 24 in. O. C. None / None Cavity / Frame: R-9.1 / 2x4 Ceiling Inside Finish: Gypsum Board **BUILDING ENVELOPE - HERS VERIFICATION** Quality Insulation Installation (QII) | High R-value Spray Foam Insulation | CFM50 CFM50 Building Envelope Air Leakage N/A n/a WATER HEATING SYSTEMS 03 **HERS Verification** System Type Distribution Type **Number of Units** Water Heater Name System Distribution Name (#) Domestic Hot DHW Heater 1 (1)

04

Calculation Date/Time: 2024-12-30T11:34:56-08:00

06

Interior / Exterior

Continuous

R-value

Input File Name: tmpD0DB.ribd22x

05

Total Cavity

R-value

CF1R-PRF-01-E

Assembly Layers

(Page 9 of 12)

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Riverside County ADU Studio - Idyllwild

Water (DHW)

02

Calculation Description: Title 24 Analysis

OPAQUE SURFACE CONSTRUCTIONS

01

Construction Name

Encinitas, CA 92023

Registration Number: 424-P010328009A-000-000-0000000-0000 Registration Date/Time: 12/30/2024 12:40 HERS Provider: CHEERS NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (Cl and cannot guarantee, the accuracy or completeness of the information contained in this document. Report Generated: 2024-12-30 11:35:49 CA Building Energy Efficiency Standards - 2022 Residential Compliance Schema Version: rev 20220901

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE M		CF1R-PRF-01-E
Project Name: Riverside County ADU Studio - Idyllwild	Calculation Date/Time: 2024-12-30T11:34:56-08:00	(Page 12 of 12)
Calculation Description: Title 24 Analysis	Input File Name: tmpD0DB.ribd22x	
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT		
1. I certify that this Certificate of Compliance documentation is accurate and complete.		
Documentation Author Name:	Documentation Author Signature:	
Yvonne St. Pierre	Yvonne St. Pierre	
Company:	Signature Date:	
Design Path Studio	12/30/2024	
Address:	CEA/ HERS Certification Identification (If applicable):	
P.O. Box 230165		
City/State/Zip:	Phone:	
Encinitas, CA 92023	(760) 484-0253	
RESPONSIBLE PERSON'S DECLARATION STATEMENT		
I certify the following under penalty of perjury, under the laws of the State of California:		
1. I am eligible under Division 3 of the Business and Professions Code to accept responsit		
	tificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the Cali Compliance are consistent with the information provided on other applicable compliance d	
calculations, plans and specifications submitted to the enforcement agency for approv		ocuments, worksneets,
Responsible Designer Name:	Responsible Designer Signature:	
Yvonne St. Pierre	Yvonne St. Pierre	
Company:	Date Signed:	
Design Path Studio	12/30/2024	
Address:	License:	
P.O. Box 230165	The state of the s	

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

5/6/22

Registration Number: 424-P010328009A-000-000-0000000-0000 Registration Date/Time: 12/30/2024 12:40 Report Generated: 2024-12-30 11:35:49 Report Version: 2022.0.000 CA Building Energy Efficiency Standards - 2022 Residential Compliance Schema Version: rev 20220901

(760) 484-0253

	2022 Single-Family Residential Mandatory Requirements Summary
§ 110.5:	Pilot Lights. Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces; household cooking appliances (except appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu per hour); and pool and
	spa heaters. *
§ 150.0(h)1:	Building Cooling and Heating Loads. Heating and/or cooling loads are calculated in accordance with the ASHRAE Handbook, Equipment Volume, Applications Volume, and Fundamentals Volume; the SMACNA Residential Comfort System Installation Standards Manual; or the ACCA Manual J using design conditions specified in § 150.0(h)2.
§ 150.0(h)3A:	Clearances. Air conditioner and heat pump outdoor condensing units must have a clearance of at least five feet from the outlet of any dryer.
§ 150.0(h)3B:	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.
§ 150.0(j)1:	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. *
§ 150.0(j)2:	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 waterproof and non-crushable casing or sleeve.
§ 150.0(n)1:	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 v 2.5 v 7 suitable for the future installation of a heat pump water heater, and meet electrical and plumbing requirements, based on the distance between this designated space and the water heater location; and a condensate drain no more than 2' higher than the base of the water heater
§ 150.0(n)3:	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 R&T), or by a listing agency that is approved by the executive director.
ucts and Fans:	
§ 110.8(d)3:	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.
§ 150.0(m)1:	CMC Compliance. All air-distribution system ducts 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 ducts and plenums must be insulated to R-6.0 or higher; ducts located entirely 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 ¼", 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
§ 150.0(m)2:	these 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.
§ 150.0(m)3:	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.
§ 150.0(m)7:	Backdraft Damper. Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic dampers.
§ 150.0(m)8:	Gravity Ventilation Dampers. Gravity ventilating systems serving conditioned space must have either automatic or readily accessible, manually operated dampers in all openings to the outside, except combustion inlet and outlet air openings and elevator shaft vents.
§ 150.0(m)9:	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.
§ 150.0(m)10:	Porous Inner Core Flex Duct. Porous inner cores of flex ducts must have a non-porous layer or air barrier between the inner core and 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 1.

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 th

Schema Version: rev 20220901

Project N				Duil	ding Type	☑ Sind	In Fame	ilv 🗖	A -1 -1'4' A 1 -	ne	Date
		y ADU Stud	lio	Bulli	unig Type		i Family		Addition Alo Existing+ A	ddition/Alteration	12/30/202
Project Address Riverside County				California Energy Climate Zone Total Cond. Floor Area Addition			Area Addition	# of Units			
			С	CA Climate		e 16		495	n/a	1	
INSUL	LATION					Area					
Const	truction	Type		Cav	/ity	(ft^2)	S	peci	al Featu	res	Status
Wall	Wood Fra			R 20		778					New
Door	Opaque L	Door		- no in	sulation	20					New
Door	Opaque L	Door		R-5		33					New
Roof	Wood Fra	amed Attic		R 38		495	Add=R	-19.0			New
Slab	Unheated	l Slab-on-Grade		R 5		495	Perim	= 91'			New
			_								
FENE	STRATI	ON	Total Area:	63	Glazing	Percentag	je: 1	12.7%	New/Altered	Average U-Factor:	0.30
Orient	tation	Area(ft ²)	U-Fac	SHGC	Overh	nang	Sidef	ins	Exterior	r Shades	Status
Front (N)		12.0	0.300	0.40	none		none		N/A		New
Right (W)	1	18.0	0.300	0.40	none		none		N/A		New
Rear (S)		12.0	0.300	0.40	none		none		N/A		New
/ - /											
		21.0	0.300	0.40	none		none		N/A		New
Left (E)			0.300	0.40	none		ncne		N/A		New
Left (E)	S SYSTE Heating	MS						n. Eff		Thermostat	
Left (E)	S SYSTE Heating	MS	0.300 Min. E 8.20 HSF	ff Co	none oling it Heat Pu	mp	Min	ı. Eff		Thermostat	Status New
HVAC Qty.	Heating	MS	Min. E	ff Co	oling	mp	Min				Status
HVAC Qty.	Heating Electric Hea	MS J at Pump	Min. E	ff Co	oling	mp	Min			etback	Status
HVAC Qty.	Heating Electric Heating DISTRI	MS 3 at Pump BUTION	Min. E 8.20 HSF	ff Copp Spl	o ling it Heat Pul		Min	SEER	Se	Duct	Status New
HVAC Qty. 1	Heating Electric Heating DISTRI	MS J at Pump BUTION Hea	Min. E	ff Co	oling		Min	SEER	Se	etback	Status
HVAC Qty. 1 HVAC Locat	Heating Electric Heat C DISTRI	MS J at Pump BUTION He: Ductle:	Min. E 8.20 HSF	ff Co	ooling it Heat Pu	Duc	Min	SEER	Se	Duct R-Value	Status New Status
HVAC Qty. 1 HVAC Locat	Heating Electric Heating DISTRI	MS J at Pump BUTION He: Ductle:	Min. E 8.20 HSF atting	ff Co	ooling it Heat Pu	Duc n/a	Min	ation	Se	Duct R-Value	Status New Status

THE ST COMMISSION C	
§ 150.0(m)13:	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 plenum. Airflow must 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

*Exceptions may apply.

HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY Riverside County ADU Studio
System Name
Minisplit ADU-Studio 12/30/2024 ENGINEERING CHECKS COIL COOLING PEAK COIL HTG. PEAK Number of Systems CFM Sensible Latent CFM Sensible Heating System Output per System Return Vented Lighting Total Output (Btuh) Output (Btuh/sqft) **Return Air Ducts** Cooling System Return Fan Output per System Supply Fan Total Output (Btuh) Supply Air Ducts Total Output (Tons) Total Output (Btuh/sqft) TOTAL SYSTEM LOAD Total Output (sqft/Ton) Air System CFM per System 300 HVAC EQUIPMENT SELECTION Airflow (cfm) Airflow (cfm/sqft) Airflow (cfm/Ton) Outside Air (%) Outside Air (cfm/sqft) Note: values above given at ARI conditions TIME OF SYSTEM PEAK
HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak) 0 cfm Supply Fan Heating Coil 300 cfm ROOM COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak 75 / 56 °F 75 / 56 °F 55 / 49 °F

itecture + engineering + planning

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RESTRICTED TO THE ORIGINAL PROJECT FOR WHICH
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project

County of Riverside Pre-Approved ADU Program

revisions

On

description

Example Energy
Calculations
Climate Zone
16 Only

date 20 January 2025

project no. RIVERSIDE ADU

drawn by design path studio

T24.6