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

(FOR USE IN THE UNINCORPORATED COUNTY OF ORANGE)

APPLICANT AGREEMENT

APPLICANT AGREES TO PROVIDE ALL NECESSARY INFORMATION REQUIRED TO COMPLETE THESE CONSTRUCTION DOCUMENTS. MODIFICATIONS TO THE PERMIT READY DOCUMENTS PROVIDED BY DESIGN PATH STUDIO ARE TO BE DISCLOSED BY THE APPLICANT AND APPROVED BY THE AUTHORITY HAVING JURISDICTION. ANY MODIFICATIONS TO THESE CONSTRUCTION DOCUMENTS REQUIRES EACH SHEET TO BE SIGNED BY THE PERSON WHO MADE THE CHANGES. ANY ADDITIONAL SHEETS INCORPORATED INTO THESE DOCUMENTS ALSO REQUIRES A SIGNATURE BY THE PERSON WHO PREPARED THE INFORMATION. THE FOUNDATION DESIGN FOR THESE PERMIT READY CONSTRUCTION DOCUMENTS ASSUMES STANDARD SOILS CONDITIONS AND LEVEL TOPOGRAPHY. IF SITE SPECIFIC CONDITIONS REQUIRE A FOUNDATION DESIGN BEYOND WHAT IS PROVIDED IN THESE DOCUMENTS THEN THE APPLICANT IS TO PROVIDE A NEW FOUNDATION DESIGN WHICH COMPLIES WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER'S REPORT.

BY SIGNING BELOW THE APPLICANT AGREES TO AND AFFIRMS ALL STATEMENTS INCLUDED HEREIN AND WILL COMPLY WITH ALL LOCAL CODE REQUIREMENTS.

SIGNATURE: _____ DATE: _____

SHEET INDEX

T1.1	TITLE SHEET
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AS.2	SITE PLAN (PROVIDED BY OWNER)
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A0.1	SCHEDULES
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T24.1	SAMPLE ENERGY CALC.
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T24.3	SAMPLE ENERGY CALC.

CONTACT LOCAL UTILITY COMPANIES REGARDING GAS AND ELECTRIC SERVICES TO THIS DETACHED ADU.
SEE EXAMPLE SITE PLAN, SHEET AS.2, FOR MORE INFORMATION
ADU MAY BE SUBJECT TO IMPACT FEES, INCLUDING , BUT NOT LIMITED TO SCHOOL, ROAD, AND PARK FEES.
ADUs SHALL NOT BE USED FOR ANY SHORT TERM RENTALS: ADUs CAN BE RENTED/LEASED FOR MONTHLY OR YEARLY PERIODS ONLY OR AS REQUIRED BY STATE AND LOCAL LAWS.

EMERGENCY CONTACT

INCASE OF EMERGENCY CALL:

NAME:

WORK PHONE:

HOME PHONE:

CELL PHONE:

BUILDING INFORMATION

GOVERNING CODES: APPROVAL OF THIS PROJECT SHALL COMPLY WITH THE 2025 CALIFORNIA BUILDING CODE, CALIFORNIA RESIDENTIAL CODE (CRC), CALIFORNIA MECHANICAL CODE (CMC), CALIFORNIA PLUMBING CODE (CPC), CALIFORNIA ELECTRICAL CODE (CEC), CALIFORNIA ENERGY CODE (CEC), CALIFORNIA GREEN BUILDING CODE (CGBC) AND THE COUNTY OF ORANGE MUNICIPAL CODE.

SITE ADDRESS:

ADU ADDRESS ASSIGNED BY ORANGE COUNTY:

GOVERNING AGENCY: COUNTY OF ORANGE, CA.
OCCUPANCY GROUP: R3
STORIES: 1
TYPE OF CONSTRUCTION: VB

ZONING INFORMATION

CONTACT THE COUNTY OF ORANGE FOR THE INFORMATION BELOW
https://myoceservices.ocgov.com/ PHONE:(714)667-8888 FOR ZONING INFORMATION (714)-573-6000 FOR OCFA

ZONING :

OVERLAY :

SCHOOL DISTRICT:

LOT SIZE :

EXISTING HABITABLE SQ. FT. :

EXISTING FAR :

MAX. ALLOWABLE FAR :

PROPOSED FAR :

FLOOR AREA OF GARAGE:

EXISTING LOT COVERAGE:

ALLOWABLE LOT COVERAGE :

PROPOSED LOT COVERAGE :

LOT SLOPE :

ADU SETBACKS FROM PROPERTY LINE

ALLOWED :		PROPOSED :	
	FRONT–		FRONT–
	REAR–		REAR–
	SIDE–		SIDE–
	STREET SIDE–		STREET SIDE–

ADU SETBACKS FROM MAIN RESIDENCE

ALLOWED :	PROPOSED :

OFF STREET PARKING REQUIRED: PROVIDED:

DIRECTORY

SITE PLAN & TITLE SHEET INFORMATION PREPARED BY:

COMPANY
CONTACT PERSON
ADDRESS
CITY STATE ZIP
PHONE:
EMAIL:

PROPERTY OWNER:

NAME
ADDRESS
CITY STATE ZIP
PHONE:
EMAIL:

BUILDING DEPARTMENT:

ORANGE COUNTY PUBLIC WORKS
601 N. ROSS ST.
SANTA ANA, CA 92701
P. (714)667-8800

VICINITY MAP

PROVIDED BY OWNER

PROJECT DESCRIPTION

NEW CONSTRUCTION OF A ONE STORY, STUDIO, 1 BATH, DETACHED 393 S.F. ACCESSORY DWELLING UNIT WITH PORCH AREAS USED BELOW:

RANCH PORCH: 60 S.F.

LEGAL DESCRIPTION

APN

ECC NOTES

1. PROPERLY COMPLETED AND ELECTRONICALLY SIGNED CERTIFICATE OF INSTALLATION (CF2R FORMS) SHALL BE POSTED WEATHER PROTECTED WITHIN BUILDING FOR REVIEW BY INSPECTORS – EES 10–103(A)3, 10–103(B)1.A – BY THE INSTALLING CONTRACTOR AND SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION AT THE SITE. FOR PROJECTS REQUIRING ECC VERIFICATION, THE CF2R FORMS SHALL BE REGISTERED WITH A CALIFORNIA APPROVED ECC PROVIDER DATA REGISTRY WITH ITS OWN UNIQUE 21 DIGIT REGISTRATION NUMBER LOCATED AT THE BOTTOM OF EACH PAGE. THE FIRST 12 DIGITS WILL MATCH THE REGISTRATION NUMBER ASSOCIATED WITH THE CF1R FORM.
CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THE CF2R FORMS ARE REVIEWED AND APPROVED.
2. PROPERLY COMPLETED & ELECTRONICALLY SIGNED & REGISTERED CERTIFICATE(S) OF FIELD VERIFICATION AND DIAGNOSTIC TESTING (CF3R) SHALL BE POSTED WEATHER PROTECTED WITHIN THE BUILDING SITE BY A CERTIFIED ECC 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. A WATER–MARK AND REGISTRATION NUMBER WILL BE VISIBLE.
4. ECC TESTS REQUIRED FOR THIS PROJECT ARE:
QUALITY INSULATION INSTALLATION (QII), INDOOR AIR QUALITY VENTILATION, KITCHEN RANGE HOOD, VERIFIED REFRIGERANT CHARGE, AIRFLOW IN HABITABLE ROOMS (SC3.1.4.1.7), VERIFIED HEAT PUMP RATED HEATING CAPACITY, WALL–MOUNTED THERMOSTAT IN ZONES GREATER THAN 150 FT2 (SC3.4.5, DUCTLESS INDOOR UNITS LOCATED ENTIRELY IN CONDITIONED SPACE (SC3.1.4.1.8)
KITCHEN RANGE HOOD CFM VERIFICATION(100 CFM & <= 3 SONES, CEC LISTED)
IAQ MECHANICAL VENTILATION –STUDIO–26, 1BED–32 CFM, 2BED1BATH–45 CFM, 2BED2BATH–46 CFM, 3BEDA–59 CFM, 3BED–66 CFM
5. FOR IAQ FAN –ABOVE CFM REQUIRED FOR A CONTINUOUSLY OPERATING EXHAUST FAN. PROVIDE A TIMER SWITCH WITH A MANUAL OFF AND A SOUND RATING OF 1 SONE (3 SONES MAX FOR AN INTERMITTENT FAN). THIS FAN TO PROVIDE WHOLE BUILDING INDOOR AIR QUALITY VENTILATION WITH OUTDOOR AIR IN COMPLIANCE WITH ASHRAE STANDARD 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMMISSION.
6. SOLAR:
STUDIO – 1.4kWdc APPROXIMATE BASED ON INITIAL REPORTS
1 BEDROOM – 1.48kWdc APPROXIMATE BASED ON INITIAL REPORTS
2 BED 1 BATH – 2.10kWdc APPROXIMATE BASED ON INITIAL REPORTS
2 BED 2 BATH – 2.11kWdc APPROXIMATE BASED ON INITIAL REPORTS
3 BED A – 2.4kWdc APPROXIMATE BASED ON INITIAL REPORTS
3 BED B –2.46kWdc APPROXIMATE BASED ON INITIAL REPORTS
7. SPECIAL FEATURES: 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.
ARIABLE 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

REQUIRED SUPPLEMENTAL INFORMATION - TO BE COMPLETED BY OWNER

additional plan information provided by applicant:

X COMPLETED

- ☐ TITLE SHEET (T1.1) INFORMATION FILLED OUT
- ☐ FILL OUT TITLEBLOCK WITH OWNER NAME, ADDRESS, APN, AND LEGAL DESCRIPTION ON EACH SHEET
- ☐ SITE PLAN SHEET (AS.2) PROVIDED IN PLAN SET FOR COUNTY REVIEW
- ☐ UPDATED TITLE 24 ENERGY CALCULATION REPORT WITH CORRECT NAME, ADDRESS, AND EXACT ORIENTATION FOR SITE SPECIFIC CONDITIONS. OWNER MAY CONTACT THE ENTITY WHO PREPARED THE ORIGINAL REPORT (SHOWN ON T24.1) TO OBTAIN UPDATES TO THE REPORT.
- ☐ CONSTRUCTION AND DEMOLITION FORM
- ☐ HOLD HARMLESS AGREEMENT
- ☐ PHOTOVOLTAIC SYSTEM - THE PV SYSTEM MUST BE INSTALLED, OPERATIONAL AND FINAL PRIOR TO FINAL BUILDING INSPECTION AND APPROVAL FOR THE ADU. (WHEN REQUIRED). *IF THERE IS AN EXISTING PHOTOVOLTAIC SYSTEM OF SUFFICIENT SIZE ON THE MAIN HOUSE TO ACCOMMODATE THE NEW ADU THEN HOMEOWNER IS TO PROVIDE A REPORT STATING THE EXISTING SIZE OF THE PV PANEL.
- ☐ MEP PERMIT REQUIRED FOR ADUS OVER 500SF

exterior style selection:

X SELECTION - SEE SHEET T1.2 FOR EXTERIOR RENDERING

- ☐ CRAFTSMAN
- ☐ RANCH
- ☐ SPANISH

exterior wall material:

X SELECTION(S)

- ☐ STUCCO / COLOR_____
- ☐ STONE VENEER / COLOR_____
- ☐ FIBER CEMENT - SIDING / COLOR_____
- ☐ WOOD SIDING / COLOR_____
- ☐ OTHER _____

deferred submittals - separate permit to be obtained by applicant:

X TO BE COMPLETED

- ☐ FIRE SPRINKLERS (WHEN REQUIRED)

roof material:

X SELECTION

ROOF COLOR OF PRINCIPAL DWELLING UNIT_____
(ROOF COLOR OF ADU IS TO MATCH PRINCIPAL DWELLING UNIT)

- ☐ TRIM COLOR OF PRINCIPAL DWELLING _____ (TRIM COLOR OF ADU TO MATCH PRINCIPAL DWELLING UNIT TRIM)
- ☐ CONCRETE TILE ROOF - EAGLE ROOF PRODUCTS INC. - IAMPO UES-ER 1900 MINIMUM 2-1/2:12 ROOF SLOPE. COLOR OF CONCRETE TILE ROOF_____
- ☐ ARCHITECTURAL GRADE SHINGLE - CERTAINTEED - ICC-ES ESR-3537 MINIMUM 2:12 ROOF SLOPE. COLOR OF ARCHITECTURAL GRADE SHINGLES_____
- ☐ OTHER ROOF MATERIAL / COLOR / ICC / UL: _____

lot size and impervious area:

Total Lot Size = _____
(Existing building footprint, patios, decks, hardscape, etc.)

Total Area of Existing Impervious Surfaces = _____
(Existing building footprint, patios, decks, hardscape, etc.)

Total Area of New Impervious Surfaces = _____
(Increase to building footprint, patios, decks, hardscape, etc.)

Total Area of Replaced Impervious Surfaces =_____
(Replacement to building footprint, patios, decks, hardscape, etc.)

fire sprinkler information:

X SELECTION

- ☐ EXISTING RESIDENCE CURRENTLY HAS FIRE SPRINKLERS
- ☐ EXISTING RESIDENCE DOES NOT CURRENTLY HAVE FIRE SPRINKLERS

NEW ADU IS REQUIRED TO HAVE FIRE SPRINKLERS IF THE EXISTING RESIDENCE HAS FIRE SPRINKLERS OR REQUIRED BY OCFA.

fire rated details:

X SELECTION

- ☐ ROOF EAVE DETAIL 1,2,3,5,6,7/A5.2
- ☐ WALL FINISH DETAIL 9B,12B,15B/ A5.1
- ☐ PROPERTY IS LOCATED IN THE VERY HIGH FIRE HAZARD SEVERITY ZONE
- ☐ PROPERTY IS NOT LOCATED IN THE VERY HIGH FIRE HAZARD SEVERITY ZONE (VHSFZ)

FIRE RATED DETAILS ABOVE ARE TO BE USED WHEN THE PROPERTY IS LOCATED IN THE VERY HIGH FIRE SEVERITY ZONE (VHFSZ) OR WHEN WALLS AND ROOF EAVES ARE LESS THAN 5 FT FROM PROPERTY LINE IN AN UNSPRINKLERED BUILDING OR LESS THAN 3 FT FROM PROPERTY LINE IN SPRINKLERED BUILDINGS PER TABLE R302.1(1) & R302.1(2).
FIRE RATED DETAILS ABOVE ARE ALSO TO BE USED WHEN THE ADU IS LESS THAN 10 FT FROM THE MAIN DWELLING UNIT IN AN UNSPRINKLERED BUILDING OR LESS THAN 6 FT FROM THE MAIN DWELLING UNIT IN A SPRINKLERED BUILDING. SEE NOTES ON A0.1

window and trim color:

X SELECTION

WINDOW COLOR OF PRINCIPAL DWELLING UNIT_____
(WINDOW COLOR SELECTION BELOW FOR THE ADU IS TO MATCH PRINCIPAL DWELLING UNIT WINDOW COLOR)

- ☐ WHITE
- ☐ TAN
- ☐ DARK BRONZE
- ☐ OTHER WINDOW COLOR_____

sewer waste water information:

X SELECTION

- ☐ ADU TO HAVE NEW CONNECTION TO CITY SEWER MAIN
- ☐ ADU TO CONNECT TO EXISTING RESIDENCE SEWER LATERAL. *IF EXISTING HOUSE HAS FOUR OR MORE TOILETS WITH AN EXISTING 3 INCH SEWER DRAIN, A SEPARATE CONNECTION TO THE CITY SEWER MAIN IS REQUIRED FOR THE NEW ADU. REFER TO CURRENT CPC SECTION 703.2 FOR PIPE SIZING REQUIREMENTS SHOW LOCATION AND SIZE OF EXISTING MAIN HOUSE SEWER LINE. 2% SLOPE REQUIRED FOR ALL NEW SEWER LINES, LIST NUMBER OF BATHROOMS IN EXITING HOME _____
- ☐ SEPTIC - REQUIRES REGIONAL WATER BOARD APPROVAL NEW SEPTIC TANKS WILL REQUIRE SEPARATE PLUMBING PERMIT AND SOILS REPORT.

DISTANCE TO CONNECTION_____

electrical service information:

X SELECTION

- ☐ UPGRADED SERVICE
- ☐ EXISTING SERVICE TO REMAIN
- ☐ NEW SERVICE

SIZE OF EXISTING SERVICE_____ SIZE OF NEW SERVICE_____

gas service information:

X SELECTION

- ☐ UPGRADED SERVICE
- ☐ EXISTING SERVICE TO REMAIN
- ☐ NEW SERVICE

SIZE OF EXISTING SERVICE_____ SIZE OF NEW SERVICE_____

off site work

X SELECTION

- ☐ NO
- ☐ YES

IF YES, AN ENCROACHMENT PERMIT WILL BE REQUIRED FROM OC PUBLIC WORKS

EXAMPLE GAS PIPE DIAGRAM

TO BE UPDATED FOR SITE SPECIFIC CONDITIONS

NOTE: EXISTING GAS SERVICE AND METER SIZE TO BE PROVIDED BY HOMEOWNER AND UPDATED ISOMETRIC LAYOUT PROVIDED BY DESIGNER OF CHOICE. CFH & BTUS PROVIDED AS SUGGESTED LOADS. OWNER/DESIGNER IS TO PROVIDE ACCURATE INFORMATION. GAS PIPES BELOW GRADE SHALL BE POLYETHYLENE.

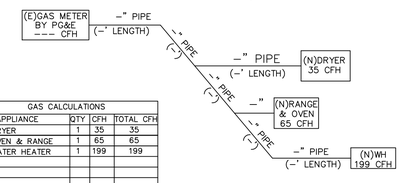
CPC TABLES FOR SIZING GAS PIPING SYSTEMS
TABLE 1215.2(1) THROUGH TABLE 1215.2(36) SHALL BE USED TO SIZE GAS PIPING IN CONJUNCTION WITH ONE OF THE METHODS DESCRIBED IN SECTION 1215.1.1 THROUGH SECTION 1215.1.3

ALLOWABLE GAS PIPING MATERIALS ABOVE GRADE

1208.6.3 METALLIC PIPE – CAST–IRON PIPE SHALL NOT BE USED.
1208.6.3.1 STEEL AND WROUGHT–IRON PIPE
1208.6.3.2 COPPER AND COPPER ALLOY PIPE
1208.6.3.3 ALUMINUM ALLOY PIPE

1208.6.4 METALLIC TUBING – SEAMLESS COPPER, ALUMINUM ALLOY, OR STEEL TUBING SHALL NOT BE USED WITH GASES CORROSIVE TO SUCH MATERIAL
1208.6.4.1 STEEL TUBING
1208.6.4.2 COPPER AND COPPER ALLOY TUBING
1208.6.4.3 ALUMINUM ALLOY TUBING
1208.6.4.4 CORRUGATED STAINLESS STEEL TUBING

1210.1.7 PLASTIC PIPING
PLASTIC PIPING SHALL BE INSTALLED OUTDOORS, UNDERGROUND ONLY.



GAS CALCULATIONS			
APPLIANCE	QTY	CFH	TOTAL CFH
(NEW) DRYER	1	35	35
(NEW) OVEN & RANGE	1	65	65
(NEW) WATER HEATER	1	199	199
TOTAL GAS LOAD FOR HOUSEHOLD APPLIANCES = 299,000 BTU/h 299 CFH			
SPECIFICATIONS FOR EQUIPMENT SHALL BE KEPT ON SITE TO PROVIDE TO COUNTY OF ORANGE BUILDING INSPECTOR			

USE OF PROPANE TANKS REQUIRE OCFA APPROVAL.

FOR USE IN COUNTY OF ORANGE

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 ORANGE ONLY. THIS IS A LIMITED SET OF STANDARDIZED ADU PLANS AND SPECIFICATIONS APPROVED BY THE COUNTY OF ORANGE 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.
2. THE RECIPIENT RECOGNIZES AND ACKNOWLEDGES THAT THE USE OF THIS INFORMATION WILL BE AT THEIR SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL EXPOSURE TO DESIGN PATH STUDIO. NO WARRANTIES OF ANY NATURE, WHETHER EXPRESS OR IMPLIED, SHALL ATTACH TO THESE DOCUMENTS AND THE INFORMATION CONTAINED THEREON. ANY USE, REUSE, OR ALTERATION OF THESE DOCUMENTS BY THE RECIPIENT OR BY OTHERS WILL BE AT THE RECIPIENT'S RISK AND FULL LEGAL RESPONSIBILITY. FURTHERMORE, THE RECIPIENT WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, DEFEND, INDEMNIFY AND HOLD DESIGN PATH STUDIO AND ITS ARCHITECTS HARMLESS FROM ANY AND ALL CLAIMS, SUITS, LIABILITY, DEMANDS, JUDGMENTS, OR COSTS ARISING OUT OF OR RESULTING THERE FROM ANY USE OF THESE CONSTRUCTION DOCUMENTS FOR OR ON ACCOUNT OF ANY INJURY, DEATH, DAMAGE OR LOSS TO PERSONS OR PROPERTY, DIRECT OR CONSEQUENTIAL DAMAGES IN ANY AMOUNT. THIS INDEMNITY DOES NOT APPLY TO THE SOLE NEGLIGENCE OR WILLFUL MISCONDUCT OF DESIGN PATH STUDIO OR ITS ARCHITECTS.
3. THE DESIGNS REPRESENTED BY THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION.
4. IF THE RECIPIENT DOES NOT AGREE WITH THE ABOVE CONDITIONS, DO NOT PROCEED WITH CONSTRUCTION OF AN ADU OR OTHER IMPROVEMENT UNDER THESE PLANS AT ALL.

DESIGN PATH STUDIO
architecture + planning
DESIGNPATHSTUDIO.COM

project
County of Orange
Pre-Approved
ADU Program

OWNER NAME:

ADDRESS:

APN:

LEGAL DESCRIPTION:

description
Title Sheet
Studio

date JANUARY 2026

project no.

drawn by DESIGN PATH STUDIO

sheet no. T1.1



Studio - Ranch view #1



Studio - Ranch view #2



Studio - Ranch view #3

FOR USE IN COUNTY OF ORANGE

DESIGN PATH STUDIO
architecture + planning
DESIGNPATHSTUDIO.COM

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project
County of Orange
Pre-Approved
ADU Program

OWNER NAME:

ADDRESS:

APN:

LEGAL DESCRIPTION:

description
Exterior
Style Option:
Ranch

date JANUARY 2026

project no.

drawn by DESIGN PATH STUDIO

sheet no. T1.2

3.2 Minimum Site BMP Requirements

The following requirements are for deployment of selected construction BMPs and apply year-round (not just during the rainy season) to all projects.

A. Pollution prevention where appropriate.

B. Development and implementation of a site specific run-off management plan.

C. Minimization of areas that are cleared and graded to only the portion of the site that is necessary for construction.

D. Minimization of exposure time of disturbed soil areas.

E. Minimization of grading during the wet season and correlation of grading with seasonal dry weather periods to the extent feasible.

F. Limitation of grading to a maximum disturbed area as determined by the County / city before either temporary or permanent erosion controls are implemented to prevent stormwater pollution. The County / city has the option of temporarily increasing the size of disturbed soil areas by a set amount beyond the maximum, if the individual site is in compliance with applicable stormwater regulations and the site has adequate control practices implemented to prevent stormwater pollution.

G. Temporary stabilization and reseeding of disturbed soil areas as rapidly as feasible.

H. Non-stormwater management measures to prevent illicit discharges and control stormwater pollution sources.

I. Erosion Control BMPs shall be implemented.

J. Wind erosion control BMPs (dust control) shall be implemented.

K. Sediment control BMPs shall be implemented at all appropriate locations along the site perimeter, at all operational storm drain inlets and at all non-active slopes.

L. Tracking control BMPs to control off-site sediment tracking shall be implemented and maintained.

M. Waste management and materials pollution control BMPs shall be implemented to prevent the contamination of stormwater by construction wastes and materials.

N. Non-stormwater BMPs shall be implemented to reduce or prevent the contamination of stormwater from construction activities.

O. Weather tracking: projects shall monitor the National Weather Service (www.weather.gov) probability of precipitation. When a rain event is predicted (forecast predicts a greater than 50% probability of precipitation), the project must be inspected and BMPs must be maintained or deployed as needed to protect the project from discharging pollutants. (CGP projects only)

P. BMP failures must be repaired or replaced with an acceptable alternate as soon as it is safe to do so. Repairs or replacements must result in an adequate BMP, or additional BMPs should be installed to provide adequate protection.

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

R. Inactive exposed areas: All exposed areas not being actively worked in shall be protected from erosion with temporary or permanent BMPs (erosion and sediment control). The ability to deploy standby BMP materials is not sufficient for these areas; erosion and sediment control BMPs must actually be deployed.

S. Completed areas: Areas that have already been protected from erosion using permanent erosion control BMPs (physical or vegetation) are not considered "exposed". Deployment of permanent erosion control BMPs should commence as soon as practical on completed areas.

T. Preservation of natural hydrologic features where feasible.

U. Preservation of riparian buffers and corridors where feasible.

V. Evaluation and maintenance of all BMPs, until removed.

W. Retention, reduction, and proper management of all stormwater pollutant discharges on site to the Maximum Extent Practicable (MEP) standard.

NPDES NOTES

2. SEDIMENT FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON SITE USING STRUCTURAL CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE.
3. STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TACKING, OR WIND.
4. APPROPRIATE BMP'S FOR CONSTRUCTION-RELATED MATERIALS, WASTES, SPILLS SHALL BE IMPLEMENTED TO MINIMIZE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTIES BY WIND OR RUNOFF.
5. RUNOFF FROM EQUIPMENT AND VEHICLE WASHING SHALL BE CONTAINED AT CONSTRUCTION SITES UNLESS TREATED TO REDUCE OR REMOVE SEDIMENT AND OTHER POLLUTANTS.
6. ALL CONSTRUCTION CONTRACTOR AND SUBCONTRACTOR PERSONNEL ARE TO BE MADE AWARE OR THE REQUIRED BEST MANAGEMENT PRACTICES AND GOOD HOUSEKEEPING MEASURES FOR THE PROJECT SITE AND ANY ASSOCIATED CONSTRUCTION STAGING AREAS.
7. AT THE END OF EACH DAY OF CONSTRUCTION ACTIVITY ALL CONSTRUCTION DEBRIS AND WASTE MATERIALS SHALL BE COLLECTED AND PROPERLY DISPOSED IN TRASH OR RECYCLE BINS.
8. CONSTRUCTION SITES SHALL BE MAINTAINED IN SUCH A CONDITION THAT AN ANTICIPATED STORM DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITE. DISCHARGES OF MATERIAL OTHER THAN STORMWATER ONLY WHEN NECESSARY FOR PERFORMANCE AND COMPLETION OF CONSTRUCTION PRACTICES AND WHERE THEY DO NOT: CAUSE OR CONTRIBUTE TO A VIOLATION OF ANY WATER QUALITY STANDARD; CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR NUISANCE; OR CONTAIN A HAZARDOUS SUBSTANCE IN A QUANTITY REPORTABLE UNDER FEDERAL REGULATIONS 40 CFR PARTS 117 AND 302.
9. POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS; WASTES FROM PAINTS, STAINS, SEALANTS, GLUES, LIMES, PESTICIDES, HERBICIDES, WOOD PRESERVATIVES AND SOLVENTS; ASBESTOS FIBERS, PAINT FLAKES OR STUCCO FRAGMENTS; FUELS, OILS, LUBRICANTS, AND HYDRAULIC, RADIATOR OR BATTERY FLUIDS; FERTILIZERS, VEHICLE/EQUIPMENT WASH WATER AND CONCRETE WASH WATER; CONCRETE, DETERGENT OR FLOATABLE WASTES; WASTES FROM ANY ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING AND SUPER CHLORINATED POTABLE WATER LINE FLUSHING. DURING CONSTRUCTION, PERMITTEE SHALL DISPOSE OF SUCH MATERIALS IN A SPECIFIED AND CONTROLLED TEMPORARY AREA ON-SITE, PHYSICALLY SEPARATED FROM POTENTIAL STORMWATER RUNOFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.
10. DEWATERING OF CONTAMINATED GROUNDWATER, OR DISCHARGING CONTAMINATED SOILS VIA SURFACE EROSION IS PROHIBITED. DEWATERING OF NON- CONTAMINATED GROUNDWATER REQUIRES A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT FROM THE RESPECTIVE STATE REGIONAL WATER QUALITY CONTROL BOARD.
11. GRADED AREAS ON THE PERMITTED AREA PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPES AT THE CONCLUSION OF EACH WORKING DAY. DRAINAGE IS TO BE DIRECTED TOWARD DESILTING FACILITIES.
12. THE PERMITTEE AND CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.
13. THE PERMITTEE AND CONTRACTOR SHALL INSPECT THE EROSION CONTROL WORK AND INSURE THAT THE WORK IS IN ACCORDANCE WITH THE APPROVED PLANS.
14. THE PERMITTEE SHALL NOTIFY ALL GENERAL CONTRACTORS, SUBCONTRACTORS, MATERIAL SUPPLIERS, LESSEES, AND PROPERTY OWNERS: THAT DUMPING OF CHEMICALS INTO THE STORM DRAIN SYSTEM OR THE WATERSHED IS PROHIBITED.
15. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
16. ALL REMOVABLE EROSION PROTECTIVE DEVICES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5-DAY RAIN PROBABILITY FORECAST EXCEEDS 40%.
17. SEDIMENTS FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON SITE USING AN EFFECTIVE COMBINATION OF EROSION AND SEDIMENT CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE, AND STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TRACKING, OR WIND.
18. APPROPRIATE BMPS FOR CONSTRUCTION-RELATED MATERIALS, WASTES, SPILLS OR RESIDUES SHALL BE IMPLEMENTED AND RETAINED ON SITE TO MINIMIZE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTY BY WIND OR RUNOFF.

EXISTING SWIMMING POOL REQUIREMENTS

WHEN A BUILDING PERMIT IS ISSUED FOR THE CONSTRUCTION OF A NEW SWIMMING POOL OR SPA OR THE REMODELING OF AN EXISTING SWIMMING POOL OR SPA AT A PRIVATE SINGLE-FAMILY HOME, THE RESPECTIVE SWIMMING POOL OR SPA SHALL BE EQUIPPED WITH AT LEAST TWO OF THE FOLLOWING SEVEN DROWNING PREVENTION SAFETY FEATURES:
(1) AN ENCLOSURE THAT MEETS THE REQUIREMENTS OF SECTION 115923 AND ISOLATES THE SWIMMING POOL OR SPA FROM THE PRIVATE SINGLE-FAMILY HOME.
(2) REMOVABLE MESH FENCING THAT MEETS AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) SPECIFICATIONS F2286 STANDARDS IN CONJUNCTION WITH A GATE THAT IS SELF-CLOSING AND SELF-LATCHING AND CAN ACCOMMODATE A KEY LOCKABLE DEVICE.
(3) AN APPROVED SAFETY POOL COVER, AS DEFINED IN SUBDIVISION (D) OF SECTION 115921.
(4) EXIT ALARMS ON THE PRIVATE SINGLE-FAMILY HOME'S DOORS THAT PROVIDE DIRECT ACCESS TO THE SWIMMING POOL OR SPA. THE EXIT ALARM MAY CAUSE EITHER AN ALARM NOISE OR A VERBAL WARNING, SUCH AS A REPEATING NOTIFICATION THAT "THE DOOR TO THE POOL IS OPEN."
(5) A SELF-CLOSING, SELF-LATCHING DEVICE WITH A RELEASE MECHANISM PLACED NO LOWER THAN 54 INCHES ABOVE THE FLOOR ON THE PRIVATE SINGLE-FAMILY HOME'S DOORS PROVIDING DIRECT ACCESS TO THE SWIMMING POOL OR SPA.
(6) AN ALARM THAT, WHEN PLACED IN A SWIMMING POOL OR SPA, WILL SOUND UPON DETECTION OF ACCIDENTAL OR UNAUTHORIZED ENTRANCE INTO THE WATER. THE ALARM SHALL MEET AND BE INDEPENDENTLY CERTIFIED TO THE ASTM STANDARD F2208 "STANDARD SAFETY SPECIFICATION FOR RESIDENTIAL POOL ALARMS," WHICH INCLUDES SURFACE MOTION, PRESSURE, SONAR, LASER, AND INFRARED TYPE ALARMS. A SWIMMING PROTECTION ALARM FEATURE DESIGNED FOR INDIVIDUAL USE, INCLUDING AN ALARM ATTACHED TO A CHILD THAT SOUNDS WHEN THE CHILD EXCEEDS A CERTAIN DISTANCE OR BECOMES SUBMERGED IN WATER, IS NOT A QUALIFYING DROWNING PREVENTION SAFETY FEATURE.
(7) OTHER MEANS OF PROTECTION, IF THE DEGREE OF PROTECTION AFFORDED IS EQUAL TO OR GREATER THAN THAT AFFORDED BY ANY OF THE FEATURES SET FORTH ABOVE AND HAS BEEN INDEPENDENTLY VERIFIED BY AN APPROVED TESTING LABORATORY AS MEETING STANDARDS FOR THOSE FEATURES ESTABLISHED BY THE ASTM OR THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME).
(B) BEFORE THE ISSUANCE OF A FINAL APPROVAL FOR THE COMPLETION OF PERMITTED CONSTRUCTION OR REMODELING WORK, THE LOCAL BUILDING CODE OFFICIAL SHALL INSPECT THE DROWNING SAFETY PREVENTION FEATURES REQUIRED BY THIS SECTION AND, IF NO VIOLATIONS ARE FOUND, SHALL GIVE FINAL APPROVAL.

FIRE NOTES

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 505.1
2. ALL FIRE APPARATUS ROADS ACCESS ROADS SHALL HAVE AN UNOBSTRUCTED VERTICAL CLEARANCE OF NO LESS THAN 13 FEET 6 INCHES.
3. SITE PLAN SHALL PROVIDE DIMENSIONS SHOWING REQUIRED FIRE APPARATUS ACCESS ROADS. FIRE ACCESS ROADWAYS SHALL HAVE AN UNOBSTRUCTED IMPROVED WIDTH OF NOT LESS THAN 24 FEET.
EXCEPTIONS: 1. RESIDENTIAL DWELLINGS NOT IN THE VERY HIGH FIRE HAZARD SEVERITY ZONE SHALL HAVE MINIMUM OF 20 FEET OF UNOBSTRUCTED IMPROVED WIDTH. 2. SINGLE-FAMILY RESIDENTIAL DRIVEWAYS SERVING NO MORE THAN TWO SINGLE-FAMILY DWELLING SHALL HAVE A MINIMUM OF 16 FEET OF UNOBSTRUCTED IMPROVED WIDTH.

FIRE ACCESS ROADWAYS
- SURFACE FIRE APPARATUS ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF FIRE APPARATUS NOT LESS THAN 75,000 LBS AND SHALL BE PROVIDED WITH AN APPROVED PACED SURFACE TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES.
- GATED ENTRANCES WITH CARD READERS, GUARD STATIONS OR CENTER MEDIANS, WHICH WILL HAVE SEPARATED LANES OF ONE-WAY TRAFFIC, SHALL BE NOT LESS THAN 14 FEET WIDE PER LANE.
- 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 RIGHTS FOR EMERGENCY VEHICLE INGRESS AND EGRESS PURPOSES AND SHALL RELINQUISH RIGHTS TO BUILD ANY BUILDING, WALL, FENCE, OR OTHER STRUCTURE WITHIN 5 FEET OF THE EXISTING ACCESS EASEMENT.
- 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 SERVING MORE THAN (4) FOUR DWELLING UNITS SHALL BE PROVIDED WITH A CUL-DE-SAC. THE MINIMUM UNOBSTRUCTED PAVED RADIUS WIDTH FOR A CUL-DE-SAC SHALL BE 36 FEET CURB LINE TO CURB LINE WITH NO PARKING. ALTERNATE TYPES OF TURN-AROUND (HAMMERHEADS, ETC.) MAY BE CONSIDERED BY THE FIRE MARSHAL AS NEEDED TO ACCOMPLISH THE INTENT OF THE FIRE CODE.

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

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

GENERAL NOTES

1. SEE BUILDING PLANS FOR ALL OTHER DIMENSIONS AND NOTES NOT SHOWN.
2. SEE BUILDING PLANS AND SCHEDULES FOR ALL EXTERIOR DOOR AND WINDOW REFERENCES AND LOCATIONS.
3. YARD SETBACKS ARE TO BE MEASURED FROM THE EXTERIOR WALL FINISH TO THE PROPERTY LINE AND NOT FROM THE OUTSIDE OF THE FOOTING (OR FACE OF STUDS). THE PLANS MUST BE DESIGNED WITH THE WALL FINISH THICKNESS (I.E. 7/8" STUCCO, ETC.) ADDED TO THE PLAN FOR THE SETBACK MEASUREMENT. THE FIELD INSPECTOR WILL ADD THE PLANNED WALL FINISH THICKNESS TO THE FOUNDATION SETBACK.
4. NEW ELECTRIC SERVICE IS TO BE LOCATED - POOLS, SPAS, WALLS, FENCES, PATIO COVERS AND OTHER FREESTANDING STRUCTURES REQUIRE SEPARATE REVIEWS AND PERMITS
5. LANDSCAPE AND IRRIGATION WATER USE SHALL HAVE WEATHER OR SOIL BASED CONTROLLERS
6. ADU WILL BE CONNECTED TO THE PUBLIC SEWER SYSTEM OR WILL PROVIDE A COMPLYING SEPTIC SYSTEM.
7. CAL-OSHA PERMIT IS REQUIRED FOR EXCAVATIONS DEEPER THAN 5' AND SHORING AND UNDERPINNING.
8. A DIMENSIONED SITE PLAN DRAWN TO SCALE SHALL BE PROVIDED SHOWING THE FOLLOWING: NORTH ARROW, PROPERTY LINES, EASEMENTS, STREETS, EXISTING AND PROPOSED BUILDINGS, AND STRUCTURES, LOCATION OF YARDS USED FOR ALLOWABLE INCREASE OF BUILDING AREA, DIMENSIONED SETBACKS, MINIMUM SEPARATION FROM EXISTING STRUCTURES AND FUEL MODIFICATION ZONES PER UNIFORM ADMINISTRATIVE CODE SECTION 302.
9. IF A GRADING PLAN IS REQUIRED, INCORPORATE THE ENTIRE APPROVED GRADING PLAN/IMPROVEMENT PLAN (ALL SHEETS) WITH THE BUILDING PLANS. PROJECTIONS, INCLUDING EAVES, MUST BE AT LEAST 24" FROM PROPERTY LINES.
10.

GREEN BUILDING CODE NOTES - SEE G.01 FOR COMPLETE LIST OF MANDATORY MEASURES

1. SITE SHALL BE PLANNED AND DEVELOPED TO KEEP SURFACE WATER AWAY FROM BUILDINGS. PLANS SHALL BE PROVIDED AND APPROVED BY THE CITY ENGINEER THAT SHOW SITE GRADING TO 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.
2. 65 % OF CONSTRUCTION WASTE IS TO BE RECYCLED.
3. 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.
4. 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.
5. 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
6. 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
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.
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

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

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

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

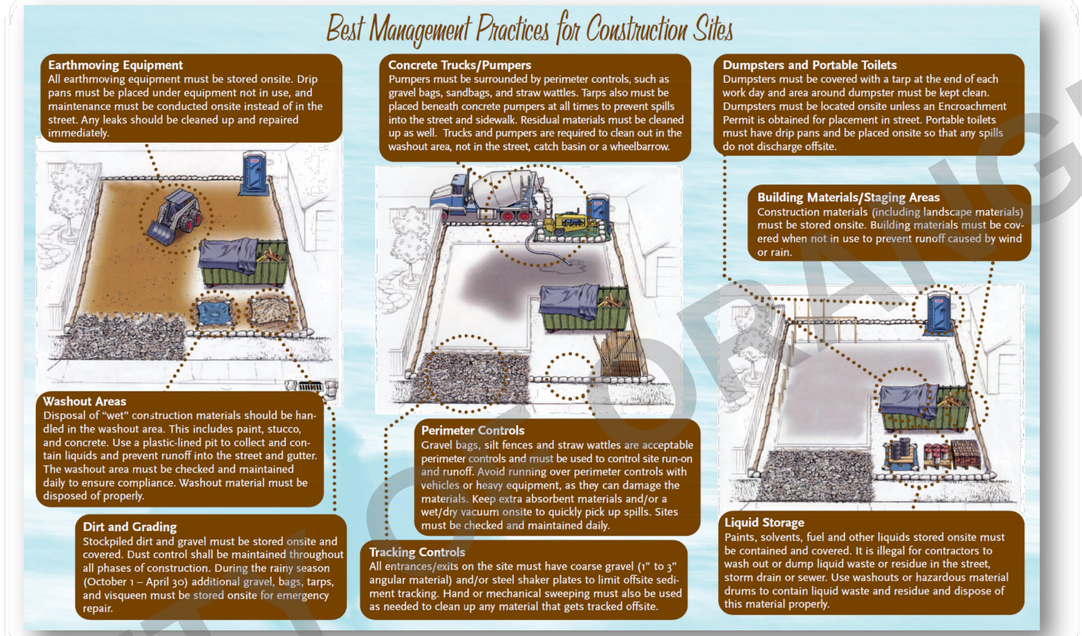


Figure 2: Typical Construction Site BMPs (Graphic provided by the City of San Clemente)

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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 ORANGE ONLY. THIS IS A LIMITED SET OF STANDARDIZED ADU PLANS AND SPECIFICATIONS APPROVED BY THE COUNTY OF ORANGE 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.
2. THE RECIPIENT RECOGNIZES AND ACKNOWLEDGES THAT THE USE OF THIS INFORMATION WILL BE AT THEIR SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL EXPOSURE TO DESIGN PATH STUDIO. NO WARRANTIES OF ANY NATURE, WHETHER EXPRESS OR IMPLIED, SHALL ATTACH TO THESE DOCUMENTS AND THE INFORMATION CONTAINED THEREON. ANY USE, REUSE, OR ALTERATION OF THESE DOCUMENTS BY THE RECIPIENT OR BY OTHERS WILL BE AT THE RECIPIENT'S RISK AND FULL LEGAL RESPONSIBILITY. FURTHERMORE, THE RECIPIENT WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, DEFEND, INDEMNIFY AND HOLD DESIGN PATH STUDIO AND ITS ARCHITECTS HARMLESS FROM ANY AND ALL CLAIMS, SUITS, LIABILITY, DEMANDS, JUDGMENTS, OR COSTS ARISING OUT OF OR RESULTING THERE FROM ANY USE OF THESE CONSTRUCTION DOCUMENTS FOR OR ON ACCOUNT OF ANY INJURY, DEATH, DAMAGE OR LOSS TO PERSONS OR PROPERTY, DIRECT OR CONSEQUENTIAL DAMAGES IN ANY AMOUNT. THIS INDEMNITY DOES NOT APPLY TO THE SOLE NEGLIGENCE OR WILLFUL MISCONDUCT OF DESIGN PATH STUDIO OR ITS ARCHITECTS.
3. THE DESIGNS REPRESENTED BY THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION.
4. IF THE RECIPIENT DOES NOT AGREE WITH THE ABOVE CONDITIONS, DO NOT PROCEED WITH CONSTRUCTION OF AN ADU OR OTHER IMPROVEMENT UNDER THESE PLANS AT ALL.

project
County of Orange
Pre-Approved
ADU Program

OWNER NAME:

ADDRESS:

APN:

LEGAL DESCRIPTION:

description
Site
Information

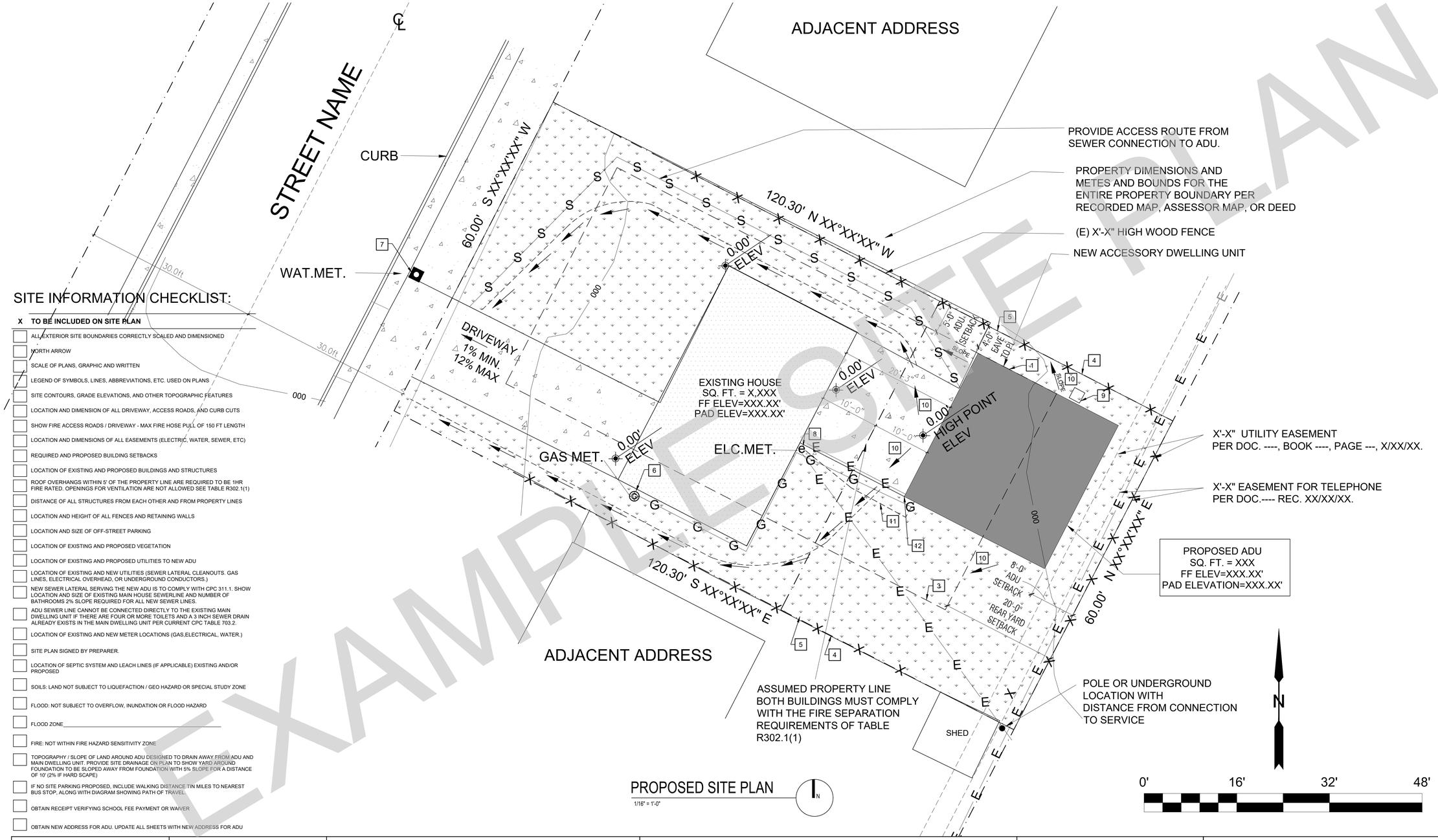
date JANUARY 2026

project no.

drawn by DESIGN PATH STUDIO

sheet no. AS.1

FOR USE IN COUNTY



PROPOSED SITE PLAN
1/16" = 1'-0"

SITE INFORMATION CHECKLIST:

X	TO BE INCLUDED ON SITE PLAN
☐	ALL EXTERIOR SITE BOUNDARIES CORRECTLY SCALED AND DIMENSIONED
☐	NORTH ARROW
☐	SCALE OF PLANS, GRAPHIC AND WRITTEN
☐	LEGEND OF SYMBOLS, LINES, ABBREVIATIONS, ETC. USED ON PLANS
☐	SITE CONTOURS, GRADE ELEVATIONS, AND OTHER TOPOGRAPHIC FEATURES
☐	LOCATION AND DIMENSION OF ALL DRIVEWAY, ACCESS ROADS, AND CURB CUTS
☐	SHOW FIRE ACCESS ROADS / DRIVEWAY - MAX FIRE HOSE PULL OF 150 FT LENGTH
☐	LOCATION AND DIMENSIONS OF ALL EASEMENTS (ELECTRIC, WATER, SEWER, ETC)
☐	REQUIRED AND PROPOSED BUILDING SETBACKS
☐	LOCATION OF EXISTING AND PROPOSED BUILDINGS AND STRUCTURES
☐	ROOF OVERHANGS WITHIN 5' OF THE PROPERTY LINE ARE REQUIRED TO BE 1HR FIRE RATED. OPENINGS FOR VENTILATION ARE NOT ALLOWED SEE TABLE R302.1(1)
☐	DISTANCE OF ALL STRUCTURES FROM EACH OTHER AND FROM PROPERTY LINES
☐	LOCATION AND HEIGHT OF ALL FENCES AND RETAINING WALLS
☐	LOCATION AND SIZE OF OFF-STREET PARKING
☐	LOCATION OF EXISTING AND PROPOSED VEGETATION
☐	LOCATION OF EXISTING AND PROPOSED UTILITIES TO NEW ADU
☐	LOCATION OF EXISTING AND NEW UTILITIES (SEWER LATERAL CLEANOUTS. GAS LINES, ELECTRICAL OVERHEAD, OR UNDERGROUND CONDUCTORS.)
☐	NEW SEWER LATERAL SERVING THE NEW ADU IS TO COMPLY WITH CPC 311.1. SHOW LOCATION AND SIZE OF EXISTING MAIN HOUSE SEWERLINE AND NUMBER OF BATHROOMS 2% SLOPE REQUIRED FOR ALL NEW SEWER LINES.
☐	ADU SEWER LINE CANNOT BE CONNECTED DIRECTLY TO THE EXISTING MAIN DWELLING UNIT IF THERE ARE FOUR OR MORE TOILETS AND A 3 INCH SEWER DRAIN ALREADY EXISTS IN THE MAIN DWELLING UNIT PER CURRENT CPC TABLE 703.2.
☐	LOCATION OF EXISTING AND NEW METER LOCATIONS (GAS,ELECTRICAL, WATER.)
☐	SITE PLAN SIGNED BY PREPARER.
☐	LOCATION OF SEPTIC SYSTEM AND LEACH LINES (IF APPLICABLE) EXISTING AND/OR PROPOSED
☐	SOILS: LAND NOT SUBJECT TO LIQUEFACTION / GEO HAZARD OR SPECIAL STUDY ZONE
☐	FLOOD: NOT SUBJECT TO OVERFLOW, INUNDATION OR FLOOD HAZARD
☐	FLOOD ZONE_____
☐	FIRE: NOT WITHIN FIRE HAZARD SENSITIVITY ZONE
☐	TOPOGRAPHY / SLOPE OF LAND AROUND ADU DESIGNED TO DRAIN AWAY FROM ADU AND MAIN DWELLING UNIT. PROVIDE SITE DRAINAGE ON PLAN TO SHOW YARD AROUND FOUNDATION TO BE SLOPED AWAY FROM FOUNDATION WITH 5% SLOPE FOR A DISTANCE OF 10' (2% IF HARD SCAPE)
☐	IF NO SITE PARKING PROPOSED, INCLUDE WALKING DISTANCE TIN MILES TO NEAREST BUS STOP. ALONG WITH DIAGRAM SHOWING PATH OF TRAVEL
☐	OBTAIN RECEIPT VERIFYING SCHOOL FEE PAYMENT OR WAIVER
☐	OBTAIN NEW ADDRESS FOR ADU. UPDATE ALL SHEETS WITH NEW ADDRESS FOR ADU

KEYNOTES

1. LINE OF EXTERIOR WALL, TYP.
2. LINE OF ROOF OVERHANG / DECK / AWNING / STRUCTURE ABOVE
3. REQUIRED SETBACKS
4. PROPERTY LINE, TYP.
5. FENCE- HEIGHT PER PLAN
6. EXISTING GAS METER
7. EXISTING WATER METER
8. EXISTING ELECTRIC METER.
9. CONDENSING UNIT
10. SLOPE AWAY FROM FOUNDATION PER CRC R401.3. IF SETBACKS DO NOT ALLOW FOR MIN. SLOPE DROP, PROVIDE DRAIN OR SWALE TO DIVERT WATER AWAY FROM THE BUILDING AND ONTO POINT OF COLLECTION.
11. FEEDER TO EXTEND TO EXISTING PANEL
12. NEW ADU SUB PANEL / DISCONNECT / JUNCTION BOX AND GROUNDING ELECTRODE SYSTEM PER NEC ARTICLE 250.32

GENERAL NOTES

1. SPOT DIMENSIONS INDICATE ESTIMATED GRADE HEIGHTS. VERIFY IN FIELD PRIOR TO CONSTRUCTION.
2. SEE BUILDING PLANS FOR ALL OTHER DIMENSIONS AND NOTES NOT SHOWN.
3. SEE BUILDING PLANS AND SCHEDULES FOR ALL EXTERIOR DOOR AND WINDOW REFERENCES AND LOCATIONS.
4. YARD SETBACKS ARE TO BE MEASURED FROM THE EXTERIOR WALL FINISH TO THE PROPERTY LINE AND NOT FROM THE OUTSIDE OF THE FOOTING (OR FACE OF STUDS).
5. SEWER DRAIN CLEANOUTS REQUIRED AT 100 FOOT INTERVALS AND CHANGES IN DIRECTION OF 135 DEGREES OR MORE.
6. 2% SLOPE REQUIRED FOR ALL NEW SEWER LINES.

LEGEND

- SPOT GRADE ELEVATION (0.00')
- AREA OF NEW BUILDING FOOTPRINT
- AREA OF EXISTING BUILDING FOOTPRINT
- CONCRETE PAVING
- LANDSCAPE
- KEYNOTE (1)
- PROPERTY LINE
- REQUIRED SETBACKS
- DRAINAGE PATTERN
- SITE CONTOURS (000)
- NEW SEWER LINE (-S-)
- NEW DOMESTIC WATER LINE (-W-)
- NEW ELECTRICAL & TEL DATA LINE (-E-)
- NEW GAS LINE (-G-)
- NEW OR EXISTING FENCE TO COMPLY WITH ZONING CODE SECTION 37-50.090 (-X-X-X-)

CERTIFICATE OF ACCURACY

I CERTIFY ALL DOCUMENTS AND PLANS CLEARLY AND ACCURATELY SHOW ALL EXISTING AND ALL PROPOSED BUILDINGS, STRUCTURES, ACCESS ROADS, AND UTILITIES/UTILITY EASEMENTS. ALL PROPOSED LAND USE ACTIVITIES, IMPROVEMENTS TO LAND, AND/OR BUILDING MODIFICATIONS OR ADDITIONS ARE CLEARLY LABELED ON THE SITE PLAN OF THE APPROVED PLAN SET. I UNDERSTAND THAT ANY POTENTIALLY EXISTING DETAIL WITHIN THESE PLANS INCONSISTENT WITH THE SITE PLAN ARE NOT APPROVED AND MAY BE REQUIRED TO BE ALTERED OR REMOVED. THE SUBMITTED DOCUMENTS AND PLANS SHOW THE CORRECT DIMENSIONS OF THE PROPERTY, THE BUILDINGS, AND STRUCTURES AND THEIR SETBACKS FROM PROPERTY LINES AND FROM ONE ANOTHER, ACCESS ROADS/EASEMENTS, AND UTILITIES. THE EXISTING AND PROPOSED USE OF LAND AND OF EACH BUILDING AS STATED IS TRUE AND CORRECT. FURTHER, ALL IMPROVEMENTS EXISTING ON THE PROPERTY WERE COMPLETED IN ACCORDANCE WITH ALL REGULATIONS IN EXISTENCE AT THE TIME OF THEIR CONSTRUCTION, UNLESS OTHERWISE NOTED. ALL EASEMENTS AND OTHER ENCUMBRANCES TO DEVELOPMENT HAVE BEEN ACCURATELY SHOWN AND LABELED AS WELL AS ALL ON-SITE GRADING/SITE PREPARATION.

APPLICANT (SIGNATURE): _____ DATE: _____

SITE PLAN PREPARED BY (SIGNATURE) _____ DATE: _____

UTILITIES PROVIDERS:

- GAS:
- ELECTRIC:
- WATER:

SCHOOL DISTRICTS:

HIGH SCHOOL -

ELEMENTARY SCHOOL -

GRADING INFORMATION:

TOTAL CUBIC YARD OF EARTHWORK = _____

TOTAL FILL MATERIAL PLACED ON AN EXISTING SLOPE STEEPER THAN FIVE UNITS HORIZONTAL TO ONE VERTICAL = _____

TOTAL CUT OR FILL MATERIAL EXCEEDING FOUR FEET IN VERTICAL DEPTH, MEASURED FROM THE EXISTING GROUND SURFACE = _____

EXAMPLE SITE PLAN

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architecture + planning
DESIGNPATHSTUDIO.COM

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3. THE DESIGNS REPRESENTED BY THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION.
4. IF THE RECIPIENT DOES NOT AGREE WITH THE ABOVE CONDITIONS, DO NOT PROCEED WITH CONSTRUCTION OF AN ADU OR OTHER IMPROVEMENT UNDER THESE PLANS AT ALL.

project
County of Orange
Pre-Approved
ADU Program

OWNER NAME:
ADDRESS:
APN:
LEGAL DESCRIPTION:

description
Example
Site Plan

date JANUARY 2026
project no.
drawn by DESIGN PATH STUDIO
sheet no. AS.2

2025 CALIFORNIA GREEN BUILDING STANDARDS CODE
RESIDENTIAL MANDATORY MEASURES SHEET 1

2025 CALGREEN RESIDENTIAL MANDATORY MEASURES
EFFECTIVE January 1, 2026

See specific referenced sections for complete details on CALGreen mandatory requirements.

2025 CALGREEN CODE

CHAPTER 1 – ADMINISTRATION

SECTION	REQUIREMENTS
101.3.1	**Scope** Applies to ALL newly constructed residential buildings: low-rise, high-rise, and hotels/motels.
102.3	Requires a completed Residential Occupancies Application Checklist or alternate method acceptable to the enforcing agency to be used for documentation of conformance.

CHAPTER 3 – GREEN BUILDING

SECTION	REQUIREMENTS
301.1.1	**Additions and alterations** • Applies to additions or alterations of residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. • Requirements only apply within the specific area of the addition or alteration. • Requirements for electric vehicle charging may apply to additions to or alterations of parking facilities for multifamily buildings. • Mandatory provisions of Section 4.106.4.2 may apply to additions and alterations of existing parking facilities or the addition of new parking facilities serving existing multifamily buildings. See Section 4.106.4.3 for application.
301.2	**Low-rise and high-rise residential buildings** Banners identify provisions applying to low-rise only [LR] or high-rise only [HR].

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302.1	**Mixed occupancy buildings** Requires each portion of mixed occupancy buildings to comply with CALGreen measures applicable for the specific occupancy. **Exceptions:** • Accessory structures and accessory occupancies serving residential buildings to comply with Chapter 4 and Appendix A4, as applicable. • Live/work units complying with the California Building Code Section 508.5 shall not be considered a mixed occupancy. Live/work units are required to comply with Chapter 4 and Appendix A4, as applicable.

CHAPTER 4 – RESIDENTIAL MANDATORY MEASURES
DIVISION 4.1 – PLANNING AND DESIGN

SECTION	REQUIREMENTS
4.106.2	**Storm water drainage and retention during construction** Projects which disturb less than 1 acre of soil and are not part of a larger common plan of development shall manage storm water drainage during construction.
4.106.3	**Grading and paving** Construction plans shall indicate how the site grading or drainage system will manage all surface water flows to keep water from entering buildings. **Exception:** Additions and alterations which do not alter the existing drainage path.

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EFFECTIVE January 1, 2026

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2025 CALGREEN CODE

4.106.4	**Electric vehicle (EV) charging for new construction** • New construction shall comply with Section 4.106.4.1 or 4.106.4.2. • Electric vehicle supply equipment (EVSE) shall comply with the *California Electrical Code*. **Exceptions:** 1. On a case-by-case basis where the local enforcing agency has determined EV charging and infrastructure are not feasible based upon one or more of the following: 1.1. Where there is no local utility power supply, or the local utility is unable to supply adequate power. 1.2. Where local enforcing agency determines additional local utility infrastructure design requirements for implementation of Section 4.106.4, may adversely impact the construction cost of the project. 2. Accessory Dwelling Units and Junior Accessory Dwelling Units without additional parking facilities.
4.106.4.1	**EV charging: New 1- & 2-family dwellings/townhouses with attached private garages** • Install a listed raceway to accommodate a dedicated 208/240-volt branch circuit for each dwelling unit. • Raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). • Raceway shall originate at the main service or subpanel and terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. • Raceways are required to be continuous at enclosed, inaccessible, or concealed areas and spaces. • Service panel and/or subpanel shall provide capacity to install a 40-ampere 208/240-volt minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device. **Exception:** A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed in close proximity to the proposed location of an EV charger at the time of original construction in accordance with the *California Electrical Code*.

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EFFECTIVE January 1, 2026

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4.106.4.1.1	**Identification** Service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."
4.106.4.2	**New multifamily dwellings, hotels and motels and new residential parking facilities** • Applies to all new multifamily dwelling units, hotels and motels and new residential parking facilities. • Shall meet the requirements of Section 4.106.4.2.2. • Calculations for spaces shall be rounded up to the nearest whole number. • A parking space served by electric vehicle supply equipment (EVSE) or designed as an EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by a local jurisdiction. See Vehicle Code Section 22511.2 for further details.

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See specific referenced sections for complete details on CALGreen mandatory requirements.

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4.106.4.2.2	**New Multifamily dwellings, hotels and motels** 1. **EV ready parking spaces with receptacles.** a. **Multifamily parking facilities with assigned parking**. Where dwelling units are provided with assigned parking spaces equal to or greater than the number of dwelling units, at least one low power Level 2 EV charging receptacle shall be provided at an assigned parking space for each dwelling unit. 1. Where the total number of dwelling units exceeds the number of assigned parking spaces, all assigned parking spaces shall be provided with one low power Level 2 EV charging receptacle. **Exception**: Areas of parking facilities served by parking lifts, including but not limited to, automated mechan cal-access open parking garages as defined in the California Building Code; or parking facilities otherwise incapable of supporting electric vehicle charging. b. **Multifamily parking facilities with unassigned parking.** Where dwelling units are provided with unassigned parking spaces equal to or greater than the number of dwelling units, at least one low power Level 2 EV charging receptacle shall be provided at an unassigned parking space for each dwelling unit. 1. Where the total number of dwelling units exceeds the number of unassigned parking spaces, all unassigned parking spaces shall be provided with one low power Level 2 EV charging receptacle. **Exception**: Areas of parking facilities served by parking lifts, including but not limited to, automated mechan cal-access open parking garages as defined in the California Building Code; or parking facilities otherwise incapable of supporting electric vehicle charging. c. **Multifamily parking facilities with assigned and unassigned parking**. Where multifamily buildings are provided with both assigned and unassigned parking spaces equal to or greater than the number of dwelling units, at least one low power Level 2 EV charging receptacle shall be provided for each dwelling unit at either the assigned or unassigned parking space, but not both. d. **Receptacle power source.** EV charging receptacles in multifamily parking facilities at assigned parking spaces shall be provided with a dedicated branch circuit connected to the dwelling unit's electrical panel, unless determined as infeasible by the project builder or designer and subject to concurrence of the local enforcing agency. **Exception**: Areas of parking facilities served by parking lifts, including but not limited to, automated mechan cal-access open parking garages as defined in the California Building Code; or parking facilities otherwise incapable of

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EFFECTIVE January 1, 2026

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	supporting electric vehicle charging. e. Receptacle configurations. 208/240V EV charging receptacles shall comply with one of the following configurations: 1. For 20-ampere receptacles, NEMA 6-20R2. 2. For 30-ampere receptacles, NEMA 14-30R3. 3. For 50-ampere receptacles, NEMA 14-50R2. 2. **EV ready parking spaces with EV chargers**. a. **Multifamily parking facilities with unassigned or common use parking**. In addition to the low power Level 2 EV charging receptacle requirements of Section 4.106.4.2.2 (1), twenty-five (25) percent of unassigned or common use parking spaces not already provided with low power Level 2 EV charging receptacles, pursuant to Section 4.106.4.2.2 (1), shall be equipped with Level 2 EV chargers and shall be made available for use by all residents or guests. b. **Ev charger connectors**. EV chargers shall be equipped with J1772 or J3400 connectors. c. An automatic load management system (ALMS) may be used to reduce the maximum required electrical capacity to each space served by the ALMS. The electrical system and any on-site distribution transformers shall have sufficient capacity to deliver at least 3.3 kW simultaneously to each EV charging station (EVCS) served by the ALMS. The branch circuit shall have a minimum capacity of 40 amperes, and installed EV chargers shall have a capacity of not less than 30 amperes.
4.106.4.2.1	**EV charging stations (EVCS)** EVCS required by Section 4.106.4.2.2, Item 2 with EV chargers installed shall comply with Section 4.106.4.2.1.1. **Exception:** EVCS serving public accommodations, public housing motels and hotel shall not be required to comply with this section. See *California Building Code*, Chapter 11B, for applicable requirements.

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4.106.4.2.1.1	**EV charging stations (EVCS) dimensions** EVCS spaces with chargers installed; dimensions and location. Shall be designed to comply with the following: • Minimum length of each EVCS space shall be 18 feet. • Minimum width of each EVCS space shall be 9 feet. • One in every 25 EVCS, but not less than one, shall have an 8-foot minimum aisle. A 5-foot minimum aisle shall be permitted if the minimum width of the EV space is 12 feet. Surface slope for this EV space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083% slope) in any direction. These EVCS shall comply with at least one of the following options: 1. The EVCS space shall be located adjacent to an accessible parking space meeting the requirements of the *California Building Code*, Chapter 11A, to allow use of the EV charger from the accessible parking space. 2. The EVCS space shall be located on an accessible route to the building, as defined in the *California Building Code*, Chapter 2. **Exception:** EVCS designed and constructed in compliance with the *California Building Code*, Chapter 11B, are not required to comply with Section 4.106.4.2.1.1 and Section 4.106.4.2.2, Item 3.
4.106.4.2.1.2	**Accessible electric vehicle charging station spaces** In addition to the requirement in Section 4.106.4.2.2.1.1, all EV chargers, where installed, shall comply with the accessibility provisions for EV chargers in the *California Building Code*, Chapter 11B. EV ready spaces and EVCS in multifamily developments shall comply with *California Building Code*, Chapter 11A, Section 1109A.
4.106.4.2.5	**EV ready space signage** EV ready spaces shall be identified by signage or pavement markings, in compliance with Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement markings) or its successor.

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EFFECTIVE January 1, 2026

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4.106.4.2.6	**Hotels and motels** 1. **EV ready parking spaces with receptacles.** a. **Hotels and motels.** Forty (40) percent of the total number of parking spaces shall be equipped with low power Level 2 EV charging receptacles. **Exception:** Areas of parking facilities served by parking lifts, including but not limited to automated mechanical-access open parking garages as defined in the California Building Code; or parking facilities otherwise incapable of supporting electric vehicle charging. b. **Receptacle configurations.** 208/240V EV charging receptacles shall comply with one of the following configurations: 1. For 20- ampere receptacles, NEMA 6-20R 2. For 30- ampere receptacles, NEMA 14-30R 3. For 50- ampere receptacles, NEMA 14-50R 2. **EV ready parking spaces with EV chargers.** a. **Hotels and motels.** Twenty-five (25) percent of the total number of parking spaces shall be equipped with Level 2 EV chargers. b. **EV charger connectors.** EV chargers shall be equipped with J1772 or J3400 connectors. **Exception:** Areas of parking facilities served by parking lifts, including but not limited to automated mechanical-access open parking garages as defined in the California Building Code; or parking facilities otherwise incapable of supporting electric vehicle charging. c. An automatic load management system (ALMS) may be used to reduce the maximum required electrical capacity to each space served by the ALMS. The electrical system and any on-site distribution transformers shall have sufficient capacity to deliver at least 3.3 kW simultaneously to each EV charging station (EVCS) served by the ALMS. The branch circuit shall have a minimum capacity of 40 amperes and installed EV chargers shall have a capacity of not less than 30 amperes.

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EFFECTIVE January 1, 2026

See specific referenced sections for complete details on CALGreen mandatory requirements.

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4.106.4.3	**EV charging for additions and alterations of parking facilities serving existing multifamily buildings, hotels and motels.** When existing parking facilities are altered or new parking spaces are added to existing parking facilities, and the work requires a building permit, each parking space added or altered shall have access to either a low power Level 2 EV charging receptacle or Level 2 EV charger, unless determined as infeasible by the project builder or designer and subject to concurrence of the local enforcing agency. **Exception:** Where work requiring a permit is being performed for the installation of a 120-volt electrical receptacle(s) for level 1 EV charging.
4.106.4.4	**Bicycle Parking** **4.106.4.4. Bicycle parking.** Comply with sections 4.106.4.4.1 through 4.106.4.4.3. **4.106.4.4.1 Short-term bicycle parking for multifamily buildings, hotels and motels.** Provide on-site bicycle parking at a ratio of one parking space for every 10,000 square feet, but not less than two spaces. Short-term bicycle parking shall be located within 200 feet of building entrances, and readily visible to passers-by. Acceptable parking facilities shall be conveniently accessed from the street and may include, but not be limited to: 1. Permanently anchored bicycle parking devices, racks, or lockers in an unsheltered, open area. 2. Covered or uncovered enclosures with permanently anchored bicycle parking devices or racks. **4.106.4.4.2 Long-term bicycle parking for multifamily buildings.** Provide on-site bicycle parking at a ratio of one parking space for every two dwelling units. Acceptable parking facilities shall be conveniently accessed from the street and may include, but not be limited to: 1. Covered, lockable enclosures with permanently anchored bicycle parking devices or racks. 2. Lockable bicycle storage rooms with permanently anchored bicycle parking devices or racks. 3. Lockable, weatherproof, permanently anchored bicycle lockers. **4.106.4.4.3 Long-term bicycle parking for hotel and motel buildings.** Provide one on-site long-term bicycle parking space for every 25,000 square feet, but not less than two. Acceptable parking facilities shall be conveniently accessed from the street and may include, but not be limited to: 1. Covered, lockable enclosures with permanently anchored bicycle parking devices or racks. 2. Lockable bicycle storage rooms with permanently anchored bicycle parking

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EFFECTIVE January 1, 2026

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	devices or racks. 3. Lockable, weatherproof, permanently anchored bicycle lockers.

DIVISION 4.2 – ENERGY EFFICIENCY

SECTION	REQUIREMENTS
4.201.1 & 5.201.1	**Scope** • Energy efficiency requirements for low-rise residential (single-family) (Section 4.201.1); and high-rise residential (multifamily) and hotels/motels (Section 5.201.1) are now in both residential and nonresidential chapters of CALGreen. • Standards for residential buildings do not require compliance with levels of minimum energy efficiency beyond those required by the 2022 *California Energy Code*.

DIVISION 4.3 – WATER EFFICIENCY AND CONSERVATION

SECTION	REQUIREMENTS
4.303.1	**Water conserving plumbing fixtures and fittings** Plumbing fixtures and fittings shall comply with the following: **4.303.1.1** – Water closets: ≤ 1.28 gal/flush. **4.303.1.2** – Wall mounted urinals: ≤ 0.125 gal/flush; all other urinals ≤ 0.5 gal/flush. **4.303.1.3.1** – Single showerheads: ≤ 1.8 gpm @ 80 psi. **4.303.1.3.2** – Multiple showerheads: combined flow rate of all showerheads controlled by a single valve shall not exceed 1.8 gpm @ 80 psi, or only 1 shower outlet is to be in operation at a time. **4.303.1.4.1** – Residential lavatory faucets: maximum flow rate ≤ 1.2 gpm @ 60 psi; minimum flow rate ≥ 0.8 gpm @ 20 psi. **4.303.1.4.2** – Lavatory faucets in common and public use areas of residential buildings: ≤ 0.5 gpm @ 60 psi. **4.303.1.4.3** – Metering faucets: ≤ 0.2 gallons per cycle. **4.303.1.4.4** – Kitchen faucets: ≤ 1.8 gpm @ 60 psi; temporary increase to 2.2 gpm allowed but shall default to 1.8 gpm. **4.303.1.4.5** – Pre-rinse spray valves: When installed, Commercial Pre-Rinse Spray Valves shall meet the requirements in the *California Plumbing Code, Section 420.3*.

FOR USE IN COUNTY OF ORANGE

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project
County of Orange
Pre-Approved
ADU Program

OWNER NAME:

ADDRESS:

APN:

LEGAL DESCRIPTION:

description
Calgreen
Checklist

date JANUARY 2026

project no.

drawn by DESIGN PATH STUDIO

sheet no. G0.1A

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

2025 CALIFORNIA GREEN BUILDING STANDARDS CODE
RESIDENTIAL MANDATORY MEASURES SHEET 2

2025 CALGREEN RESIDENTIAL MANDATORY MEASURES
EFFECTIVE January 1, 2026

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2025 CALGREEN CODE

4.303.2	**Submeters for multifamily buildings and dwelling units in mixed-use residential/commercial buildings**
	Submeters shall be installed to measure water usage on individual dwelling units in accordance with the *California Plumbing Code*.
4.303.3	**Standards for plumbing fixtures and fittings**
	Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code* and shall meet applicable standards referenced in Table 1701.1 of the *California Plumbing Code*.
4.304.1	**Outdoor potable water use in landscape areas**
	New residential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

DIVISION 4.4 – MATERIAL CONSERVATION & RESOURCE EFFICIENCY	
SECTION	**REQUIREMENTS**
4.406.1	**Rodent proofing**
	Annular spaces around pipes, electric cables, conduits or other openings in sole/bottom plates at exterior walls shall be closed with cement mortar, concrete masonry or a similar method acceptable to the enforcing agency to prevent passage of rodents.

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4.408.1	**Construction waste management**
	• Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste in accordance with either Section 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste management ordinance. Provide documentation to the enforcing agency per Section 4.408.5. **Exceptions:** 1. Excavated soil and land-clearing debris. 2. Alternative waste reduction methods developed by working with local enforcing agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably close to the jobsite. 3. The enforcing agency may make exceptions to the requirements of this section when isolated jobsites are located in areas beyond the haul boundaries of the diversion facility.
4.408.2	**Construction waste management plan**
	Submit a construction waste management plan that meets Items 1 through 5.
4.408.3	**Waste management company**
	Utilize a waste management company, approved by the enforcing agency, which can provide verifiable documentation that diverted construction and demolition waste materials meet the requirements in Section 4.408.1.
4.408.4 & 4.408.4.1	**Waste stream reduction alternative**
	• Low-rise residential projects that generate a total combined weight of construction and demolition waste disposed in landfills, which do not exceed 3.4 pounds per square foot of the building area shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1. • Projects that generate a total combined weight of construction and demolition waste disposed in landfills, which do not exceed 2 pounds per square foot of the building area, shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1.

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2025 CALGREEN CODE

4.410.1	**Operation and maintenance manual**
	At the time of final inspection, a manual, compact disc, web-based reference, or other media acceptable to the enforcing agency which covers 12 specific subject areas shall be placed in the building.
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 is identified for the depositing, storage, and collection of nonhazardous materials for recycling, including (at minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive. **Exception:** Rural jurisdictions that meet and apply for the exemption in *Public Resources Code* Section 42649.82 (a)(2)(A) et seq. are not required to comply with the organic waste portion of this section.

DIVISION 4.5 – ENVIRONMENTAL QUALITY	
SECTION	**REQUIREMENTS**
4.503.1	**Fireplaces – 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 all applicable local ordinances.
4.504.1	**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 intake and distribution component openings shall be covered. Tape, plastic, Sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of water, dust and debris entering the system may be used.

2025 CALGREEN RESIDENTIAL MANDATORY MEASURES
EFFECTIVE January 1, 2026

See specific referenced sections for complete details on CALGreen mandatory requirements.

2025 CALGREEN CODE

4.504.2.1	**Adhesives, sealants and caulks**
	Adhesives, sealants 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 shall also comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products, as specified in Subsection 2. 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 CCR, 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 Air Resources Board 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 & 4.504.2.4	**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 CCR, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District shall additionally comply with the percent VOC by weight of product limits of Regulation 8, Rule 49. • Documentation is required per Section 4.504.2.4.

2025 CALGREEN RESIDENTIAL MANDATORY MEASURES
EFFECTIVE January 1, 2026

See specific referenced sections for complete details on CALGreen mandatory requirements.

2025 CALGREEN CODE

4.504.3	**Carpet systems**
	Carpet installed in the building interior shall meet the testing and product 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 (also known as Specification 01350).
4.504.3.1	**Carpet cushion**
	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 2017 (also known as Specification 01350).
4.504.3.2	**Carpet adhesive**
	Carpet adhesives 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 receiving resilient flooring shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (also known as Specification 01350).

2025 CALGREEN RESIDENTIAL MANDATORY MEASURES
EFFECTIVE January 1, 2026

See specific referenced sections for complete details on CALGreen mandatory requirements.

2025 CALGREEN CODE

4.505.2	**Concrete slab foundations**
	Concrete slab foundations or concrete slab-on-ground floors required to have a vapor retarder by the *California Building Code*, Chapter 19, or the *California Residential Code*, Chapter 5, respectively, 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 following: 1. A 4-inch thick base of ½ inch or larger clean aggregate shall be provided with a vapor retarder in direct contact with concrete and a concrete mix design, which will address bleeding, shrinkage, and curling, shall be used. For additional information, see American Concrete Institute, ACI 302.2R-06. 2. Other equivalent methods approved by the enforcing agency. 3. A slab design specified by a licensed design professional.

2025 CALGREEN RESIDENTIAL MANDATORY MEASURES
EFFECTIVE January 1, 2026

See specific referenced sections for complete details on CALGreen mandatory requirements.

2025 CALGREEN CODE

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% moisture content. Moisture content shall be verified in compliance with the following: 1. Moisture content shall be determined with either a probe-type or a contact-type moisture meter. Equivalent moisture verification methods may be approved by the enforcing agency and shall satisfy requirements in Section 101.8. 2. Moisture readings shall be taken at a point 2 feet to 4 feet from the grade stamped end of each piece to be verified. 3. At least 3 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. Manufacturers' drying recommendations shall be followed for wet-applied insulation products prior to enclosure.
4.506.1	**Bathroom exhaust fans**
	Each bathroom shall be mechanically ventilated and shall comply with the following: 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 humidity control. a. Humidity controls shall be capable of manual or automatic adjustment between a relative humidity range of ≤ 50% to a maximum of 80%. b. A humidity control may be a separate component to the exhaust fan and is not required to be integral or built-in. **Note:** For CALGreen, a bathroom is a room which contains a bathtub, shower, or tub/shower combination. Lighting integral to bathroom exhaust fans shall comply with *California Energy Code*.

2025 CALGREEN RESIDENTIAL MANDATORY MEASURES
EFFECTIVE January 1, 2026

See specific referenced sections for complete details on CALGreen mandatory requirements.

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4.507.2	**Heating and air-conditioning system design**
	Heating and air-conditioning systems shall be sized, designed and equipment selected using the following methods: 1. The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J – 2016 (*Residential Load Calculation*), ASHRAE handbooks or other equivalent design software or methods. 2. Duct systems are sized according to ANSI/ACCA 1 Manual D – 2016 (*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 systems function are acceptable.

CHAPTER 7 – INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS	
SECTION	**REQUIREMENTS**
702.1	**Installer training**
	Heating, ventilation, and air conditioning (HVAC) system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a recognized training or certification program. Examples of acceptable HVAC training and certification programs include, but are not limited to, the following: 1. State certified apprenticeship programs. 2. Public utility training programs. 3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. 4. Programs sponsored by manufacturing organizations. 5. Other programs acceptable to the enforcing agency.

2025 CALGREEN RESIDENTIAL MANDATORY MEASURES
EFFECTIVE January 1, 2026

See specific referenced sections for complete details on CALGreen mandatory requirements.

2025 CALGREEN CODE

702.2	**Special inspection**
	When required by the enforcing agency, special inspectors must be qualified and able to demonstrate competence to the enforcing agency in the discipline in which they are inspecting.
703.1	**Documentation**
	Documentation of compliance shall include, but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the local enforcing agency. Other specific documentation or special inspections necessary to verify compliance are specified in appropriate sections of CALGreen.

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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 ORANGE ONLY. THIS IS A LIMITED SET OF STANDARDIZED ADU PLANS AND SPECIFICATIONS APPROVED BY THE COUNTY OF ORANGE 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.
2. THE RECIPIENT RECOGNIZES AND ACKNOWLEDGES THAT THE USE OF THIS INFORMATION WILL BE AT THEIR SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL EXPOSURE TO DESIGN PATH STUDIO. NO WARRANTIES OF ANY NATURE, WHETHER EXPRESS OR IMPLIED, SHALL ATTACH TO THESE DOCUMENTS AND THE INFORMATION CONTAINED THEREON. ANY USE, REUSE, OR ALTERATION OF THESE DOCUMENTS BY THE RECIPIENT OR BY OTHERS WILL BE AT THE RECIPIENT'S RISK AND FULL LEGAL RESPONSIBILITY. FURTHERMORE, THE RECIPIENT WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, DEFEND, INDEMNIFY AND HOLD DESIGN PATH STUDIO AND ITS ARCHITECTS HARMLESS FROM ANY AND ALL CLAIMS, SUITS, LIABILITY, DEMANDS, JUDGMENTS, OR COSTS ARISING OUT OF OR RESULTING THERE FROM ANY USE OF THESE CONSTRUCTION DOCUMENTS FOR OR ON ACCOUNT OF ANY INJURY, DEATH, DAMAGE OR LOSS TO PERSONS OR PROPERTY, DIRECT OR CONSEQUENTIAL DAMAGES IN ANY AMOUNT. THIS INDEMNITY DOES NOT APPLY TO THE SOLE NEGLIGENCE OR WILLFUL MISCONDUCT OF DESIGN PATH STUDIO OR ITS ARCHITECTS.
3. THE DESIGNS REPRESENTED BY THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION.
4. IF THE RECIPIENT DOES NOT AGREE WITH THE ABOVE CONDITIONS, DO NOT PROCEED WITH CONSTRUCTION OF AN ADU OR OTHER IMPROVEMENT UNDER THESE PLANS AT ALL.

project
County of Orange
Pre-Approved
ADU Program

OWNER NAME:

ADDRESS:

APN:

LEGAL DESCRIPTION:

description
Calgreen
Checklist

date JANUARY 2026

project no.

drawn by DESIGN PATH STUDIO

sheet no. G0.1B

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

ARCHITECTUAL GENERAL NOTES

1. DO NOT SCALE THE DRAWING, USE THE DIMENSIONS ONLY. IF A DISCREPANCY IS FOUND TO EXIST, NOTIFY THE OWNER.
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 OF ORANGE.
4. VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE AND STAKE OUT STRUCTURE FOR OWNER'S APPROVAL PRIOR TO STARTING ANY WORK.
5. ALL WEATHER-EXPOSED SURFACES ARE TO HAVE A WEATHER-RESISTIVE BARRIER TO PROTECT THE INTERIOR WALL COVERING AND THAT EXTERIOR OPENINGS ARE TO BE FLASHED IN SUCH A MANNER AS TO MAKE THEM WEATHERPROOF.
6. SPECIFICATIONS FOR EQUIPMENT SHALL BE KEPT ON SITE TO PROVIDE TO THE COUNTY OF ORANGE BUILDING INSPECTOR
7. AN ENCROACHMENT PERMIT IS REQUIRED FOR ANY CONSTRUCTION, RECONSTRUCTION, OR CLOSURE OR THE ROADWAY, SIDEWALK OR RIGHT OF WAY. APPLICANT SHALL CONTACT ENGINEERING DEPARTMENT TO PROCESS.
8. APPLICANT IS RESPONSIBLE TO PROVIDE SITE PLAN (PLOT PLAN) TO THE CITY FOR REVIEW AND APPROVAL.
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 CITY 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.
12. SOIL REPORT REQUIREMENT: IF A SOILS REPORT IS REQUIRED BY THE LOCAL JURISDICTION, THE GEOTECHNICAL INVESTIGATIONS SHALL BE CONDUCTED IN ACCORDANCE WITH CBC SECTION 1803.2 AND REPORTED IN ACCORDANCE WITH CBC SECTION 1803.6. -THE GEOTECHNICAL ENGINEER OF RECORD SHALL REVIEW THE CITY APPROVED PLANS FOR GENERAL CONFORMANCE WITH THE SOIL REPORT; OTHERWISE, AN ALTERNATE FOUNDATION PLAN DESIGNED BY A CALIFORNIA REGISTERED CIVIL ENGINEER IS REQUIRED

ROOF NOTES

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

ROOF NOTES (CONT'D)

14. FOR PHOTOVOLTAIC ARRAYS OCCUPYING NOT MORE THAN 33 PERCENT OF THE PLAN VIEW TOTAL ROOF AREA, NOT LESS THAN AN 18-INCH (457 MM) CLEAR SETBACK IS REQUIRED ON BOTH SIDES OF A HORIZONTAL RIDGE. FOR PHOTOVOLTAIC ARRAYS OCCUPYING MORE THAN 33 PERCENT OF THE PLAN VIEW TOTAL ROOF AREA, NOT LESS THAN A 36-INCH (914 MM) CLEAR SETBACK IS REQUIRED ON BOTH SIDES OF A HORIZONTAL RIDGE.
15. PER SECTION R806.5/EM3.9.6:
a. IF INSULATION IS AIR PERMEABLE AND IT IS INSTALLED DIRECTLY BELOW THE ROOF SHEATHING WITH RIGID BOARD OR SHEET INSULATION WITH A MINIMUM R-4 VALUE INSTALLED ABOVE THE ROOM SHEATHING. (OR)
b. IF THE INSULATION IS AIR-IMPERMEABLE AND IS IN DIRECT CONTACT WITH THE UNDERSIDE OF THE OF THE ROOF SHEATHING. (OR)
c. IF TWO LAYERS OF INSULATION ARE INSTALLED BELOW THE ROOF SHEATHING:
AN AIR-IMPERMEABLE LAYER IN DIRECT CONTACT WITH THE UNDERSIDE OF THE ROOF SHEATHING AND AN ADDITIONAL LAYER OF AIR PERMEABLE INSULATION IS TO BE INSTALLED DIRECTLY UNDER THE AIR-IMPERMEABLE INSULATION.

FLOOR PLAN NOTES

1. ALL DIMENSIONS TO FACE OF STUD, U.N.O.
2. ALL DOORS SHOULD BE 3 1/2" FROM NEAREST INTERSECTING WALL AT HINGED SIDE, U.N.O.
3. WRITTEN DIMENSIONS TO PREVAIL OVER SCALING OF DRAWINGS. CONTRACTOR TO VERIFY ALL DIM. PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY OWNER OF ANY DISCREPANCIES.
4. REFER TO FRAMING PLANS AND SECTIONS FOR CLARIFICATION AND DIM. NOT SHOWN .
5. ALL ROOF DRAIN PIPES TO BE MIN. 2" STORM DRAINAGE SYSTEM UNLESS LOCAL CODE REQUIRES LARGER DRAIN SIZES.
ROOF GUTTERS:
STYLE A . INSTALLED AND DESIGNED IN ACCORDANCE WITH SMACNA MANUAL, PLATE #1,#2 & #3,GUTTER. PAGE 6 - 11, WIDTH AS REQUIRED TO HANDLE THE AMOUNT OF ROOF WATER FOR MAXIMUM STORMS, SMACNA CHART #2, PAGE #2.
GUTTER: SIZE; PAGES 1,2, 3, 4, 5 &6, CHARTS#1,#2,#3,#4,#5#6 & #7
STYLE; PLATE #2, STYLE A, PAGE 9
EXPANSION;PLATE #6, PAGE 16 &17
HANGING; PLATE #19, FIG. C, PAGE 43.
DOWN SPOUTS:
PLAIN RECTANGULAR.AS REQUIRED BY SMACNA MANUAL CHART #3, PAGE #3. SEE ARCHITECT FOR LOCATIONS OF DOWN SPOUTS. ALL DOWN SPOUTS ARE TO BE DESIGNED TO HANDLE THE AMOUNT OF ROOF WATER FOR MAXIMUM STORMS, SMACNA CHART #2, PAGE #2. DOWN SPOUTS ARE TO DEPOSIT DIRECTLY OVER A NDS 6 INCH SQUARE, MODEL 641 OR APPROVED EQUAL.(SEE SECTION 02710 MORE INFORMATION)
6. 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
7. DIFFUSERS AND GRILLS TO MATCH COLOR OF SURFACE AT WHICH THEY ARE MOUNTED, U.O.N.
8. 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.
9. PLUMBING, ELECTRICAL, AND SPRINKLER EQUIPMENT, IF REQUIRED TO BE PAINTED TO MATCH COLOR OF ADJACENT SURFACE.
10. 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.
11. 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
13. 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 R304.3.1, CBC 2304.10.5.1)
14. 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)
15. NOT USED
16. 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.
17. SITE SHALL BE PLANNED AND DEVELOPED TO KEEP SURFACE WATER AWAY FROM BUILDINGS. PLANS SHALL BE PROVIDED AND APPROVED BY THE CITY ENGINEER THAT SHOW SITE GRADING AND PROVIDE FOR STORM WATER RETENTION AND DRAINAGE DURING CONSTRUCTION. BMP'S THAT ARE CURRENTLY ENFORCED BY THE CITY ENGINEER MUST BE IMPLEMENTED PRIOR TO INITIAL INSPECTION BY THE BUILDING DEPT.
18. 65 % OF CONSTRUCTION WASTE IS TO BE RECYCLED AND 100% OF INERT MATERIALS ARE RECYCLED SALVAGED,COMPOSTED .

FLOOR PLAN NOTES (CONT'D)

19. 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.
20. 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.
21. MOISTURE CONTENT OF WOOD SHALL NOT EXCEED 19% BEFORE IT IS ENCLOSED IN CONSTRUCTION. THE MOISTURE CONTENT NEEDS TO BE CERTIFIED BY ONE OF 3 METHODS SPECIFIED. BUILDING MATERIAL WITH VISIBLE SIGNS OF WATER DAMAGE SHOULD NOT BE USED IN CONSTRUCTION. THE MOISTURE CONTENT MUST BE DETERMINED BY THE CONTRACTOR BY ONE OF THE LISTED METHODS LISTED IN CGC SECTION 4.503.3
22. PRIOR TO FINAL APPROVAL OF THE BUILDING THE LICENSED CONTRACTOR, ARCHITECT OR ENGINEER IN RESPONSIBLE CHARGE OF THE OVERALL CONSTRUCTION MUST COMPLETE AND SIGN THE GREEN BUILDING STANDARDS CERTIFICATION FORM AND GIVEN TO THE BUILDING DEPT OFFICIAL TO BE FILED WITH THE APPROVED PLANS
23. LANDSCAPE IRRIGATION WATER USE SHALL HAVE WEATHER BASED CONTROLLERS.
24. 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.
25. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN TO THE JURISDICTION AGENCY THAT REGULATES WASTE MANAGEMENT, PER CGC 4.408.2.
26. 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
27. DURING CONSTRUCTION, ENDS OF DUCT OPENINGS ARE TO BE SEALED, AND MECHANICAL EQUIPMENT IS TO BE COVERED. CGC 4.504.1
28. BATHROOM FANS SHALL BE ENERGY STAR RATED, VENTED DIRECTLY TO THE OUTSIDE AND CONTROLLED BY A HUMIDISTAT.
29. SPECIAL INSPECTORS EMPLOYED BY THE ENFORCING AGENCY MUST BE QUALIFIED AND ABEL TO DEMONSTRATE COMPETENCE IN THE DISCIPLINE THEY ARE INSPECTING.
30. 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.
31. NEW SINGLE FAMILY RESIDENTIAL CONSTRUCTION SHALL BE DESIGNED FOR AGING-IN-PLACE DESIGN AND FALL PREVENTION PER R327
A) AT LEAST ONE BATHROOM ON THE ENTRY LEVEL SHALL BE PROVIDED WITH REINFORCEMENT INSTALLED. WHERE THERE IS NO BATHROOM ON THE ENTRY LEVEL, AT LEAST ONE BATHROOM ON THE SECOND OR THIRD FLOOR OF THE DWELLING SHALL COMPLY WITH THIS SECTION.
B) REINFORCEMENT SHALL BE SOLID LUMBER OR OTHER CONSTRUCTION MATERIALS APPROVED BY THE ENFORCING AGENCY.
C) REINFORCEMENT SHALL NOT BE LESS THAN 2 BY 8 INCH NOMINAL LUMBER. REINFORCEMENT SHALL BE LOCATED BETWEEN 32 INCHES AND 39-1/4 INCHES ABOVE THE FINISHED FLOOR FLUSH WITH THE WALL FRAMING.
D) WATER CLOSET REINFORCEMENT SHALL BE INSTALLED ON BOTH SIDE WALLS OF THE FIXTURE, OR ONE SIDE WALL AND THE BACK WALL.
E) SHOWER REINFORCEMENT SHALL BE CONTINUOUS WHERE WALL FRAMING IS PROVIDED.
F) BATHTUB AND COMBINATION BATHTUB/SHOWER REINFORCEMENT SHALL BE CONTINUOUS ON EACH END OF THE BATHTUB AND THE BACK WALL. ADDITIONALLY, BACK WALL REINFORCEMENT FOR A LOWER GRAB BAR SHALL BE PROVIDED WITH THE BOTTOM EDGE LOCATED NO MORE THAN 6 INCHES ABOVE THE BATHTUB RIM.

MECHANICAL NOTES

1. SMOKE DETECTORS MUST BE PERMANENTLY WIRED. IN NEW CONSTRUCTION, REQUIRED SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHERE SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND SHALL BE EQUIPPED WITH A BATTERY BACK-UP. SMOKE ALARMS SHALL EMIT A SIGNAL WHEN THE BATTERIES ARE LOW. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN AS REQUIRED FOR OVER CURRENT PROTECTION.
2. 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 R325.2.1.)
3. ROOMS CONTAINING BATHTUBS, SHOWERS, SPAS AND SIMILAR FIXTURES SHALL BE PROVIDED WITH AN EXHAUST FAN WITH HUMIDITY CONTROL SENSOR HAVING A MIN. CAPACITY OF 50 CFM DUCTED TO TERMINATE OUTSIDE THE BLDG. CRC R325.2, CAL GREEN 4.505.1
4. SUPPLY AND RETURN AIR DUCTS TO BE INSULATED AT A MIN. OF R-6. (CAL ENERGY CODE TABLE 150.1-A)

MECHANICAL NOTES (CONT'D)

5. 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)
6. 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)
7. 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 3 (CPC TABLE 703.2)
9. THE MAX. AMOUNT OF WATER CLOSETS ON A 3" VERTICAL DRAINAGE LINE IS 4. (CPC TABLE 703.2)
10. PROVIDE GAS LINES WITH A MN. CAPACITY OF 200,000BTU FOR WATER HEATER. (CAL ENERGY CODE 150.0(N)).
11. PROVIDE A CONDENSATE DRAIN NO MORE THAN 2" ABOVE THE BASE OF THE WATER HEATER SPACE. (CAL ENERGY CODE 150.0 (N).
12. INSULATE ALL HOT WATER PIPES. CAL ENERGY CODE 150.0(j) (2), and CPC 609.11)
13. 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).
14. EXHAUST DUCTS AND DRYER VENTS SHALL BE EQUIPPED WITH BACK DRAFT DAMPERS
15. ALL EXHAUST FANS SHALL BE SWITCHED SEPARATELY FROM LIGHTING SYSTEMS. (CENC 150(K) 2G)
16. 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.

ELECTRICAL NOTES

1. 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).
2. 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
3. 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.
4. ALL 125-VOLT, SINGLE-PHASE, 15- AND 20- AMPERE RECEPTACLES INSTALLED IN BATHROOMS, GARAGES, BASEMENTS, OUTDOORS, LAUNDRY AREA, KITCHEN DISHWASHERS, KITCHEN COUNTERS AND AT WET BAR SINKS, WITHIN 6' OF A SINK, SHALL BE GFCI PROTECTED PER NEC ART. 210-8(A).
5. WEATHER RESISTANT TYPE FOR RECEPTACLES INSTALLED IN DAMP OR WET LOCATIONS (OUTSIDE) NEC 406.4(D)(6)
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.
7. OUTDOOR LIGHTING FIXTURES ARE REQUIRED TO BE HIGH EFFICACY OR CONTROLLED BY A COMBINATION PHOTOCONTROL / MOTION SENSOR.
8. 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)
9. 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.
10. 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.
11. ALL EXHAUST FANS SHALL BE SWITCHED SEPARATELY FROM LIGHTING SYSTEMS. (CENC 150(K) 2G)
12. A MINIMUM OF ONE LUMINAIRE SHALL BE INSTALLED IN BATHROOM CONTROLLED BY AN OCCUPANT OR VACANCY SENSOR PROVIDING AUTOMATIC -OFF FUNCTIONALLY (CENC 150 (K) 2E)
13. LAUNDRY AREA SHALL AT LEAST 1-20 AMP DEDICATED BRANCH CIRCUIT (CEC 210 .11 (C)(2)
14. PROVIDE A DEDICATED CIRCUIT FOR THE A.C./FAU (CEC 422.12)
15. A DEDICATED 125V, 20AMP ELECTRICAL RECEPTACLE THAT IS CONNECTED TO THE ELECTRICAL PANEL WITH A $\frac{120}{240}$ -VOLT 3 CONDUCTOR, 10 AWG COPPER BRANCH CIRCUIT, WITHIN 3 FEET FROM THE WATER HEATER AND ACCESSIBLE TO THE WATER HEATER WITH NO OBSTRUCTIONS (CENC 150.0(N)1A)

ELECTRICAL NOTES (CONT'D)

16. PER CEC 2025 150.0(N).1.A.:
IF THE DESIGNATED SPACE IS WITHIN 3 FEET FROM THE WATER HEATER, THEN THIS SPACE SHALL INCLUDE THE FOLLOWING:A DEDICATED 125 VOLT, 20 AMP ELECTRICAL RECEPTACLE THAT IS CONNECTED TO THE ELECTRIC PANEL WITH A 120/240 VOLT 3 CONDUCTOR, 10 AWG COPPER BRANCH CIRCUIT, WITHIN 3 FEET FROM THE WATER HEATER AND ACCESSIBLE TO THE WATER HEATER WITH NO OBSTRUCTIONS; AND
    - BOTH ENDS OF THE UNUSED CONDUCTOR SHALL BE LABELED WITH THE WORD "SPARE" AND BE ELECTRICALLY ISOLATED; AND
    - A RESERVED SINGLE POLE CIRCUIT BREAKER SPACE IN THE ELECTRICAL PANEL ADJACENT TO THE CIRCUIT BREAKER FOR THE BRANCH CIRCUIT IN A ABOVE AND LABELED WITH THE WORDS "FUTURE 240V USE"; AND
    - A CONDENSATE DRAIN THAT IS NO MORE THAN 2 INCHES HIGHER THAN THE BASE OF THE INSTALLED WATER HEATER, AND ALLOWS NATURAL DRAINING WITHOUT PUMP ASSISTANCE.
17. ELECTRICAL RECEPTACLE OUTLETS IN BATHROOM MUST BE NO MORE THAN 48 INCHES OR LESS THAN 15-INCHES MEASURE FROM THE FINISHED FLOOR.
18. DOORBELL BUTTON MUST BE INSTALLED NO MORE THAN 48 INCHES FROM EXTERIOR FLOOR.
19. LUMINAIRE EFFICACY - ALL INSTALLED LUMINAIRES SHALL MEET 2025 BUILDING ENERGY EFFICIENCY STANDARDS APPENDIX JA8 AND SHALL BE CERTIFIED AND MARKED AS REQUIRED BY JA8 PER SECTION 250.0(K)

ELECTRIC READY NOTES: 2025 ENERGY EFFICIENCY STANDARDS 150.0

(S) BATTERY ENERGY STORAGE SYSTEMS (BESS) READY. ALL SINGLE-FAMILY RESIDENCES THAT INCLUDE ONE OR TWO DWELLING UNITS WHICH A LOAD SERVING ENTITY PROVIDES WITH ELECTRICAL SERVICE FOR THE DWELLING UNIT THAT IS GREATER THAN 125 AMPS 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. BESS READY INTERCONNECTION EQUIPMENT WITH A MINIMUM BACKED-UP CAPACITY OF 60 AMPS AND A MINIMUM OF FOUR BESS-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 BESS. 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 BESS. 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 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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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 ORANGE ONLY. THIS IS A LIMITED SET OF STANDARDIZED ADU PLANS AND SPECIFICATIONS APPROVED BY THE COUNTY OF ORANGE 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.
2. THE RECIPIENT RECOGNIZES AND ACKNOWLEDGES THAT THE USE OF THIS INFORMATION WILL BE AT THEIR SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL EXPOSURE TO DESIGN PATH STUDIO. NO WARRANTIES OF ANY NATURE, WHETHER EXPRESS OR IMPLIED, SHALL ATTACH TO THESE DOCUMENTS AND THE INFORMATION CONTAINED THEREON. ANY USE, REUSE, OR ALTERATION OF THESE DOCUMENTS BY THE RECIPIENT OR BY OTHERS WILL BE AT THE RECIPIENT'S RISK AND FULL LEGAL RESPONSIBILITY. FURTHERMORE, THE RECIPIENT WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, DEFEND, INDEMNIFY AND HOLD DESIGN PATH STUDIO AND ITS ARCHITECTS HARMLESS FROM ANY AND ALL CLAIMS, SUITS, LIABILITY, DEMANDS, JUDGMENTS, OR COSTS ARISING OUT OF OR RESULTING THERE FROM ANY USE OF THESE CONSTRUCTION DOCUMENTS FOR OR ON ACCOUNT OF ANY INJURY, DEATH, DAMAGE OR LOSS TO PERSONS OR PROPERTY, DIRECT OR CONSEQUENTIAL DAMAGES IN ANY AMOUNT. THIS INDEMNITY DOES NOT APPLY TO THE SOLE NEGLIGENCE OR WILLFUL MISCONDUCT OF DESIGN PATH STUDIO OR ITS ARCHITECTS.
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project
County of Orange
Pre-Approved
ADU Program

OWNER NAME:
ADDRESS:
APN:
LEGAL DESCRIPTION:

description
General Notes

date JANUARY 2026
project no.
drawn by DESIGN PATH STUDIO
sheet no. G0.2

FOR USE IN COUNTY OF ORANGE

CA WILDLAND URBAN INTERFACE CODE (CWUI) NOTES

GENERAL NOTE:
THE ADU SHALL COMPLY WITH CALIFORNIA WILDLAND-URBAN INTERFACE OF THE CURRENT CALIFORNIA BUILDING CODE IF IT IS LOCATED IN THE FOLLOWING AREAS:
ALL UNINCORPORATED LANDS DESIGNATED BY THE STATE BOARD OF FORESTRY AND FIRE PROTECTION AS STATE RESPONSIBILITY AREA (SRA) INCLUDING:

MODERATE FIRE HAZARD SEVERITY ZONES.
HIGH FIRE HAZARD SEVERITY ZONES.

VERY-HIGH FIRE HAZARD SEVERITY ZONES.

LAND DESIGNATED AS VERY-HIGH FIRE HAZARD SEVERITY ZONE BY CITIES AND OTHER LOCAL AGENCIES.

LAND DESIGNATED AS WILDLAND INTERFACE FIRE AREA BY CITIES AND OTHER LOCAL AGENCIES.

STRUCTURES SHALL PROVIDE & MAINTAIN A FUEL MODIFICATION ZONE. THE APPLICANT SHALL PROVIDE AND MAINTAIN FIRE/FUEL BREAKS TO THE SATISFACTION OF THE FIRE DEPARTMENT. FIRE/FUEL BREAK SIZE & COMPOSITION SHALL BE DETERMINED BY THE FIRE DEPARTMENT & SHOWN ON THE IMPROVEMENT/GRADING PLANS, FINAL MAP, & BUILDING PLANS

CALIFORNIA WILDLAND-URBAN INTERFACE - MATERIALS & CONSTRUCTION
IF THE PROPERTY THAT WILL CONTAIN THE ADU IS IN AN AREA THE JURISDICTION HAS DETERMINED IS IN A WILDLAND -URBAN INTERFACE AREA. PLEASE SHOW COMPLIANCE WITH THE FOLLOWING FOR NEW BUILDINGS:

1. 504.2 ROOF ASSEMBLIES. 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.
2. 504.2.2 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.
3. 504.4 GUTTERS AND DOWNSPOUTS. ROOF GUTTERS SHALL BE PROVIDED WITH THE MEANS TO PREVENT THE ACCUMULATION OF LEAVES AND DEBRIS IN THE GUTTER AND CONSTRUCTED OF NONCOMBUSTIBLE MATERIAL.
4. OMITTED
5. OMITTED
6. 504.5.2 EXTERIOR WALLS COVERINGS. THE EXTERIOR WALL COVERING SHALL COMPLY WITH ONE OR MORE OF THE FOLLOWING REQUIREMENTS:
   1. NONCOMBUSTIBLE MATERIAL
   2. IGNITION- RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE
   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. FIRE-RETARDANT-TREATED WOOD SHINGLES AND SHAKES WHICH HAVE BEEN QUALIFIED IN ACCORDANCE WITH SECTION 1505.6 FOR USE AS "CLASS B" ROOF COVERING SHALL BE AN ACCEPTABLE ALTERNATIVE WALL COVERING MATERIAL WHERE INSTALLED OVER SOLID SHEATHING.
7. 504.5.2 EXTENT OF EXTERIOR WALL COVERINGS. WHERE PROVIDED, EXTERIOR WALL COVERINGS SHALL EXTEND FROM THE TOP OF THE FOUNDATION TO THE ROOF, AND TERMINATE AT 2 INCH NOMINAL SOLID WOOD BLOCKING BETWEEN RAFTERAS AT ALL ROOF OVERHANGS, OR IN THE CASE OF ENCLOSED EAVES, TERMINATE AT THE ENCLOSURE
8. 504.5 EXTERIOR WALLS. EXTERIOR WALL 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 504.5.2 AND 504.5.2.1:
   1. 1-HOUR FIRE-RESISTANCE-RATED CONSTRUCTION ON THE EXTERIOR SIDE.
   2. NONCOMBUSTIBLE MATERIALS.
   3. 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.
   4. LOG WALL CONSTRUCTION ASSEMBLY
   5. ASSEMBLY THAT HAS BEEN TESTED IN ACCORDANCE WITH THE TEST PROCEDURES FOR A 10 MINUTE DIRECT FLAME CONTACT EXPOSURE SET FORTH IN ASTM E2707 WITH THE CONDITIONS OF ACCEPTANCE SHOWN IN SECTION 707A.4.1.
   6. 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
   7. 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
   8. ASSEMBLY SUITABLE FOR EXTERIOR FIRE EXPOSURE CONTAINING ONE LAYER OF $\frac{5}{8}$-INCH TYPE X GYPSUM SHEATHING APPLIED BEHIND THE EXTERIOR WALL COVERING OR CLADDING ON THE EXTERIOR SIDE OF THE FRAMING.
9. 504.3.1 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.
   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. 2-INCH NOMINAL DIMENSION LUMBER
   6. ONE LAYER OF $\frac{5}{8}$" TYPE X GYPSUM SHEATHING APPLIES BEHIND AN EXTERIOR COVERING ON THE UNDERSIDE EXTERIOR OF THE ROOF DECK.
   7. 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 DESIGN MANUAL.
   FASCIAS, IF PROVIDED, SHALL BE OF FIRE-RETARDANT-TREATED WOOD LABELED FOR EXTERIOR USE AND COMPLYING WITH SECTION 2303.2, IGNITION-RESISTANT BUILDING MATERIALS, MATERIALS APPROVED FOR NOT LESS THAN 1-HR FIRE-RESISTANCE-RATED CONSTRUCTION OR 2 INCH NOMINAL DIMENSION LUMBER
10. 504.3 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.
   3. 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
   4. 2-INCH NOMINAL DIMENSION LUMBER
   5. ONE LAYER OF $\frac{5}{8}$" TYPE X GYPSUM SHEATHING APPLIED BEHIND AN EXTERIOR COVERING ON THE UNDERSIDE OF FLOOR PROJECTION.
   6. BOXED-IN ROOF EAVE SOFFIT ASSEMBLIES WITH A HORIZONTAL UNDERSIDE THAT MEET THE PERFORMANCE CRITERIA IN SECTION 504.7.2 WHEN TESTED IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN ASTM E2957
   7. BOXED-IN ROOF EAVE SOFFIT ASSEMBLIES WITH A HORIZONTAL UNDERSIDE THAT MEET THE PERFORMANCE CRITERIA IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN SFM STANDARD 12-7A-3
   FASCIAS ARE REQUIRED AND SHALL BE IGNITION-RESISTANT BUILDING MATERIALS FIRE-RETARDANT TREATED WOOD LABELED FOR EXTERIOR USE AND COMPLYING WITH SECTION 2303.2, MATERIALS APPROVED FOR NOT LESS THAN 1-HR FIRE-RESISTANCE-RATED CONSTRUCTION OR 2 INCH NOMINAL DIMENSION LUMBER
11. 504.7 PROJECTIONS
    UNENCLOSED ACCESSORY STRUCTURES ATTACHED TO BUILDINGS WITH HABITABLE SPACES AND PROJECTIONS, OTHER THAN DECKS, SHALL BE HEAVY TIMBER CONSTRUCTION OR CONSTRUCTED OF ONE OF THE FOLLOWING:

    1. NONCOMBUSTIBLE MATERIALS.
    2. FIRE-RETARDANT-TREATED WOOD IDENTIFIED FOR EXTERIOR USE AND MEETING THE REQUIREMENTS OF SECTION 2303.2 OF THE CALIFORNIA BUILDING CODE.
    3. IGNITION-RESISTANT BUILDING MATERIALS IN ACCORDANCE WITH SECTION 503.2.
    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-INCH (15.9 MM) TYPE X GYPSUM SHEATHING APPLIED BEHIND THE EXTERIOR COVERING ON THE UNDERSIDE OF THE CEILING.
    6. THE EXTERIOR PORTION OF A 1-HOUR FIRE-RESISTANCE-RATED EXTERIOR ASSEMBLY, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263, APPLIED TO THE UNDERSIDE OF THE CEILING ASSEMBLY, INCLUDING ASSEMBLIES USING THE GYPSUM PANEL AND SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL.
    7. THE UNDERSIDE OF A FLOOR PROJECTION ASSEMBLY THAT MEETS THE PERFORMANCE CRITERIA IN SECTION 504.7.2 WHEN TESTED IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN ASTM E2957.
    8. THE UNDERSIDE OF A FLOOR PROJECTION ASSEMBLY THAT MEETS THE PERFORMANCE CRITERIA IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN SFM STANDARD 12-7A-3.
12. 504.7.1 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 503.2
    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 CEILING
    6. THE EXTERIOR PORTION A 1- HOUR FIRE RESISTIVE EXTERIOR ASSEMBLY, AS TESTED IN ACCORDANCE WITH ASTM E119, APPLIED TO THE UNDERSIDE OF THE CEILING ASSEMBLY, INCLUDING ASSEMBLES USING THE GYPSUM PANEL AND SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL.
    7. THE UNDERSIDE OF A FLOOR PROJECTIONS ASSEMBLY THAT MEETS THE PERFORMANCE CRITERIA IN SECTION 707A.10 WHEN TESTED IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN ASTM E2957.
    8. THE UNDERSIDE OF A FLOOR PROJECTIONS ASSEMBLY THAT MEETS THE PERFORMANCE CRITERIA IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN THE SFM STD 12-7A-3.
    EXCEPTION: STRUCTURAL COLUMNS AND BEAMS ARE NOT REQUIRED TO BE PROTECTED IN ACCORDANCE WITH SECTION 504.7.1 WHEN CONSTRUCTED WITH SAWN LUMBER OR GLUE-LAMINATED WOOD WITH THE SMALLEST MINIMUM NOMINAL DIMENSION OF 4 INCHES (102 MM). SAWN OR GLUELAMINATED PLANKS SHALL BE SPLINED, TONGUE-AND-GROOVE, OR SET CLOSE TOGETHER AND WELL SPIKED.
13. 504.6 UNDERFLOOR ENCLOSURE
    BUILDINGS OR STRUCTURES SHALL HAVE UNDERFLOOR AREAS ENCLOSED TO THE GROUND WITH EXTERIOR WALLS IN ACCORDANCE WITH SECTION 504.5.
    EXCEPTION: COMPLETE ENCLOSURE SHALL NOT BE REQUIRED WHERE THE UNDERSIDE OF EXPOSED FLOORS AND EXPOSED STRUCTURAL COLUMNS, BEAMS AND SUPPORTING WALLS ARE PROTECTED AS REQUIRED FOR EXTERIOR 1-HOUR FIRE-RESISTANCE-RATED CONSTRUCTION OR HEAVY TIMBER CONSTRUCTION OR FIRE-RETARDANT-TREATED WOOD. THE FIRE-RETARDANT-TREATED WOOD SHALL BE LABELED FOR EXTERIOR USE AND MEET THE REQUIREMENTS OF SECTION 2303.2 OF THE CALIFORNIA BUILDING CODE.
14. 504.7.3 DECKS
    THE WALKING SURFACE MATERIAL OF DECKS, PORCHES, BALCONIES AND STAIRS SHALL COMPLY WITH THE REQUIREMENTS OF SECTIONS 504.7.3.1 THROUGH 504.7.3.4.

    504.7.3.1 FLASHING
    A MINIMUM OF A 6-INCH (150 MM) METAL FLASHING, APPLIED VERTICALLY ON THE EXTERIOR OF THE WALL, SHALL BE INSTALLED AT ALL DECK-TO-WALL INTERSECTIONS.

    504.7.3.2 DECKING SURFACES
    THE WALKING SURFACE MATERIAL OF DECKS, PORCHES, BALCONIES AND STAIRS SHALL BE CONSTRUCTED WITH ANY OF THE FOLLOWING MATERIALS:
    1. MATERIAL THAT COMPLIES WITH THE PERFORMANCE REQUIREMENTS OF SECTION 504.7.3.3 WHEN TESTED IN ACCORDANCE WITH ASTM E2632 AND ASTM E2726.
    2. IGNITION-RESISTANT BUILDING MATERIAL THAT COMPLIES WITH THE PERFORMANCE REQUIREMENTS OF SECTION 503.2.4.
    3. MATERIAL THAT COMPLIES WITH THE PERFORMANCE REQUIREMENTS OF BOTH SFM STANDARD 12-7A-4 AND SECTION 503.2.4.
    4. FIRE-RETARDANT-TREATED WOOD LABELED FOR EXTERIOR USE AND COMPLYING WITH SECTION 2303.2 OF THE CALIFORNIA BUILDING CODE.
    5. NONCOMBUSTIBLE MATERIAL.
    6. ANY MATERIAL THAT COMPLIES WITH THE PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-4A AND ANY ATTACHED EXTERIOR WALL COVERING THAT IS NONCOMBUSTIBLE OR IGNITION-RESISTANT BUILDING MATERIALS.
    EXCEPTION: WALL MATERIAL SHALL BE PERMITTED TO BE OF ANY MATERIAL THAT OTHERWISE COMPLIES WITH THIS CHAPTER WHEN THE DECKING SURFACE MATERIAL COMPLIES WITH THE PERFORMANCE REQUIREMENTS OF ASTM E84 OR UL 723 WITH A CLASS B FLAME SPREAD INDEX.
    ANY MATERIAL THAT COMPLIES WITH THE PERFORMANCE REQUIREMENTS OF SECTION 504.7.3.4 WHEN TESTED IN ACCORDANCE WITH ASTM E2632 AND ANY ATTACHED EXTERIOR WALL COVERING THAT IS NONCOMBUSTIBLE OR IGNITION-RESISTANT BUILDING MATERIALS.
    EXCEPTION: WALL MATERIAL SHALL BE PERMITTED TO BE OF ANY MATERIAL THAT OTHERWISE COMPLIES WITH THIS CHAPTER WHEN THE DECKING SURFACE MATERIAL COMPLIES WITH THE PERFORMANCE REQUIREMENTS OF ASTM E84 OR UL 723 WITH A CLASS B FLAME SPREAD INDEX.
15. 504.8 EXTERIOR GLAZING
    EXTERIOR WINDOWS, WINDOW WALLS AND GLAZED DOORS, WINDOWS WITHIN EXTERIOR DOORS, AND SKYLIGHTS SHALL BE CONSTRUCTED OF ANY OF THE FOLLOWING:
    1. MULTILAYERED GLAZED PANELS WITH AT LEAST ONE PANE OF TEMPERED GLASS COMPLYING WITH SECTION 2406 OF THE CALIFORNIA BUILDING CODE.
    2. GLASS BLOCK.
    3. GLAZING WITH A FIRE-PROTECTION RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED ACCORDING TO NFPA 257 OR UL 9, AND SHALL BE EXEMPT FROM THE HOSE STREAM TEST.
    4. GLAZING MEETING THE PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-2.
16. 504.8.1 STRUCTURAL GLASS VENEER
    THE WALL ASSEMBLY BEHIND STRUCTURAL GLASS VENEER SHALL COMPLY WITH SECTION 504.5..
17. 504.9 EXTERIOR DOORS
    EXTERIOR DOORS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ANY OF THE FOLLOWING:
    1. NONCOMBUSTIBLE CONSTRUCTION.
    2. SOLID-CORE WOOD NOT LESS THAN 13/4 INCHES THICK (44 MM).
    THE EXTERIOR DOOR SHALL BE CONSTRUCTED OF SOLID CORE WOOD THAT COMPLIES WITH THE FOLLOWING REQUIREMENTS:
    1. STILES AND RAILS SHALL NOT BE LESS THAN 1 3/8 INCHES (35MM) THICK.
    2. RAISED PANELS SHALL NOT BE LESS THAN 11/4 INCHES (32 MM) THICK, EXCEPT FOR THE EXTERIOR PERIMETER OF THE RAISED PANEL THAT SHALL BE PERMITTED TO TAPER TO A TONGUE NOT LESS THAN 3/8 INCH (10 MM) THICK.
    3. HAVE A FIRE PROTECTION RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED ACCORDING TO NFPA 252, UL10B OR UL10C.
    4. THE EXTERIOR SURFACE OR CLADDING MEETING THE PERFORMANCE REQUIREMENTS OF SECTION 504.9.3 WHEN TESTED IN ACCORDANCE WITH ASTM E2707.
    5. THE EXTERIOR SURFACE OR CLADDING SHALL BE TESTED TO MEET THE PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-1.
18. WINDOWS WITHIN DOORS AND GLAZED DOORS SHALL BE IN ACCORDANCE WITH SECTION 504.8

FIRE SPRINKLER NOTES

1. IF FIRE SPRINKLERS ARE REQUIRED AT PROPOSED ADU THEN THE FOLLOWING NOTES APPLY.
2. AUTOMATIC FIRE SPRINKLER SYSTEM - AN AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE INSTALLED AS PER NFPA 13D THE MOST CURRENT EDITION. DETAILED SPRINKLER PLANS SHALL BE SUBMITTED TO THE FIRE PREVENTION BUREAU AND APPROVED PRIOR TO INSTALLATION. PLANS AND INSTALLATION MUST BE BY A C16 LICENSED SPRINKLER CONTRACTOR.
3. SECTION 903.2.8 GROUP R AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.3 SHALL BE PROVIDED THROUGHOUT ALL BUILDINGS WITH A GROUP R FIRE AREA. THIS INCLUDES SINGLE FAMILY DWELLINGS, MULTI-FAMILY DWELLINGS AND ALL RESIDENTIAL CARE FACILITIES REGARDLESS OF OCCUPANT LOAD.
4. SECTION 903.3.2 WHERE AUTOMATIC SPRINKLER SYSTEMS ARE REQUIRED, QUICK-RESPONSE OR RESIDENTIAL AUTOMATIC SPRINKLERS SHALL BE INSTALLED IN ALL OF THE FOLLOWING AREAS IN ACCORDANCE WITH SECTION 903.3.1 AND THEIR LISTINGS:
   1. THROUGHOUT ALL SPACES WITHIN A SMOKE COMPARTMENT CONTAINING CARE RECIPIENT SLEEPING UNITS IN GROUP I-2 IN ACCORDANCE WITH THIS CODE.
   2. THROUGHOUT ALL SPACES WITHIN A SMOKE COMPARTMENT CONTAINING TREATMENT ROOMS IN AMBULATORY CARE FACILITIES.
   3. DWELLING UNITS AND SLEEPING UNITS IN GROUP I-1 AND R OCCUPANCIES.
   4. LIGHT-HAZARD OCCUPANCIES AS DEFINED IN NFPA 13.
5. A FIRE UNDERGROUND FLUSH CERTIFICATION SHALL BE REQUIRED AT FINAL INSPECTION.
6. SECTION 903.5 SPRINKLER SYSTEMS SHALL BE TESTED AND MAINTAINED IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE.

ABBREVIATIONS

ADU	ACCESSORY DWELLING UNIT
AFF	ABOVE FINISH FLOOR
AMP	AMPERE
AWG	AMERICAN WIRE GAUGE
BMP	BEST MANAGEMENT PRACTICE
BM	BEAM
BN	BOUNDARY NAILING
BTTM	BOTTOM
C	COUNTER
CALC	CALCULATION
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CONC	CONCRETE
CONT	CONTINUOUS
DBL	DOUBLE
DIA	DIAMETER
DTP	DOUBLE TOP PLATE
DW	DISH WASHER
EQ	EQUAL
FFE	FINISH FLOOR ELEVATION
FIN	FINISH
FR	FIRE RATED
GAL	GALLON
GD	GARBAGE DISPOSAL
GFI	GROUND-FAULT CIRCUIT INTERRUPTER
GI	GALVANIZED IRON
GL	GLASS
GPM	GALLON PER MINUTE
GYP	GYPSUM
HLW	HALLOW
HGT	HEIGHT
HDR	HEADER
HDU	HOLDOWN INSTALLATION
LVL	LEVEL
MIN	MINIMUM
OAE	OR APPROVED EQUIVALENT
OC	ON CENTER
OPER	OPERATION
O	OVEN
OSB	ORIENTED STRAND BOARD
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL-STRAND LUMBER
PT	POST TENTION
QNTY	QUANTITY
REQ	REQUIRED
REF	REFRIGERATOR
REINF	REINFORCED
SDS	SAFETY DATA SHEET
SIM	SIMILAR
SF	SQUARE FOOTAGE
SHT	SHEET
T	TEMPERED
THICK	THICKNESS
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VB	TYPE 5 B CONSTRUCTION
W/D	WASHER AND DRYER
WD	WOOD
WH	WATER HEATER
WR	WEATHER RESISTANT
V	VOLT

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project
County of Orange
Pre-Approved
ADU Program

OWNER NAME:
ADDRESS:
APN:
LEGAL DESCRIPTION:

description
General
Notes

date JANUARY 2026
project no.
drawn by DESIGN PATH STUDIO
sheet no. G0.3

WINDOW SCHEDULE

WINDOW	WINDOW SIZE WIDTH	WINDOW SIZE HEIGHT	OPER.	QNTY	FRAME	HEAD HEIGHT	LOCATION	REMARKS	CWUI NOTES SEE SHEET G0.3 (WHEN REQ'D)	SHGC	U- FACTOR
A	2'-0"	2'-0"	SLIDER	1	VINYL	6'-8"	BATHROOM WINDOW	TEMPERED	NOTES 15, 16	0.23	0.3
B	3'-0"	3'-0"	SLIDER	2	VINYL	6'-8"	KITCHEN/ DINING AREA WINDOWS		NOTES 15, 16	0.23	0.3
C	5'-0"	3'-0"	SLIDER	1	VINYL	6'-8"	LIVING ROOM WINDOW		NOTES 15, 16	0.23	0.3
D	5'-6"	2'-0"	SLIDER	1	VINYL	6'-8"	LIVING ROOM WINDOW		NOTES 15, 16	0.23	0.3

WINDOW NOTES

1. SEE EXTERIOR ELEVATION FOR DIRECTION OF OPERATION OF WINDOWS (ALL OPERABLE WINDOWS TO HAVE SCREENS).
2. ALL WINDOW DIMENSIONS PERTAIN TO ROUGH OPENINGS (R.O.), CONTRACTOR TO FIELD VERIFY ACTUAL DIMENSIONS FOR WINDOWS
3. ALL GLAZING WILL BE INSTALLED WITH A CERTIFYING LABEL ATTACHED, SHOWING THE NFRC LABEL.
4. ALL GLAZING SHALL BE SPECTRALY SELECTIVE LOW E COATED TO MEET TITLE 24 ENERGY REQUIREMENTS.
5. WINDOWS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTION 116 E.E.S.D
6. VENTILATION SHALL COMPLY WITH CRC R325.1.2
7. EVERY SLEEPING ROOM SHALL HAVE ONE OPERABLE WINDOW FOR EMERGENCY ESCAPE OR RESCUE WITH A MIN. NET CLEAR OPENABLE AREA OF 5.7 SQ. FT, MIN. NET CLEAR OPENABLE HEIGHT OF 24" MIN., NET CLEAR WIDTH OF 20" AND A FIN. SILL HEIGHT OF NOT MORE THAN 44" A.F.F. PER CRC SECTION 310.1.
8. TEMPERED GLASS SHALL BE PERMANENTLY IDENTIFIED AND VISIBLE WHEN THE UNIT IS GLAZED.
9. EVERY SPACE INTENDED FOR HUMAN OCCUPANCY SHALL BE PROVIDED WITH NATURAL VENTILATION AND NATURAL LIGHT BY MEANS OF VENTILATION / ARTIFICIAL LIGHT. CRC R325
   THE MINIMUM NET GLAZED AREA FOR NATURAL LIGHT SHALL NOT BE LESS THAN 8%OF THE FLOOR AREA OF THE ROOM SERVED. CRC R325.1.1
   THE MINIMUM OPENABLE AREA TO THE OUTDOORS FOR NATURAL VENTILATION SHALL BE 4% OF THE FLOOR AREA BEING VENTILATED. CRC R325.1.2
10. EXTERIOR WINDOWS, WINDOW WALLS, GLAZED DOORS, AND GLAZED OPENINGS WITHIN EXTERIOR DOORS SHALL BE INSULATING-GLASS UNITS WITH A MINIMUM OF ONE TEMPERED PANE
11. FIRE-RESISTANCE RATED GLAZING TESTED AS PART OF A FIRE-RESISTANCE-RATED WALL ASSEMBLY IN ACCORDANCE WITH ASTM E 119 OR UL 263 TO BE CONSTRUCTED PER NOTE #13
12. 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

DOOR SCHEDULE

DOOR	DOOR TYPE	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THICK.	CORE	MATERIAL	FRAME	LOCATION	REMARKS	CWUI NOTES SEE SHEET G0.3 (WHEN REQ'D)	SHGC	U- FACTOR
1	SINGLE DOOR	3'0"	6'-8"	1-3/4"	GL	VNL/GLASS	VINYL	ENTRY	TEMPERED	NOTES 15, 16, 17, 18	0.23	0.3
2	SINGLE DOOR	3'0"	6'-8"	1-3/4"	HLW	WOOD	WD	BATHROOM				
3	SINGLE DOOR	2'6"	6'-8"	1-3/4"	HLW	WOOD	WD	WATER HEATER	LOUVERED			

DOOR NOTES

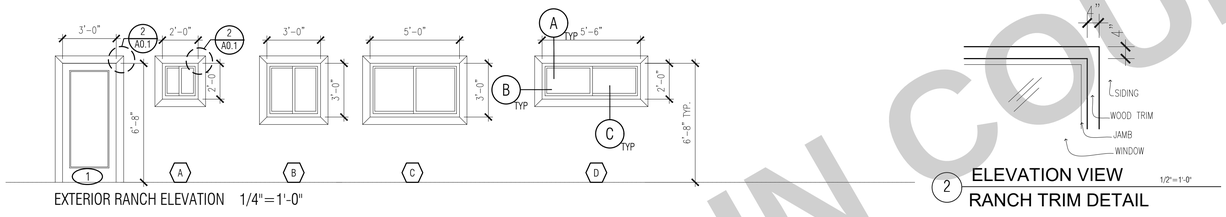
1. ALL GLASS IN DOORS SHALL BE TEMPERED. TEMPERED GLASS SHALL BE PERMANENTLY IDENTIFIED AND VISIBLE WHEN THE UNIT IS GLAZED.
2. ALL GLAZING WILL BE INSTALLED WITH A CERTIFYING LABEL ATTACHED, SHOWING THE "U" VALUE.
3. REFER TO FLOOR PLANS FOR DIRECTION OF DOOR SWING.
4. DOORS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTION 116 E.E.S.
5. VENTILATION SHALL COMPLY WITH CRC R325.1.2.
6. DOORS MAY OPEN TO THE EXTERIOR ONLY IF THE FLOOR OR LANDING IS NOT MORE THAN 1-½ INCH LOWER THAN THE DOOR THRESHOLD. CRC R318.3.1
7. 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
9. NOTE USED
10. 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

VERY HIGH FIRE HAZARD SEVERITY ZONE

EXTERIOR WINDOWS AND DOORS

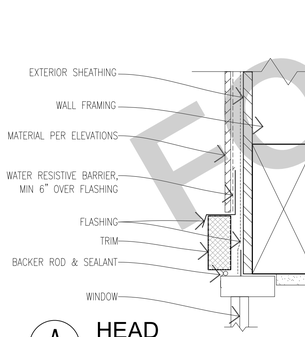
1. EXTERIOR GLAZING SHALL BE MULTI-PANE UNITS WITH A MINIMUM OF ONE TEMPERED PANE, OR GLASS BLOCK UNITS, OR MINIMUM 20-MIN. RATED OR COMPLIES WITH SFM 12-7A-2 (708A.1; R327.8.2.1

2. EXTERIOR DOORS SHALL MEET ONE OF THE FOLLOWING
   A. NONCOMBUSTIBLE MATERIAL OR
   B. IGNITION-RESISTANT MATERIAL OR
   C. SOLID CORE WOOD HAVING STILES AND RAILS NOT LESS THAN 1-3/8-IN. THICK WITH INTERIOR PANEL THICKNESS NOT LESS THAN 1-1/4-IN. THICK OR
   D. MINIMUM 20-MIN. RATE OR
   E. COMPLIES WITH SFM 12-7A-1 (708A; R327.8)

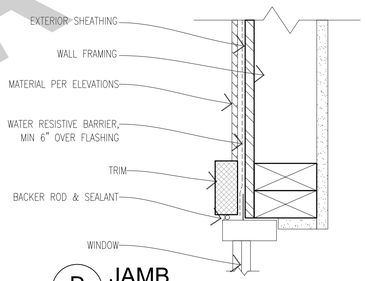


EXTERIOR RANCH ELEVATION 1/4"=1'-0"

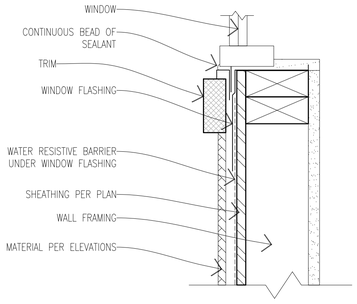
2 ELEVATION VIEW RANCH TRIM DETAIL 1/2"=1'-0"



A HEAD SECTION VIEW



B JAMB PLAN VIEW



C SILL SECTION VIEW

WINDOW DETAILS SCALE: 3"=1'-0"

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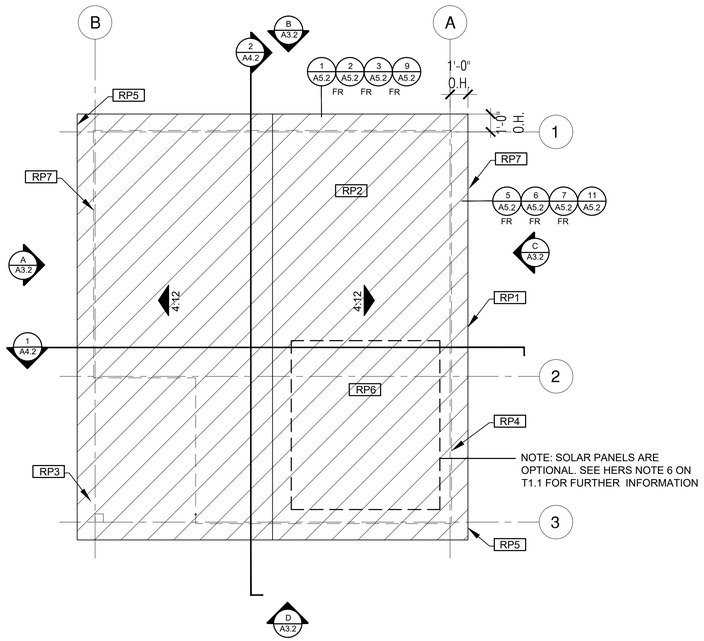
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project
County of Orange
Pre-Approved
ADU Program

OWNER NAME:
ADDRESS:
APN:
LEGAL DESCRIPTION:

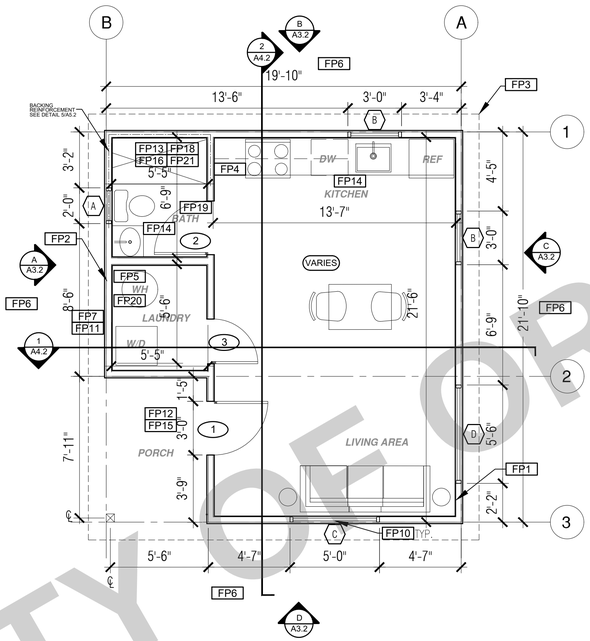
description
Schedules
& Notes

date JANUARY 2026
project no.
drawn by DESIGN PATH STUDIO
sheet no.
A0.1



ROOF PLAN

1/4"=1'-0" 393 SQ. FT. RANCH



FLOOR PLAN

1/4"=1'-0" 393 SQ. FT. RANCH

FOR USE IN COUNTY OF ORANGE

ROOF KEYNOTES

- RP1 LINE OF ROOF OVERHANG
- RP2 CLASS A ROOFING MATERIAL. SEE GENERAL ROOF NOTE 13 ON SHEET G0.2
- RP3 SUPPORT POST BELOW
- RP4 LINE OF WALLS BELOW
- RP5 ROOF DOWNSPOUT LOCATION TO BE DETERMINED BY SITE SPECIFIC CONDITIONS
- RP6 DESIGNATED SOLAR PANEL AREA. PLEASE SEE SOLAR READY NOTES ON THIS SHEET
- RP7 RAFTER VENTS TO MEET REQUIRED VENTILATION AREA FOR ENCLOSED RAFTER SPACES. MAX ¼", MIN ⅛" OPENING SIZE ON VENT SCREEN WITH CORROSION-RESISTANT WIRE SCREEN MATERIAL. 1 SF OF VENTING PER 150 SF OF ENCLOSED RAFTER AREA IN NON-FIRE RATED CONSTRUCTION PLEASE SEE VENTING CALCULATIONS OF THIS SHEET

FLOOR PLAN KEYNOTES

- FP1 STUD WALL SIZED PER STRUCTURAL
- FP2 2X6 STUD WALL OR FURRING AS NEEDED FOR MECHANICAL / PLUMBING / VENTING
- FP3 LINE OF OVERHANG ABOVE
- FP4 36" HIGH COUNTER
- FP5 WATER HEATER
- FP6 SLOPE SURFACE AWAY FROM FOUNDATION. 5% SLOPE FOR A DISTANCE OF 10' OR 2% IF HARDSCAPED
- FP7 DRYER VENT TERMINATION ON EXTERIOR WALL TO BE A MINIMUM OF 3 FT FROM ANY OPENING
- FP8 CLOSET SHELF AND POLE
- FP9 EMERGENCY EGRESS WINDOW
- FP10 WINDOW MUST HAVE A FRAME AND SASH COMPRISED OF WELDED CORNERS, METAL REINFORCEMENT IN THE INTERLOCK AREA, AND CONSTRUCTED OF MULTIPANE TEMPERED GLAZING WHERE INDICATED TYPICAL ALL WINDOWS
- FP11 VENT DRYER THROUGH WALL. SEE MECHANICAL / PLUMBING PLANS FOR FURTHER INFORMATION
- FP12 MIN. 1 HINGED ENTRY DOOR FOR EGRESS COMPLIANCE REQUIRED - THE EGRESS DOOR SHALL BE SIDE-HINGED AND SHALL PROVIDE A CLEAR WIDTH OF NOT LESS THAN 32 INCHES WHERE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90°. THE CLEAR HEIGHT OF THE DOOR OPENING SHALL BE NOT LESS THAN 78 INCHES IN HEIGHT MEASURED FROM THE TOP OF THE THRESHOLD TO THE BOTTOM OF THE STOP
- FP13 SURROUND AROUND THE SHOWER MUST BE TEMPERED. GLAZING IN THE WALLS/DOORS FACING OR CONTAINING BATHTUBS, SHOWERS, HOT TUBS, SPAS, WHIRLPOOLS, SAUNAS, STEAM ROOMS AND INDOOR/OUTDOOR SWIMMING POOLS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60" ABOVE THE STANDING SURFACE. EXCEPTION: GLAZING THAT IS MORE THAN 60", MEASURED HORIZONTALLY, FROM THE WATER'S EDGE OF A BATHTUB, HOT TUB, SPA, WHIRLPOOL OR SWIMMING POOL.
- FP14 PER SECTION 301.1.1 CALGREEN AND CIVIL CODE 1101.3(c), ALL PLUMBING FIXTURES SHALL BE COMPLIANT WATER -CONSERVING PLUMBING FIXTURES. SEE MECHANICAL / PLUMBING PLANS FOR FURTHER INFORMATION
- FP15 LANDING OR FLOOR REQUIRED AT EACH SIDE OF EXTERIOR DOOR. WIDTH TO BE NOT LESS THAN THE DOOR SERVED AND HAVE A MIN 36 INCH DEPTH MEASURED IN THE DIRECTION OF TRAVEL. EXTERIOR LANDINGS SHALL BE PERMITTED TO HAVE A SLOPE NOT TO EXCEED ¼" PER FOOT. LANDINGS OR FINISHED FLOORS AT EGRESS DOOR SHALL NOT 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.
- FP16 WALL COVERING SHALL BE CEMENT PLASTER, TILE OR APPROVED EQUAL TO 72" ABOVE DRAIN AT SHOWERS OR TUB WITH SHOWERS. MATERIALS OTHER THAN STRUCTURAL ELEMENTS ARE TO BE MOISTURE RESISTANT. CRC R327.2
- FP17 DOOR BELL BUTTON TO BE NO MORE THEN 48" ABOVE EXTERIOR FLOOR OR LANDING
- FP18 WATER CLOSET AND SHOWER TO HAVE REINFORCEMENT IN WALLS 2X8 NOMINAL AT 32" TO 39.5" ABOVE FINISH FLOOR. SEE DETAIL 5/A5.2 FOR BACKING REINFORCEMENT DETAILS AND FLOOR PLAN GENERAL NOTE #31 ON SHEET G0.2 FOR FURTHER INFORMATION
- FP19 DOOR TO HAVE A NET CLEAR OPENING OF 32"
- FP20 DESIGNATED 2'- 6" x 2'- 6" x 7' TALL MINIMUM AREA FOR FUTURE INSTALLATION OF A HEAT PUMP WATER HEATER PER CEC 2025 SECTION 150.0(N)
- FP21 FURRING AS NEEDED FOR STANDARD TUB AND SHOWER LENGTH

SOLAR READY NOTES

SOLAR READY ROOF AREA:
MIN DIMENSION > 5FT. MIN. SF. > 80SF.
PER CALIFORNIA ENERGY CODE SECTION 110.10(b)

THE SOLAR ZONE SHALL COMPLY WITH ACCESS, PATHWAY, SMOKE VENTILATION, AND S[PACING REQUIREMENTS AS SPECIFIED IN TILE 24, PART 9 OR OTHER PARTS OF TITLE 24 OR IN ANY REQUIREMENTS ADOPTED NY LOCAL JURISDICTION

SINGLE FAMILY RESIDENCE. THE SOLAR ZONE SHALL BE LOCATED ON THE ROOF OR OVERHANG OF THE BUILDING AND HAVE A TOTAL AREA OF NO LESS THAN 250SQFT.

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.

VENTING CALCULATIONS

ROOF VENTING: 1SF. OF ROOF VENTING PER 150 SF. OF ENCLOSED AREA OR ENCLOSED RAFTER AREA.
ENCLOSED RAFTER AREA: 393 SF.
VENTILATION AREA REQUIRED: 393 SF./150SF.= 2.62 SF.
CONVERT TO SQ. IN: 2.62 SF. x 144 = 377 SQ. IN.
MINIMUM VENTILATION AREA REQUIRED: 377 SQ. IN.
*VENTING CALCULATION IS NOT APPLICABLE IF UNVENTED RAFTER IS PROVIDED PER DETAIL 11/A5.2 AND DETAIL 16/A5.2 IN COMPLIANCE WITH CRC R806.5.

LEGEND

- SECTION CUT
- ELEVATION CALLOUT
- DETAIL DRAWING REF.
- WALL BELOW OR ROOF ABOVE
- SOLAR ZONE. REFER TO SOLAR NOTES ON SHEET G0.2
- ROOFING
- X — KEYNOTE
- X — DOOR SYMBOL
- X — WINDOW SYMBOL
- X'-X" — CEILING HEIGHTS
- VARIES — VAULTED CEILING
- X:12 — ROOF SLOPE

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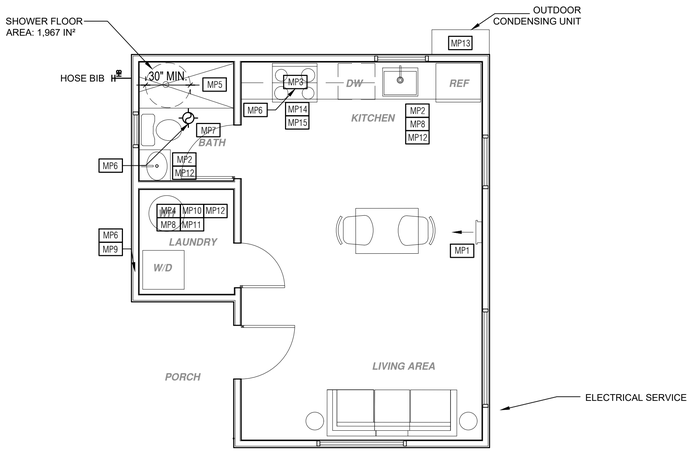
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project
County of Orange
Pre-Approved
ADU Program

OWNER NAME:
ADDRESS:
APN:
LEGAL DESCRIPTION:

description
Floor Plan/
Roof Plan
Ranch

date JANUARY 2026
project no.
drawn by DESIGN PATH STUDIO
sheet no.
A1.1

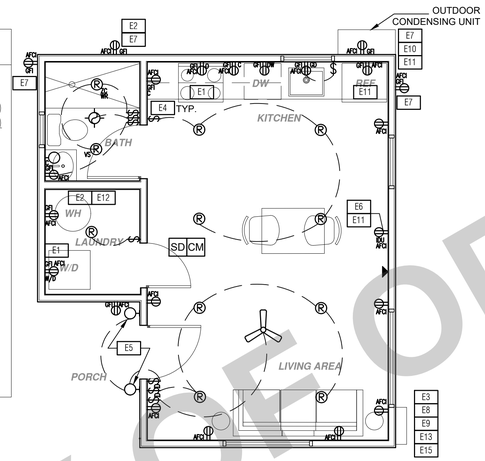


MECHANICAL / PLUMBING PLAN

1/4"=1'-0"

COUNTY OF ORANGE ADU – STUDIO MINIMUM SIZE OF THE ELECTRICAL SERVICE – NEC ARTICLE 220.82		
GENERAL ELECTRICAL LOAD REQUIREMENTS	QUANTITY	LOAD
INDOOR SQ. FT. AREA	393 S.F.	1,179VA
SMALL APPLIANCE CIRCUITS	2	1,500VA (EACH)
LAUNDRY CIRCUIT	1	1,500VA (EACH)
SUB–TOTAL =		5,679VA
APPLIANCE & MOTOR LOADS VA		
DRYER	1	5,000VA
COOK TOP STOVE OR RANGE	1	5,000VA
WATER HEATER	1	4,500VA
DISHWASHER	1	600VA
DISPOSAL	1	600VA
ADDITIONAL APPLIANCES	1	4,000VA
SUB–TOTAL =		19,700VA
FIRST 10,000 VA @ 100% =		10,000VA
ADJUSTMENT 40% OF REMAINDER =		6,152VA
HEATING & AIR CONDITIONING VA		
FAU	1	2,250VA
SUB–TOTAL =		2,250VA
CALCULATED TOTAL VA LOAD WITH TYPICAL POWER FACTOR =		18,402VA
CALCULATED TOTAL AMPS LOAD =		77 AMP

IF THE MAIN SERVICE FOR THE ADU IS LESS THAN 125AMPS, BESS READY IS NOT REQUIRED



ELECTRICAL PLAN

1/4"=1'-0"

MECHANICAL / PLUMBING KEYNOTES

- MP1 INDOOR UNIT MINI SPLIT SYSTEM.
- MP2 WATER CONSERVING FIXTURES: NEW WATER CLOSETS SHALL USE NO MORE THAN 1.28 GAL. OF WATER PER FLUSH, LAVATORIES LIMITED TO 1.2 GPM, KITCHEN FAUCETS NOT TO EXCEED 1.8 GPM AT 60 PSI THEY CAN INCREASE THE FLOW MOMENTARILY BUT CANT EXCEED 2 GGALLONS PER MIN. AT 60 PSI AND MUST DEFAULT TO A MAX. FLOW RATE OF 1.8GALLONS PER MIN AT 60 PSI., AND SHOWERS NOT EXCEED 1.8 GPM. AT 80 PSI AND ALL SHALL BE CERTIFIED TO MEET THE PERFORMANCE CRITERIA OF THE EPA WATERSENCE SPECIFICATIONS FOR SHOWERHEADS, CPC SECTIONS 407, 408, 411, 412 AND SECTION 301.1.1 CALGREEN CODE AND CIVIL CODE 1101.3(c)
- MP3 EXHAUST HOOD ABOVE/ TO BE SMOOTH METALLIC INTERIOR SURFACE (CMC 504.3)
- MP4 NEW 40 GAL. HEAT PUMP WATER HEATER - TO HAVE CONDENSATE DRAIN INSTALLED NO HIGHER THAN 2' ABOVE THE BASE OF THE HEATER THAT ALSO ALLOWS GRAVITY DRAINAGE
- MP5 CONTROL VALVES IN SHOWERS, BATHTUBS, & BIDETS MUST BE PRESSURE BALANCED OR THERMOSTATIC MIX VALVES
- MP6 MINIMUM OF 3 FT CLEARANCE TO ANY OPENING INTO BUILDING FOR EXHAUST FAN TERMINATIONS
- MP7 CLEARANCE FOR WATER CLOSET TO BE A MIN. OF 24" IN FRONT, AND 15" FROM ITS CENTER TO ANY SIDE WALL OR OBSTRUCTION. (CPC 402.5)
- MP8 THE 1/2" SIZE HOT WATER PIPE TO THE KITCHEN SINK AND THE COLD WATER PIPE WITHIN 5' OF WATER HEATER BOTH REQUIRE 1" INSULATION
- MP9 DRYER EXHAUST OUTLET FROM DRYER TO EXTERIOR MAX LENGTH 14' WITH MAXIMUM OF TWO 90° ELBOWS EXHAUST VENT MUST TERMINATE A MIN. OF 3' FROM ANY OPENING MIN. TYPE 1 CLOTHES DRYER EXHAUST DUCTS SHALL BE OF RIGID METAL & SHALL HAVE SMOOTH INTERIOR SURFACES. THE DIAMETER SHALL BE NOT LESS THAN 4 INCHES NOMINAL (100 MM), & THE THICKNESS SHALL BE NOT LESS THAN 0.016 OF AN INCH (0.406 MM). EXHAUST DUCTS & DRYER VENTS SHALL BE EQUIPPED WITH BACK DRAFT DAMPERS
- MP10 NEW WATER HEATER WITH T&P RELIEF VALVE AND DISCHARGE PIPE AT EXTERIOR. PROVIDE COMBUSTION AIR AND CLEARANCES PER MANUFACTURER REQUIREMENTS.
- MP11 WATER HEATER SHALL HAVE ISOLATION VALVES ON BOTH THE COLD AND THE HOT WATER PIPING LEAVING THE WATER HEATER COMPLETE WITH HOSE BIBS OR OTHER FITTINGS ON EACH VALVES FOR FLUSHING THE WATER HEATER WHEN THE VALVES ARE CLOSED
- MP12 ALL DOMESTIC HOT WATER PIPING TO HAVE THE FOLLOWING MINIMUM INSULATION INSTALLED:
  ¾" PIPE (¾" INSULATION);
  ¾" PIPE (1" INSULATION);
  1" TO 1-1/2" PIPE (1-1/2" INSULATION)
- MP13 OUTDOOR CONDENSING UNIT TO BE PIPED TO INDOOR HVAC UNIT
- MP14 A MINIMUM 100 CFM INTERMITTENT RATED HOOD OVER RANGE IS REQUIRED. IF USED FOR INDOOR AIR QUALITY THE FAN SHALL RUN CONTINUOUSLY AND BE ECC VERIFIED PER CEC TABLE 150.0-G: 160 CFM OR 65%CE AT <7.5SF, 130 CFM IR 55% CE AT 750-1000SF, 110CFM OR 50% CE AT 1000-1500SF, OR 110 CFM OR 50% AT 1500SF
- MP15 ONE OR MORE FANS (EITHER KITCHEN OR BATHROOM) TO OPERATE CONTINUOUSLY AT REQUIRED CFM PER TITLE 24 CALCULATIONS FOR INDOOR AIR QUALITY. AT THE IAQ FAN SWITCH, A LABEL CLEARLY DISPLAYING THE FOLLOWING OR EQUIVALENT TEXT IS REQUIRED: "THIS SWITCH CONTROLS THE INDOOR AIR QUALITY VENTILATION FOR THE HOME. LEAVE IT ON UNLESS THE OUTDOOR AIR QUALITY IS VERY POOR.

ELECTRICAL KEYNOTES

- E1 DEDICATED DUAL GFCI AND AFCI 30 AMP/ 240V POWER FOR ELECTRIC DRYER AND 50 AMP MINIMUM FOR DEDICATED COOKTOP BRANCH CIRCUIT CONDUCTOR. EACH APPLIANCE COVER PLATE IS TO BE LABELED AS ELECTRIC READY VERIFY REQUIREMENTS WITH APPLIANCE SPECIFICATIONS
- E2 OUTLET FOR NEW WATER HEATER WITHIN 3' OF WATER HEATER.
- E3 MAIN ELECTRICAL SERVICE PANEL FOR ADU TO HAVE A 200AMP MINIMUM BUSBAR RATING PER MANDATORY MEASURE 110.10(e)1 AND A 225 AMP MINIMUM BUSBAR RATING FOR BESS PER 150.0(s). IF THE MAIN SERVICE FOR THE ADU IS LESS THAN 125A, BESS READY IS NOT REQUIRED SEE ELECTRIC READY NOTE (S) ON G0.2 FOR MORE INFORMATION
- E4 OUTLET AT COUNTER HEIGHT - SHALL COMPLY WITH CEC ARTICLE 210.52(C): IN KITCHENS A RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH COUNTER SPACE 12" OR WIDER; SHALL BE INSTALLED SO THAT NO POINT ALONG THE WALL IS MORE THAN 24"; ISLAND IN PENINSULAR COUNTERTOPS 12" X 24" LONG (OR GREATER) SHALL HAVE AT LEAST ONCE RECEPTACLE
- E5 OUTDOOR LIGHTING FIXTURES ARE REQUIRED TO BE HIGH EFFICACY OR CONTROLLED BY A COMBINATION PHOTOCONTROL / MOTION SENSOR.
- E6 OUTLET DEDICATED FOR INDOOR HVAC UNIT
- E7 WEATHER RESISTANT TYPE RECEPTACLES GFCI PROTECTED
- E8 OVER-CURRENT FEEDER TO EXTEND TO EXISTING PANEL- ALUMINUM CONDUCTOR BURIED UNDER GROUND WITH AWG ALLOWABLE VOLTAGE DROP PER CEC 250.4
- E9 SEPARATE GROUND ELECTRODE SYSTEM PER CEC 250.4
- E10 OUTDOOR CONDENSING UNIT RECEPTACLE OUTLET SHALL BE INSTALLED AT AN ACCESSIBLE LOCATION FOR THE SERVICING OF THE HEATING AND COOLING EQUIPMENT AND SHALL BE LOCATED ON THE SAME LEVEL AND WITHIN 25 FEET OF THE EQUIPMENT. THIS RECEPTACLE SHALL BE GFCI-WP PROTECTED.
- E11 A DISCONNECTING MEANS CAPABLE OF DISCONNECTING AIR-CONDITIONING AND REFRIGERATING EQUIPMENT, INCLUDING MOTOR-COMPRESSORS AND CONTROLLERS FROM THE CIRCUIT CONDUCTOR IS REQUIRED WITHIN SIGHT FROM THE EQUIPMENT LOCATION PER CEC SECTION 440.11
- E12 PER CEC 2025 150.0(N).1.A.: THE DESIGNATED SPACE AND WATER HEATER AND IS TO COMPLY WITH ELECTRICAL NOTES 15&16 ON SHEET G0.2
- E13 CONTRACTOR TO VERIFY MAIN PANEL THE ELECTRICAL SERVICE PANEL SHALL HAVE A RESERVED SPACE TO ALLOW FOR THE INSTALLATION OF A DOUBLE POLE CIRCUIT BREAKER FOR THE FUTURE SOLAR ELECTRIC INSTALLATION. (CEnC 110.10 (b)3 4(ii)). RESERVE LOCATION FOR ROUTING OF CONDUIT FOR SOLAR ZONE
- E14 ALL GAS BURNING APPLIANCES SHALL BE ELECTRIC READY PLEASE SEE ELECTRIC READY NOTES ON G0.2
- E15 SUFFICIENT SPACE SHALL BE RESERVED TO ALLOW FUTURE INSTALLATION OF A SYSTEM ISOLATION EQUIPMENT/TRANSFER SWITCH WITHIN 3FT OF THE MAIN PANELBOARD. RACEWAYS SHALL BE INSTALLED BETWEEN THE PANELBOARD & THE SYSTEM ISOLATION EQUIPMENT/TRANSFER SWITCH LOCATION TO ALLOW THE CONNECTION OF BACKUP POWER SOURCE

MECHANICAL / PLUMBING LEGEND

MECHANICAL

BATHROOM EXHAUST FAN: MINIMUM 50 CFM TO BE DUCTED TO THE EXTERIOR AND SHALL PROVIDE FIVE AIR CHANGES PER HOUR. CFM AND NOISE RATING MAXIMUM 3 SONE FOR INTERMITTENT USE. SHALL BE ENERGY STAR RATED AND CONTROLLED BY A HUMIDISTAT CAPABLE OF AN ADJUSTMENT BETWEEN 50-80% HUMIDITY IQA FAN IS REQUIRED, ONE OR MORE FANS (EITHER KITCHEN OR BATHROOM) TO OPERATE CONTINUOUSLY AT REQUIRED CFM PER HERS NOTES ON T1.1(OR GREATER) TO PROVIDE INDOOR AIR QUALITY. AT THE IAQ FAN SWITCH, A LABEL CLEARLY DISPLAYING THE FOLLOWING OR EQUIVALENT TEXT IS REQUIRED: "THIS SWITCH CONTROLS THE INDOOR AIR QUALITY VENTILATION FOR THE HOME. LEAVE IT ON UNLESS THE OUTDOOR AIR QUALITY IS VERY POOR. MECHANICAL DUCT SYSTEMS ARE SIZED, DESIGNED AND EQUIPMENT IS SELECTED USING THE FOLLOWING METHODS:
1. ESTABLISH HEAT LOSS AND HEAT GAIN VALUES ACCORDING TO ANSI/ ACCA 2 MANUAL J-2011 OR EQUIVALENT.
2. SIZE DUCT SYSTEMS ACCORDING TOASHARE STANDARD 62.2 TABLE 7.1 PROVIDED ON THIS SHEET
3. SELECT HEATING AND COOLING EQUIPMENT ACCORDING TO ANSI/ ACCA 3 MANUAL S-2014 OR EQUIVALENT .

RETURN AIR GRILLE, WALL MOUNTED

SUPPLY AIR DIFFUSER, WALL MOUNTED

THERMOSTAT

HOSE BIB

ELECTRICAL LEGEND

FIRE DETECTION

SD SMOKE DETECTORS PER SECTION R310 DETECTORS SHALL BE PERMANENTLY WIRED WITH BATTERY BACKUP. SOUND AN ALARM AUDIBLE IN ALL SLEEPING AREAS. ALARM DEVICES SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL O F THE ALARMS IN THE UNIT. SMOKE ALARMS TO BE INSTALLED PER ITS LISTING AND MEET MANUFACTURER'S INSTALLATION INSTRUCTIONS

SHALL COMPLY WITH THE FOLLOWING:
- AT LEAST 3' FROM THE TIP OF THE BLADE OF A CEILING-MOUNTED FAN
- NOT LESS THAN 3' FROM THE DOOR OPENING OF A BATHROOM
- AT LEAS 20' FROM A COOKING APPLIANCE OR 10' FROM COOKING APPLIANCE WHEN THE ALARM IS AN IONIZING SMOKE ALARM PER NFPA 72 SECTION 29.8.3.4 ITEM 4
- AT LEAST 3' FROM SUPPLY REGISTERS OF A HEATING /COOLING SYSTEM

CM CARBON MONOXIDE ALARM PERMANENTLY WIRED WITH BATTERY BACKUP PER SECTION R311. ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL O F THE ALARMS IN THE UNIT.

POWER/DATA

TAMPER RESISTANT RECEPTACLE WALL MOUNTED

ELECTRICAL OUTLETS IN KITCHENS SHALL BE BOTH ACFI AND GFCI. ALL ELECTRICAL OUTLETS WITHIN REACH SHALL BE TAMPER RESISTANCE PER CEC 406.11
OUTDOOR ELECTRICAL OUTLETS SHALL BE GFCI, W.P. AND HAVE BOBBLE COVER PER CEC406.3.

GFI = WATER PROOF GFCI
CT = COOKTOP/ GRILL 240 V
O = OVEN 240 V
MW = MICROWAVE 110 V
GD = GARBAGE DISPOSAL 110 V
R = RANGE 220V
C = COUNTER HEIGHT 6" ABV COUNTER
IDU = INDOOR UNIT POWER 84" AFF
W/D = WASHER/DRYER 30AMP/ 240AMP
AFCI = ARC FAULT CIRCUIT INTERRUPTER 120-VOLT SINGLE PHASE, 15- AND 20-AMP BRANCH CIRCUIT PER CEC 210.12 (A)

PHONE / DATA / MEDIA

CEILING, WATERPROOF OUTLET

FLOOR MOUNTED DUPLEX RECEPTACLE, VERIFY LOCATION IN FIELD.
SPECIAL PURPOSE CONNECTION (VOLTAGE SHALL MATCH APPLIANCE REQ.)

SUB PANEL

SWITCHING

$ SWITCH, MOUNT AT 43" AFF
$3 THREE-WAY SWITCH
$4 FOUR-WAY SWITCH
$D DIMMER SWITCH
$C MOUNT 6" ABV COUNTER

MISC.

CEILING FAN/LIGHT COMBO

CIRCUIT WIRING

DOOR BELL BUTTON

LIGHTING

RD CEILING, RECESSED, DIRECTIONAL, ZERO CLEARANCE IC RATED LED BULB

RZC CEILING, RECESSED, ZERO CLEARANCE IC RATED LED BULB

RZCWR CEILING, RECESSED, ZERO CLEARANCE IC RATED, WATER RESISTANT, LED BULB

RVS CEILING, RECESSED, LED BULB WITH OCCUPANT OR VACANCY SENSOR

WALL MOUNTED LIGHT

J JUNCTION BOX FLUSH CEILING MOUNTED

UNDER COUNTER LIGHTING

LS LOW VOLTAGE, LANDSCAPE LIGHT

FLUORESCENT FIXTURE (USE SHALLOW TYPE WHEN UNDER COUNTER)

BATHROOM EXHAUST FAN REQUIREMENTS:PER CGBC 4.506.1-

EACH BATHROOM SHALL BE MECHANICALLY VENTILATED AND SHALL COMPLY WITH THE FOLLOWING:
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 HUMIDITY CONTROL. A. HUMIDITY CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF <// 50 % TO A MAXIMUM OF 80 %. A HUMIDITY CONTROL MAY UTILIZE MANUAL OR AUTOMATIC MEANS OF ADJUSTMENT. B. A HUMIDITY CONTROL MAY BE A SEPARATE COMPONENT TO EXHAUST FAN AND IS NOT REQUIRED TO BE INTEGRAL(I.E. BUILT IN)

RESIDENTIAL ENERGY LIGHTING REQUIREMENTS: "ALL LIGHT FIXTURES TO BE HIGH EFFICIENCY ES 150.0(K)
*IN THE KITCHEN, AT LEAST ONE-HALF OF THE WATTAGE RATING OF THE FIXTURES MUST BE HIGH EFFICACY.
*IN THE BATHROOMS, AT LEAST ONE FIXTURE SHALL BE HIGH EFFICACY AND ALL REMAINING FIXTURES SHALL BE HIGH EFFICACY OR BE CONTROLLED BY A VACANCY SENSOR.
*LIGHTING INSTALLED IN GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS SHALL BE HIGH EFFICACY AND BE CONTROLLED BY VACANCY SENSORS.

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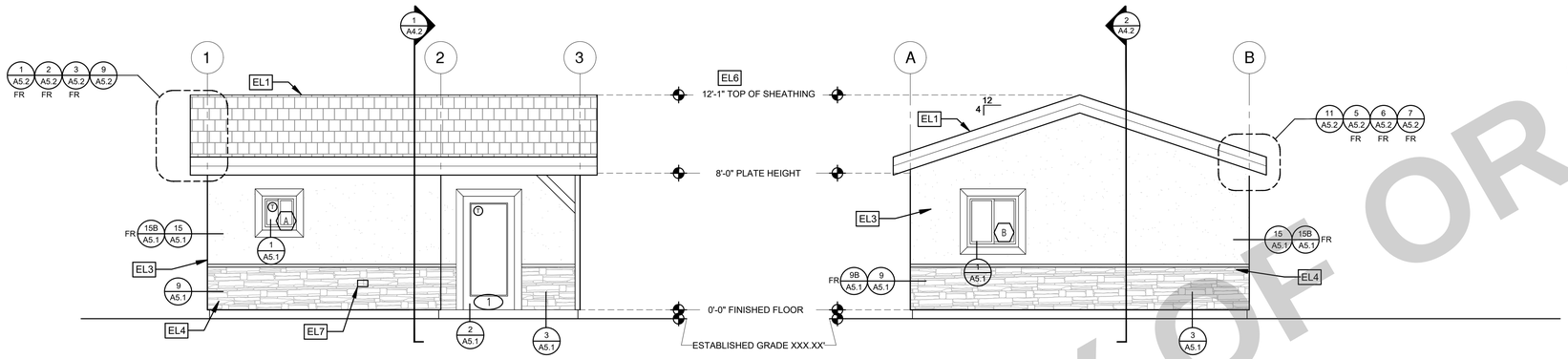
description
Mechanical/
Plumbing &
Electrical
Plans

date JANUARY 2026

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sheet no. A2.1



ELEVATION - A

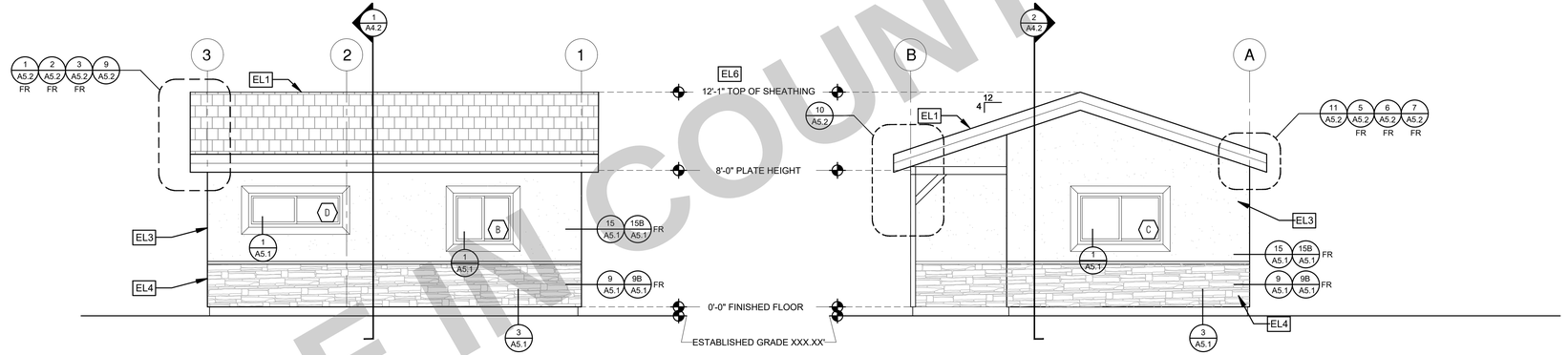
1/4"=1'-0"

RANCH

ELEVATION - B

1/4"=1'-0"

RANCH



ELEVATION - C

1/4"=1'-0"

RANCH

ELEVATION - D

1/4"=1'-0"

RANCH

ELEVATION KEYNOTES

- EL1 MINIMUM CLASS A ROOF ASSEMBLY - SEE SHEET T1.1 FOR MANUFACTURER SPECIFICATIONS
- EL2 SIDING
- EL3 STUCCO
- EL4 STONE VENEER
- EL5 HEIGHT IS MEASURED AT THE BUILDING LINE, FROM THE LOWER OF EXISTING AND PROPOSED GRADES
- EL6 DRYER VENT TERMINATION (MINIMUM OF 3 FT FROM ANY OPENING)

ELEVATION GENERAL NOTES

1. ALL DIMENSIONS TO FINISH FACE, U.N.O.

2. ALL DOORS SHOULD BE 3 1/2" FROM NEAREST INTERSECTING WALL AT HINGED SIDE, U.N.O.

3. WRITTEN DIMENSIONS TO PREVAIL OVER SCALING OF DRAWINGS. SUBCONTRACTOR TO VERIFY ALL DIM. PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT OF ANY DISCREPANCIES.

4. REFER TO FRAMING PLANS,FLOOR PLANS, AND SECTIONS FOR CLARIFICATION AND DIMENSIONS

5. SEE SCHEDULE FOR DOOR AND WINDOW INFORMATION AND HEIGHTS

6. LATH & PLASTER
A. MATERIALS FOR PLASTER IS TO BE THE STANDARD PRODUCTS OF RECOGNIZED MANUFACTURES, AND SHALL BE AS MANUFACTURED BY US GYPSUM CO. AND APPROVED BY THE LATH AND PLASTER INSTIGAT OR APPROVED EQUAL.
B. ALL PLASTER CORNER BEADS, CASING BEADS, CONTROL JOINTS,EXPANSION SCREEDS AND ACCESSORIES ARE TO BE GALVANIZED.PROVIDE CASING BEADS AT ALL JOINTS OF STUCCO TO DISSIMILAR SURFACES UNLESS OTHERWISE NOTED
C. WHERE INDICATED ON THE DRAWINGS, PORTLAND CEMENT PLASTER IS TO BE HAND APPLIED (3) THREE COAT WORK, 7/8" THICK ON EXTERIOR SURFACES. THE COATS ARE TO CONSIST OF A SCRATCH (3/8" AND A TWO COAT FINISH (1/8" MIN.) COAT PROPORTIONED AND MIXED ADS RECOMMENDED BY THE CALIFORNIA LATHING AND PLASTERING CONTRACTORS ASSOCIATION.

7. FRAMING ELEVATIONS, INCLUDING FLOOR PLATES AND FLOOR LEVEL ELEVATIONS ARE MEASURED FROM BUILDING FINISH FLOOR, U.N.O.

8. SEE ROOF PLAN FOR APPROXIMATE DOWNSPOUT LOCATIONS, U.N.O.

10. CONTRACTOR TO VERIFY COLOR SCHEME WITH OWNER BEFORE PERFORMING THE WORK

LEGEND

- SECTION CUT
- ELEVATION CALLOUT
- DETAIL DRAWING REF.
- ELEVATION MARKER X-X'
- 1 KEYNOTE
- X DOOR SYMBOL
- 1 WINDOW SYMBOL
- T TEMPERED GLASS
- GLAZING
- ROOFING
- SHINGLES
- SIDING
- SPRAY FIN. STUCCO
- STONE VENEER

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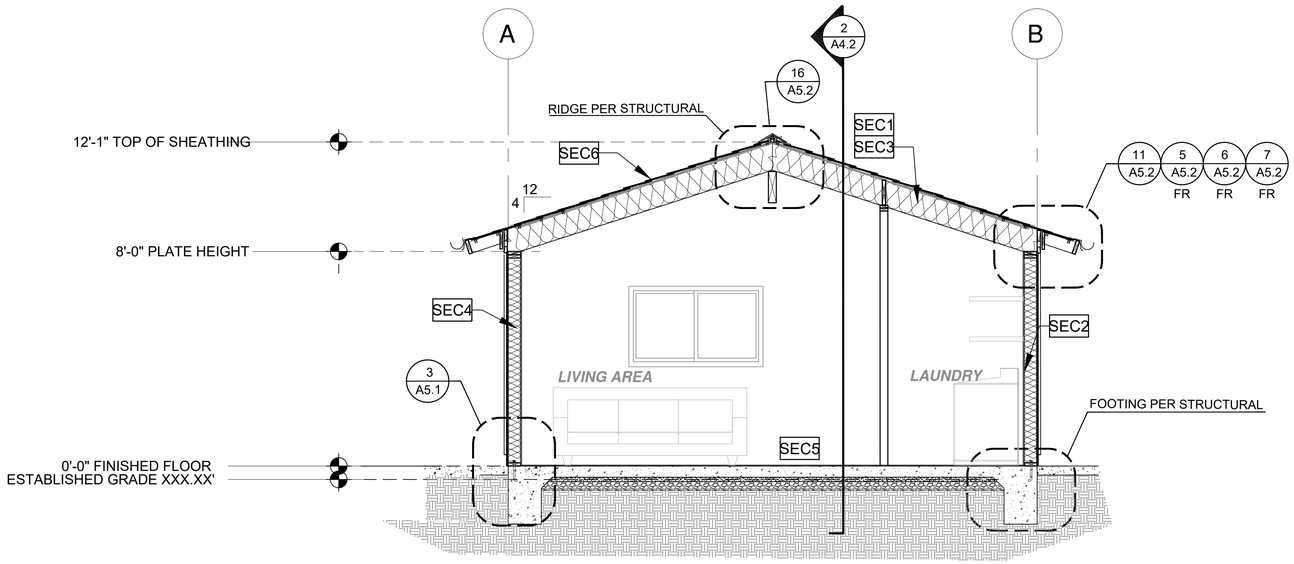
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Exterior
Elevations
Ranch
Studio

date JANUARY 2026

project no.

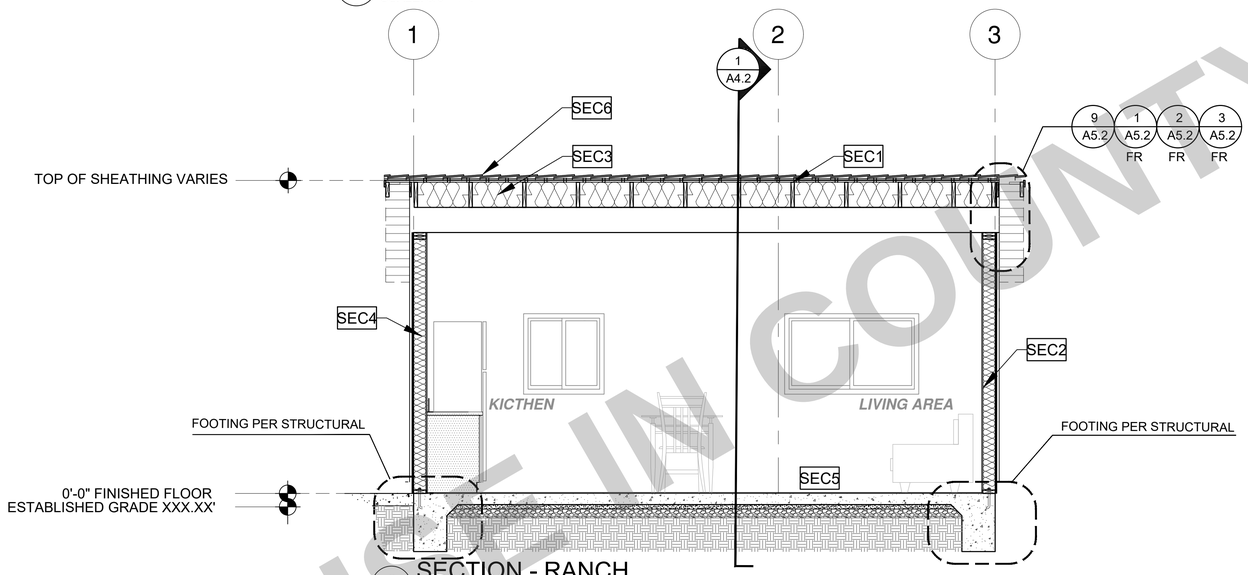
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1 SECTION - RANCH

SCALE: 3/8"=1'-0"



2 SECTION - RANCH

SCALE: 3/8"=1'-0"

SECTION KEYNOTES

- SEC1 RAFTERS PER PLAN SEE STRUCTURAL
- SEC2 2X STUDS @ 16" O.C. - SEE STRUCTURAL
- SEC3 CEILING INSULATION PER TITLE 24 ENERGY CALCULATIONS
- SEC4 WALL INSULATION PER TITLE 24 ENERGY CALCULATIONS
- SEC5 CONC. SLAB ON GRADE SEE STRUCTURAL
- SEC6 MINIMUM CLASS A ROOF ASSEMBLY - SEE SHEET T1.1 FOR MANUFACTURER SPECIFICATIONS

SECTION GENERAL NOTES

1. METALS
SEE PLANS AND DETAILS FOR LOCATIONS, QUANTITY AND CONFIGURATION OF MISCELLANEOUS IRON AND STEEL WORK INCLUDING ASSORTED CLIPS, BRACKETS ANGLES, STRAPS, POST ANCHORS AND LIKE ITEMS.
FURNISH AND INSTALL ALL SUCH ITEMS NECESSARY TO MAKE A COMPLETE INSTILLATION WHETHER OR NOT SPECIFICALLY DETAILED OR NOTED ON THE DRAWINGS. ALL EXTERIOR METAL AND HARDWARE IS TO BE GALVANIZED. STEEL IS TO BE ASTM A3.

2. RAFTER VENTS ARE TO BE STAINLESS STEEL MESH AND ARE TO BE SIZED TO MEET REQUIRED VENTILATION TO ENCLOSED RAFTER SPACES. MAX ⅛" MIN ⅜" OPENING SIZE ON VENT SCREEN WITH CORROSION-RESISTANT WIRE SCREEN MATERIAL.

3. FRAMER IS TO LAYOUT CEILING JOISTS/ROOF RAFTERS TO ACCOMMODATE RECESSED LIGHTS EXHAUST FANS OR OTHER ELECTRICAL/MECHANICAL FIXTURES.

4. WOOD SOFFIT/CEILING, SIDING & TRIM
ALL NAILS, FASTENERS AND HARDWARE MUST BE STAINLESS STEEL OR HOT-DIPPED GALVANIZED. STAPLES ARE NOT PERMITTED

5. INSULATION
THERMAL INSULATION IS TO BE FOIL BACKED BATT INSULATION WITH AN R VALUE NOT LESS SPECIFIED IN THE TITLE 24 ENERGY CALCULATIONS. AT BATHROOMS, LAUNDRY ROOM , AND MASTER BED/BATHROOMS INSULATION IS TO BE PROVIDED WITH SOUND INSULATION,

6. FLASHING AND SHEET METAL
ALL FLASHING AND COUNTER FLASHING IS TO BE GALVANIZED AND INSTALLED AS PER SMACNA STANDARDS. ALL PROPOSED FLASHING AND SHEET METAL MATERIALS, GAUGE AND INSTALLATION IS TO BE IN ACCORDANCE WITH SMACNA MANUAL STANDARDS.

7. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN, ENCLOSED SPACES UNDER STAIRS SHALL COMPLY WITH SECTION R302.7.

8. THE PURPOSE OF THESE DRAWINGS IS TO SHOW CONSTRUCTION MATERIALS/ASSEMBLIES. FOR SPECIFIC SIZES AND DETAILS REFER TO ARCHITECTURAL PLANS, ELEVATIONS, DETAILS, & STRUCTURAL PLANS.
"KEYNOTES ONLY APPLY IF REFERNCED ON PLANS
1. INSULATION: REFER TO TITLE 24 REPORT FOR ADDITIONAL RATINGS, REQUIREMENTS, AND INFORMATION
2. FIRE BLOCKING TO BE LOCATED AT THE FOLLOWING LOCATIONS PER 2019 CRC SECTION R302.11:
A. SECTION R302.11:
1. FIREBLOCKING SHALL BE PROVIDED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS:
A. VERTICALLY AT CEILING AND FLOOR LEVELS
B. HORIZONTALLY AT INTERVALS NOT EXCEEDING 10FT

9. AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS SOFFITS, DROP CEILINGS AND COVE CEILINGS

10. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES AND WIRES AT CEILINGS AND FLOOR LEVEL, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME PRODUCTS OF COMBUSTION. THE MATERIAL FILLING THIS ANNULAR SPACE SHALL NOT BE REQUIRED TO MEET THE ASTM E136 REQUIREMENTS
FOR THE FIREBLOCKING OF CHIMNEYS AND FIREPLACES, SEE SECTION R1003.19
FIREBLOCKING OF CORNICES OF A TWO-FAMILY DWELLING IS REQUIRED AT THE LINE OF DWELLING-UNIT SEPARATION

11. SECTION R302.11.1 - FIREBLOCKING MATERIALS SHALL CONSIST OF FOLLOWING MATERIALS:
1. TWO-INCH NOMINAL NUMBER
2. TWO THICKNESS OF ONE-INCH NOMINAL LUMBER WITH BROKEN LAP JOINTS
3. THE THICKNESS OF 0.719-INCH WOOD STRUCTURAL PANELS WITH JOINTS BACKED BY 0.719-INCH WOOD STRUCTURAL PANELS
4. THE THICKNESS OF 0.75-INCH PARTICLE BOARD WITH JOINTS BACKED BY 0.75-INCH PARTICLE BOARD
5. ONE-HALF-INCH GYPSUM BOARD
6. ONE-FOURTH-INCH CEMENT-BASED MILLBOARD
7. BATTS OR BLANKETS OF MINERAL WOOL, MINERAL FIBER OR OTHER APPROVED MATERIAL INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE
8. CELLULOSE INSULATION INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263, FOR THE SPECIFIC APPLICATION

LEGEND

- SECTION CUT
- ELEVATION CALLOUT
- DETAIL DRAWING REF.
- X'-X" ELEVATION MARKER

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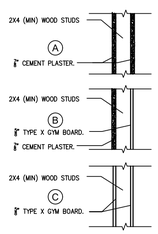
description
Sections
Ranch
Studio

date JANUARY 2026

project no.

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A4.1



2019 CBC TABLE 721.1(2)ITEM #	GYPSUM ASSOC. FILE#
15–1.2	N/A
15–1.3	N/A
14–1.3	WP 3510 & WP 3514

15–1.2 — 2"X4" WOOD STUDS 16" ON CENTER WITH METAL LATH AND ⅞" CEMENT PLASTER ON 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.

15–1.3 — 2"X4" WOOD STUDS 16" ON CENTER WITH ⅞" CEMENT PLASTER (MEASURED FROM THE 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 1:5 FOR BROWN COAT, BY VOLUME, CEMENT TO SAND.

14–1.3 — 2"X4" WOOD STUDS 24" ON CENTER WITH ⅝" 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.

NOTE: THE ADDITION OF PLYWOOD SHEATHING TO THESE ASSEMBLIES DOES NOT LESSEN THEIR FIRE RESISTANCE. ATTACH WALL TO EXISTING OR NEW FIRE RATED FLOOR/CEILING ASSEMBLY AS REQUIRED.

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 STUDS 16" O.C. WITH 11/4" TYPE W DRYWALL SCREWS 12" O.C. JOINTS STAGGERED 16" ON OPPOSITE SIDES. (LOAD–BEARING)

WP 3514 – 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 STUDS 24" O.C. WITH 6D COATED NAILS, 17/8" LONG, 0.0915" SHANK, 1/4" HEADS, 7" O.C. JOINTS STAGGERED 24" ON OPPOSITE SIDES. (LOAD–BEARING)

5 FIRE RESISTIVE 1–HOUR WOOD FRAMED WALLS

SCALE: NTS

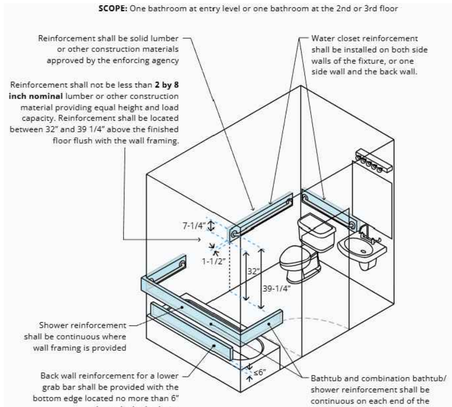
Foam plastic materials used as insulating sheathing shall comply with the provisions of Section R303 and the material standards in Table R303.1.2.

TABLE R303.1.2
MATERIAL STANDARDS FOR FOAM PLASTIC INSULATING SHEATHING

FOAM PLASTIC INSULATING SHEATHING	MATERIAL STANDARDS
Expanded Polystyrene (EPS)	ASTM C578
Extruded Polystyrene (XPS)	ASTM C578
Polyisocyanurate	ASTM C1289

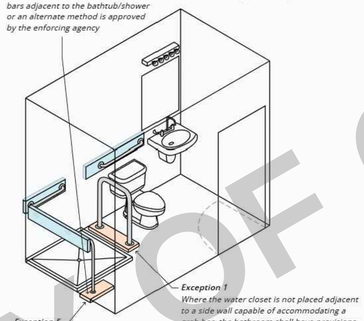
14

SCOPE: One bathroom at entry level or one bathroom at the 2nd or 3rd floor



Exception 3 and 4
Shower enclosures and bathtubs that do not permit installation of reinforcement and/or grab bars shall be permitted, provided reinforcement for installation of floor-mounted grab bars adjacent to the bathtub/shower or an alternate method is approved by the enforcing agency

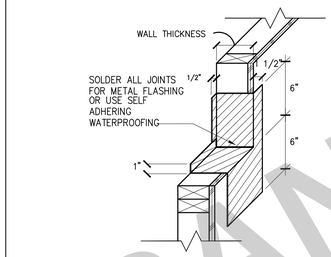
Exception 2
Reinforcement shall not be required in wall framing for pre-fabricated shower enclosures and bathtub wall panels with integral factory-installed grab bars or when factory-installed reinforcement for grab bars is provided



Exception 5
Reinforcement of floors shall not be required for bathtubs and water closets installed on concrete slab floors

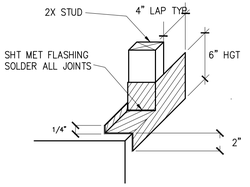
Exception 1
Where the water closet is not placed adjacent to a side wall capable of accommodating a grab bar, the bathroom shall have provisions for installation of floor-mounted, foldaway or similar alternate grab bar reinforcements approved by the enforcing agency

5 AGING IN PLACE REINFORCEMENT DETAILS



1 WINDOW SILL FLASHING

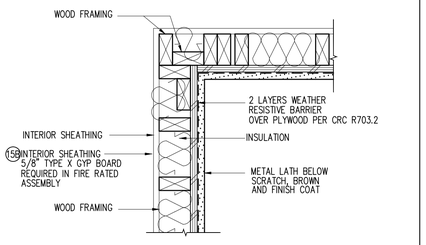
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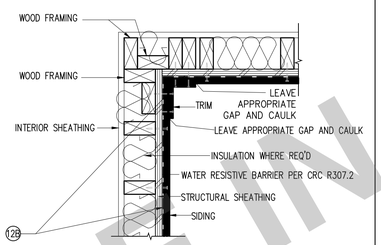
*PROVIDE SOLID BLOCKING AT ALL FLASHING LOCATIONS

2 DOOR THRESHOLD FLASHING

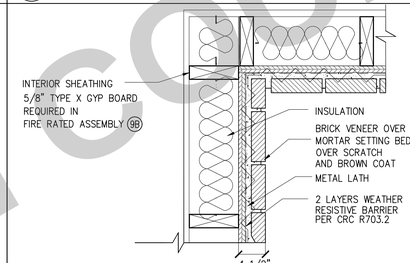
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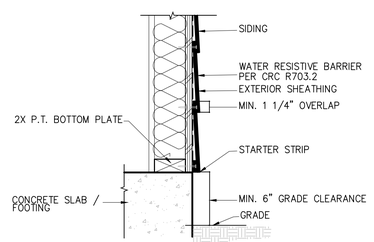
STUCCO AT INSIDE CORNER



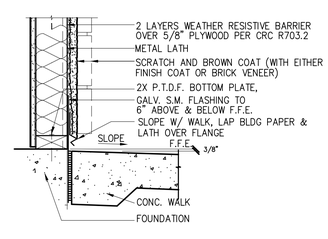
SIDING AT INSIDE CORNER



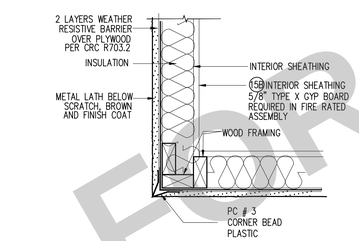
STONE VENEER AT INSIDE CORNER



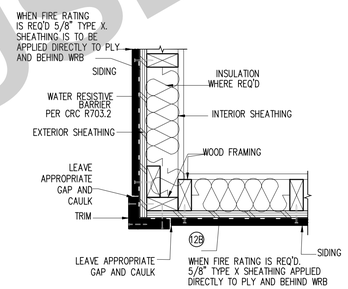
SIDING AT CONCRETE WALK



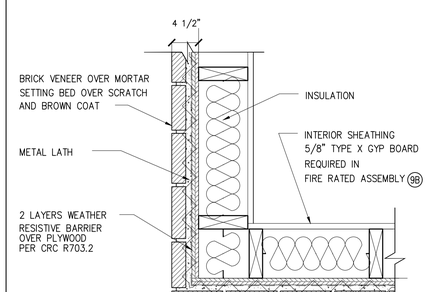
STUCCO / STONE WEEP SCREED AT CONCRETE WALK



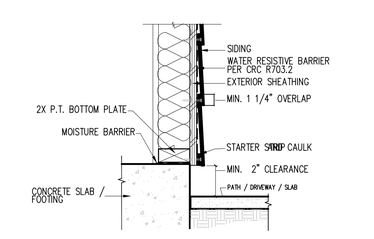
STUCCO AT OUTSIDE CORNER



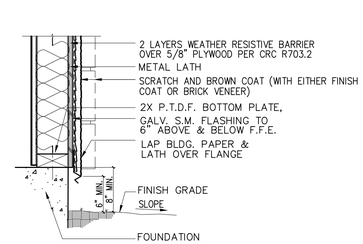
SIDING AT OUTSIDE CORNER



STONE VENEER AT OUTSIDE CORNER



SIDING AT GRADE



STUCCO / STONE WEEP SCREED AT GRADE

15B FIRE RATED STUCCO WALL
15 STUCCO WALL
SCALE: 1½"=1'–0"

12B FIRE RATED SIDING WALL
12 SIDING WALL
SCALE: 1½"=1'–0"

9B FIRE RATED STONE WALL
9 STONE WALL
SCALE: 1½"=1'–0"

6 SIDING – WALL SECTION
SCALE: 1½"=1'–0"

3 STUCCO/STONE – WALL SECTION
SCALE: 1½"=1'–0"

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project
County of Orange
Pre-Approved
ADU Program

OWNER NAME:

ADDRESS:

APN:

LEGAL DESCRIPTION:

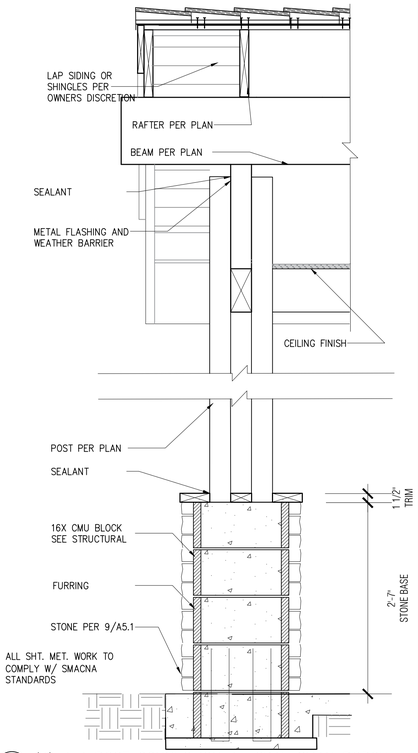
description
Architectural
Exterior Wall
Details

date JANUARY 2026

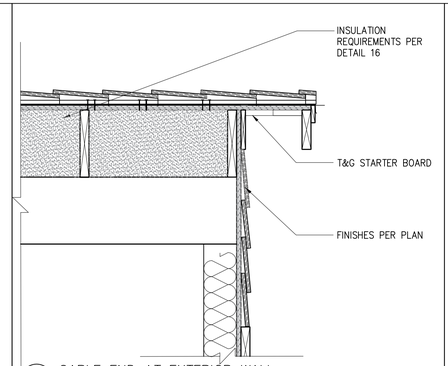
project no.

drawn by DESIGN PATH STUDIO

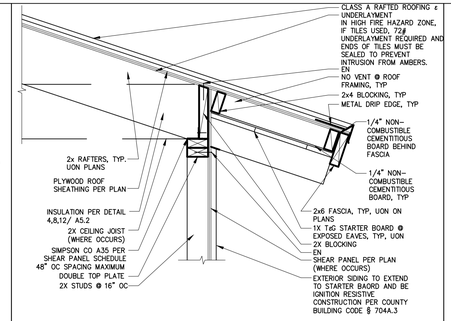
sheet no. A5.1



13 SCALE: 1"=1'-0"

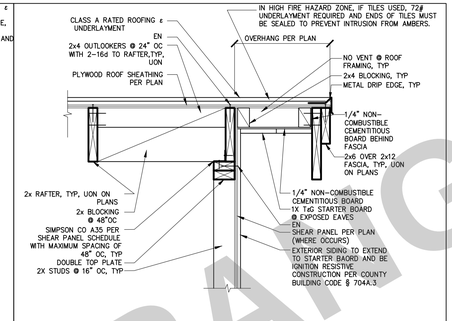


9 GABLE END AT EXTERIOR WALL SCALE: 1"=1'-0"



NOTE: IF RAKE IS IN THE VHFHSZ OR WITHIN 5 FEET OF A PROPERTY LINE AN ALTERNATE RAKE DESIGN PER CRC TABLE R302.1(1) MAY BE REQUIRED. REFER TO THE CRC FOR ADDITIONAL INFORMATION.

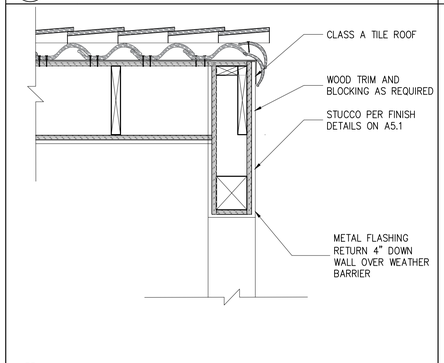
5 IGNITION RESISTIVE EXPOSED RAFTER EAVE SCALE: 1"=1'-0"



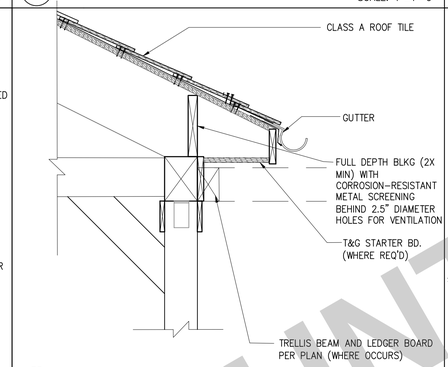
NOTE: IF RAKE IS IN THE VHFHSZ OR WITHIN 5 FEET OF A PROPERTY LINE AN ALTERNATE RAKE DESIGN PER CRC TABLE R302.1(1) MAY BE REQUIRED. REFER TO THE CRC FOR ADDITIONAL INFORMATION.

1 IGNITION RESISTIVE GABLE WITH 2x6 & 2x12 FASCIA SCALE: 1"=1'-0"

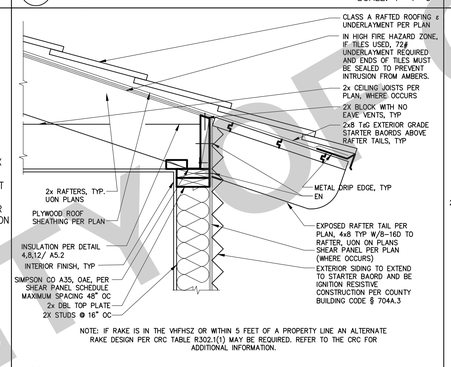
17 (4) 4x4 POST CONNECTION AT CRAFTSMAN PORCH SCALE: 1"=1'-0"



14 GABLE AT SPANISH PORCH SCALE: 1"=1'-0"

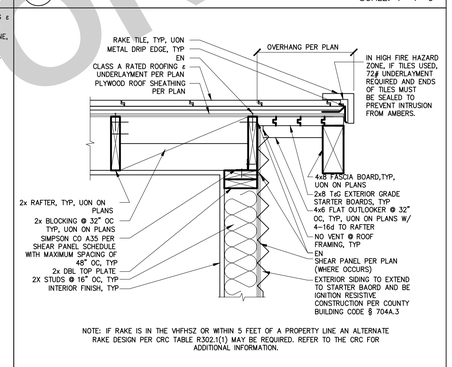


10 PORCH RAFTERS AT RANCH SCALE: 1"=1'-0"



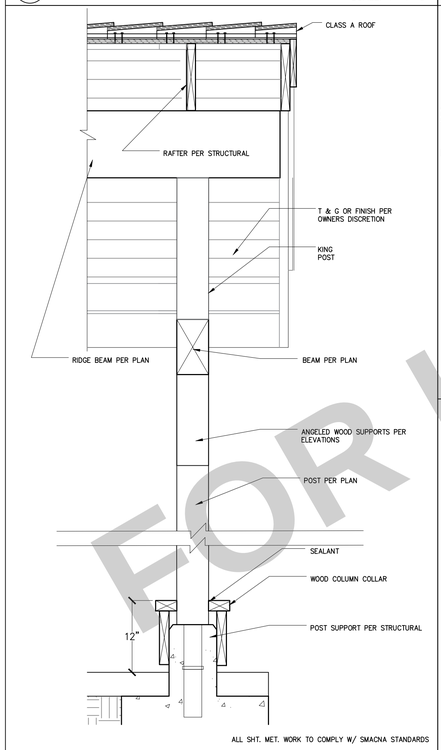
NOTE: IF RAKE IS IN THE VHFHSZ OR WITHIN 5 FEET OF A PROPERTY LINE AN ALTERNATE RAKE DESIGN PER CRC TABLE R302.1(1) MAY BE REQUIRED. REFER TO THE CRC FOR ADDITIONAL INFORMATION.

6 IGNITION RESISTIVE RAFTER EAVE HEAVY TIMBER SCALE: 1"=1'-0"

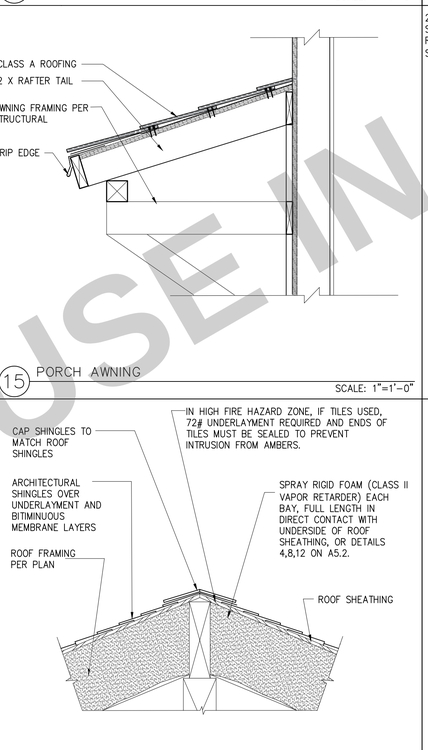


NOTE: IF RAKE IS IN THE VHFHSZ OR WITHIN 5 FEET OF A PROPERTY LINE AN ALTERNATE RAKE DESIGN PER CRC TABLE R302.1(1) MAY BE REQUIRED. REFER TO THE CRC FOR ADDITIONAL INFORMATION.

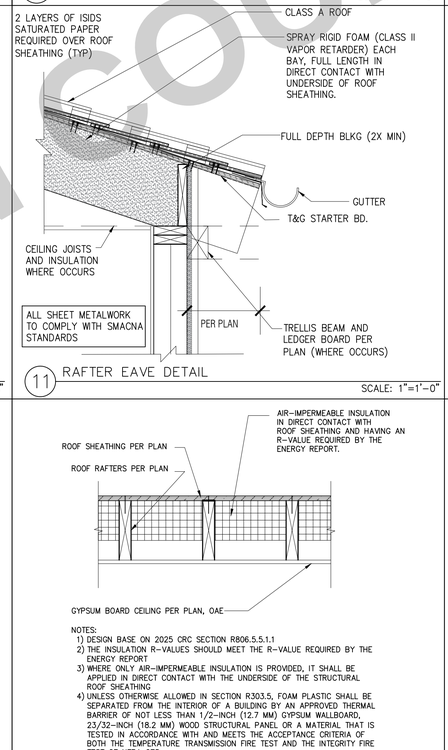
2 IGNITION RESISTIVE GABLE HEAVY TIMBER SCALE: 1"=1'-0"



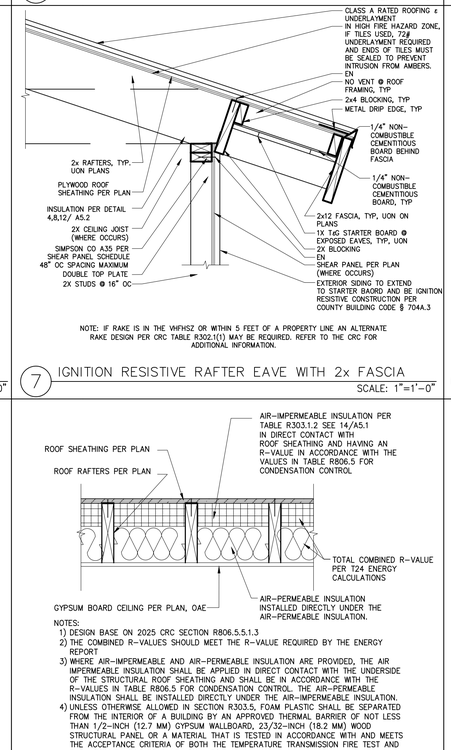
15 PORCH AWNING SCALE: 1"=1'-0"



11 RAFTER EAVE DETAIL SCALE: 1"=1'-0"



7 IGNITION RESISTIVE RAFTER EAVE WITH 2x FASCIA SCALE: 1"=1'-0"



NOTE: IF RAKE IS IN THE VHFHSZ OR WITHIN 5 FEET OF A PROPERTY LINE AN ALTERNATE RAKE DESIGN PER CRC TABLE R302.1(1) MAY BE REQUIRED. REFER TO THE CRC FOR ADDITIONAL INFORMATION.

3 IGNITION RESISTIVE GABLE WITH 2x FASCIA SCALE: 1"=1'-0"

20 GABLE DETAIL AT RANCH PORCH POST SCALE: 1"=1'-0"

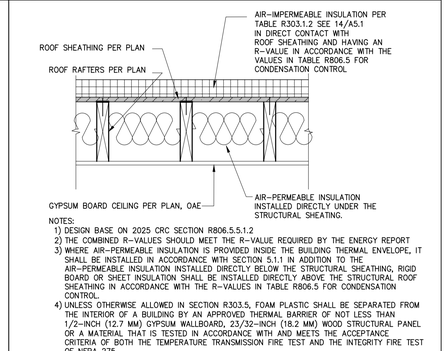
16 UN-VENTED RIDGE, TYP. SCALE: 1"=1'-0"

NOTES:
1) DESIGN BASE ON 2025 CRC SECTION R806.5.5.1.1
2) THE INSULATION R-VALUES SHOULD MEET THE R-VALUE REQUIRED BY THE ENERGY REPORT
3) WHERE ONLY AIR-IMPERMEABLE INSULATION IS PROVIDED, IT SHALL BE APPLIED IN DIRECT CONTACT WITH THE UNDERSIDE OF THE STRUCTURAL ROOF SHEATHING
4) UNLESS OTHERWISE ALLOWED IN SECTION R303.5, FOAM PLASTIC SHALL BE SEPARATED FROM THE INTERIOR OF A BUILDING BY AN APPROVED THERMAL BARRIER OF NOT LESS THAN 1/2-INCH (12.7 MM) GYPSUM WALLBOARD, 23/32-INCH (18.2 MM) WOOD STRUCTURAL PANEL OR A MATERIAL THAT IS TESTED IN ACCORDANCE WITH AND MEETS THE ACCEPTANCE CRITERIA OF BOTH THE TEMPERATURE TRANSMISSION FIRE TEST AND THE INTEGRITY FIRE TEST OF NFPA 275.

12 INSULATION @ UNVENTED ROOF ASSEMBLY IMPERMEABLE ONLY SCALE: 1"=1'-0"

NOTES:
1) DESIGN BASE ON 2025 CRC SECTION R806.5.5.1.3
2) THE COMBINED R-VALUES SHOULD MEET THE R-VALUE REQUIRED BY THE ENERGY REPORT
3) WHERE AIR-IMPERMEABLE AND AIR-PERMEABLE INSULATION ARE PROVIDED, THE AIR IMPERMEABLE INSULATION SHALL BE APPLIED IN DIRECT CONTACT WITH THE UNDERSIDE OF THE STRUCTURAL ROOF SHEATHING AND SHALL BE IN ACCORDANCE WITH THE R-VALUES IN TABLE R806.5 FOR CONDENSATION CONTROL. THE AIR-PERMEABLE INSULATION SHALL BE INSTALLED DIRECTLY UNDER THE AIR-IMPERMEABLE INSULATION.
4) UNLESS OTHERWISE ALLOWED IN SECTION R303.5, FOAM PLASTIC SHALL BE SEPARATED FROM THE INTERIOR OF A BUILDING BY AN APPROVED THERMAL BARRIER OF NOT LESS THAN 1/2-INCH (12.7 MM) GYPSUM WALLBOARD, 23/32-INCH (18.2 MM) WOOD STRUCTURAL PANEL OR A MATERIAL THAT IS TESTED IN ACCORDANCE WITH AND MEETS THE ACCEPTANCE CRITERIA OF BOTH THE TEMPERATURE TRANSMISSION FIRE TEST AND THE INTEGRITY FIRE TEST OF NFPA 275.

8 INSULATION @ UNVENTED ROOF ASSEMBLY BOTH TYPES SCALE: 1"=1'-0"



NOTES:
1) DESIGN BASE ON 2025 CRC SECTION R806.5.5.1.2
2) THE COMBINED R-VALUES SHOULD MEET THE R-VALUE REQUIRED BY THE ENERGY REPORT
3) WHERE AIR-PERMEABLE INSULATION IS PROVIDED INSIDE THE BUILDING THERMAL ENVELOPE, IT SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 5.1.1 IN ADDITION TO THE AIR-PERMEABLE INSULATION INSTALLED DIRECTLY BELOW THE STRUCTURAL SHEATHING, RIGID BOARD OR SHEET INSULATION SHALL BE INSTALLED DIRECTLY ABOVE THE STRUCTURAL ROOF SHEATHING IN ACCORDANCE WITH THE R-VALUES IN TABLE R806.5 FOR CONDENSATION CONTROL.
4) UNLESS OTHERWISE ALLOWED IN SECTION R303.5, FOAM PLASTIC SHALL BE SEPARATED FROM THE INTERIOR OF A BUILDING BY AN APPROVED THERMAL BARRIER OF NOT LESS THAN 1/2-INCH (12.7 MM) GYPSUM WALLBOARD, 23/32-INCH (18.2 MM) WOOD STRUCTURAL PANEL OR A MATERIAL THAT IS TESTED IN ACCORDANCE WITH AND MEETS THE ACCEPTANCE CRITERIA OF BOTH THE TEMPERATURE TRANSMISSION FIRE TEST AND THE INTEGRITY FIRE TEST OF NFPA 275.

4 INSULATION AT UNVENTED ROOF ASSEMBLY-OVER/UNDER SCALE: 1"=1'-0"

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project
County of Orange
Pre-Approved
ADU Program

OWNER NAME:

ADDRESS:

APN:

LEGAL DESCRIPTION:

description
Architectural
Roof Finish
Details

date JANUARY 2026

project no.

drawn by DESIGN PATH STUDIO

sheet no. A5.2

2. CONCRETE FOUNDATION CONSTRUCTION

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

201. CONCRETE SHALL BE 4,500 PSI WITH WATER CEMENT RATIO OF 0.45 AND CEMENT TYPE V UNLESS SOILS REPORT IS PROVIDED AND RECOMMEND OTHERWISE. NO SPECIAL INSPECTION REQUIRED IF CONCRETE TRUCK MIX TICKET IS PROVIDED.

202. SLAB REINFORCEMENT & FOOTINGS SHALL BE PER STRUCTURAL DETAILS CENTERED IN SLAB.

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

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

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 $\frac{5}{8}$" 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 3&4 ON FND DETAIL SHEET 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 ORANGE BUILDING DEPARTMENT 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-3G EPOXY PER MANUFACTURERS INSTALLATION REQUIREMENTS AS FOLLOWS:

MISPLACED HOLDOWN	RETROFIT BOLT	MIN EDGE DISTANCE	REPLACEMENT HD
HDU2	5/8" ALL-THREAD, EMBED 6"	2"	HDU2
HDU4	5/8" ALL-THREAD, EMBED 6"	4.5"	HDU4
HDU5	5/8" ALL-THREAD, EMBED 9"	6"	HDU5
HDU8	7/8" ALL-THREAD, EMBED 9"	6"	HDU8
HDU11	1" ALL-THREAD, EMBED 12"	7"	HDU11

214. RETROFIT $\frac{3}{4}$" & $\frac{5}{8}$" EMBEDDED ANCHOR BOLTS AS NOTED BELOW. AT EPOXY ANCHORS USE SIMPSON SET-XP EPOXY PER SIMPSON'S INSTALLATION REQUIREMENTS.

LOCATION	TYPE	REPLACEMENT
SLAB EDGE, 1 3/4" DIST.	SHEARWALL	$\frac{5}{8}$" ALL-THREAD, EPOXY, EMBED 3" OR $\frac{5}{8}$" TITEN HD, EMBED $5\frac{1}{2}$" MIN.
INTERIOR > 6," EDGE DIST.	SHEARWALL OR NON-SHEAR	$\frac{5}{8}$" TITEN HD, EMBED $5\frac{1}{2}$" MIN.
ANY OTHER	NON-SHEAR	0.145 DIA. SHOT PINS SPACED 4 INCHES APART ON SILL. (2) FOR EACH MISSING ANCHOR BOLT. MAX. OF (6) SHOT PINS 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 ORANGE APPROVAL
   B) THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED & COMPACTED.
   C) THE FOUNDATION EXCAVATIONS, EXPANSIVE CHARACTERISTICS AND BEARING CAPACITY COMPLIES WITH THE COUNTY OF ORANGE 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 $\frac{19}{32}$" OR $\frac{5}{8}$" C-D GRADE, INTERIOR TYPE PLYWOOD WITH EXTERIOR GLUE, OR OSB PANELS. IDENTIFICATION INDEX (24/0) W/ 8D COMMON NAILS @ 6" O/C @ ALL PERIMETER EDGES AND ALL INTERIOR SUPPORTED EDGES AND @ 12" O/C @ ALL INTERMEDIATE SUPPORTS PER AWC NDS. SEE DETAILS FOR SHEAR AND DRAG NAILING.

302. TYPICAL WALL SHEATHING:
INTERIOR SURFACES: WHERE DRYWALL IS SPECIFIED, PROVIDE MIN. $\frac{5}{8}$" GYPSUM WALLBOARD W/ 5D COOLER NAILS OR EQUAL @ 7" O/C TO ALL STUDS AND TO TOP & BOTTOM PLATES (UNBLOCKED) AT INTERIOR SIDE OF EXTERIOR WALLS AND AT BOTH SIDES OF ALL INTERIOR WALLS.

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

303. STRUCTURAL SHEATHING MAY BE EITHER OSB OR PLYWOOD. ANY NOTES REFERRING TO PLYWOOD ALSO APPLIES TO OSB.

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

3. WOOD FRAMING CONSTRUCTION (CONT.)

305. TYPICAL SHEAR TRANSFER:
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.

311. 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	#1 OR BETTER

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:

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.

SEE STRUCTURAL DETAILS 13 & 14 ON DETAIL SHEETS 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.

3. WOOD FRAMING CONSTRUCTION (CONT.)

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:

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

FULL REPORTS FOUND AT: HTTP://WWW.ICC-ES.ORG

400. PLYWOOD AND OSB PANELS:
APA PLYWOOD & OSB--ESR-2586

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

402. 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-3G)--ICC-ES ESR-1772, 4057.
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:
10D $2\frac{1}{2}$" X 0.148" WIRE BARBED NAILS BY CUTLER OR EQUAL

NAIL SIZES

SIZE OF NAIL	STANDARD LENGTH	WIRE GAUGE	SIZE (INCHES)	PENETRATION REQUIRED
BOX NAILS				
6D	2"	12	0.099	1"
8D	2 "	11	0.113	1"
10D	3"	10	0.128	1"
12D	3"	10	0.128	1 "
16D	3 "	10	0.135	1 "
16D SINKER	3"	9	0.148	1 "
COMMON NAILS				
6D	2"	11	0.113	1"
8D	$2\frac{1}{2}$ "	10	0.131	1 "
10D	3"	9	0.148	$1\frac{1}{4}$"
12D	3"	9	0.148	$1\frac{1}{4}$"
16D	3 "	8	0.162	$1\frac{1}{2}$"

C&C PRESSURES

ROOF: GABLE ROOF, PITCH α = 18.3°

$A_{EFFECTIVE}$ =	10 sf	28 sf	30 sf
(-) ZONE 1	-42.0 psf	-39.5 psf	-39.3 psf
(-) ZONE 2	-50.6 psf	-45.5 psf	-45.1 psf
(-) ZONE 3	-87.5 psf	-76.0 psf	-75.2 psf
(+) ALL ZONES	16.5 psf	16.0 psf	16.0 psf

WALLS

$A_{EFFECTIVE}$ =	10 sf	21 sf	48 sf
(-) ZONE 4	-1.28 psf	-34.7 psf	-32.9 psf
(-) ZONE 5	-1.58 psf	-41.6 psf	-38.0 psf
(+) ZONE 4&5	1.00 psf	31.9 psf	30.1 psf

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

BLKNG AT CEILING JOISTS, RAFTERS, OR TRUSSES TO TOP PLATE OR OTHER FRAMING, T.N.	4-8d Box, 3-8d Com, 3-10d box, 3-3" x 0.131" nails, 3-3" 14 gage staples
BLKNG AT CEILING RAFTERS OR TRUSSES NOT AT WALL TOP PLATE TO RAFTER OR TRUSS, T.N.	2-8d Com, 2-3" x 0.131" nails, 2-3" 14 gage staples
BLKNG AT CEILING RAFTERS OR TRUSSES NOT AT WALL TOP PLATE TO RAFTER OR TRUSS, E.N.	2-16d Com, 3-3" x 0.131" nails, 3-3" 14 gage staples
FLAT BLKNG TO TRUSS AND WEB, F.N.	16d Com, 3"x.131" nails, 3"x14 gage staples @ 6" o.c
CEILING JOISTS TO TOP PLATE, T.N.	4-8d box, 3-8d Com, 3-10d box, 3-3"x.131 nails, 3-3" 14 gage staples
CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS, F.N. PER 2308.7.3.1	3-16d Com, 4-10d box, 4-3" x 0.131" nails, 4-3" 14 gage staples
CEILING JOISTS ATTACHED TO PARALLEL RAFTER (HEEL JOINT), F.N. PER 2308.7.3.1	3-16d Com, 4-10d box, 4-3" x 0.131" nails, 4-3" 14 gage staples
COLLAR TIE TO RAFTER, F.N.	3-10d Com, 4-10d box, 4-3"x0.131" nails, 4-3" 14 gage staples
RAFTER/TRUSS TO TOP PLATE, T.N. PER TABLE 2308.7.3.5	3-10d Com, 3-16d or 4-10d box, 4-3" x 0.131" nails, 4-3" 14 gage staples
RAFTERS TO RIDGE VALLEY OR HIP; OR FATER TO 2" RIDGE BEAM	
TOENAIL	4-16d box, 3-10d Com, 3-16d or 4-10d box, 4-3" x 0.131" nails, 4-3" 14 gage staples
ENDNAIL	2-16d Com, 3-16d box, 3-10d box, 3-3" x 0.131" nails, 3-3" 14 gage staples
STUD TO STUD (NOT AT BRACED WALL PANELS)	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 AT INTERSECTING WALL CORNERS (BRACED WALL)	16d Com @ 16" o.c. FN OR 16d Box, 3" x 0.131" nails, 3-3" 14 gage staples @ 12" o.c. FN
BUILT-UP HEADER (2" TO 2"), FN EA. EDGE	16d Com @ 16" o.c OR 16d Box @ 12" o.c.
CONT. HEADER TO STUD, T.N.	4-8d Com, 4-10d Box, 5-8d box
TOP PLATE TO TOP PLATE	16d Com @ 16" o.c. FN OR 10d Box, 3" x 0.131" nails, 3" 14 gage staples @ 12 o.c. FN
TOP PLATE TO TOP PLATE, AT END JOINTS (EACH SIDE OF END JOINT), FACENAIL 24" MIN LAP SPLICE EA. SIDE	8-16d Com, 12-16d Box, 12-10d Box, 12-3" x 0.131" nails, 12-3" 14 gage staples
BOTTOM PLATE TO JOIST, RIM, OR BLKG, FACENAIL	
UNBRACED WALL: 16" o.c. FN	16d Com
UNBRACED WALL: 12" o.c. FN	16d Box, 3" x 0.131" nails, 3" 14 gage staples
BRACED WALL: 16"o.c. FN	2-16d Com, 3-16d Box,4-3"x.131" nails,4-3" 14 gage staples
STUD TO TOP OR BOTTOM PLATE	
TOENAIL	4-8d Box, 4x10d Box, 4-8d Com, 3-16d Box, 4-3"x0.131" nails, 4-3" 14 gage staples
ENDNAIL	3-16d Box, 2-16d Com, 3-10d Box, 3-3"x0.131" nails, 3-3" 14 gage staples
TOP PLATES, LAPS AT CORNERS AND INTERSECTION, F.N.	2-16d Com, 3-10d box, 3-3" x 0.131" nails, 3-3" 14 gage staples
1" BRACE TO EACH STUD AND PLATE, F.N.	3-8d Box, 2-8d Com, 2-10d Box, 2-3" x 0.131" nails, 2-3" 14 gage staples
1"x6" SHEATHING TO EACH BEARING, F.N.	3-8d Box, 2-1.75" 16 Gage staples, 2-8d Com, 2-10d Box
1"x8" SHEATHING AND WIDER TO EACH BEARING, F.N.	4-8d box, 4-1.75" 16 Gage staples, 3-8d Com, 3-10d Box
JOIST TO SILL, TOP PLATE, OR GIRDER, T.N.	4-8d box, 3-8d Com, 3-10d Box, 3-3" x 0.131" nails, 3-3" 14 gage staples
RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER	8d Box @ 4" o.c. TN OR 8d Com, 10d Box, 3" x 0.131" nails, 3" 14 gage staples @ 6" o.c. TN
1"x6" SUBFLOOR OR LESS TO EACH JOIST, F.N.	2-1.75" Gage Staples, 2-8d Com, 3-10d Box
2" SUBFLOOR TO JOIST OR GIRDER, F.N. or BLIND	3-16d Box, 2-16d Com
2" PLANKS (PLANK & BEAM - FLOOR & ROOF), FACENAIL & EACH BEARING	3-16d Box, 2-16d Com
BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	
32" o.c. FN Top & BTTM STAGGERED ON OPPOSITE SIDES	20d Com
24" o.c. FN Top & BTTM	10d Box, 3"x0.131" nails, 3" 14 gage staples
ENDS & SPLICES, FN	2-20d Com, 3-10d Box, 3-3"x0.131" nails, 3-3" 14 gage staples
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	3-16d Com, 4-10d Box, 4-3"X0.131, 4-3" 14ga. STAPLES
BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS EACH END, T.N.	2-8d Com, 2-10d box, 2-3" x 0.131" nails, 2-3" 14 gage staples

WOOD STRUCT. PANELS, SUBFLOOR, ROOF AND INTERIOR WALL SHTNG TO FRMG AND PARTICLEBOARD WALL SHEATHING TO FRAMING		EDGES (IN)	INTERMEDIATE SUPPORTS (IN)
$\frac{3}{8}$"-$\frac{1}{2}$"	16d Com or deformed; or $2\frac{3}{8}$"x.113" nail (subfloor and wall)	6	12
	8d Com or deformed (roof) or $2\frac{3}{8}$" x.113" nail (roof)	6^{e}	6^{e}
	$1\frac{3}{4}$" 16 Ga Staple, $\frac{7}{16}$" crown (subfloor and wall)	4	8
	$2\frac{3}{8}$" x.113"x.266" head nail (roof)	3^{f}	3^{f}
	$1\frac{3}{4}$" 16 Ga Staple, $\frac{7}{16}$" crown (roof)	3^{f}	3^{f}
$\frac{19}{32}$"-$\frac{3}{4}$"	8d Com or deformed (subfloor and wall)	6	12
	8d Com or deformed (roof) or $2\frac{3}{8}$" x.113" nail (roof)[d]	6^{e}	6^{e}
	$2\frac{3}{8}$" x.113"x.266" head nail, 2"16 Gage staple, $\frac{7}{16}$" crown	4	8
$\frac{7}{8}$"-$1\frac{1}{4}$"	10d Com or (3"x0.148"); or deformed ($2\frac{1}{2}$ x.131"x.281 head)	6	12
OTHER EXTERIOR WALL SHEATHING (FIBERBOARD)			
$\frac{1}{2}$"[b]	$1\frac{1}{2}$" 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	3	6
$\frac{25}{32}$"[b]	$1\frac{3}{4}$" 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	3	6
WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING			
$\frac{3}{4}$" & LESS	8d COMMON ($2\frac{1}{2}$"x0.131"); or deformed (2"x0.113"); or deformed (2"x0.120")	6	12
$\frac{7}{8}$"-1"	8d COMMON ($2\frac{1}{2}$"x0.131"); or deformed (2"x0.113"); or deformed (2"x0.120")	6	12
$1\frac{1}{8}$"-$1\frac{1}{4}$"	10d COMMON (3"x0.148"); or deformed ($2\frac{1}{2}$"x0.131"); or deformed ($2\frac{1}{2}$"x0.120")	6	12
PANEL SIDING TO FRAMING			
$\frac{1}{2}$" & LESS	6d corrosion-resistant siding ($1\frac{7}{8}$"x.106"); or 6d corrosion-resistant (2"x.099")	6	12
$\frac{5}{8}$"	8d corrosion-resistant siding ($2\frac{3}{8}$"x0.128"); or 8d corrosion-resistant casing ($2\frac{1}{2}$"x0.113")	6	12
INTERIOR PANELING			
$\frac{1}{4}$"	4d casing ($1\frac{1}{2}$"x0.080"); or 4d finish ($1\frac{1}{2}$"x0.072")	6	12
$\frac{3}{8}$"	6d casing (2"x0.099"); or 6d finish (2"x.092") - (Panel supports at 24 inches)	6	12

FOOTNOTES:

a. Nails spaced at 6 inches at intermediate supports where spans are 48 inches or more. For nailing of wood structural panel and particleboard diaphragms and shear walls, refer to Section 2305. Nails 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 center at intermediate supports for nonstructural applications. Panel supports at 16 inches (20 inches if strength axis in the long direction of the panel, unless otherwise marked).
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 rafter shall be permitted to be reduced by one nail.
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 wind speed is less than 140 mph. For wood structural panel roof sheathing attached to gable-end roof framing and to intermediate 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 greater than 130 mph in Exposure B or greater than 110 mph in Exposure C. Spacing exceeding 6 inches on center at intermediate supports shall be permitted where the fastening is designed per the AWC NDS. Where the specific gravity of the wood species used for roof framing is greater than or equal to 0.35 but less than 0.42 in accordance with AWC NDS, fastening of roof sheathing shall be with RSRS-03 (21/2" × 0.131" × 0.281" head) nails unless alternative fastening is designed in accordance with AWC NDS. Where the specific gravity of the wood species used for roof framing is less than 0.35, fastening of the roof sheathing shall be designed in accordance with AWC NDS.
f. Fastening is only permitted where the ultimate design wind speed is less than or equal to 110 mph and where fastening is to wood framing of a species with specific gravity greater than or equal to 0.42 in accordance with AWC NDS.
g. Nails and staples are carbon steel meeting the specifications of ASTM F1667. Connections using nails and staples of other materials, such as stainless steel, shall be designed by acceptable engineering practice or approved under Section 104.2.3.

7. DESIGN CRITERIA

700. BUILDING CODE: 2025 CALIFORNIA BUILDING CODE AND 2025 CALIFORNIA RESIDENTIAL CODE.

701. SEISMIC DESIGN CRITERIA:

SOIL BEARING VALUE	1,500 psf
SITE CLASS	CD
SEISMIC DESIGN CATEGORY	D
RISK CATEGORY	II
SEISMIC IMPORTANCE FACTOR	1

Ss: 2.110 Sds: 1.493 Cs: 0.209W
S1: 0.690 Sd1: 0.867 R: 6.5

BASIC SEISMIC FORCE RESISTING SYSTEM:BEARING WALL ANALYSIS METHOD: EQUIVALENT LATERAL FORCE PROCEDURE SEE STRUCTURAL CALCULATIONS FOR DESIGN BASE SHEAR, Cs, & R FACTORS.

702. WIND DESIGN CRITERIA :

WIND SPEED (V-ult)	123 mph
RISK CATEGORY	II
EXPOSURE	C

703. DESIGN LOADING (WORST CASE LOADING):

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

8. STATEMENT OF SPECIAL INSPECTIONS

800. RETROFIT ANCHOR BOLTS FOR MISPLACED HOLDOWNS WITH ALL-THREAD ROD AND SIMPSON SET-3G EPOXY REQUIRE SPECIAL INSPECTION. (NO SPECIAL INSPECTION IS REQUIRED FOR RETROFIT ANCHOR BOLTS OR TITEN HD's WITHOUT A HOLDOWN ATTACHED, PER TABLE 1705.3(4))

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

802. PER CBC 1705.13, EXCEPTION 3, SPECIAL INSPECTION IS NOT REQUIRED FOR SEISMIC COMPONENTS FOR DETACHED ONE- AND TWO-FAMILY DWELLINGS NOT EXCEEDING 2 STORIES ABOVE GRADE AND HAVE NO HORIZONTAL OR VERTICAL IRREGULARITIES.

9. SOILS REPORT

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

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

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project
County of Orange
Pre-Approved
ADU Program

OWNER NAME:
ADDRESS:
APN:
LEGAL DESCRIPTION:

description
Structural Notes & Specifications

date JANUARY 2026
project no.
drawn by DESIGN PATH STUDIO
sheet no. S1

FOR USE IN COUNTY OF ORANGE

liquefaction zone:	
X	SELECTION
	PROJECT IS NOT LOCATED IN LIQUEFACTION ZONE
	PROJECT IS LOCATED IN LIQUEFACTION ZONE
	CHECK BOXES TO BE COMPLETED BY COUNTY OF ORANGE DURING REVIEW

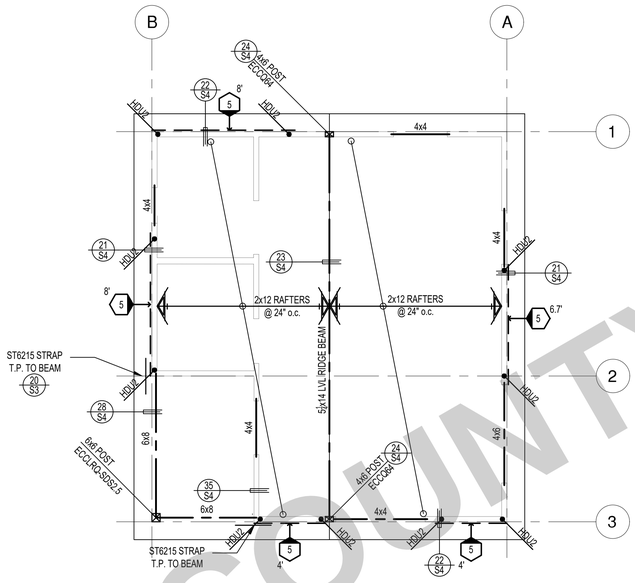
ALLOWABLE HOLD DOWN SUBSTITUTION

TABLE BELOW PROVIDES ALLOWABLE SIMPSON HDUE HARDWARE IN LIEU OF SIMPSON HDU'S. NEW HDUE PROVIDE INCREASED ALLOWABLE LOADS AT A REDUCED COST. SEE SIMPSON ESR-2330 FOR MIN. SCREWS AND INSTALLATION REQUIREMENTS.

EXISTING HDU HOLDOWN	NEW HDUE HOLDOWN
HDU2	HDUE3
HDU4	HDUE5
HDU5	HDUE7
HDU8	HDUE9
HDU11	HDUE13
HDU14	HDUE17

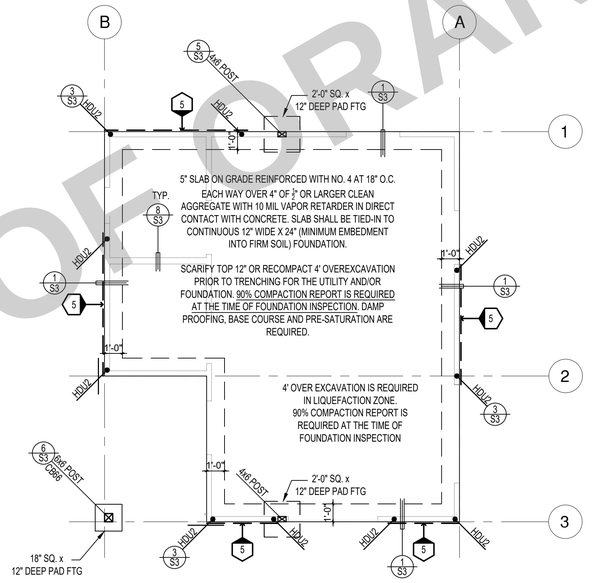
FOUNDATION NOTES

1. ALL ANCHOR BOLTS, HOLDOWN ANCHORS, & REINF. MUST BE SECURELY TIED IN PLACE PRIOR TO FDTN. INSP.
2. ALL EXTERIOR STUDS TO BE 2x4 @ 16" O.C.
3. THE MINIMUM NOMINAL ANCHORBOLT DIAMETER SHALL BE 1/2 INCH NOTE: THIS WILL REQUIRE A MINIMUM DISTANCE FROM THE ENDS OF SILL PLATES TO BE 4" (AND A MAXIMUM OF 12")
4. 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 SHT S3 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.
9. BOTTOM OF THE FOOTINGS SHALL BE CERTIFIED BY GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCEMENT BARS



ROOF FRAMING PLAN

1/4"=1'-0" RANCH



FOUNDATION PLAN

1/4"=1'-0" RANCH

SHEAR WALL SCHEDULE (ASD VALUES)

	4	5	6	7	8	9
SHEARWALL DESCRIPTION (See footnotes 1& 4)	⅜" ply. C-D or C-C sheathing, (1) side w/ 8d @ 6" o/c edge, 12" o/c field, blocked (See footnote 3)	⅜" ply. C-D or C-C sheathing, (1) side w/ 8d @ 4" o/c edge, 12" o/c field, blocked (See footnote 3)	⅜" 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)	⅜" rated STRUCT 1 panel, (1) side w/ 8d @ 3" o/c edge, 12" o/c field 3x abutting panel studs blocked (See footnote 3 & 4)	15/32" rated STRUCT 1 panel, (1) side w/ 10d @ 3" o/c edge, 12" o/c field 3x abutting panel studs blocked (See footnote 3, 4, & 5)	15/32" rated STRUCT 1 panel, (1) side w/ 10d @ 2" o/c edge, 12" o/c field 3x abutting panel studs blocked (See footnote 3, 4, & 5)
SHEAR VALUE (PLF)	260*	375*	490*	550*	665*	870*
ANCHOR BOLT SPACING	⅝" @ 48" or ½" @ 32"	⅝" @ 32" or ½" @ 24"	⅝" @ 24" or ½" @ 16"	⅝" @ 24" or ½" @ 16"	⅝" @ 16" or ½" @ 12"	⅝" @ 12" or ½" @ 8"
16d (0.148") SILL NAILING	6"	4"	3½"	3"	¼"x4½" SDS screws @ 8"	¼"x4½" SDS screws @ 8"
SPACING OF A35/LTP4 FRAMING TO TOP PLATE	32" O.C.	18" O.C.	12" O.C.	12" O.C.	8" O.C.	8" O.C.

LEGEND

- X" — SHEARWALL & A.B. SPACING PER SCHEDULE
- BOLT TYPE HOLDOWN
- BEARING OR EXTENT OF RAFTERS
- HANGER TO BEAM/LEDGER
- BEARING OR EXTENT OF JOISTS

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

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 ⅜" 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 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. AT SECOND FLOOR CONDITIONS, PROVIDE ADEQUATE RIM OR BLOCKING TO PREVENT SPLITTING.

(*) ALLOWABLE SHEAR VALUES FOR PLYWOOD SHEARWALLS MAY BE INCREASED BY 40% UNDER WIND LOADING.

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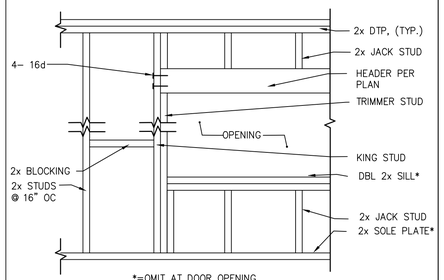
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project
County of Orange Pre-Approved ADU Program

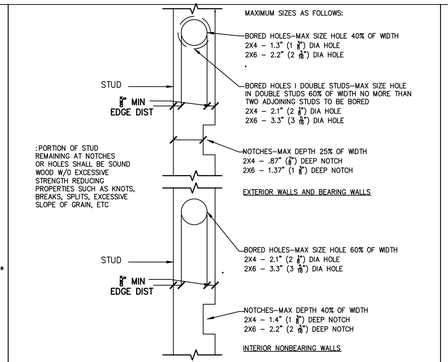
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APN:
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Ranch Foundation & Framing Plan

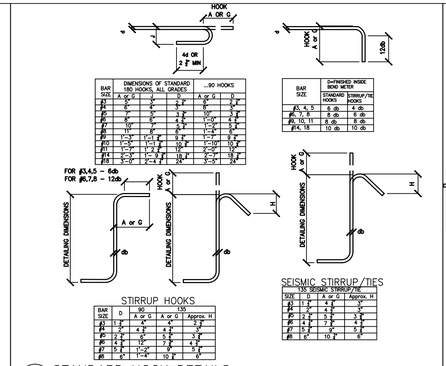
date JANUARY 2026
project no.
drawn by DESIGN PATH STUDIO
sheet no. S2



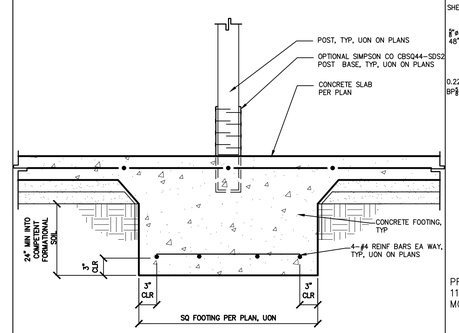
17 FRAMING FOR ROUGH WINDOW OR DOOR OPENING



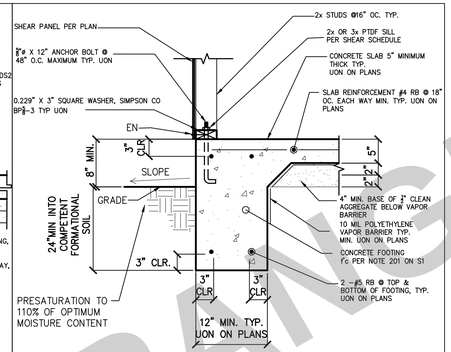
13 STUD CUTTING, BORING AND NOTCHING



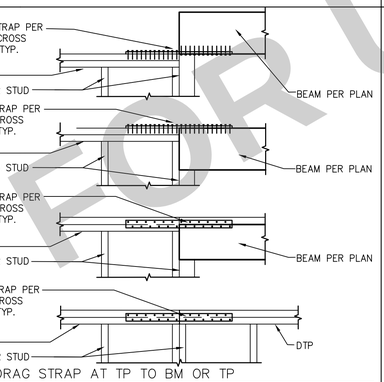
9 STANDARD HOOK DETAILS



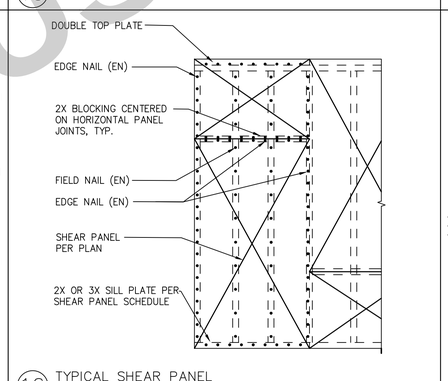
5 POST FOOTING WITH SLAB



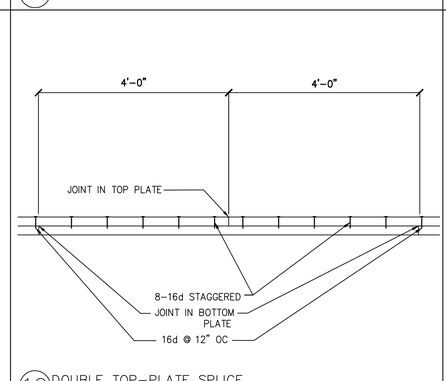
1 EXTERIOR FOOTING, TYPICAL



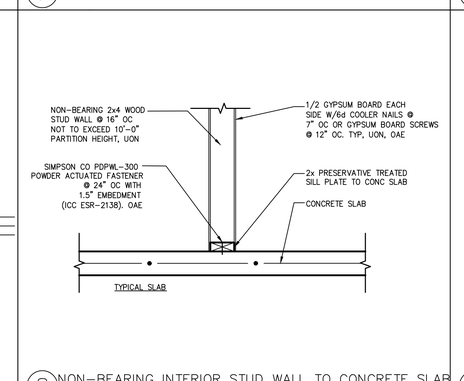
18 SUPPORT COLUMN TO BEAM



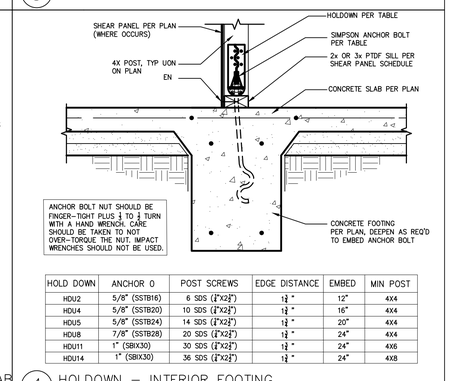
14 JOIST CUTTING, BORING AND NOTCHING



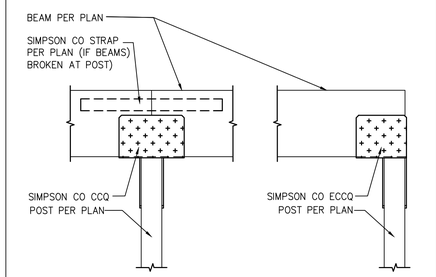
10 STUD WALL INTERSECTION



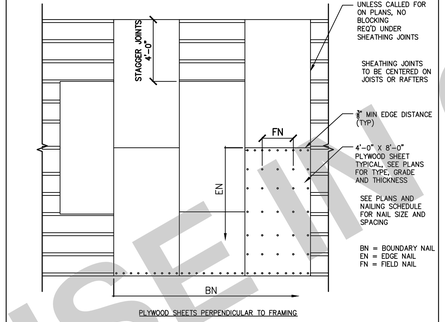
6 TYPICAL POST FOOTING



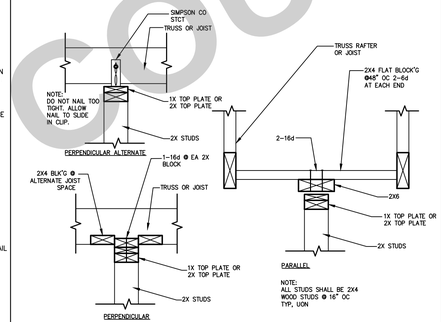
2 SLAB ON GRADE ONE STORY INTERIOR FOOTING



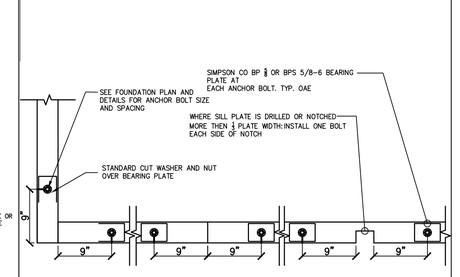
19 POST TO BEAM WITH CCQ/ECCQ



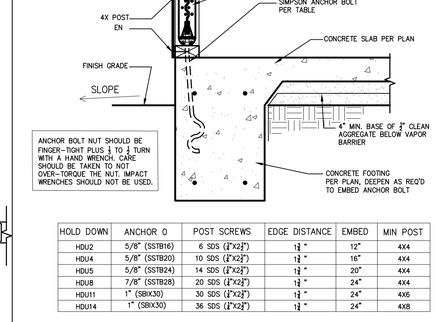
15 WOOD ROOF AND FLOOR SHEATHING LAYOUT



11 NON–BEARING/NON–SHEAR PARTITIONS AT TOP PLATE



7 SILL PLATE ANCHOR BOLTING



HOLD DOWN	ANCHOR Ø	POST SCREWS	EDGE DISTANCE	EMBED	MIN POST
HDU2	5/8" (SSTB16)	6 SDS (¼"x2½")	1¾"	12"	4X4
HDU4	5/8" (SSTB20)	10 SDS (¼"x2½")	1¾"	16"	4X4
HDU5	5/8" (SSTB24)	14 SDS (¼"x2½")	1¾"	20"	4X4
HDU8	7/8" (SSTB28)	20 SDS (¼"x2½")	1¾"	24"	4X4
HDU11	1" (SBIX30)	30 SDS (¼"x2½")	1¾"	24"	4X6
HDU14	1" (SBIX30)	36 SDS (¼"x2½")	1¾"	24"	4X8

3 HOLDOWN – PERIMETER FOOTING

20 DRAG STRAP AT TP TO BM OR TP

16 TYPICAL SHEAR PANEL

12 DOUBLE TOP–PLATE SPLICE

8 NON–BEARING INTERIOR STUD WALL TO CONCRETE SLAB

HOLD DOWN	ANCHOR Ø	POST SCREWS	EDGE DISTANCE	EMBED	MIN POST
HDU2	5/8" (SSTB16)	6 SDS (¼"x2½")	1¾"	12"	4X4
HDU4	5/8" (SSTB20)	10 SDS (¼"x2½")	1¾"	16"	4X4
HDU5	5/8" (SSTB24)	14 SDS (¼"x2½")	1¾"	20"	4X4
HDU8	7/8" (SSTB28)	20 SDS (¼"x2½")	1¾"	24"	4X4
HDU11	1" (SBIX30)	30 SDS (¼"x2½")	1¾"	24"	4X6
HDU14	1" (SBIX30)	36 SDS (¼"x2½")	1¾"	24"	4X8

4 HOLDOWN – INTERIOR FOOTING

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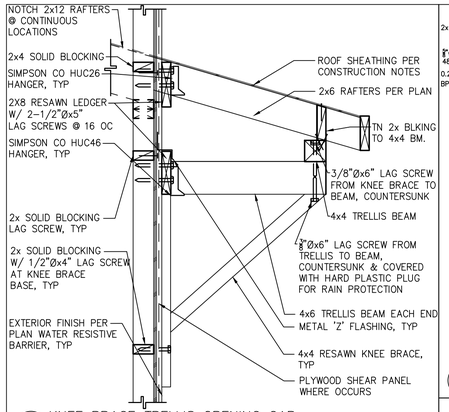
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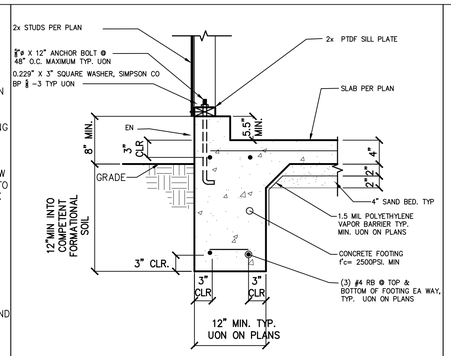
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Structural
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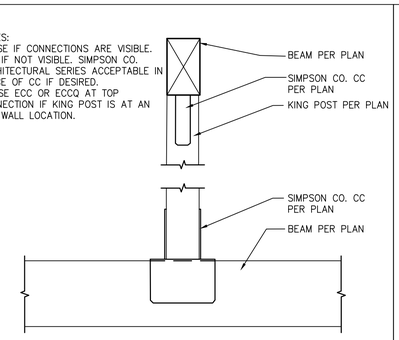
date JANUARY 2026
project no.
drawn by DESIGN PATH STUDIO
sheet no. S3



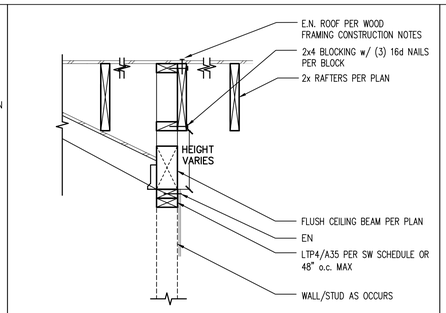
37 KNEE BRACE TRELLIS OPENING CAP



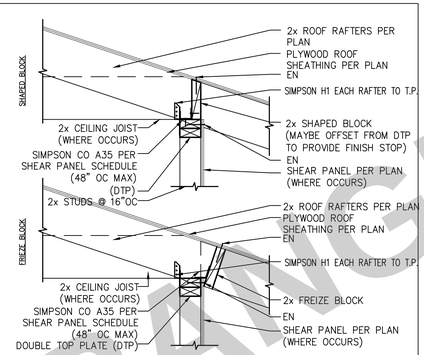
33 EXTERIOR WALL AT PORCH FOOTING



29 KING POST

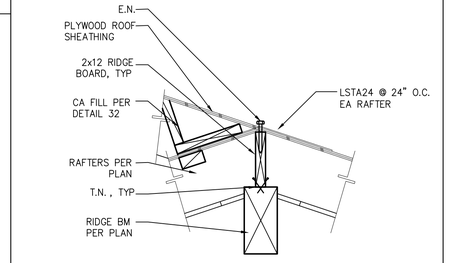


25 ROOF TRANSITION @ WALL/BEAM

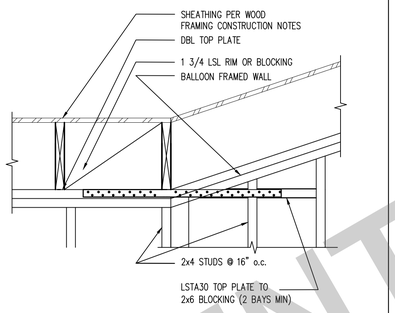


21 SHEAR TRANSFER AT EAVE

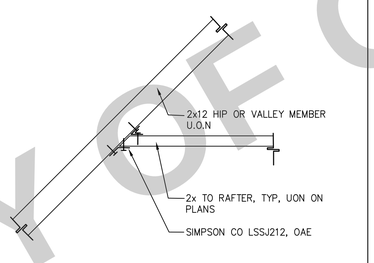
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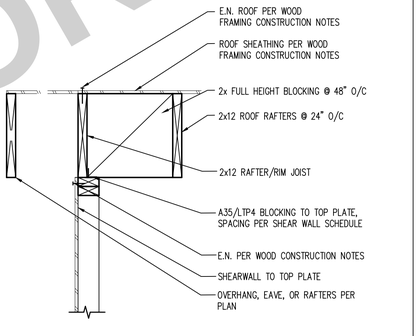
34 RIDGE CONNECTION AT ROOF TRANSITION



30 STRAP AT TOP PLATE SPLICE

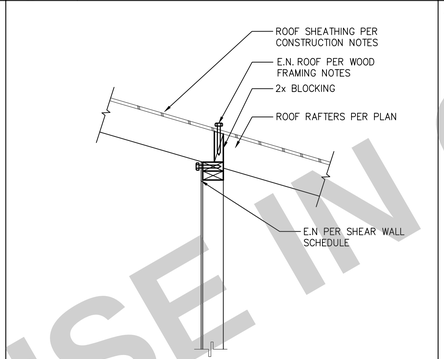


26 RAFTER TO HIP OR VALLEY

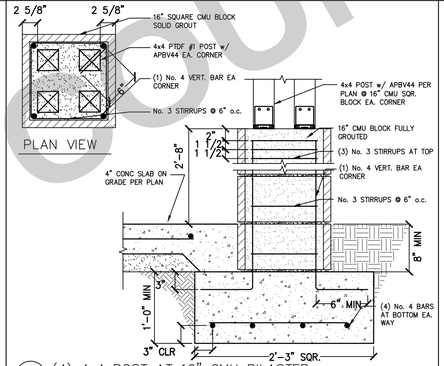


22 PARALLEL RAFTERS AT SHEAR WALL

39

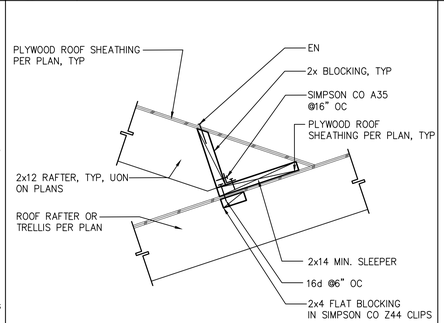


35 INTERMEDIATE BEARING WALL CONNECTION



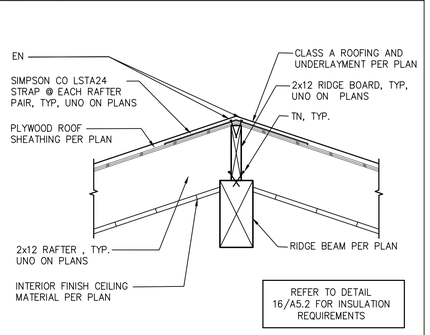
31 (4) 4x4 POST AT 16" CMU PILASTER

27



CALIFORNIA ROOF FILL CONNECTION

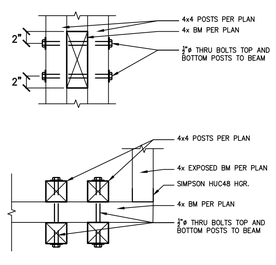
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RAFTER AT RIDGE BOARD OVER RIDGE BEAM

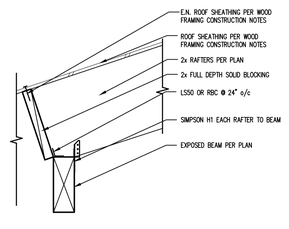
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36



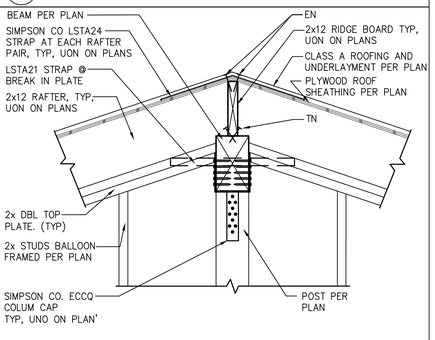
32 4x BEAM AT (4) 4x4 POST CONNECTION

28



RAFTERS @ EXPOSED BEAM

24



RIDGE BOARD & BEAM AT WALL POST W/ HARDWARE

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ADDRESS:

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LEGAL DESCRIPTION:

description
Structural
Details

date JANUARY 2026

project no.

drawn by DESIGN PATH STUDIO

sheet no. S4

BUILDING ENERGY ANALYSIS REPORT

PROJECT:
Studio - Pre Approved ADU - 2025

Orange County, CA

Project Designer:
Design Path Studio

Encinitas, CA 92024

Report Prepared by:

Design Path Studio

,

Job Number:

Date:
4/4/2026

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 2025 California Energy Code.

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

GENERAL INFORMATION					
01	**Project Name**	Residential Building			
02	**Run Title**	Title 24 Analysis			
03	**Project Location**				
04	**City**	Orange County	05	**Standards Version**	2025
06	**Zip code**		07	**Software Version**	EnergyPro 10.0
08	**Climate Zone**	8	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**	0
14	**Addition Cond. Floor Area (ft²)**	0	15	**Number of Stories**	1
16	**Existing Cond. Floor Area (ft²)**	n/a	17	**Fenestration Average U-factor**	0.3
18	**Total Cond. Floor Area (ft²)**	384.64	19	**Glazing Percentage (%)**	13.26%
20	**ADU Bedroom Count**	n/a	21	**ADU Conditioned Floor Area**	n/a
22	**Fuel Type**	Natural gas	23	**No Dwelling Unit:**	No

COMPLIANCE RESULTS
Building Complies with Computer Performance
This building incorporates features that require field testing and/or verification by a certified ECC rater under the supervision of a CEC-approved ECC provider.
This building incorporates one or more Special Features shown below

REQUIRED SPECIAL FEATURES
The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.
• Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed
• One or more heat pump water heaters have been modeled as demand response compatible

ECC FEATURE SUMMARY
The following is a summary of the features that must be field-verified by a certified ECC 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 ECC Registry.
• Quality insulation installation (QII)
• Indoor air quality ventilation
• Kitchen range hood
• Verified Refrigerant Charge
• Verified HSPF2
• Verified heat pump rated heating capacity

Compliance Summary	Long Term System Cost (LSC)[1]		Source Energy Use	Peak Cooling**
	Efficiency[2] ($/ft²-yr)	Total[3] ($/ft²-yr)	Total[3] (kBtu/ft²-yr)	Electricity (kWh)
Standard Design	20.54	44.85	32.5	168
Proposed Design				
NORTH	17.61	43.77	17.75	105
EAST	17.7	43.7	17.72	113
SOUTH	17.44	43.54	17.64	111
WEST	17.57	43.73	17.71	112
Compliance Margins				
NORTH	2.93	1.06	14.75	63
EAST	2.84	1.15	14.78	55
SOUTH	3.1	1.31	14.86	57
WEST	2.97	1.12	14.79	56
RESULT*: Complies				

[1]Long-term System Cost (LSC) is a 30-year present value cost to California's energy system. LSC is not a predicted utility bill.
[2]Efficiency measures include energy efficient improvements such as better building envelope and more efficient mechanical equipment
[3]Total includes the sum of efficiency measures, solar photovoltaic (PV) measures and battery storage measures
* Building complies when Proposed Design is equal to or less than Standard Design in all applicable compliance categories
** Peak cooling target represents 120% of the standard design building peak cooling energy use.

PV System resized to 1.60 kWdc (a factor of 1.595) to achieve 'Standard Design PV' PV scaling
Proposed PV Capacity Scaling: North (1.60 kWdc) East (1.60 kWdc) South (1.60 kWdc) West (1.60 kWdc)
Standard Design PV Capacity: 1.60 kWdc

LSC AND SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS						
Energy Use	**Standard Design Source Energy (kBtu/ft²-yr)**	**Standard Design LSC[1] ($/ft²-yr)**	**Proposed Design Source Energy (kBtu/ft²-yr)**	**Proposed Design LSC[1] ($/ft²-yr)**	**Compliance Margin Source (kBtu/ft²-yr)**	**Compliance Margin LSC[1] ($/ft²-yr)**
Space Heating	0.22	0.47	1.6	3.79	-1.38	-3.32
Space Cooling	0.94	7.04	0.55	3.51	0.39	3.53
IAQ Ventilation	0.36	1.42	0.36	1.42	0	0
Water Heating	17.98	11.61	2.33	8.89	15.65	2.72
Self Utilization/Flexibility Credit			0	0	0	0
North Facing Efficiency Compliance Total	**19.5**	**20.54**	**4.84**	**17.61**	**14.66**	**2.93**
Space Heating	0.22	0.47	1.55	3.66	-1.33	-3.19
Space Cooling	0.94	7.04	0.57	3.73	0.37	3.31
IAQ Ventilation	0.36	1.42	0.36	1.42	0	0
Water Heating	17.98	11.61	2.33	8.89	15.65	2.72
Self Utilization/Flexibility Credit			0	0	0	0
East Facing Efficiency Compliance Total	**19.5**	**20.54**	**4.81**	**17.7**	**14.69**	**2.84**

LSC AND SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS						
Energy Use	**Standard Design Source Energy (kBtu/ft²-yr)**	**Standard Design LSC[1] ($/ft²-yr)**	**Proposed Design Source Energy (kBtu/ft²-yr)**	**Proposed Design LSC[1] ($/ft²-yr)**	**Compliance Margin Source (kBtu/ft²-yr)**	**Compliance Margin LSC[1] ($/ft²-yr)**
Space Heating	0.22	0.47	1.45	3.4	-1.23	-2.93
Space Cooling	0.94	7.04	0.59	3.74	0.35	3.3
IAQ Ventilation	0.36	1.42	0.36	1.42	0	0
Water Heating	17.98	11.61	2.33	8.88	15.65	2.73
Self Utilization/Flexibility Credit			0	0	0	0
South Facing Efficiency Compliance Total	**19.5**	**20.54**	**4.73**	**17.44**	**14.77**	**3.1**
Space Heating	0.22	0.47	1.51	3.54	-1.29	-3.07
Space Cooling	0.94	7.04	0.6	3.73	0.34	3.31
IAQ Ventilation	0.36	1.42	0.36	1.42	0	0
Water Heating	17.98	11.61	2.33	8.88	15.65	2.73
Self Utilization/Flexibility Credit			0	0	0	0
West Facing Efficiency Compliance Total	**19.5**	**20.54**	**4.8**	**17.57**	**14.7**	**2.97**

ENERGY USE INTENSITY				
	Standard Design (kBtu/ft² - yr)	Proposed Design (kBtu/ft² - yr)	Margin (kBtu/ft² - yr)	Margin Percentage
North Facing				
Gross EUI[1]	35.95	34.09	1.86	5.17
Net EUI[2]	13.01	11.15	1.86	14.3
East Facing				
Gross EUI[1]	35.95	34.2	1.75	4.87
Net EUI[2]	13.01	11.26	1.75	13.45
South Facing				
Gross EUI[1]	35.95	34.05	1.9	5.29
Net EUI[2]	13.01	11.11	1.9	14.6
West Facing				
Gross EUI[1]	35.95	34.07	1.88	5.23
Net EUI[2]	13.01	11.13	1.88	14.45

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

REQUIRED PV SYSTEMS											
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 (%)**
1.6	NA	Standard (14-17%)	Fixed	none	true	150-270	n/a	n/a	<=7:12	96	98

BUILDING - FEATURES INFORMATION						
01	02	03	04	05	06	07
Project Name	**Conditioned Floor Area (ft²)**	**Number of Dwelling Units**	**Number of Bedrooms**	**Number of Zones**	**Number of Ventilation Cooling Systems**	**Number of Water Heating Systems**
Residential Building	384.64	1	0	1	0	1

ZONE INFORMATION						
01	02	03	04	05	06	07
Zone Name	**Zone Type**	**HVAC System Name**	**Zone Floor Area (ft²)**	**Avg. Ceiling Height**	**Water Heating System 1**	**Status**
Zone 1	Conditioned	Ductless Minisplit	384.64	8	DHW Sys 1	New

OPAQUE SURFACES SUMMARY							
01	02	03	04	05	06	07	08
Name	**Zone**	**Construction**	**Azimuth**	**Orientation**	**Gross Area (ft²)**	**Window and Door Area (ft2)**	**Tilt (deg)**
Front Wall	Zone 1	R-15 Wall	0	Front	175	24	90
Left Wall	Zone 1	R-15 Wall	90	Left	195	9	90
Rear Wall	Zone 1	R-15 Wall	180	Back	175	23	90
Right Wall	Zone 1	R-15 Wall	270	Right	195	15	90

OPAQUE SURFACES - CATHEDRAL CEILINGS									
01	02	03	04	05	06	07	08	09	10
Name	**Zone**	**Construction**	**Azimuth**	**Orientation**	**Area (ft²)**	**Skylight Area (ft²)**	**Roof Rise (x in 12)**	**CRRC Rated Roof Reflectance**	**CRRC Rated Roof Emittance**
Roof	Zone 1	R-30 Roof No Attic	0	Front	393	0	4	0.1	0.85

FENESTRATION / GLAZING									
01	02	03	04	05	06	07	08	09	10
Name	**Type**	**Surface**	**Orientation**	**Azimuth**	**Mult.**	**Area (ft²)**	**U-factor**	**SHGC**	**Rating Source**
Window	Window	Front Wall	Front	0	1	4	0.3	0.23	NFRC
Window 2	Window	Left Wall	Left	90	1	9	0.3	0.23	NFRC
Window 3	Window	Rear Wall	Back	180	1	12	0.3	0.23	NFRC
Window 4	Window	Rear Wall	Back	180	1	11	0.3	0.23	NFRC
Window 5	Window	Right Wall	Right	270	1	15	0.3	0.23	NFRC
Total North Facing Fenestration						4			
Total East Facing Fenestration						9			
Total South Facing Fenestration						23			
Total West Facing Fenestration						15			

OPAQUE DOORS				
01	02	03	04	05
Name	**Side of Building**	**Area (ft²)**	**U-factor**	**NFRC Rating Req.**
Door	Front Wall	20	0.5	No

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Example
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Calculations

date JANUARY 2026

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SLAB FLOORS

01	02	03	04	05	06	07
Name	Zone	Area (ft^2)	Perimeter (ft)	Edge Insul. R-value	Edge Insul. Depth	Heated
Slab-on-Grade	Zone 1	393	0.1	none	0	No

OPAQUE SURFACE CONSTRUCTIONS

01	02	03	04	05	06	07	08	09
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers	Non-Std Spray Foam
R-15 Wall	Exterior Walls	Wood Framed Wall	2x4 @ 16 in. O. C.	R-15	None / None	0.095	Inside Finish: Gypsum Board Cavity / Frame: R-15 / 2x4 Exterior Finish: 3 Coat Stucco	☐
R-30 Roof No Attic	Cathedral Ceilings	Wood Framed Ceiling	2x12 @ 16 in. O. C.	R-30	None / None	0.034	Roofing: 10 PSF (RoofTileAirGap) Tile Gap: present Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: R-30 / 2x12 Inside Finish: Gypsum Board	☐

WATER HEATING SYSTEMS

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

WATER HEATERS - HEAT PUMP

01	02	03	04	05	06	07	08	09	10
Name	# of Units	Tank Vol. (gal)	NEEA Heat Pump Brand	NEEA Heat Pump Model	Tank Location	Duct Inlet Air Source	Duct Outlet Air Source	UEF	JA13 Compliant
DHW Heater 1	1	40	Rheem	PROPH40 T2 RH37530 (40 gal, JA13)	Outside	Zone 1	Zone 1	n/a	☒

HVAC - HEAT PUMPS

01	02	03	04	05	06	06b	07	08	09	10	11	12	13
			Heating					Cooling					
Name	System Type	Number of Units	Heating Efficiency Type	HSPF/HSPF2 /COP	Cap 47	Cap 17	Backup	Cooling Efficiency Type	SEER/SEER2	EER/EER2/CEER	Airflow Target	Fan Power (Watts/CFM)	Variable Speed
Heat Pump System 1	Ductless MiniSplit HP	1	HSPF2	8.2	12800	7950	Electric	EER2/SEER2	14	11.7	0	0	☐

INDOOR AIR QUALITY (IAQ) FANS

01	02	03	04	05	06	07	08
Dwelling Unit	Airflow (CFM)	Fan Efficacy (W/CFM)	IAQ Fan Type	Includes Heat/Energy Recovery?	IAQ Recovery Effectiveness - ASRE	Includes Fault Indicator Display?	Status
SFam IAQVentRpt	26	0.35	Exhaust	No	n/a / n/a	No	

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Documentation Author Signature:
Company: Design Path Studio	Signature Date: 4/4/2026
Address:	CEA/AEA/ECC Certification Identification (if applicable):
City/State/Zip: ,	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building and shall be made available to the enforcement agency for all applicable inspections. I will take the necessary steps to fulfill this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy. I will take the necessary steps to fulfill this requirement.

Responsible Designer Name: Design Path Studio	Responsible Designer Signature:
Company: Design Path Studio	Date Signed:
Address:	License:
City/State/Zip: Encinitas, CA 92024	Phone:

2025 Single-Family Residential Mandatory Requirements Summary

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

Space Conditioning, Water Heating, and Plumbing System:

§ 110.0-110.3:	**Certification.** Heating, ventilation, and air conditioning (HVAC) equipment, water heaters, and all other regulated appliances must be certified by the manufacturer to the California Energy Commission.
§ 110.2(a):	**HVAC Efficiency.** Equipment must meet the applicable efficiency requirements in Tables 110.2-A through -L. *
§ 110.2(b):	**Controls for Heat Pumps with Supplementary Heaters.** Heat pumps with supplementary heaters must have control requirements as specified in § 150.0(h)7 and § 150.0(i)2. *
§ 110.2(c):	**Thermostats.** All heating or cooling systems not controlled by a central energy management control system (EMCS) must have a setback thermostat. *
§ 110.3(c)3:	**Insulation.** Unfired service water heater storage tanks and solar water-heating backup tanks must have adequate insulation, or tank surface heat loss rating.
§ 110.3(c)6:	**Isolation Valves.** Instantaneous water heaters with an input rating greater than 6.8 kBtu per hour (2 kW) must have isolation valves with hose bibbs or other fittings on both cold and hot water lines to allow for flushing the water heater when the valves are closed.
§110.3(c)7:	**Backup Heat and Ventilation.** Air-source heat pump water heaters must have backup heat (internal or external) if inlet air is unconditioned, unless compressor cut-off temperature is below Heating Winter Median of Extremes from Reference Appendix JA2. Heat pump water heater installation space and/or communicating space(s) must meet minimum volume, ducting, and/or grille net free area by kBtu/h of compressor capacity.
§ 110.5:	**Pilot Lights.** Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces; household cooking appliances (except appliances without electrical supply voltage connection with pilot lights that consume less than 150 Btu/h); 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 any dryer outlet or vent.
§ 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(h)5:	**System Selection.** Equipment sizing and selection must meet the cooling and heating loads of § 150.0(h)1 & 2, and systems must be sized per ACCA Manual S-2023 with no minimum cooling capacity. Furnace heating capacity must meet ACCA Manual S. Heat pump heating capacity must meet minimum CBC requirements without including supplementary heat with no limit on maximum heating capacity.
§ 150.0(h)6:	**Defrost.** Installer-adjustable defrost delay timers must be set to greater than or equal to 90 minutes. CF2R certification required. *
§ 150.0(h)7:	**Supplementary Heating Control Configuration:** Heat pumps with supplementary heating must have controls to lock supplementary heating above outside air temperature no greater than 35°F, allowed during defrost or emergency operation. CF2R certification required. *
§ 150.0(h)8:	**Sizing of Electric Resistance Supplementary Heat:** When heat pumps have electric resistance heat, the capacity of electric resistance heat must not exceed the heat pump nominal cooling capacity (at 95°F ambient conditions) multiplied by 2.7 kW per ton, rounded up to the closest kW.
§ 150.0(h)9:	**Capacity Variation with Third-party Thermostats:** For variable or multi-speed systems, the space conditioning system and thermostat must be capable of responding to heating and cooling loads by modulating system compressor speed and must meet thermostat requirements of § 150.0(i)2. CF2R certification required.
§ 150.0(i):	**Thermostat.** All heating or cooling systems including heat pumps which are not controlled by energy management control system (EMCS) must have setback thermostat. Additional requirements for thermostats that control heat pumps with supplemental heating include thermostat must display outdoor air temperature, must lock out supplementary heat when outdoor air temperature is above 35°F, and must notify when supplemental heat is in use.*
§ 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 § 609.12 of the California Plumbing Code. *
§ 150.0(j)2:	**Insulation Protection.** Piping insulation must be protected from damage, including from 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 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' 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 more than 2" higher than the base of the water heater
§ 150.0(n)2:	**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.

Ducts 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- and return-air ducts and plenums must be insulated to R-6.0 or higher. Ducts located entirely in conditioned space as confirmed via field verification and diagnostic testing (RA3.1.4.3.8) do not require insulation; in dwelling units with attics, the ducts must be below the ceiling separating occupiable space from the attic. 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 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 these spaces must not be compressed. *
§ 150.0(m)2:	**Factory-Fabricated Duct Systems** must comply with applicable requirements of UL 181 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** 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 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 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 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.** Flex ducts with porous inner cores must have a non-porous layer or air barrier between the inner core and outer vapor barrier.
§ 150.0(m)11:	**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.
§ 150.0(m)12:	**Air Filtration.** Space conditioning systems with ducts exceeding 10 feet and the supply side of ventilation systems must have MERV 13 or equivalent filters. Filters for space conditioning systems must have a two inch depth, or can be one inch if sized per Equation 150.0-A. Clean-filter pressure drop and labeling must meet the requirements in §150.0(m)12. Filters must be accessible for regular service. Filter racks or grilles must use gaskets, sealing, or other means to close gaps around the inserted filters and prevents air from bypassing the filter. *
§ 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 Reference Residential Appendix RA3.3. *

Ventilation and Indoor Air Quality:

§ 150.0(o)1:	**Requirements for Ventilation and Indoor Air Quality.** All dwelling units shall 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 used in CFI systems is not a permissible method to provide whole-dwelling unit ventilation airflow required per §150.0(o)1C. A motorized damper(s) shall 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)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 dwellings.** Single-family dwellings shall have mechanical ventilation specified in §150.0(o)1Ci and 150.0(o)1Civ.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 may reduce their required mechanical ventilation rates in accordance with §150.0(o)1Cii-iii.* Vertically attached dwelling units shall not reduce their minimum ventilation rates in accordance with §150.0(o)1Cii-iii.
§ 150.0(o)1G:	**Local Mechanical Exhaust.** Kitchens and bathrooms shall have local mechanical exhaust; nonenclosed kitchens shall have demand-controlled exhaust system meeting requirements of §150.0(o)1Giii, enclosed kitchens and bathrooms shall either use demand-controlled as specified in §150.0(o)1Giii or continuous exhaust as specified in §150.0(o)1Giv. Airflow shall be measured by the installer per §150.0(o)1Gv, and rated for sound per §150.0(o)1Gvi. *
§ 150.0(o)1H-J:	**Airflow Measurement, Sound Ratings, Label of Whole-Dwelling Unit Ventilation Systems.** The airflow required per §150.0(o)1C shall 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 shall be rated for sound per ASHRAE 62.2 §7.3 at no less than the minimum airflow rate required by §150.0(o)1C. Manual on-off switches must be labeled per §150.0(o)1J.
§ 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 shall be verified in accordance with Reference Residential Appendix RA3.7. Vented range hoods shall 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

Electric and Battery Energy Storage Ready:

§ 150.0(s):	**Battery Energy Storage System (BESS) Ready.** All single-family residences that include one or two dwelling units, which a load serving entity provides with electrical service for the dwelling unit that is greater than 125 amps, shall meet at least one of the following: Either BESS-ready interconnection equipment with backed up capacity of 60 amps or more and four or more BESS supplied branch circuits in §150.0(s)2, *or* a dedicated raceway from the main service to a subpanel that supplies the branch circuits in § 150.0(s)2; at least four branch circuits must be identified and have their source collocated at a single panelboard suitable to be supplied by the BESS.
	with one circuit supplying the refrigerator, one lighting circuit near the primary exit, and one circuit supplying a sleeping room receptacle outlet; main panelboard must have a minimum busbar rating of 225 amps; sufficient space must be reserved to allow future installation of a system isolation equipment/transfer switch within 3 feet of the main panelboard, with raceways installed between the panelboard and the switch location to allow the connection of backup power source. *
§ 150.0(t):	**Heat Pump Space Heater Ready.** Systems using gas or propane furnaces to serve individual dwelling units must include: A dedicated unobstructed 240V branch circuit wiring installed within 3' of the furnace with circuit conductors rated at least 30 amps with the blank cover identified as "240V ready;" and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."
§ 150.0(u):	**Electric Cooktop Ready.** Systems using gas or propane cooktop to serve individual dwelling units must include: A dedicated unobstructed 240V branch circuit wiring installed within 3' of the cooktop with circuit conductors rated at least 50 amps with the blank cover identified as "240V ready;" and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."
§ 150.0(v):	**Electric Clothes Dryer Ready.** Clothes dryer locations with gas or propane plumbing to serve individual dwelling units must include: A dedicated unobstructed 240V branch circuit wiring installed within 3' of the dryer location with circuit conductors rated at least 30 amps with the blank cover identified as "240V ready;" and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."

Lighting:

§ 110.9:	**Lighting Controls and Components.** All lighting control devices and systems, light sources, and luminaires must meet the applicable requirements of §110.9. *
§ 150.0(k)1A:	**Luminaire Efficacy.** All installed luminaires and light sources must meet the requirements of Reference Joint Appendix JA8, except lighting integral to exhaust fans, kitchen range hoods, bath vanity mirrors, and garage door openers; navigation lighting less than 5 watts; lighting internal to drawers, cabinets, and linen closets with an efficacy of at least 45 lumens per watt; and ceiling fan kits subject to DOE's Appliance and Equipment Standards. *
§ 150.0(k)1C:	**Recessed Downlight Luminaires in Ceilings.** Luminaires recessed into ceilings must not contain screw-based sockets, be airtight with air leakage rate < 2.0 cfm at 75 Pascals, and leak paths be sealed with a gasket or caulk. California Electrical Code Article 410.116 must also be met. *
§ 150.0(k)1D:	**Light Sources in Enclosed or Recessed Luminaires.** Lamps and other separable light sources installed in enclosed or recessed luminaires must meet the JA8 elevated temperature requirements, including marking requirements.
§ 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)2A:	**Indoor Lighting Controls.** Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned on and off.
§ 150.0(k)2D:	**Controls Permitted.** 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 specified in §150.0(k)2A. Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function installed to comply with §150.0(k)2.
§ 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, bedrooms) must have readily accessible wall-mounted dimming controls that allow the lighting to be manually adjusted up and down, except lighting integral to kitchen range hoods and bathroom exhaust fans, navigation lighting less than 5 watts, lighting internal to drawers, cabinetry with opaque fronts or doors and controlled by automatic-off controls, luminaires in a circuit with controlled lighting power less than 20 watts or controlled by an occupancy or vacancy sensor. Forward phase cut dimmers controlling LED light sources in these spaces must comply with NEMA SSL 7A. Lighting integrated with ceiling fan may be controlled via a remote control.
§ 150.0(k)2G:	**Independent Controls.** Lighting integral to 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)3:	**Residential Outdoor Lighting.** Outdoor lighting permanently mounted to a single-family residential building or other buildings on the same lot must meet luminaire efficacy requirements of §150.0(k)1A, have a manual on/off switch and either a photocell and motion sensor, a photocell and automatic time switch, or an astronomical time clock. Controls that override to ON are not allowed, unless that override automatically returns the automatic control to its normal operation within 6 hours. An EMCS or other controls that provides the specified control functionality may be used but must meet all applicable requirements.
§ 150.0(k)4:	**Internally Illuminated Address Signs** must either comply with §140.8 or consume no more than 5 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 with the applicable requirements for nonresidential garages in §§ 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0.

Building Envelope:

§ 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)2-4:	**U-factor, Solar heat gain coefficient, Visible transmittance.** The fenestration product and exterior door's U-factor and solar heat gain coefficient (SHGC) shall be rated in accordance with NFRC 100 and NFRC 200, or use the applicable defaults in Table 110.6-A and TABLE 110.6-B. The visible transmittance (VT) shall be rated in accordance with NFRC 200 or ASTM E972, for tubular daylighting devices VT shall be rated using NFRC 203. *
§ 110.6(a)5:	**Labeling.** Fenestration products and exterior doors 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 from Table 110.6-A and solar heat gain coefficient (SHGC) values from Table 110.6-B. 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 Household 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 Consumer Affairs.
§ 150.0(a):	**Roof Deck, Ceiling, and Rafter Roof Insulation.** Roof decks in newly constructed attics above conditioned space 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 access 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 that 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 ceiling. *
§ 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-15 insulation in 2x4 inch wood framing wall or have a U-factor of 0.095 or less, or R-21 in 2x6 inch wood framing or have a U-factor of 0.069 or less. Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0.102. Masonry walls must meet Tables 150.1-A. *
§ 150.0(d):	**Raised-floor Insulation.** Minimum R-19 insulation in wood framed raised-floor or 0.037 maximum U-factor. *
§ 150.0(f):	**Slab Edge Insulation.** Slab edge insulation must meet the following: water absorption rate no greater than 0.3 percent for insulation material alone without facings; water vapor permeance no greater than 2.0 perm per inch; 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).
§ 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(c).
§ 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 must have a maximum area-weighted average U-factor of 0.40. *

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 comply with access, pathway, smoke ventilation, and spacing requirements per Title 24, Part 9, or other parts of Title 24, or any requirements adopted by a local jurisdiction. 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. The solar zone total area must be comprised of areas with no dimension less than 5 feet and no less than 80 square feet each for buildings with roof areas up to 10,000 square feet; or no less than 160 square feet each for buildings with roof areas greater than 10,000 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.** No obstructions in solar zone, including but not limited to: vents, chimneys, architectural features, and roof mounted equipment. *
§ 110.10(b)3B:	**Shading.** Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice the horizontal distance of the height difference between the highest point of the obstruction and the horizontal projection of the nearest point of the solar zone, measured in the vertical plane. *
§ 110.10(b)4:	**Structural Design Loads on Construction Documents.** For areas of the roof designated as a solar zone, the structural design loads for roof dead load and roof live load must be clearly indicated on the construction documents.
§ 110.10(c):	**Interconnection Pathways.** The construction documents must indicate: a location reserved for inverters and metering equipment and a pathway reserved for routing of 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.
§ 110.10(d):	**Documentation.** A copy of the construction documents or a comparable document indicating the information from §110.10(b)-(c) must be provided to the occupant.
§ 110.10(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 pole circuit breaker for a future solar electric installation. The reserved space must be permanently marked as "For Future Solar Electric."

Fireplaces, Decorative 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 firebox.
§ 150.0(e)2:	**Combustion Intake.** Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inches in 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. *

Pool and Spa Systems and Equipment:

§ 110.4(a):	**Certification by Manufacturers.** Pool/spa heating equipment must be certified as compliant with Appliance Efficiency Regulations; have an externally mounted, readily accessible on-off switch that allows shutting off the heater without adjusting the thermostat; permanent, easily readable weatherproof plate or card with energy efficiency rating and operating instructions.
§ 110.4(b)1:	**Heating Equipment.** Pool/spa heating equipment must meet applicable standards, by fuel type.
§ 110.4(b)2:	**Piping.** At least 18 inches of horizontal or vertical pipe installed between the filter and the heater; or dedicated suction and return lines; or built-in or built-up connections installed to allow for the future addition of solar heating equipment.
§ 110.4(b)3:	**Covers.** Outdoor pools or spas with electric or gas heater must have a cover.
§ 110.4(b)4:	**Directional Inlets and Time Switches for Pools.** Pools must have directional inlets that adequately mix the pool water, and a permanently installed time switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods.
§ 110.4(c):	**Heat Source Sizing.** Pool/spa heating systems must be solar heating system with collector area of at least 60% of pool/spa surface area; heat pump sized per JA16.3; combination of solar and heat pump; or use 60% or more on-site renewable/recoverable energy. *
§ 110.4(d):	**Heat Pump Pool Heaters with Supplementary Heating.** Controls for such systems must limit supplementary heating when the heating load can be met by the heat pump alone.
§ 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.** Single-family pool systems or equipment must meet the specified requirements for pump sizing, flow rate, piping, filters, and valves.

*Exceptions may apply.

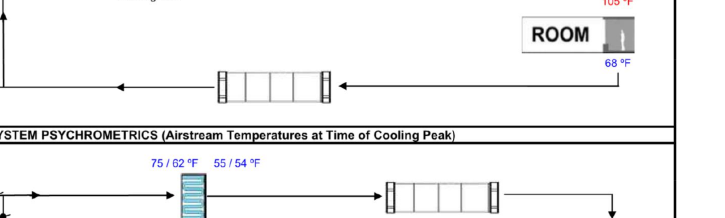
HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

Project Name: Studio - Pre Approved ADU - 2025	Date: 4/4/2026
System Name: Ductless Minisplit	Floor Area: 385

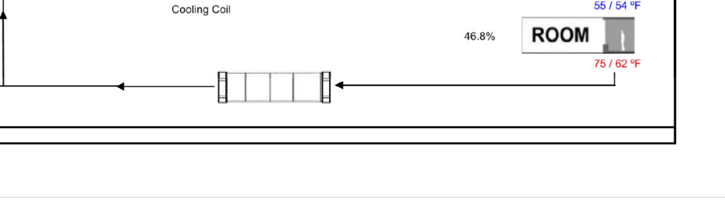
ENGINEERING CHECKS	
Number of Systems	1
Heating System	
Output per System	12,800
Total Output (Btuh)	12,800
Output (Btuh/sqft)	33.3
Cooling System	
Output per System	12,300
Total Output (Btuh)	12,300
Total Output (Tons)	1.0
Total Output (Btuh/sqft)	32.0
Total Output (sqft/Ton)	375.3
Air System	
CFM per System	0
Airflow (cfm)	0
Airflow (cfm/sqft)	0.00
Airflow (cfm/Ton)	0.0
Outside Air (%)	0.0%
Outside Air (cfm/sqft)	0.00
Note: values above given at ARI conditions	

SYSTEM LOAD	COIL COOLING PEAK CFM	Sensible	Latent	COIL HTG. PEAK CFM	Sensible
Total Room Loads	157	3,362	177	106	4,203
Return Vented Lighting					
Return Air Ducts		0			0
Return Fan		0			0
Ventilation	0	0	0	0	0
Supply Fan		0			0
Supply Air Ducts		0			0
TOTAL SYSTEM LOAD		3,362	177		4,203
HVAC EQUIPMENT SELECTION					
Minisplit		11,447	0		9,563
Total Adjusted System Output (Adjusted for Peak Design conditions)		11,447	0		9,563
TIME OF SYSTEM PEAK		Aug 3 PM			Jan 1 AM

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)



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project
County of Orange Pre-Approved ADU Program

OWNER NAME:
ADDRESS:
APN:
LEGAL DESCRIPTION:

description
Example Energy Calculations

date JANUARY 2026
project no.
drawn by DESIGN PATH STUDIO
sheet no. **T24.2**