

RURAL MOUNTAIN

MONO COUNTY PROTOTYPE ACCESSORY DWELLING UNIT - PLAN 3

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Grand total:	43

SUPPORTING DOCUMENTS

ENERGY COMPLIANCE PREPARED BY: DATE PREPARED: JOB NUMBER:

CARSTAIRS ENERGY INC.	
08/04/2022	
22-051011	

DEFERRED SUBMITTALS

TRUSS DESIGN AND CALCULATIONS. PV SYSTEM DESIGN.

- SLAB ON GRADE PROJECT REQUIRES A 1.67 kWdc PV SYSTEM. RAISED FOUNDATION PROJECT REQUIRES A 1.73 kWdc PV SYSTEM
- SYSTEM SHALL BE COMPLETED PRIOR TO FINAL INSPECTION.

PROJECT DIRECTORY

APPLICANT

(TO BE PROVIDED BY OWNER

CONTACT EMAIL:

ARCHITECT

RRM DESIGN GROUP ADDRESS: 3765 S HIGUERA ST, SUITE 102 SAN LUIS OBISPO, CA 93401

ADDRESS

CONTACT PHONE: P:(805) 543-1794

PROJECT INFORMATION

PROJECT SCOPE:

- 1. CONSTRUCTION OF A NEW DETACHED 1 STORY 692 SF ACCESSORY OR
- PRIMARY DWELLING UNIT WITH 1 BEDROOMS AND 1 BATH(S). 2. ALL SITE WORK WITHIN THE PROPERTY LINE.
- 3. ALL THE WORK SHOWN IN THE DRAWINGS AND SPECIFICATIONS.

SITE INFORMATION: (TO BE PROVIDED BY COUNTY OF MONO OR TOWN OF MAMMOTH LAKES)

STREET ADDRESS:		
APN:		
ZONING:		
LOT SIZE:		
LAND USE:		
EXISTING USE:		
PROPOSED USE:		
R AREA RATIO		
(TO BE PROVIDED BY COUNTY OF I	MONO OR TOWN OF MAMMOT	'H LAKES)
MAXIMUM FAR:		
PROPOSED FAR:		
COVERAGE		
(TO BE PROVIDED BY OWNER)		
BUILDING:		
HARDSACPE/PAVING:		
LANDSCAPE:		
ACKS		
(TO BE PROVIDED BY COUNTY OF I	MONO OR TOWN OF MAMMOT	'H LAKES)
FRONT:	REQUIRED	PROPOSED
REAR:	4' - 0" (A.B. NO. 68)	
SIDES:	4 - 0 (A.B. NO. 68) 4' - 0" (A.B. NO. 68)	
SIDES	4 - 0 (A.B. NO. 00)	
DING INFORMATION:		
(TO BE PROVIDED BY COUNTY OF I	NONO OR TOWN OF MAMMOT	H LAKES)
NUMBER OF STORIES:		1
OCCUPANCY GROUP:		 R-3
CONSTRUCTION TYPE:		V-B
SPRINKLERED:		

MAX. HEIGHT ALLOWED: (PER COUNTY OF MONO) MAX. HEIGHT PROPOSED:

REFER TO ELEVATIONS. VARIES BY STYLE **ROOF RATING:** CLASS A HIGH FIRE ZONE: REFER TO 'WILDLAND-URBAN INTERFACE FIRE AREA' AND 'VERY-HIGH FIRE SEVERITY ZONE' SECTIONS ON SHEET



HIGH DESER

MONO COUNTY, CA

BUILDING AREAS

AREAS - PLAN 3	
CONDITIONED	
PLAN 3 FLOOR	692 S
UNCONDITIONED	
	71 S
PLAN 3 FRONT PORCH	110

FIRE-RESISTANCE REQ.

SELECT THE APPROPRIATE BOX BELOW (ONLY 1): **NOTE: EXTERIOR WALLS SHALL HAVE A MINIMUM FIRE SEPARATION** DISTANCE OF 4'-0" FROM PROPERTY LINE. ALL ROOF EAVES ARE 10" DEEP. NON-SPRINKLERED

- FIRE SEPARATION DISTANCE: ≥5'-0" (EXTERIOR WALLS, PROJECTIONS, **OPENINGS, AND PENETRATIONS**)
- FIRE SEPARATION DISTANCE: 4'-0" 5'-0" (EXTERIOR WALLS, OPENINGS, AND PENETRATIONS) PROJECTION SEPARATION DIST.: ≥3'-0"

OPENINGS, AND PENETRATIONS EXTERIOR WALLS AND PROJECTIONS

SPRINKLERED

FIRE SEPARATION DISTANCE: ≥4'-0" (EXTERIOR WALLS, OPENINGS, AND PENETRATIONS)

VICINITY MAP

(TO BE PROVIDED BY OWNER)

NO FIRE-RESISTANCE

NO FIRE-RESISTANCE

1-HR FIRE-RESISTANCE

NO FIRE-RESISTANCE

REFER TO EAVE AND RAKE

DETAILS FOR MORE INFO

RATING REQUIRED

RATING REQUIRED

PROJECT CHECKLIST

FOUNDATION

NOTE: THIS PROJECT ASSUMES A SITE WITH STANDARD SOIL CONDITIONS. IF THE ADU IS TO BE LOCATED ON A SITE WITH EXPANSIVE OR OTHERWISE UNUSUAL SOIL, THE APPLICANT MUST PROCURE A GEOTECHNICAL REPORT AND MAY REQUIRE A NEW FOUNDATION DESIGN.

- SLAB ON GRADE
- * STRIKE THROUGH T24-B301/302/303 RAISED FOUNDATION
- * STRIKE THROUGH T24-A301/302/303

WASTE WATER

- SEWER
- SEPTIC (REQUIRES APPROVAL)

FIRE SPRINKLERS

DOES THE PRIMARY RESIDENCE HAVE NFPA 13D SPRINKLERS?

- 🗆 NO
- Sector YES
- REQUIRED AT PROPOSED ADU
 - **NO** (NOT REQUIRED IF THE PRIMARY RESIDENCE IS UNSPRINKLERED
- **YES** (REQUIRED IF THE PRIMARY RESIDENCE IS SPRINKLERED

FIRE SPRINKLERS NOTES

IF FIRE SPRINKLERS ARE REQUIRED AT PROPOSED ADU THEN THE FOLLOWING NOTES APPLY.

- 1. DETAILED SPRINKLER PLANS SHALL BE SUBMITTED TO THE FIRE PREVENTION BUREAU AND APPROVED PRIOT TO INSTALLATION. PLANS AND INSTALLATION MUCH BE BY A C16 LICENSED SPRINKLER CONTRACTOR.
- SECTION 903.3.1.3 NFPA 13D SPRINKLER SYSTEMS AUTOMATIC FIRE SPRINKLER SYSTEMS INSTALLED IN ONE- AND TWO-FAMILY DWELLINGS, GROUP R-3.
- 3. SECTION 903.2.8 GROUP R AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3 SHALL BE PROVIDED THROUGHOUT ALL BUILDINGS WITH A GROUP R FIRE AREA.
- 4. SECTION 903.2.8.1 GROUP R-3 AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.3 SHALL BE PERMITTED IN GROUP R-3 OCCUPANCIES.
- 5. LOCATION AND SIZE OF WATER SERVICE UNDERGROUND SHALL BE INSTALLED AS SHOWN ON APPROVED FIRE SPRINKLER PLANS. A MINIMUM 1 INCH WATER SHALL BE INSTALLED.
- 6. A FIRE UNDERGROUND FLUSH CERTIFICATION SHALL BE REQUIRED AT FINAL INSPECTION.
- 7. A HYDRO INSPECTION OF THE FIRE SPRINKLER SYSTEM IS REQUIRED PRIOR TO FRAME INSPECTION. ONLY THE NEW PIPING SHALL BE TESTED.

ONSITE PARKING REQUIRED

- NONE, EXCEPTION USED:
 - THE ADU IS LOCATED WITHIN 1/2 MILE OF PUBLIC TRANSIT OFF STREET PARKING PERMITS ARE REQUIRED BUT NOT OFFERED TO THE OCCUPANT OF THE ADU.
 - WHEN THERE IS A CAR SHARE VEHICLE LOCATED WITHIN ONE BLOCK OF THE ADU.
- ONE PARKING SPACE (STUDIO OR 1-BEDROOM ADU)
- TWO PARKING SPACES (2-BEDROOM ADU)

RATING REQUIRED

USER LICENSE AGREEMENT

BY USING THESE PERMIT READY ACCESSORY DWELLING UNIT CONSTRUCTION DOCUMENTS, THE USER AGREES TO RELEASE, HOLD HARMLESS, AND INDEMNIFY THE COUNTY OF MONO. ITS ELECTED OFFICIALS AND EMPLOYEES. RRM DESIGN GROUP, AND THE ARCHITECT OR ENGINEER WHO PREPARED THESE CONSTRUCTION DOCUMENTS FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS AND DEMANDS ON ACCOUNT OF ANY INJURY, DAMAGE OR LOSS TO PERSONS OR PROPERTY, INCLUDING INJURY OR DEATH, OR ECONOMIC LOSSES, ARISING OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS

THE PLANS ATTACHED HERE ARE APPROVED FOR ONLY USE IN MONO COUNTY NO DEVIATIONS, ALTERATIONS, OR OPTIONS BEYOND THOSE SPECIFICALLY NDICATED IN THE PLANS ARE ALLOWED WITHOUT PRIOR APPROVAL BY THE SSUING JURISDICTION AND CHIEF BUILDING OFFICIAL. ANY UNAPPROVED PLAN MODIFICATIONS MAY BE DEVELOPED THROUGH RRM DESIGN GROUP AND THE APPROVING JURISDICTION IF REQUIRED.

SIGNATURE

WILDLAND-URBAN INTERFACE FIRE AREA

- 1. PORTIONS OF THE COUNTY OF MONO ARE LOCATED IN WITHIN THE WILDLAND-URBAN INTERFACE FIRE AREA (AS DEFINED BY 2022 CRC R337.2). a. AREA DEFINED BY STATE AS A "FIRE HAZARD SEVERITY ZONE"
- b. AREA DESIGNATED BY ENFORCING AGENCY TO BE AT A SIGNIFICANT RISK FROM WILDFIRES. 2. AN ADU WITHIN THE WILDLAND-URBAN INTERFACE FIRE AREA SHALL COMPLY WITH THE 2022 CRC SECTION R337.
- THIS PROTOTYPE PLAN IS DESIGNED TO COMPLY WITH THE PROVISIONS REQUIRED BY THE 2022 CRC SECTION R337, REGARDLESS IF LOCATED IN A WILDLAND-URBAN INTERFACE FIRE AREA.

REQUIRED W.U.I. DETAILS

- 1. REFER TO "W.U.I. REQUIREMENT NOTES" ON SHEET G-101.
- ROOF DETAILS: SHEETS AD-902, AD-903, AD-904, AD-905, AND AD-906
- VENTS: W.U.I. COMPLIANT ATTIC VENT. SEE LEGEND ON ROOF PLANS SHEET
- EXTERIOR WALL COVERING DETAIL: SEE EXTERIOR ELEVATIONS LEGEND
- EXTERIOR WINDOWS: "WINDOW GENERAL NOTE" #6 ON FLOOR PLANS SHEET
- EXTERIOR DOORS: "DOOR GENERAL NOTE" #6 ON FLOOR PLANS SHEET

VERY-HIGH FIRE SEVERITY ZONE

Sec. 12

- 1. IN ACCORDANCE WITH THE 2022 CFC SECTION 4904, STRUCTURES LOCATED IN THE VERY HIGH FIRE HAZARD SEVERITY ZONE SHALL PROVIDE & MAINTAIN A FUEL MODIFICATION ZONE. FUEL MODIFICATION ZONES: THE APPLICANT SHALL PROVIDE & MAINTAIN FIRE/FUEL BREAKS TO THE SATISFACTION OF THE LOCAL FIRE DEPARTMENT. FIRE/FUEL BREAKS SHALL BE SHOWN ON THE GRADING, MAP, AND BUILDING PLANS.
- 2. HOMEOWNER TO PROVIDE COMPLIANT VENTS/ICC REPORT IF IN A HIGH FIRE ZONE

EXTERIOR WALL MATERIAL

- CEMENT PLASTER STUCCO
- FIBER CEMENT BOARD AND BATTEN SIDING
- FIBER CEMENT LAP SIDING
- FIBER CEMENT SHINGLE SIDING

WINDOW MATERIAL

ROOF MATERIAL

CLAY ROOF TILES

STANDING SEAM METAL ROOF

- COMPOSITION SHINGLES
- FIBERGLASS
- WOOD

ALUMINUM CLAD WOOD

SNOW LOADING CATEGORIES

< 65 PSF</p>

- 66 PSF 80 PSF
- 81 PSF 120 PSF
- 220 PSF 235 PSF

STYLE SELECTION

NOTE: WHEN SELECTING ONE OF THE TWO ARCHITECURAL STYLES, PLEASE SELECT THE OPTION THAT IS THE SAME OR A SIMILAR DESIGN TO THE PRINCIPAL RESIDENCE. THE ADU BUILDING COLORS AND MATERIALS SHALL BE THE SAME OR SIMILAR TO THE PRINCIPAL RESIDENCE.

RURAL MOUNTAIN

*STRIKE THROUGH HIGH DESERT SHEETS: A3-122/202/302 AND AD-904

HIGH DESERT

*STRIKE THROUGH RURAL MOUNTAIN SHEETS: A3-121/201/301 AND AD-903



	MONO COUNTY ADU PROTOTYPES MONO COUNTY	TITLE SHEET - PLAN 3
UBLIC SEI	DATE 01/10/2024 SHEET G-O	03

1.	WEATHER BARRIERS. a. NOT FEWER THAN ONE-LAYER WATER-RESISTIVE BARRIER SHALL BE APPLIED OVER STUDS OR SHEATHING OF ALL EXTERIOR WALLS
	CONTINUOUS FROM TOP OF WALS AND TERMINATED AT PENETRATIONS AND BUILDING APPENDAGES WITH FLASHING. MINIMUM NO. 15 FELT COMPLYING WITH ASTM D226, TYPE 1.
2.	 b. PROVIDE (2) LAYERS OF GRADE D PAPER OR EQUAL WHEN PLASTER IS INSTALLED OVER WOOD BASED SHEATHING. (2022 CRC R703.7.3) DOMESTIC RANGE VENTILATION DUCTS SHALL HAVE SMOOTH INTERIOR
3.	SURFACES. (2022 CMC 504.3) CLOTHES DRYER MOISTURE EXHAUST DUCTS SHALL TERMINATE OUTSIDE
	THE BUILDING AND HAVE A BACK-DRAFT DAMPER. EXHAUST DUCT IS LIMITED TO 14'-0" W/ TWO ELBOWS. THIS SHALL BE REDUCED 2'-0" FOR EVERY ELBOW IN EXCESS OF TWO. MIN. DIA. 4", SMOOTH, METAL DUCT.(2022
4.	CMC 504.4) ALL MANUFACTURED EQUIPMENT SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATION AND DIMENSIONS VERIFIED WITH
5.	INSTALLATION REQUIREMENTS. ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS SHOULD BE ON SITE FOR INSPECTIONS. SHOWERS AND TUB-SHOWER COMBINATIONS: CONTROL VALVES MUST BE
6.	PRESSURE BALANCED OR THERMOSTATIC MIXING VALVES. (2022 CPC 417.0.)
7.	HEATING AND AIR-CONDITIONING SYSTEM DESIGN SHALL CONFORM TO CALGREEN SEC. 4.507, ENVIRONMENTAL COMFORT.
8.	 a. CLEARANCES: 24" MIN. FRONT, 30" MIN COMPARTMENT WIDTH. b. PROVIDE A MIN 3 SF WINDOW, 1/2 OF WHICH SHALL BE OPENABLE OR AN EXHAUST FAN 50 CFM FOR INTERMITTENT OR 20 CFM FOR CONTINUOUS. DIRECT VENT TO OUTSIDE WITH BACKDRAFT DAMPER. (2022 CRC R303.3)
	c. NEW WATER CLOSETS AND ASSOCIATED FLUSHOMETER VALVES, IF ANY SHALL USE NO MORE THAN 1.28 GALLONS PER FLUSH AND SHALL MEET PERFORMANCE STANDARDS ESTABLISHED BY THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS STANDARD A112.19.2. H & S CODE, SECTION 17921.3(B).
9.	BATH ACCESSORIES: PROVIDE MINIMUM 1 TOILET PAPER HOLDER AND 1 TOWEL BAR PER BATHROOM. PROVIDE NECESSARY BLOCKNG FOR TOILET PAPER HOLDER AND TOWEL BARS.
10.	WHOLE-BUILDING MECHANICAL VENTILATION SYSTEM PER ASHRAE STANDARD 62.2. AT TIME OF BUILDING PERMIT APPLICATION, APPLICANT TO PROVIDE THE FOLLOWING INFORMATION: a. CALCULATIONS FOR REQUIRED VENTING RATES.
	 b. CALCULATION ADJUSTMENTS FOR INTERMITTENT SYSTEMS IF APPLICABLE. c. DUCT DIAMETER AND MAXIMUM DUCT LENGTH PER ASHRAE 62.2 TABLE
	7.1.d. TYPE OF SYSTEM USED AND PROVIDE COMPLETED CF-6R-MECH-05
	FORM. e. FANS SHALL BE A MAXIMUM OF 1 SONE. f. FANS SHALL BE PROVIDED A COVER OF R-4.2 WHEN OFF.
11.	ATTIC ACCESS: a. WHERE REQUIRED, PROVIDE 30" MIN. HEADROOM IN THE ATTIC SPACE
	 (2022 CRC R807.1) b. BUILDINGS WITH COMBUSTIBLE CEILING OR ROOF CONSTRUCTION SHALL HAVE AN ATTIC ACCESS OPENING TO ATTIC AREAS THAT EXCEED 30 SQUARE FEET AND HAVE A VERTICAL HEIGHT OF 30-INCHES OR GREATER. THE VERTICAL HEIGHT SHALL BE MEASURED FROM TOP OF THE CEILING FRAMING MEMBERS TO THE UNDERSIDE OF THE ROOF
	 FRAMING MEMBERS. c. THE ROUGH-FRAMED OPENING SHALL NOT BE LESS THAN 22" X 30" AND SHALL BE LOCATED NOT OVER 20 FEET FROM THE EQUIPMENT. (2022 CRC R807.1) d. IN ATTIC, PROVIDE LIGHT AND SWITCH, AND ALL NECESSARY
	d. IN ATTIC, PROVIDE LIGHT AND SWITCH, AND ALL NECESSARY ELECTRICAL. PROVIDE UNOBSTRUCTED PASSAGEWAY 24" WIDE OF SOLID CONTINUOUS FLOORING FROM ACCESS TO EQUIPMENT AND IT'S CONTROLS. ALSO PROVIDE UNOBSTRUCTED WORK SPACE IN FRONT OF EQUIPMENT 30" DEPTH MINIMUM. PROVIDE COMBUSTION AIR AND CONDENSATE LINE TO OUTSIDE OR AN APPROVED DRAIN FOR OPTIONAL
	AIR CONDITIONING. e. PROVIDE A 120V RECEPTACLE AND A LIGHT NEAR THE EQUIPMENT WITH LIGHT SWITCH LOCATED AT THE ATTIC ACCESS.
12.	BATHTUB AND SHOWER FLOORS AND WALLS ABOVE BATHTUBS WITH INSTALLED SHOWER HEADS AND IN SHOWER COMPARTMENTS SHALL BE FINISHED WITH A NONABSORBENT SURFACE. SUCH WALL SURFACES SHALL EXTEND TO A HEIGHT OF NOT LESS THAN 6 FEET ABOVE THE FLOOR PER 2022 CRC, SECTION R307.2.
S	ITE NOTES
	CALL BEFORE YOU DIG! CONTACT UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600 AT LEAST 2 WORKING DAYS BEFORE EXCAVATING.
	UNLESS OTHERWISE NOTED ON THE PLANS, FINISHED GROUND SURFACES SHALL BE GRADED TO DRAIN THE FINISHED SITE PROPERLY WITHIN 10-FEET OF ANY BUILDING FOUNDATION WITH A SLOPE OF 5% AWAY FROM ANY BUILDING OR STRUCTURE. ALL EXTERIOR HARDSCAPE WITHIN 10-FEET OF A BUILDING FOUNDATION SHALL BE INSTALLED WITH A 2% MINIMUM SLOPE AWAY FROM ANY BUILDING OR STRUCTURE. DRAINAGE SWALES SHALL BE A
	1.5% MINIMUM SLOPE. ALL GRADED SLOPES SHALL HAVE A MAXIMUM SLOPE

ELECTRICAL NOTES

- 1. CONFORM WITH CURRENT CEC, NFPA, MFR'S, AND LOCAL REQUIREMENTS. ELECTRICAL SYSTEM GROUND TO BE PROVIDED PER NEC ARTICLE 250-81. . ALL MATERIALS TO BE U.L. LABELED.
- 4. METER IS NOT REQUIRED. IF IT IS PROVIDED FOR ADU, MAIN PANEL IS REQUIRED FOR ADU WITH MINIMUM OF 225 AMP BUS-BAR. IF MAIN PANEL IS NOT PROVIDED FOR ADU, ELECTRICAL PERMIT SHALL BE PULLED FOR THE PRIMARY RESIDENCE WITH ELECTRICAL LOAD CALCULATIONS. 5. IF PROVIDED, ELECTRICAL SUB PANEL: FLUSH MOUNT, 30" CLEARANCE. 100
- 6. CONDUCTORS: TW, THW, COPPER, MINIMUM 14 AT LIGHTING, 12 AT OTHER CIRCUITS.
- 7. ALL LUMINARIES SHALL COMPLY WITH 2022 CENC SECTION 150.0 (K) AND TABLE 150.0-A AS REFERENCED IN ENERGY NOTES, LUMINAIRE **REQUIREMENTS SHEET G-101.**
- 8. ALL ELECTRICAL OUTLETS INSTALLED IN BATHROOMS, GARAGES, LAUNDRY AREAS, BASEMENTS, CRAWL SPACES, OUTDOORS, KITCHEN COUNTERS, AND AT WET BAR SINKS SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION IN COMPLIANCE WITH NEC Art. 210-8, CONSISTING OF 125 VOLT, SINGLE-PHASE, 15- AND 20- AMPERE RECEPTACLES.
- 9. ALL BATHROOM RECEPTACLE OUTLETS SHALL BE SUPPLIED BY A MINIMUM OF ONE 120-VOLT, 20-AMPERE BRANCH CIRCUIT. SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS. THIS DEDICATED CIRCUIT MAY SERVE MORE THAN ONE BATHROOM. (2022 CEC 210.11(C))
- 10. THERMOSTAT SHALL BE A PROGRAMMABLE TYPE, HONEYWELL TH8320 OR EQUAL
- 11. CEILING-SUSPENDED (PADDLE) FANS SHALL BE SUPPORTED INDEPENDENTLY OF AN OUTLET BOX OR BY LISTED OUTLET BOX OR OUTLET BOX SYSTEMS IDENTIFIED FOR THE USE AND INSTALLED IN ACCORDANCE WITH 2022 CEC 314.27(C) (2022 CEC 422.18).
- 12. ALL LUMINARIES, LAMPHOLDERS, AND RETROFIT KITS SHALL BE LISTED (2022 CEC 410.6). 13. ALL 120-VOLT, SINGLE PHASE 15- AND 20- AMPERE BRANCH CIRCUITS
- SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, LIVING ROOMS, DINING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT. (2022 CEC 210-12(A)).
- 14. ALL NON-LOCKING TYPE 125-VOLT, 15 AND 20 AMPERE RECEPTACLES IN A DWELLING UNIT SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES. EXCEPTIONS: (1) RECEPTACLES MORE THAN 5'6" ABOVE THE FLOOR, (2) RECEPTACLES PART OF A LUMINAIRE OR APPLIANCE, (3) A SINGLE RECEPTACLE OR A DUPLEX RECEPTACLE FOR TWO APPLIANCES THAT ARE NOT EASILY MOVED AND LOCATED WITHIN DEDICATED SPACE AND ARE CHORD-AND-PLUG CONNECTED AS PER CEC 400.10, AND (4) NON-GROUNDING RECEPTACLES USED FOR REPLACEMNETS AS PERMITTED IN CEC 406.4(D)(2)(A).
- 15. HIGH EFFICACY LUMINAIRES OTHER THAN OUTDOOR HID LIGHTING CONTAIN ONLY ONLY HIGH EFFICACY LAMPS AS OUTLINED IN TABLE 150-C OF THE RESIDENTIAL ENERGY CODE AND NOT CONTAIN A MEDIUM SCREW BASE SOCKET
- 16. BALLAST FOR LAMPS 13 WATTS OR GREATER SHALL BE ELECTRONIC AND HAVE AN OUTPUT FREQUENCY NO LESS THAT 20 kHz.
- 17. SMOKE DETECTORS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING AND PROVIDED WITH A BATTERY BACK-UP. ALL SMOKE DETECTORS SHALL BE INTERCONNECTEED. ALL SMOKE DETECTORS SHALL MAINTAIN A MINIMUM 3 FOOT CLEARANCE TO HVAC SUPPLY OR RETURN AIR REGISTERS 18. CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM
- THE BUILDING WIRING AND PROVIDED WITH A BATTERY BACK-UP. ALL CARBON MONOXIDE ALARAMS SHALL BE INTERCONNECTEED. 19. EXHAUST FANS WILL BE CONTROLLED BY A HUMIDISTAT PER THE GREEN
- BUILDING STANDARDS CODE SECTION 4.506. EXHAUST FANS MUST BE SWITCHED SEPARATELY FROM LIGHTS (2022 CEnC 150.0(k)2G).
- 20. IN ADDITION TO THE NUMBER OF BRANCH CIRCUTS REQUIRED BY OTHER PARTS OF THE CODE, TWO OR MORE 20-AMPERE SMALL-APPLIANCE BRANCH CIRCUTS SHALL BE PROVIDED FOR ALL RECEPTACLE OUTLETS IN THE KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR AREA PER 2022 CEC, ARTICLE 210.11 (C)(1). THE CIRCUTS SHALL HAVE NO OTHER OUTLETS PER 2022 CEC, ARTICLE 210.52(B).
- 21. IN ADDITION TO THE NUMBER OF BRANCH CIRCUTS REQUIRED BY OTHER PARTS OF THE CODE AT LEAST ONE ADDITIONAL 20-AMPERE BRANCH CIRCUT SHALL BE PROVIDED TO SUPPLY THE LAUNDRY RECEPTACLE OUTLET(S) REQUIRED BY 2022 CEC, ARTICLE 210.52 (F). THIS CIRCUT SHALL HAVE NO OTHER OUTLETS PER 2022 CEC, ARTICLE 201.11(C)(2).

ENERGY NOTES

1. THE BUILDER MUST PROVIDE NEW HOMEWONERS WITH A LUMINAIRE SCHEDULE THAT INCLUDES A LIST OF INSTALLED LAMPS AND LUMINARIES.

LUMINAIRE REQUIREMENTS (2022 CEnC 150.0(k)1).

. LUMINAIRE EFFICACY. ALL INSTALLED LUMINAIRES SHALL MEET THE **REQUIREMENTS IN TABLE 150.0-A. EXCEPT:** INTEGRATED DEVICE LIGHTING. LIGHTING INTEGRAL TO EXHAUST FANS. KITCHEN RANGE HOODS. BATH VANITY MIRRORS AND GARAGE DOOR OPENERS. NAVIGATION LIGHTING: SUCH AS NIGHT LIGHTS, STEP LIGHTS, AND PATH LIGHTS LESS THAN 5 WATTS. CABINET LIGHTING: LIGHTING INTERNAL TO DRAWERS, CABINETRY AND LINEN CLOSETS WITH AN EFFICACY OF 45 LUMENS PER WATT OR GREATER.

- THE FOLLOWING ARE HIGH-EFFICACY LIGHT SOURCES PER TABLE 150.0-A: THE FOLLOWING LIGHT SOURCES, OTHER THAN THOSE INSTALLED IN CEILING RECESSED DOWNLIGHT LUMINAIRES, ARE NOT REQUIRED TO COMPLY WITH REFERENCE JOINT APPENDIX JA8:
- 1. LED LIGHT SOURCES INSTALLED OUTDOORS. INSEPARABLE SOLID STATE LIGHTING (SSL) LUMINAIRES CONTAINING COLORED LIGHT SOURCES THAT ARE INSTALLED TO PROVIDE
- DECORATIVE LIGHTING.
- 3. PIN-BASED LINEAR FLUORESCENT OR COMPACT FLUORESCENT LIGHT SOURCES USING ELECTRONIC BALLASTS. HIGH INTENSITY DISCHARGE (HID) LIGHT SOURCES INCLUDING PULSE
- START METAL HALIDE AND HIGH PRESSURE SODIUM LIGHT SOURCES.
- LUMINAIRES WITH HARDWIRED HIGH FREQUENCY GENERATOR AND INDUCTION LAMP.
- REGULATIONS.
- 6. CEILING FAN LIGHT KITS SUBJECT TO FEDERAL APPLIANCE THE FOLLOWING LIGHT SOURCES ARE ONLY CONSIDERED TO BE HIGH EFFICACY IF THEY ARE CERTIFIED TO THE COMMISSION AS HIGH EFFICACY LIGHT SOURCES IN ACCORDANCE WITH REFERENCE JOINT APPENDIX JA8 AND MARKED AS REQUIRED BY JA8:
- 1. ALL LIGHT SOURCES INSTALLED IN CEILING RECESSED DOWNLIGHT LUMINAIRES. NOTE THAT CEILING RECESSED DOWNLIGHT LUMINAIRES
- SHALL NOT HAVE SCREW BASES REGARDLESS OF LAMP TYPE AS DESCRIBED IN SECTION 150.0(K)1C.
- 2. ANY LIGHT SOURCE NOT OTHERWISE LISTED. B. SCREW-BASED LUMINAIRES. SCREW-BASED LUMINAIRES SHALL
- CONTAIN LAMPS THAT COMPLY WITH REFERENCE JOINT APPENDIX JA8. C. RECESSED DOWNLIGHT LUMINAIRES IN CEILINGS. LUMINAIRES RECESSED INTO CEILINGS SHALL MEET ALL OF THE FOLLOWING **REQUIREMENTS:**
- SHALL NOT CONTAIN SCREW BASE LAMP SOCKETS; AND 2. HAVE A LABEL THAT CERTIFIES THE LUMINAIRE IS AIRTIGHT WITH AIR LEAKAGE LESS THAN 2.0 CFM AT 75 PASCALS WHEN TESTED IN ACCORDANCE WITH ASTM E283. AN EXHAUST FAN HOUSING WITH
- INTEGRAL LIGHT SHALL NOT BE REQUIRED TO BE CERTIFIED AIRTIGHT; AND BE SEALED WITH A GASKET OR CAULK BETWEEN THE LUMINAIRE HOUSING AND CEILING, AND HAVE ALL AIR LEAK PATHS BETWEEN CONDITIONED AND UNCONDITIONED SPACES SEALED WITH A GASKET OR CAULK. OR BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS TO MAINTAIN AIRTIGHTNESS BETWEEN THE LUMINAIRE HOUSING AND CEILING; AND 4. MEET THE CLEARANCE AND INSTALLATION REQUIREMENTS OF CALIFORNIA
- ELECTRICAL CODE SECTION 410.116 FOR RECESSED LUMINAIRES. **EXCEPT:** RECESSED LUMINAIRES MARKED FOR USE IN FIRE-RATED INSTALLATIONS EXTRUDED INTO CEILING SPACE AND RECESSED LUMINAIRES INSTALLED IN NONINSULATED CEILINGS.

POP-UP DRAINAGE EMITTER IN THE LANDSCAPED AREA OR MAY DRAIN TO SPLASH BLOCKS OR COBBLESTONES THAT DIRECT WATER AWAY FROM THE BUILDING. CONTRACTOR TO FIELD VERIFY EXISTING DRAINAGE. IF THE EXISTING DRAINAGE SYSTEM IS DAMAGED DURING EXCAVATION, CONTRACTOR SHALL REPAIR AND/OR REROUTE DRAINAGE SYSTEM AND CONNECT TO EXISTING DRAINAGE FACILITY AS NECESSARY. EXISTING PUBLIC IMPROVEMENTS THAT ARE DAMAGED BY THE PROJECT CONSTRUCTION SHALL BE REPAIRED OR REPLACED. EXISTING DAMAGED PUBLIC IMPROVEMENTS WITHIN THE PROJECT LIMITS SHALL BE REPAIRED OR REPLACED EVEN IF THE DAMAGE OCCURRED PRIOR TO THE START OF CONSTRUCTION EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE INSTALLED PRIOR TO

OCTOBER 1 AND SHALL BE MAINTAINED DAILY UNTIL APRIL 30. THESE FACILITIES SHALL CONTROL AND CONTAIN EROSION-CAUSED SILT DEPOSITS AND PROVIDE FOR THE SAFE DISCHARGE OF SILT-FREE STORM WATERS INTO EXISTING STORM DRAIN FACILITIES. EROSION AND SEDIMENT CONTROL SUPPLIES MUST BE KEPT ON-SITE DURING THE DRY SEASON AND EMPLOYED, AS NECESSARY PRIOR TO AND DURING RAIN EVENTS.

- SEASONALLY APPROPRIATE BEST MANAGEMENT PRACTICES FOR THE FOLLOWING SITE MANAGEMENT CATEGORIES MUST BE IMPLEMENTED YEAR-ROUND: 1) EROSION CONTROL: 2) RUN-ON AND RUN-OFF CONTROL: 3) SEDIMENT CONTROL; 4) GOOD SITE MANAGEMENT; AND 5) NON-STORMWATER MANAGEMENT AN ENCROACHMENT PERMIT WILL BE REQUIRED FOR ANY CONSTRUCTION
- ACTIVITY WITHIN A PUBLIC STREET RIGHT OF WAY THAT HAS BEEN ACCEPTED BY THE CITY

ENERGY NOTES CONTINUED

- D. LIGHT SOURCES IN ENCLOSED OR RECESSED LUMINAIRES. LAMPS AND OTHER SEPARABLE LIGHT SOURCES THAT ARE NOT COMPLIANT WITH THE JA8 ELEVATED TEMPERATURE REQUIREMENTS, INCLUDING MARKING REQUIREMENTS, SHALL NOT BE INSTALLED IN ENCLOSED OR RECESSED
- LUMINAIRES E. BLANK ELECTRICAL BOXES. THE NUMBER OF ELECTRICAL BOXES THAT ARE MORE THAN 5 FEET ABOVE THE FINISHED FLOOR AND DO NOT CONTAIN A LUMINAIRE OR OTHER DEVICE SHALL BE NO GREATER THAN THE NUMBER OF BEDROOMS. THESE ELECTRICAL BOXES MUST BE SERVED BY A DIMMER, VACANCY SENSOR CONTROL, LOW VOLTAGE WIRING OR FAN SPEED CONTROL
- INDOOR LIGHTING CONTROLS (2022 CEnC 150.0(k)2). A. LIGHTING SHALL HAVE READILY ACCESSIBLE WALL-MOUNTED CONTROLS
- THAT ALLOW THE LIGHTING TO BE MANUALLY TURNED ON AND OFF. A. **EXCEPT:** CEILING FANS MAY PROVIDE CONTROL OF INTEGRATED LIGHTING VIA A REMOTE CONTROL.
- B. NO CONTROLS SHALL BYPASS A DIMMER, OCCUPANT SENSOR OR VACANCY SENSOR FUNCTION WHERE THAT DIMMER OR SENSOR HAS BEEN INSTALLED TO COMPLY WITH SECTION 150.0(K).
- C. LIGHTING CONTROLS SHALL COMPLY WITH THE APPLICABLE **REQUIREMENTS OF SECTION 110.9.**
- D. AN ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) OR A MULTISCENE PROGRAMMABLE CONTROL MAY BE USED TO COMPLY WITH DIMMING, OCCUPANCY AND LIGHTING CONTROL REQUIREMENTS IN SECTION 150.0(K)2 IF IT PROVIDES THE FUNCTIONALITY OF THE SPECIFIED CONTROLS IN ACCORDANCE WITH SECTION 110.9, AND THE PHYSICAL CONTROLS SPECIFIED IN SECTION 150.0(K)2A.
- E. AUTOMATIC-OFF CONTROLS. 1. IN BATHROOMS, GARAGES, LAUNDRY ROOMS, UTILITY ROOMS AND WALK-IN CLOSETS, AT LEAST ONE INSTALLED LUMINAIRE SHALL BE CONTROLLED BY AN OCCUPANCY OR VACANCY SENSOR PROVIDING AUTOMATIC-OFF FUNCTIONALITY.
- 2. FOR LIGHTING INTERNAL TO DRAWERS AND CABINETRY WITH OPAQUE FRONTS OR DOORS, CONTROLS THAT TURN THE LIGHT OFF WHEN THE DRAWER OR DOOR IS CLOSED SHALL BE PROVIDED.
- DIMMING CONTROLS. LIGHTING IN HABITABLE SPACES, INCLUDING BUT NOT LIMITED TO LIVING ROOMS, DINING ROOMS, KITCHENS AND BEDROOMS, SHALL HAVE READILY ACCESSIBLE WALL-MOUNTED DIMMING CONTROLS THAT ALLOW THE LIGHTING TO BE MANUALLY ADJUSTED UP AND DOWN. FORWARD PHASE CUT DIMMERS CONTROLLING LED LIGHT SOURCES IN THESE SPACES SHALL COMPLY WITH NEMA SSL 7A. **EXCEPT:** CEILING FANS MAY PROVIDE CONTROL OF INTEGRATED LIGHTING VIA A REMOTE CONTROL. LUMINAIRES CONNECTED TO A CIRCUIT WITH CONTROLLED LIGHTING POWER LESS THAN 20 WATTS OR CONTROLLED BY AN OCCUPANCY OR VACANCY SENSOR PROVIDING AUTOMATIC-OFF FUNCTIONALITY. NAVIGATION LIGHTING SUCH AS NIGHT LIGHTS, STEP LIGHTS, AND PATH LIGHTS LESS THAN 5 WATTS, AND LIGHTING INTERNAL TO DRAWERS AND CABINETRY WITH OPAQUE FRONTS OR DOORS OR WITH
- AUTOMATIC-OFF CONTROLS. G. INDEPENDENT CONTROLS. INTEGRATED LIGHTING OF EXHAUST FANS SHALL BE CONTROLLED INDEPENDENTLY FROM THE FANS. THE FOLLOWING SHALL BE CONTROLLED SEPARATELY FROM CEILING-INSTALLED LIGHTING SUCH THAT ONE CAN BE TURNED ON WITHOUT TURNING ON THE OTHER: UNDERCABINET LIGHTING, UNDERSHELF LIGHTING, INTERIOR LIGHTING

OF DISPLAY CABINETS, AND SWITCHED OUTLETS. RESIDENTIAL OUTDOOR LIGHTING (2022 CEnC 150.0(k)3). IN ADDITION TO MEETING THE REQUIREMENTS OF SECTION 150.0(K)1A, LUMINAIRES PROVIDING RESIDENTIAL OUTDOOR LIGHTING SHALL MEET THE FOLLOWING REQUIREMENTS, AS APPLICABLE:

- A. FOR SINGLE-FAMILY RESIDENTIAL BUILDINGS, OUTDOOR LIGHTING PERMANENTLY MOUNTED TO A RESIDENTIAL BUILDING OR TO OTHER BUILDINGS ON THE SAME LOT SHALL MEET THE REQUIREMENT IN ITEM I AND THE REQUIREMENTS IN EITHER ITEM II OR ITEM III:
 - CONTROLLED BY A MANUAL ON AND OFF CONTROL SWITCH THAT PERMITS THE AUTOMATIC ACTIONS OF ITEMS II OR III BELOW; & ii. CONTROLLED BY A PHOTOCELL AND EITHER A MOTION SENSOR OR AN AUTOMATIC TIME SWITCH CONTROL; OR iii. CONTROLLED BY AN ASTRONOMICAL TIME CLOCK CONTROL.
 - NOTE: CONTROLS THAT OVERRIDE TO ON SHALL NOT BE ALLOWED UNLESS THE OVERRIDE AUTOMATICALLY RETURNS THE AUTOMATIC CONTROL TO ITS NORMAL OPERATION WITHIN 6 HOURS. AN ENERGY MANAGEMENT CONTROL SYSTEM THAT PROVIDES THE SPECIFIED LIGHTING CONTROL FUNCTIONALITY AND COMPLIES WITH AL REQUIREMENTS APPLICABLE TO THE SPECIFIED CONTROLS MAY BE USED TO MEET THESE REQUIREMENTS.
- 1. ALL JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED OR OTHERWISE SEALED TO
- LIMIT INFILTRATION AND EXFILTRATION (2022 CEnC 110.7). 2. ATTIC ACCESS DOORS SHALL HAVE PERMANENTLY ATTACHED INSULATION USING ADHESIVE OR MECHANICAL FASTENERS. THE ATTIC ACCESS SHALL BE GASKETED TO PREVENT AIR LEAKAGE (2022 CEnC 150.0(a)3)

ADDTIONAL NOTES PER AGING IN PLACE REQUIREMENTS:

- 1. ELECTRICAL RECEPTABLE OUTLET, SWITCH AND CONTROLS (INCLUDING CONTROLS FOR HEATING, VENTILATION AND AIR CONDITIONING) INTENDED TO BE USED BY OCCUPANTS SHALL BE LOCATED NO MORE THAN 48" MEASURED FROM THE TOP OF THE OUTLET BOX AND NOT LESS THAN 15" MEASURED FROM THE BOTTOM OF THE OUTLET BOX ABOVE THE FINISH FLOOR (PER CRC R327.1.2).
- 2. DOORBELL BUTTONS OR CONTROLS, WHEN INSTALLED, SHALL NOT EXCEED 48" ABOVE EXTERIOR FLOOR OR LANDING. MEASURED FROM THE TOP OF THE DOORBELL BUTTON ASSEMBLY. WHERE DOORBELL BUTTONS INTEGRATED WITH OTHER FEATURES ARE REQUIRED TO BE INSTALLED ABOVE 48" MEASURED FROM THE EXTERIOR FLOOR OR LANDING, A STANDARD DOORBELL BUTTON OR CONTROL SHALL ALSO BE PROVIDED AT A HEIGHT NOT EXCEEDING 48" ABOVE EXTERIOR FLOOR OR LANDING. MEASURED FROM THE TOP OF THE DOORBELL BUTTON OR CONTROL (PER CRC R327.1.4)

ENERGY STORAGE READINESS

- **ENERGY STORAGE SYSTEM (ESS) REQUIREMENTS:**
- IN SINGLE-FAMILY RESIDENTIAL BUILDINGS THAT INCLUDE ONE OR TWO DWELLINGS, EACH DWELLING UNIT SHALL BE PROVIDED WITH DEDICATED RACEWAYS, DESIGNATED BRANCH CIRCUITS AND ISOLATION DEVICES FOR ENERGY STORAGE SYSTEMS AS SPECIFIED IN CALIFORNIA ENERGY CODE SECTION 150.0(S). ADDITIONALLY, THE PANELBOARDS SHALL BE PROVIDED WITH THE MINIMUM BUSBAR RATING AS SPECIFIED IN CALIFORNIA ENERGY CODE SECTION 150.0(S). (2022 CEC SECTION 706.10)
- CALIFORNIA ENERGY CODE SECTION 150.0(S) AT LEAST ONE OF THE FOLLOWING SHALL BE PROVIDED:
- A. ESS READY INTERCONNECTION EQUIPMENT WITH A MINIMUM BACKED-UP CAPACITY OF 60 AMPS AND A MINIMUM OF FOUR ESS-SUPPLIED BRANCH CIRCUITS, OR
- B. A DEDICATED RACEWAY FROM THE MAIN SERVICE TO A PANELBOARD (SUBPANEL) THAT SUPPLIES THE BRANCH CIRCUITS IN SECTION 150.0(S)(2). ALL BRANCH CIRCUITS ARE PERMITTED TO BE SUPPLIED BY THE MAIN SERVICE PANEL PRIOR TO THE INSTALLATION OF AN ESS. THE TRADE SIZE OF THE RACEWAY SHALL BE NOT LESS THAN 1 INCH. THE PANELBOARD THAT SUPPLIES THE BRANCH CIRCUITS (SUBPANEL) MUST BE LABELED "SUBPANEL SHALL INCLUDE ALL BACKEDUP LOAD CIRCUITS."
- A MINIMUM OF FOUR BRANCH CIRCUITS SHALL BE IDENTIFIED AND HAVE THEIR SOURCE OF SUPPLY COLLOCATED AT A SINGLE PANELBOARD SUITABLE TO BE SUPPLIED BY THE ESS. AT LEAST ONE CIRCUIT SHALL SUPPLY THE REFRIGERATOR, ONE LIGHTING CIRCUIT SHALL BE LOCATED NEAR THE PRIMARY EGRESS AND AT LEAST ONE CIRCUIT SHALL SUPPLY A SLEEPING ROOM RECEPTACLE OUTLET.
- THE MAIN PANELBOARD SHALL HAVE A MINIMUM BUSBAR RATING OF 225 AMPS. 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.

PLUMBING NOTES

- 1. CONFORM WITH CURRENT CPC AND LOCAL REQUIREMENTS.
- 2. DOMESTIC WATER (WITHIN BUILDING): COPPER OR PEX PIPE OR APPROVED
- EQUAL 3. AIR CHAMBERS: 12" LONG CAPPED NIPPLE AT END OF EACH BRANCH TO
- EACH FIXTURE. 4. DIELECTRIC UNIONS "F.P.C.O." REQUIREMENT AT ALL DISSIMILAR MATERIAL CONNECTIONS
- 5. WHEN "OPTIONAL" SOFT-WATER LOOP INTALLED, PROVIDE WITH 2 GATE VALVES. 6. WATER SERVICE PIPE SHALL BE PER CIVIL PLANS OR AS REQUIRED BY THE
- JURISDICTION. 7. WATER METER: PER WATER DISTRICT (REFER SIZE W/ FIRE SPRINKLER PLANS IF APPLICABLE)
- 8. SHOWER HEADS AND FAUCETS: FLOW RATES PER 2022 CGBSC SECTION 4 303
- 9. WATER HEATER (REFER TO BUILDING ENERGY ANALYSIS REPORT): A. ALL DOMESTIC HOT WATER PIPING SHALL BE INSULATED. (2022 CPC 609.12.1)
 - 1. PIPES UP TO 2 INCHES IN DIAMETER: INSULATION WALL THICKNESS NOT LESS THAN DIAMETER OF PIPE. (2022 CPC 609.12.2) 2. PIPES GREATER THAN 2 INCHES IN DIAMETER: INSULATION WALL THICKNESS NOT LESS THAN 2 INCHES. (2022 CPC 609.12.2)
 - EXCEPTIONS: 1. PIPING THAT PENETRATES FRAMING MEMBERS SHALL NOT BE REQUIRED TO HAVE PIPE INSULATION FOR THE DISTANCE OF THE FRAMING PENETRATION. (2022 CPC 609.12.2)
 - 2. HOT WATER PIPING BETWEEN THE FIXTURE CONTROL VALVE OR SUPPLY STOP AND THE FIXTURE OR APPLIANCE SHALL NOT BE REQUIRED TO BE INSULATED. (2022 CPC 609.12.2)
- B. PROVIDE A TEMPERATURE AND PRESSURE RELIEF VALVE WITH A FULL SIZE DRAIN OF GALVANIZED STEEL OR HARD DRAWN COPPER TO THE OUTSIDE OF THE BUILDING WITH THE END OF THE PIPE PROTRUDING 6" MINIMUM @ 2' MAX. ABOVE GRADE POINTING DOWNWARD TO THE TERMINATION - UNTHREADED.
- C. COMBUSTION AIR PER MANUFACTURE REQUIREMENTS.
- D. CLEARANCES PER MANUFACTURE REQUIREMENTS. 10. PLUMBING INSULATION PER 2022 CENC 150.0 (J) AND CBC 609.11
- A. DOMESTIC HOT WATER PIPING SHALL BE INSULATED. B. HOT WATER PIPE INSULATION SHALL HAVE A MINIMUM WALL THICKNESS
- OF NOT LESS THAN THE DIAMETER OF THE PIPE FOR A PIPE UP TO 2 INCHES (50 MM) IN DIAMETER. INSULATION WALL THICKNESS SHALL BE NOT LESS THAN 2 INCHES (51 MM) FOR A PIPE OF 2 INCHES (50 MM) OR MORE IN DIAMETER.
- 1. PIPING THAT PENETRATES FRAMING MEMBERS SHALL NOT BE REQUIRED TO HAVE PIPE INSULATION FOR THE DISTANCE OF THE FRAMING PENETRATION.
- 2. HOT WATER PIPING BETWEEN THE FIXTURE CONTROL VALVE OR SUPPLY STOP AND THE FIXTURE OR APPLIANCE SHALL NOT BE REQUIRED TO BE INSULATED.
- C. SERVICE WATER HEATING SYSTEMS PIPING TO INCLUDE. 1. RECIRCULATING SYSTEM PIPING, INCLUDING THE SUPPLY AND RETURN PIPING TO THE WATER HEATER. 2. THE FIRST 8 FEET OF HOT AND COLD OUTLET PIPING, INCLUDING
- PIPING BETWEEN A STORAGE TANK AND A HEAT TRAP, FOR A NON-RECIRCULATING STORAGE SYSTEM. 3. PIPES THAT ARE EXTERNALLY HEATED.
- SHALL BE INSULATED AS FOLLOWS:
- UP TO 1" PIPE DIAMETER TO HAVE 1.0 MIN THICKNESS OR R7/7 RATING PER CENC TABLE 120.3A EXCEPTIONS:
- 1. FACTORY-INSTALLED PIPING WITHIN SPACE-CONDITIONING EQUIPMENT CERTIFIED UNDER SECTION 110.1 OR 110.2.
- 2. PIPING THAT PENETRATES FRAMING MEMBERS SHALL NOT BE REQUIRED TO HAVE PIPE INSULATION FOR THE DISTANCE OF THE FRAMING PENETRATION, METAL PIPING THAT ENETRATES METAL FRAMING SHALL USE GROMMETS, PLUGS, WRAPPING OR OTHER INSULATING MATERIAL TO ASSURE THAT NO CONTACT IS MADE WITH THE METAL FRAMING.
- 3. PIPING INSTALLED IN INTERIOR OR EXTERIOR WALLS SHALL NOT BE REQUIRED TO HAVE PIPE INSULATION IF ALL OF THE REQUIREMENTS ARE MET FOR COMPLIANCE WITH QUALITY INSULATION INSTALLATION (QII) AS SPECIFIED IN THE **REFERENCE RESIDENTIAL APPENDIX RA3.5.**
- **4.** PIPING SURROUNDED WITH A MINIMUM OF 1 INCH OF WALL INSULATION. 2 INCHES OF CRAWLSPACE INSULATION. OR 4 INCHES OF ATTIC INSULATION SHALL NOT BE REQUIRED TO HAVE PIPE INSULATION
- **11. INSULATION PROTECTION.** PIPE INSULATION SHALL BE PROTECTED FROM DAMAGE DUE TO SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE AND WIND. PROTECTION SHALL, AT MINIMUM, INCLUDE THE FOLLOWING (2022 CEC SECTION 120.3(B)):
- A. PIPE INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED BY A COVER SUITABLE FOR OUTDOOR SERVICE. THE COVER SHALL BE WATER RETARDANT AND PROVIDES SHIELDING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL. ADHESIVE TAPE SHALL NOT BE USED TO PROVIDE THIS PROTECTION
- **B.** PIPE INSULATION COVERING CHILLED WATER PIPING AND REFRIGERANT SUCTION PIPING LOCATED OUTSIDE THE CONDITIONED SPACE SHALL INCLUDE, OR BE PROTECTED BY, A CLASS I OR CLASS II VAPOR RETARDER. ALL PENETRATIONS AND JOINTS SHALL BE SEALED. **C.** PIPE INSULATION BURIED BELOW GRADE MUST BE INSTALLED IN A
- WATER PROOF AND NONCRUSHABLE CASING OR SLEEVE. **12.** PIPE INSULATION: REFER TO TITLE 24 - MANDATORY MEASURES - "SPACE CONDITIONING, WATER HEATING & PLUMBING SYSTEM MEASURES" 13. STRAPS AND HANGERS: PROVIDE AS NECESSARY TO INSURE A STABLE
- INSTALLATION. SEE TITLE-24 FOR WATER HEATER REQUIREMENTS.
- 14. ALL HOSE BIBS SHALL HAVE APPROVED BACK FLOW PREVENTION DEVICES
- **15.** PLUMBING FIXTURES (WATER CLOSETS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL MEET THE STANDARDS REFERENCED IN CALGREEN TABLE 4.303.3
- **16.** WATER HEATER SHALL BE PROVIDED WITH A TEMPERATURE AND PRESSURE RELIEF VALVE. PER [2022 CPC 505.2] THE RELIEF VALVE SHALL BE PROVIDED WITH A DRAIN LINE WHICH EXTENDS FROM THE VALVES TO THE OUTSIDE OF THE BUILDING. PER [2022 608.5 CPC]
- **17.** PER 2022 CPC 603.5.7 OUTLETS WITH HOSE ATTATCHMENTS. POTABLE WATER OUTLETS WITH HOSE ATTACHMENTS, OTHER THAN WATER HEATER DRAINS, BOILER DRAINS, AND CLOTHES WASHER CONNECTIONS, SHALL BE PROTECTED BY A NONREMOVABLE HOSE BIBB TYPE BACKFLOW PREVENTER, A NONREMOVABLE HOSE BIBB TYPE VACUMM BREAKER, OR BY AN ATMOSPHERE VACUUM BREAKER INSTALLED NOT LESS THAN 6 INCHES ABOVE THE HIGHEST POINT OF USAGE LOCATED ON THE DISCHARGE SIDE OF THE LAST VALVE. IN CLIMATES WHERE FREEZING TEMPERATURES OCCUR, A LISTED SELF DRAINING FROST-PROOF HOSE BIBB WITH AN INTEGRAL BACKFLOW PREVENTER OR VACUUM BREAKER SHALL BE USED.

PROJECT GENERAL NOTES

- 1. APPLICABLE CODES AND STANDARDS:
- 1.1. 2022 CALIFORNIA BUILDING CODE AND ITS APPENDICES AND STANDARDS. 1.2. 2022 CALIFORNIA PLUMBING CODE AND ITS APPENDICES AND STANDARDS.
- 1.3. 2022 CALIFORNIA MECHANICAL CODE AND ITS APPENDICES AND STANDARDS.
- 1.4. 2022 CALIFORNIA FIRE CODE AND ITS APPENDICES AND STANDARDS. 1.5. 2022 CALIFORNIA ELECTRICAL CODE AND ITS APPENDICES AND STANDARDS.
- 1.6. 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS.
- 1.7 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE AND ITS APPENDICES AND STANDARDS. 1.8 CURRENT COUNTY OF MONO COUNTY, CA MUNICIPAL CODE.
- 2. ALL WORK DESCRIBED IN THE DRAWINGS SHALL BE VERIFIED FOR DIMENSION, GRADE, EXTENT AND COMPATIBILITY WITH EXISTING SITE CONDITIONS. ANY DISCREPANCIES AND UNEXPECTED CONDITIONS THAT AFFECT OR CHANGE THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY. DO NOT PROCEED WITH THE WORK IN THE AREA OF DISCREPANCIES UNTIL ALL SUCH DISCREPANCIES ARE RESOLVED. IF THE CONTRACTOR CHOOSES TO DO SO, HE/SHE SHALL BE PROCEEDING AT HIS/HER OWN RISK.
- DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER DRAWING SCALE OR PROPORTION. LARGER SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS
- 4. IN THE EVENT OF THE UNFORESEEN ENCOUNTER OF MATERIALS SUSPECTED TO BE OF AN ARCHAEOLOGICAL OR PALEONTOLOGICAL NATURE, ALL GRADING AND EXCAVATION SHALL CEASE IN THE IMMEDIATE AREA AND THE THE CONTRACTOR SHALL NOTIFY THE OWNER. THE FIND SHALL BE LEFT UNTOUCHED UNTIL AN EVALUATION BY A QUALIFIED ARCHAEOLOGIST OR PALEONTOLOGIST IS MADE.
- CONTRACTOR IS TO BE RESPONSIBLE FOR BEING FAMILIAR WITH THESE DOCUMENTS INCLUDING ALL CONTRACT REQUIREMENTS.
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS 6. REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- SHOP WELDS MUST BE PERFORMED BY A LICENSED FABRICATOR'S SHOP. 8. THE FOLLOWING ITEMS SHOWN ON THE DRAWINGS ARE OWNER PROVIDED, OWNER INSTALLED. UTILITIES PROVIDED FOR THESE ITEMS WILL BE PROVIDED BY THE CONTRACTOR. CONTRACTOR TO COORDINATE INSTALLATION WITH OWNER.
- 8.1. TV/DVD SYSTEMS 8.2 ICE MACHINE
- 8.3 VENDING MACHINE
- 8.4 REFRIGERATOR 8.5 MICROWAVE
- OSHA PERMITS REQUIRED FOR VERTICAL CUTS 5' OR OVER.
- 10. CONTRACTOR TO PROVIDE COMPLETE DETAILS OF ENGINEERED TEMPORARY SHORING OR SLOT CUTTING PROCEDURES ON PLANS. CALL FOR INSPECTION **BEFORE EXCAVATION BEGINS** 11. THE SOILS ENGINEER IS TO APPROVE THE KEY OR BOTTOM AND LEAVE A
- CERTIFICATE ON THE SITE FOR THE GRADING INSPECTOR. THE GRADING INSPECTOR IS TO BE NOTIFIED BEFORE ANY GRADING BEGINS, AND FOR BOTTOM INSPECTION, BEFORE FILL IS PLACED. FILL MAY NOT BE PLACED WITHOUT APPROVAL OF THE GRADING INSPECTOR. 12. CONTRACTOR TO REVIEW CALIFORNIA GREEN CODE REQUIREMENTS FOR
- CONTRACTOR REQUIREMENTS. 13. A SEPARATE OFFICER, ACCESS EASEMENT/AGREEMENT, AND/OR
- RECIPROCAL ACCESS EASEMENT/AGREEMENT MAY BE REQUIRED TO INSURE THAT THE PROPOSED PRIVATE ACCESS ROADWAY WILL REMAIN OPEN TO THROUGH TRAFFIC AND EMERGENCY VEHICLES PRIOR TO FINAL OF BUILDING PFRMIT

MECHANICAL NOTES

- 1. CONFORM WITH CURRENT ADOPTED CRC, CMC, SMACCNA, NFPA AND LOCAL REQUIREMENTS.
- 2. DUCTWORK: SMACCNA "LOW VELOCITY DUCT CONSTRUCTION" NFPA STANDARD #90A. ALL TRANSVERSE DUCT PLENUM AND FITTING JOINTS SHALL BE SEALED WITH PRESSURE SENSITIVE NON-CLOTH TAPE MEETING THE REQUIREMENTS OF UL181, 181A, OR 181B, OR MASTIC TO PREVENT AIR LOSS. DUCTS SHALL BE INSULATED AS REQUIRED BY THE UMC. SEE FLOOR PLAN FOR F.A.U. AND FIREPLACES. DUCTS PENETRATING A WALL OR FLOOR-CEILING BETWEEN GARAGE & DWELLING TO BE MINIMUM 26 GAUGE METAL WITHOUT OPENING IN GARAGE. FIRE DAMPER REQUIRED OTHERWISE
- 3. GRILLES AND REGISTERS, DIFFUSERS, ETC: SUBJECT TO OWNERS APPROVAL. "CARNES" OR EQUAL FANS: DIRECTLY VENTED TO OUTSIDE, BACK DRAFT DAMPERS ARE REQUIRED (PER TABLE 2-53V, TITLE 24 C.A.C.).
- LAUNDRY DRYER VENT TO EXTERIOR TO BE 14 FEET MAXIMUM, LESS 2 FEET PER 90 DEGREE TURN IN EXCESS OF 2 PER CMC 504.4.2.1. IF VENT IS OVER 14' AN APPROVED POWER ASSISTED DEVICE IS REQUIRED. DRYER EXHAUST DUCT POWER

VENTILATORS SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 705 AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PER 2022 CMC, SECTION 504.2.2.3. SEE NOTE BELOW

- BATHROOM EXHAUST FANS (BATHROOM APPLIES TO ROOMS CONTAINING BATHTUB, SHOWER, OR TUB/SHOWER COMBINATION) WHICH EXHAUST DIRECTLY FROM BATHROOMS SHALL COMPLY WITH THE FOLLOWING (2022 CGBSC SEC. 4.506.1):
- a. FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING MIN 3' FROM OPENINGS. b. UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A HUMIDITY CONTROL.
- HUMIDITY CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF ≤ 50 PERCENT TO A MAXIMUM OF 80 PERCENT. A HUMIDITY CONTROL MAY UTILIZE MANUAL OR AUTOMATIC MEANS OF ADJUSTMENT. A HUMIDITY CONTROL MAY BE A
- SEPARATE COMPONENT TO EXHAUST FAN AND IS NOT REQUIRED TO BE INTEGRAL(I.E. BUILT IN) 6. BATHROOM EXHAUST FANS SHALL PROVIDE MINIMUM 50 CFM EXHAUST
- RATE (2022 CMC TABLE 403.7). KITCHEN EXHAUST FANS SHALL PROVIDE MINIMUM 100 CFM EXHAUST RATE
- (2022 CMC TABLE 403.7)



THESE PLANS ARE PROVIDED BY MONO COUNTY AS PART OF THE PRE-APPROVED ADU PROGRAM AND ARE PUBLIC DOMAIN. THERE CANNOT BE A CHARGE TO PROVIDE THESE PLANS. NO ALTERATIONS TO THESE PLANS ARE ALLOWED. ALL ALTERATIONS MUST BE DONE UNDER A SEPARATE PERMIT ONCE THE BUILDING PERMIT FOR THE ADU HAS BEEN ISSUED AND FINAL INSPECTION COMPLETED. IF YOU DO NOT HAVE THE CONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONTRUCT THESE PLANS WITHOUT FURTHER DETAILS, IT IS RECOMMENDED YOU HIRE A CONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS AND BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.

MONO COUNTY ADU PROTOTYPES MONO COUNTY	GENERAL NOTES
DATE 01/10/2024 SHEET	

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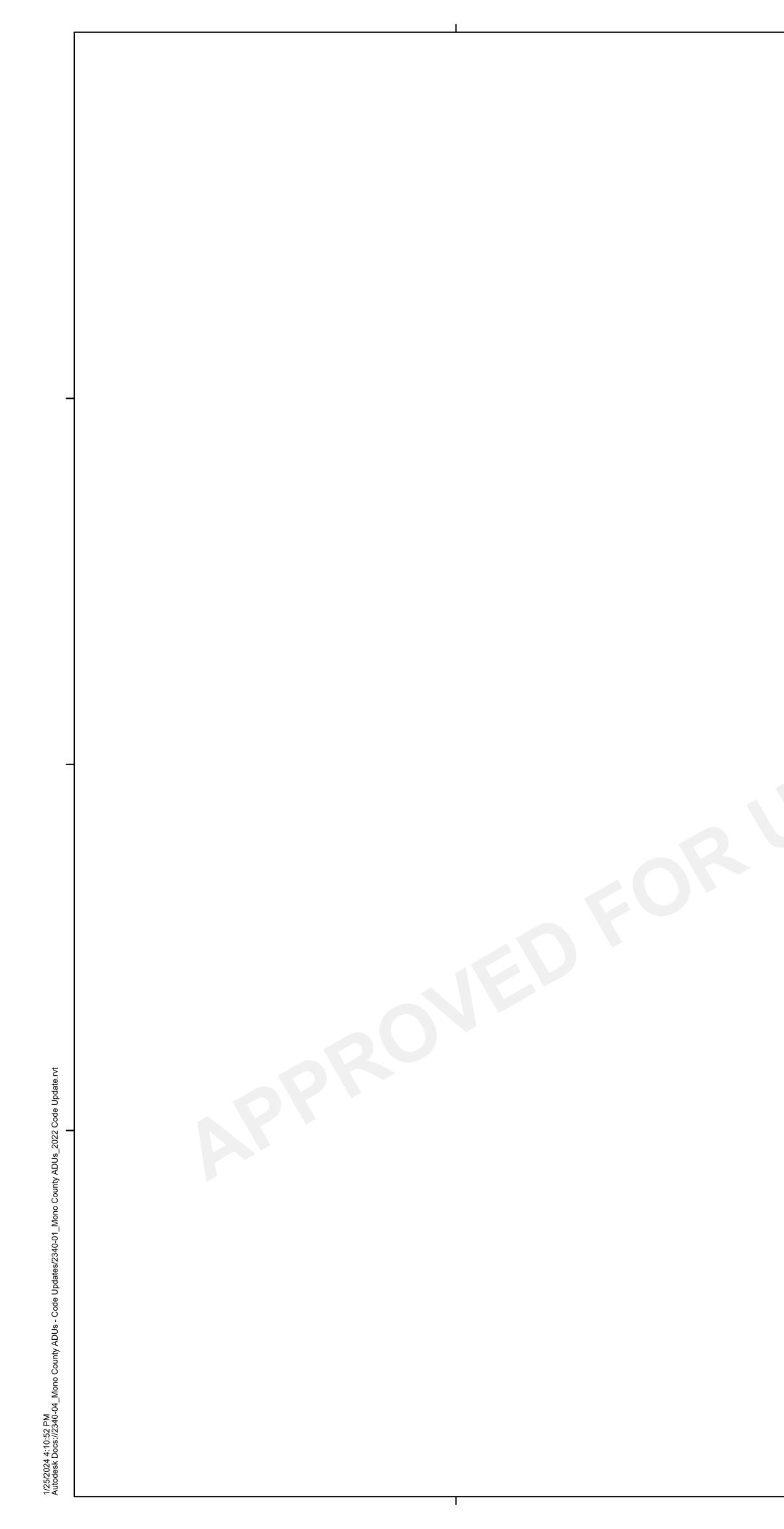
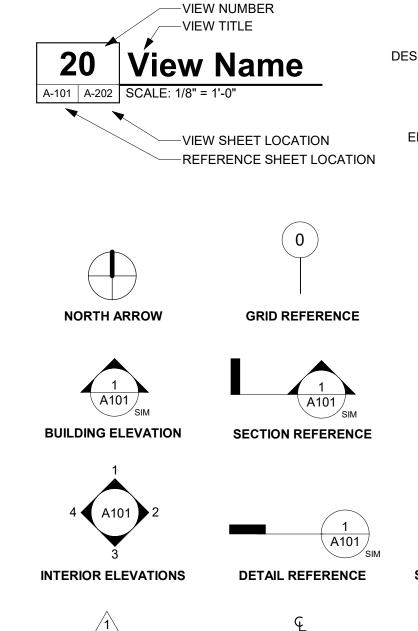


ABB	REV	NS

SYM	BOLS		
FOC	FACE OF FINISH	PTD	PAINTED
FO FOC	FACE OF FACE OF CONCRETE	PSL PT	PARALLEL STRAND LUMBER PRESSURE TREATED
FND		PSI PSL	POUNDS PER SQUARE INCH PARALLEL STRAND LUMBER
FLUOR	FLOURESCENT	PSF	POUNDS PER SQUARE FOOT
FLR	FLOOR	PRTN	PARTITION
FIN FIXT	FINISH FIXTURE	PP PR	POWER POLE
FHC	FIRE HOSE CABINET	PNL PP	PANEL POWER POLE
FH	FIRE HYDRANT	PLYWD	PLYWOOD
FG	FINISHED FLOOR ELEVATION FINISHED GRADE	PLBG	PLUMBING
FEC FF	FIRE EXTINGUISHER CABINET FINISHED FLOOR ELEVATION	PL PLAM	PLATE, PROPERTY LINE PLASTIC LAMINATE
FE		PG PL	PAINT GRADE PLATE, PROPERTY LINE
FDC	FIRE DEPARTMENT CONNECTION	PERP	
FD	FLOOR DRAIN	PERM	PERIMETER
FAWP	FLUID APPLIED WATERPROOFING	(P)	PROPOSED
FACP FAU	FIRE ALARM CONTROL PANEL FORCED AIR UNIT	OPG	OPPOSITE
EXT FACP	EXTERIOR FIRE ALARM CONTROL PANEL	OH OPG	OPPOSITE HAND OPENING
EXP	EXPANSION	OFF	
EXH	EXHAUST	OD	OVERFLOW DRAIN
EQUIP	EQUIPMENT	OC	ON CENTER
ENCL	EQUAL	O.P.	OVERFLOW PIPE
ELEC ENCL	ELECTRIC ENCLOSURE	NTS	NOMINAL NOT TO SCALE
ELEV		NO NOM	NUMBER NOMINAL
EL,	ELEVATION	NIC	
EJ	EXPANSION JOINT	Ν	NORTH
E EA	EAST EACH	MTL	METAL
(E) E		MTD	MASONRY OPENING MOUNTED
DWG	DRAWING	MISC MO	MISCELLANEOUS MASONRY OPENING
DW	DISHWASHER	MIN	
DTL	DETAIL	MFR	MANUFACTURER
DS	DOWN SPOUT	MEP	MECHANICAL, ELECTRICAL, PLUMBING
DR	DOOR	MEMB	MEMBRANE
DIM DN	DIMENSION DOWN	MECH	MECHANICAL
DIA		MAX	MEDIUM DENSITY FIBERBOARD
DF		LW MAX	LIGHTWEIGHT MAXIMUM
DBL	DOUBLE	LVT	
CTR	CENTER	LVL	LAMINATED VENEER LUMBER
CPT		LT(G)	LIGHT(ING)
CONTR CPT	CONTRACTOR CARPET	LINO	LINOLEUM
	CONTINUOUS	LF LIN	LINEAR FEET LINEN CLOSET
	CONSTRUCTION	LF	ENVIRONMENTAL DESIGN LINEAR FEET
CONC	CONCRETE	LEED	
COL	COLUMN	LBS	POUNDS
CMU	CUNCRETE MASONRY UNIT CLEAN OUT	LAV	LAVINATE
CLR CMU	CLEAR CONCRETE MASONRY UNIT	LAM	JOINT
CLO	CLOSET	JC JT	JANITORS CLOSET JOINT
CLG	CEILING	INT	
CL	CENTER LINE	INSUL	INSULATION, INSULATED
CJ	CONTROL JOINT		INCANDESCENT
CFM CIP	CUBIC FEET PER MINUTE CAST IN PLACE	IN	INCH
CEM		ID IIC	INSIDE DIAMETER IMPACT INSULATION CLASS
CBC	CALIFORNIA BUILDING CODE	HVAC	HEATING, VENTILATION, A/C
CB	CATCH BASIN	HORIZ	HORIZONTAL
BUR	BUILT UP ROOF	НМ	HOLLOW METAL
BM BOT	BEAM BOTTOM	HGT	HEIGHT
BLW	BELOW	HDWD HDWR	HARDWOOD HARDWARE
BLKG	BLOCKING	HC	
BLDG	BUILDNG	HB	HOSE BIBB
BIT	BITUMINOUS	GYP	GYPSUM
BDRM BET	BEDROOM BETWEEN	GFCI GWB	GROUND FAULT CIRCUIT INTERRUPTER GYPSUM BOARD
BD	BOARD	GC GFCI	GENERAL CONTRACTOR GROUND FAULT CIRCUIT INTERRUPTER
ARCH	ARCHITECT(URAL)	GB	GRAB BAR
ALT	ALTERNATE	GALV	GALVANIZED
AFF AL	ABOVE FINISH FLOOR ALUMINUM	GA	GAUGE, GAGE
		FT FTG	FOOT OR FEET FOOTING
ADA	AMERICANS WITH DISABILITIES ACT	FRP	FIBERGLASS REINFORCED PANELS
ACT	ACOUSTICAL CEILING TILE	FOS	FACE OF STUD
ABV	ACOUSTICAL	FOM	FACE OF MASONRY
A/C ABV	AIR CONDITIONING ABOVE	FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR
		5010	

3TIMBUL3



<u>/1</u> **REVISION TAG**

CENTERLINE

PV PHOTO VOLTAIC PVC POLYVINYL CHLORIDE PVMT PAVEMENT QUANTITY QTY RADIUS, RISER RUBBER BASE RCP REFLECTED CEILING PLAN RD ROOF DRAIN REF REFRIGERATOR REINF REINFORCED REQD REQUIRED RH RIGHT HAND RM ROOM RO ROUGH OPENING RTU ROOF TOP UNIT (MECH) SOUTH S SAFB SOUND ATTENUATION FIBER BATT SAWP SELF ADHEREING WATERPROOFING SC SCUPPER/SOLID CORE SCHED SCHEDULE SEAL SEALANT SECT SECTION SF SQUARE FOOT SHT SHEET SHTHG SHEATHING SIM SIMILAR SM SHEET METAL SPEC SPECIFICATION SQ SQURE SOLID SURFACE SS SSTL STAINLESS STEEL STC SOUND TRANSMISSION CLASS STD STANDARD STL STEEL STOR STORAGE STRUCT STRUCTURAL SUSP SUPSPENDED SV SHEET VINYL SYM SYMMMETRICAL Т TREAD T&G TONGUE & GROOVE TEL TELEPHONE TEMP TEMPERED TER TERRAZZO THK THICK THR THRESHOLD TJI TRUSS JOIST I-JOIST ТО TOP OF TOS TOP OF SLAB TOW TOP OF WALL TRANS TRANSFORMER TV TELEVISION TYP TYPICAL UFAS UNIFORM FEDERAL ACCESSIBILITY STANDARDS UG UNDERGROUND UNFIN UNFINISHED UNO ULNESS NOTED OTHERWISE UV UTRAVIOLET VCT VINYL COMPOSITION TILE VERT VERTICAL VIF VERIFY IN FIELD VTR VENT TERMINATION PIPE VWC VINYL WALL COVERING WEST WITH W/D WASHER DRYER W/O WITHOUT WC WATERCLOSET WD WOOD WDW WINDOW WH WATER HEATER WROUGHT IRON WINDOW WIN WP WATERPROOF(ING) WEATHER RESISTIVE WR WATER RESISTIVE BARRIER WRB WSCT WAINSCOT WT WEIGHT WWF WELDED WIRE FABRIC YD YARD

R

RB

W

W/

WI



THESE PLANS ARE PROVIDED BY MONO COUNTY AS PART OF THE PRE-APPROVED ADU PROGRAM AND ARE PUBLIC DOMAIN. THERE CANNOT BE A CHARGE TO PROVIDE THESE PLANS. NO ALTERATIONS TO THESE PLANS ARE ALLOWED. ALL ALTERATIONS MUST BE DONE UNDER A SEPARATE PERMIT ONCE THE BUILDING PERMIT FOR THE ADU HAS BEEN ISSUED AND FINAL INSPECTION COMPLETED. IF YOU DO NOT HAVE THE CONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONTRUCT THESE PLANS WITHOUT FURTHER DETAILS, IT IS RECOMMENDED YOU HIRE A CONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS AND BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.

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О В Σ AD \succ S COUNTY SOTOTYPES DNO COUNTY S ND \triangleleft ATIONS MONO E<I BBRI \checkmark DATE 01/10/2024 SET PUBLIC SHEET G-102

LEVEL-DESIGNATION

LEVEL-ELEVATION **BUILDING LEVELS**

DOOR W/CLOSER (101)

(01) WINDOW TAG

DOOR TAG

A4 WALL TAG

S STOREFRONT TAG

> (P1) MATERIAL TAG

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

CHAPTER 1 - ADMINISTRATION

SECTION 101 GENERAL

101.1 TITLE. THESE REGULATIONS SHALL BE KNOWN AS THE CALIFORNIA GREEN BUILDING STANDARDS CODE AND MAY BE CITED AS SUCH AND WILL BE REFERRED TO HEREIN AS "THIS CODE." IT IS INTENDED THAT IT SHALL ALSO BE KNOWN AS THE CALGREEN CODE. THE CALIFORNIA GREEN BUILDING STANDARDS CODE IS PART 11 OF THIRTEEN PARTS OF THE OFFICIAL COMPILATION AND PUBLICATION OF THE ADOPTION, AMENDMENT AND REPEAL OF BUILDING REGULATIONS TO THE CALIFORNIA CODE OF

101.2 PURPOSE

STANDARDS CODE.

THE PURPOSE OF THIS CODE IS TO IMPROVE PUBLIC HEALTH, SAFETY AND GENERAL WELFARE BY ENHANCING THE DESIGN AND CONSTRUCTION OF BUILDINGS THROUGH THE USE OF BUILDING CONCEPTS HAVING A REDUCED NEGATIVE IMPACT OR POSITIVE ENVIRONMENTAL IMPACT AND ENCOURAGING SUSTAINABLE CONSTRUCTION PRACTICES IN THE FOLLOWING CATEGORIES:

REGULATIONS, TITLE 24, ALSO REFERRED TO AS THE CALIFORNIA BUILDING

- . PLANNING AND DESIGN.
- 2. ENERGY EFFICIENCY.
- 3. WATER EFFICIENCY AND CONSERVATION. 4. MATERIAL CONSERVATION AND RESOURCE EFFICIENCY. 5. ENVIRONMENTAL QUALITY.

101.3 SCOPE.

THE PROVISIONS OF THIS CODE SHALL APPLY TO THE PLANNING, DESIGN, OPERATION, CONSTRUCTION, USE AND OCCUPANCY OF EVERY NEWLY CONSTRUCTED BUILDING OR STRUCTURE, UNLESS OTHERWISE INDICATED IN THIS CODE, THROUGHOUT THE STATE OF CALIFORNIA.

IT IS NOT THE INTENT THAT THIS CODE SUBSTITUTE OR BE IDENTIFIED AS MEETING THE CERTIFICATION REQUIREMENTS OF ANY GREEN BUILDING PROGRAM

SECTION 102 CONSTRUCTION DOCUMENTS AND INSTALLATION VERIFICATION

102.1 SUBMITTAL DOCUMENTS.

CONSTRUCTION DOCUMENTS AND OTHER DATA SHALL BE SUBMITTED IN ONE OR MORE SETS WITH EACH APPLICATION FOR A PERMIT. WHERE SPECIAL CONDITIONS EXIST, THE ENFORCING AGENCY IS AUTHORIZED TO REQUIRE ADDITIONAL CONSTRUCTION DOCUMENTS TO BE PREPARED BY A LICENSED DESIGN PROFESSIONAL AND MAY BE SUBMITTED SEPARATELY.

EXCEPTION: THE ENFORCING AGENCY IS AUTHORIZED TO WAIVE THE SUBMISSION OF CONSTRUCTION DOCUMENTS AND OTHER DATA NOT REQUIRED TO BE PREPARED BY A LICENSED DESIGN PROFESSIONAL.

102.2 INFORMATION ON CONSTRUCTION DOCUMENTS.

CONSTRUCTION DOCUMENTS SHALL BE OF SUFFICIENT CLARITY TO INDICATE THE LOCATION. NATURE AND SCOPE OF THE PROPOSED GREEN BUILDING FEATURE AND SHOW THAT IT WILL CONFORM TO THE PROVISIONS OF THIS CODE. THE CALIFORNIA BUILDING STANDARDS CODE AND OTHER RELEVANT LAWS, ORDINANCES, RULES AND REGULATIONS AS DETERMINED BY THE ENFORCING AGENCY.

102.3 VERIFICATION.

DOCUMENTATION OF CONFORMANCE FOR APPLICABLE GREEN BUILDING MEASURES SHALL BE PROVIDED TO THE ENFORCING AGENCY. ALTERNATE METHODS OF DOCUMENTATION SHALL BE ACCEPTABLE WHEN THE ENFORCING AGENCY FINDS THAT THE PROPOSED ALTERNATE DOCUMENTATION IS SATISFACTORY TO DEMONSTRATE SUBSTANTIAL CONFORMANCE WITH THE INTENT OF THE PROPOSED GREEN BUILDING MEASURE.

CHAPTER 3 - GREEN BUILDING

SECTION 301 GENERAL

301.1 SCOPE.

BUILDINGS SHALL BE DESIGNED TO INCLUDE THE GREEN BUILDING MEASURES SPECIFIED AS MANDATORY IN THE APPLICATION CHECKLISTS CONTAINED IN THIS CODE. VOLUNTARY GREEN BUILDING MEASURES ARE ALSO INCLUDED IN THE APPLICATION CHECKLISTS AND MAY BE INCLUDED IN THE DESIGN AND CONSTRUCTION OF STRUCTURES COVERED BY THIS CODE, BUT ARE NOT REQUIRED UNLESS ADOPTED BY A CITY, COUNTY, OR CITY AND COUNTY AS SPECIFIED IN SECTION 101.7.

301.1.1 ADDITIONS AND ALTERATIONS. [HCD] THE MANDATORY PROVISIONS OF CHAPTER 4 SHALL BE APPLIED TO ADDITIONS OR ALTERATIONS OF EXISTING RESIDENTIAL BUILDINGS WHERE THE ADDITION OR ALTERATION INCREASES THE BUILDING'S CONDITIONED AREA, VOLUME, OR SIZE. THE REQUIREMENTS SHALL APPLY ONLY TO AND/OR WITHIN THE SPECIFIC AREA OF THE ADDITION OR ALTERATION.

THE MANDATORY PROVISIONS OF SECTION 4.106.4.2 MAY APPLY TO ADDITIONS OR ALTERATIONS OF EXISTING PARKING FACILITIES OR THE ADDITION OF NEW PARKING FACILITIES SERVING EXISTING MULTIFAMILY BUILDINGS. SEE SECTION 4.106.4.3 FOR APPLICATION.

NOTE: REPAIRS INCLUDING, BUT NOT LIMITED TO, RESURFACING. RESTRIPING, AND REPAIRING OR MAINTAINING EXISTING LIGHTING FIXTURES ARE NOT CONSIDERED ALTERATIONS FOR THE PURPOSE OF THIS SECTION.

301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS [HCD]. THE PROVISIONS OF INDIVIDUAL SECTIONS OF CALGREEN MAY APPLY TO EITHER LOW-RISE RESIDENTIAL BUILDINGS, HIGH-RISE RESIDENTIAL

BUILDINGS, OR BOTH. INDIVIDUAL SECTIONS WILL BE DESIGNATED BY BANNERS TO INDICATE WHERE THE SECTION APPLIES SPECIFICALLY TO LOW-RISE ONLY (LR) OR HIGH-RISE ONLY (HR). WHEN THE SECTION APPLIES TO BOTH LOW-RISE AND HIGH-RISE BUILDINGS, NO BANNER WILL BE USED.

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. IN MIXED OCCUPANCY BUILDINGS, EACH PORTION OF A BUILDING SHALL COMPLY WITH THE SPECIFIC GREEN BUILDING MEASURES APPLICABLE TO EACH SPECIFIC OCCUPANCY.

CHAPTER 4 - RESIDENTIAL MANDATORY MEASURES

DIVISION 4.1 PLANNING AND DESIGN 4.106 SITE DEVELOPMENT

4.106.1 GENERAL.

PRESERVATION AND USE OF AVAILABLE NATURAL RESOURCES SHALL BE ACCOMPLISHED THROUGH EVALUATION AND CAREFUL PLANNING TO MINIMIZE NEGATIVE EFFECTS ON THE SITE AND ADJACENT AREAS. PRESERVATION OF SLOPES, MANAGEMENT OF STORM WATER DRAINAGE AND EROSION CONTROLS SHALL COMPLY WITH THIS SECTION.

- 4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION PROJECTS WHICH DISTURB LESS THAN ONE ACRE OF SOIL AND ARE NOT PART OF A LARGER COMMON PLAN OF DEVELOPMENT WHICH IN TOTAL DISTURBS ONE ACRE OR MORE, SHALL MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION. IN ORDER TO MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION, ONE OR MORE OF THE FOLLOWING MEASURES SHALL BE IMPLEMENTED TO PREVENT FLOODING OF ADJACENT PROPERTY PREVENT EROSION AND RETAIN SOIL RUNOFF ON THE SITE. 1. RETENTION BASINS OF SUFFICIENT SIZE SHALL BE UTILIZED TO RETAIN
- STORM WATER ON THE SITE. 2. WHERE STORM WATER IS CONVEYED TO A PUBLIC DRAINAGE SYSTEM. COLLECTION POINT, GUTTER OR SIMILAR DISPOSAL METHOD, WATER SHALL BE FILTERED BY USE OF A BARRIER SYSTEM. WATTLE OR OTHER METHOD APPROVED BY THE ENFORCING AGENCY. 3. COMPLIANCE WITH A LAWFULLY ENACTED STORM WATER
- MANAGEMENT ORDINANCE.

4.106.3 GRADING AND PAVING

CONSTRUCTION PLANS SHALL INDICATE HOW THE SITE GRADING OR DRAINAGE SYSTEM WILL MANAGE ALL SURFACE WATER FLOWS TO KEEP WATER FROM ENTERING BUILDINGS. EXAMPLES OF METHODS TO MANAGE SURFACE WATER INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: 1. SWALES

- 2. WATER COLLECTION AND DISPOSAL SYSTEMS
- FRENCH DRAINS
- 4. WATER RETENTION GARDENS 5. OTHER WATER MEASURES WHICH KEEP SURFACE WATER AWAY FROM BUILDINGS AND AID IN GROUNDWATER RECHARGE. **EXCEPTIONS:** ADDITIONS AND ALTERATIONS NOT ALTERING THE DRAINAGE PATH.
- 4.106.4 ELECTRIC VEHICLE (EV) CHARGING FOR NEW CONSTRUCTION NEW CONSTRUCTION SHALL COMPLY WITH SECTION 4.106.4.1, 4.106.4.2, OR 4.106.4.3, TO FACILITATE FUTURE INSTALLATION AND USE OF EV CHARGERS. ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE) SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE. ARTICLE 625.

EXCEPTIONS:

- 1. ON A CASE-BY-CASE BASIS, WHERE THE LOCAL ENFORCING AGENCY HAS DETERMINED EV CHARGING AND INFRASTRUCTURE ARE NOT FEASIBLE BASED UPON ONE OR MORE OF THE FOLLOWING CONDITIONS: 1.1. WHERE THERE IS NO LOCAL UTILITY POWER SUPPLY OR THE LOCAL UTILITY IS UNABLE TO SUPPLY ADEQUATE POWER. 1.2. WHERE THERE IS EVIDENCE SUITABLE TO THE LOCAL ENFORCING AGENCY SUBSTANTIATING THAT ADDITIONAL LOCAL UTILITY INFRASTRUCTURE DESIGN REQUIREMENTS, DIRECTLY RELATED TO THE IMPLEMENTATION OF SECTION 4.106.4, MAY ADVERSELY IMPACT THE CONSTRUCTION COST OF THE PROJECT.
- 2. ACCESSORY DWELLING UNITS (ADU) AND JUNIOR ACCESSORY DWELLING UNITS (JADU) WITHOUT ADDITIONAL PARKING FACILITIES.

4.106.4.1 NEW ONE- AND TWO-FAMILY DWELLINGS AND TOWNHOUSES WITH ATTACHED PRIVATE GARAGES

FOR EACH DWELLING UNIT, INSTALL A LISTED RACEWAY TO ACCOMODATE A DEDICATED 208/240-VOLT BRANCH CIRCUIT. THE RACEWAY SHALL NOT BE LESS THAN TRADE SIZE 1 (NOMINAL 1-INCH INSIDE DIAMTER). THE RACEWAY SHALL ORIGINATE AT THE MAIN SERVICE OR SUBPANEL AND SHALL TERMINATE INTO A LISTED CABINET. BOX OR OTHER ENCLOSURE IN CLOSE PROXIMITY TO THE PROPOSED LOCATION OF AN EV CHARGER. RACEWAYS ARE REQUIRED TO BE CONTINUOUS AT ENCLOSED, INACCESSIBLE OR CONCEALED AREAS AND SPACES. THE SERVICE PANEL AND/OR SUBPANEL SHALL PROVIDE CAPACITY TO INSTALL A 40-AMPERE MINIMUM DEDICATED BRANCH CIRCUIT AND SPACE(S) RESERVED TO PERMIT INSTALLATION OF A BRANCH CIRCUIT OVERCURRENT PROTECTION DEVICE.

4.106.4.1.1 IDENTIFICATION THE SERVICE PANEL OR SUBPANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVERCURRENT PROTECTIVE DEVICE SPACE(S) RESERVED FOR FUTURE EV CHARGING AS "EV CAPABLE". THE RACEWAY TERMINATION LOCATION SHALL BE PERMANENTLY AND VISIBLY MARKED AS "EV CAPABLE".

4.106.4.2 NEW MULTIFAMILY DWELLINGS, HOTELS AND MOTELS AND NEW

RESIDENTIAL PARKING FACILITIES WHEN PARKING IS PROVIDED, PARKING SPACES FOR NEW MULTIFAMILY DWELLINGS, HOTELS AND MOTELS SHALL MEET THE REQUIREMENTS OF SECTIONS 4.106.4.2.1 AND 4.106.4.2.2. CALCULATIONS FOR SPACES SHALL BE ROUNDED UP TO THE NEAREST WHOLE NUMBER. A PARKING SPACE SERVED BY ELECTRIC VEHICLE SUPPLY EQUIPMENT OR DESIGNED AS A FUTURE EV CHARGING SPACE SHALL COUNT AS AT LEAST ONE STANDARD AUTOMOBILE PARKING SPACE ONLY FOR THE PURPOSE OF COMPLYING WITH ANY APPLICABLE MINIMUM PARKING SPACE REQUIREMENTS ESTABLISHED BY A LOCAL JURISDICTION. SEE VEHICLE CODE SECTION 22511.2 FOR FURTHER DETAILS.

4.106.4.2.1 MULTIFAMILY DEVELOPMENT PROJECTS WITH LESS THAN 20 DWELLING UNITS; AND HOTELS AND MOTELS WITH LESS THAN 20 SLEEPING

- UNITS OR GUEST ROOMS THE NUMBER OF DWELLING UNITS, SLEEPING UNITS OR GUEST ROOMS SHALL BE BASED ON ALL BUILDINGS ON A PROJECT SITE SUBJECT TO THIS SECTION.
- EV CAPABLE. TEN (10) PERCENT OF THE TOTAL NUMBER OF PARKING SPACES ON A BUILDING SITE, PROVIDED FOR ALL TYPES OF PARKING FACILITIES, SHALL BE ELECTRIC VEHICLE CHARGING SPACES (EV SPACES) CAPABLE OF SUPPORTING FUTURE LEVEL 2 EVSE. ELECTRICAL LOAD CALCULATIONS SHALL DEMONSTRATE THAT THE ELECTRICAL PANEL SERVICE CAPACITY AND ELECTRICAL SYSTEM, INCLUDING ANY ON-SITE DISTRIBUTION TRANSFORMER(S), HAVE SUFFICIENT CAPACITY TO SIMULTANEOUSLY CHARGE ALL EVS AT ALL REQUIRED EV SPACES AT A MINIMUM OF 40 AMPERES.

THE SERVICE PANEL OR SUBPANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVERCURRENT PROTECTIVE DEVICE SPACE(S) RESERVED FOR FUTURE EV CHARGING PURPOSES AS "EV CAPABLE" IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE. EXCEPTIONS:

- 1. WHEN EV CHARGERS (LEVEL 2 EVSE) ARE INSTALLED IN A NUMBER EQUAL TO OR GREATER THAN THE REQUIRED NUMBER OF EV CAPABLE SPACES.
- 2. WHEN EV CHARGERS (LEVEL 2 EVSE) ARE INSTALLED IN A NUMBER LESS THAN THE REQUIRED NUMBER OF EV CAPABLE SPACES, THE NUMBER OF EV CAPABLE SPACES REQUIRED MAY BE REDUCED BY A NUMBER EQUAL TO THE NUMBER OF EV CHARGERS INSTALLED.
- NOTES: a. CONSTRUCTION DOCUMENTS ARE INTENDED TO DEMONSTRATE THE PROJECT'S CAPABILITY AND CAPACITY FOR FACILITATING FUTURE EV
- CHARGING. **b.** THERE IS NO REQUIREMENT FOR EV SPACES TO BE CONSTRUCTED OR AVAILABLE UNTIL RECEPTACLES FOR EV CHARGING OR EV CHARGERS ARE INSTALLED FOR USE.

2. EV READY. TWENTY-FIVE (25) PERCENT OF THE TOTAL NUMBER OF PARKING SPACES SHALL BE EQUIPPED WITH LOW POWER LEVEL 2 EV CHARGING RECEPTACLES. FOR MULTIFAMILY PARKING FACILITIES, NO MORE THAN ONE RECEPTACLE IS REQUIRED PER DWELLING UNIT WHEN MORE THAN ONE PARKING SPACE IS PROVIDED FOR USE BY A SINGLE DWELLING UNIT. **EXCEPTION:** AREAS OF PARKING FACILITIES SERVED BY PARKING LIFTS.

4.106.4.2.2 MULTIFAMILY DEVELOPMENT PROJECTS WITH 20 OR MORE DWELLING UNITS, HOTELS AND MOTELS WITH 20 OR MORE SLEEPING UNITS OR GUEST ROOMS

THE NUMBER OF DWELLING UNITS, SLEEPING UNITS OR GUEST ROOMS SHALL BE BASED ON ALL BUILDINGS ON A PROJECT SITE SUBJECT TO THIS SECTION. 1. EV CAPABLE. TEN (10) PERCENT OF THE TOTAL NUMBER OF PARKING

SPACES ON A BUILDING SITE, PROVIDED FOR ALL TYPES OF PARKING FACILITIES. SHALL BE ELECTRIC VEHICLE CHARGING SPACES (EV SPACES) CAPABLE OF SUPPORTING FUTURE LEVEL 2 EVSE. ELECTRICAL LOAD CALCULATIONS SHALL DEMONSTRATE THAT THE ELECTRICAL PANEL SERVICE CAPACITY AND ELECTRICAL SYSTEM, INCLUDING ANY ON-SITE DISTRIBUTION TRANSFORMER(S), HAVE SUFFICIENT CAPACITY TO SIMULTANEOUSLY CHARGE ALL EVS AT ALL REQUIRED EV SPACES AT A MINIMUM OF 40 AMPERES.

THE SERVICE PANEL OR SUBPANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVERCURRENT PROTECTIVE DEVICE SPACE(S) RESERVED FOR FUTURE EV CHARGING PURPOSES AS "EV CAPABLE" IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

EXCEPTION: WHEN EV CHARGERS (LEVEL 2 EVSE) ARE INSTALLED IN A NUMBER GREATER THAN FIVE (5) PERCENT OF PARKING SPACES REQUIRED BY SECTION 4.106.4.2.2, ITEM 3, THE NUMBER OF EV CAPABLE SPACES REQUIRED MAY BE REDUCED BY A NUMBER EQUAL TO THE NUMBER OF EV CHARGERS INSTALLED OVER THE FIVE (5) PERCENT REQUIRED.

NOTES:

CONSTRUCTION DOCUMENTS SHALL SHOW LOCATIONS OF FUTURE EV SPACES. THERE IS NO REQUIREMENT FOR EV SPACES TO BE CONSTRUCTED OR AVAILABLE UNTIL RECEPTACLES FOR EV CHARGING OR EV CHARGERS ARE INSTALLED FOR USE.

2. EV READY. TWENTY-FIVE (25) PERCENT OF THE TOTAL NUMBER OF PARKING SPACES SHALL BE EQUIPPED WITH LOW POWER LEVEL 2 EV CHARGING RECEPTACLES. FOR MULTIFAMILY PARKING FACILITIES, NO MORE THAN ONE RECEPTACLE IS REQUIRED PER DWELLING UNIT WHEN MORE THAN ONE PARKING SPACE IS PROVIDED FOR USE BY A SINGLE DWELLING UNIT.

EXCEPTION: AREAS OF PARKING FACILITIES SERVED BY PARKING LIFTS

3. EV CHARGERS. FIVE (5) PERCENT OF THE TOTAL NUMBER OF PARKING SPACES SHALL BE EQUIPPED WITH LEVEL 2 EVSE. WHERE COMMON USE PARKING IS PROVIDED. AT LEAST ONE EV CHARGER SHALL BE LOCATED IN THE COMMON USE PARKING AREA AND SHALL BE AVAILABLE FOR USE BY ALL RESIDENTS OR GUESTS.

WHEN LOW POWER LEVEL 2 EV CHARGING RECEPTACLES OR LEVEL 2 EVSE ARE INSTALLED BEYOND THE MINIMUM REQUIRED, AN AUTOMATIC LOAD MANAGEMENT SYSTEM (ALMS) MAY BE USED TO REDUCE THE MAXIMUM REQUIRED ELECTRICAL CAPACITY TO EACH SPACE SERVED BY THE ALMS. THE ELECTRICAL SYSTEM AND ANY ON-SITE DISTRIBUTION TRANSFORMERS SHALL HAVE SUFFICIENT CAPACITY TO DELIVER AT LEAST 3.3 KW SIMULTANEOUSLY TO EACH EV CHARGING STATION (EVCS) SERVED BY THE ALMS. THE BRANCH CIRCUIT SHALL HAVE A MINIMUM CAPACITY OF 40 AMPERES, AND INSTALLED EVSE SHALL HAVE A CAPACITY OF NOT LESS THAN 30 AMPERES. ALMS SHALL NOT BE USED TO REDUCE THE MINIMUM REQUIRED ELECTRICAL CAPACITY TO THE REQUIRED EV CAPABLE SPACES.

4.106.4.2.2.1 ELECTRIC VEHICLE CHARGING STATIONS (EVCS) ELECTRIC VEHICLE CHARGING STATIONS REQUIRED BY SECTION 4.106.4.2.2, ITEM 3, SHALL COMPLY WITH SECTION 4.106.4.2.2.1.

EXCEPTION: ELECTRIC VEHICLE CHARGING STATIONS SERVING PUBLIC ACCOMMODATIONS, PUBLIC HOUSING, MOTELS AND HOTELS SHALL NOT BE REQUIRED TO COMPLY WITH THIS SECTION. SEE CALIFORNIA BUILDING CODE, CHAPTER 11B, FOR APPLICABLE REQUIREMENTS.

4.106.4.2.2.1.1 LOCATION EVCS SHALL COMPLY WITH AT LEAST ONE OF THE FOLLOWING OPTIONS: THE CHARGING 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.

THE CHARGING SPACE SHALL BE LOCATED ON AN ACCESSIBLE ROUTE, AS DEFINED IN THE CALIFORNIA BUILDING CODE, CHAPTER 2, TO THE BUILDING.

EXCEPTION: ELECTRIC VEHICLE CHARGING STATIONS DESIGNED AND CONSTRUCTED IN COMPLIANCE WITH THE CALIFORNIA BUILDING CODE. CHAPTER 11B, ARE NOT REQUIRED TO COMPLY WITH SECTION 4.106.4.2.2.1.1 AND SECTION 4.106.4.2.2.1.2, ITEM 3.

- 4.106.4.2.2.1.2 ELECTRIC VEHICLE CHARGING STATIONS (EVCS) DIMENSIONS THE CHARGING SPACES SHALL BE DESIGNED TO COMPLY WITH THE FOLLOWING:
- 1. THE MINIMUM LENGTH OF EACH EV SPACE SHALL BE 18 FEET. 2. THE MINIMUM WIDTH OF EACH EV SPACE SHALL BE 9 FEET. 3. ONE IN EVERY 25 CHARGING SPACES, BUT NOT LESS THAN ONE, SHALL
- ALSO HAVE AN 8-FOOT WIDE MINIMUM AISLE. A 5-FOOT WIDE MINIMUM AISLE SHALL BE PERMITTED PROVIDED THE MINIMUM WIDTH OF THE EV SPACE IS 12 FEET. a. SURFACE SLOPE FOR THIS EV SPACE AND THE AISLE SHALL NOT
- EXCEED 1 UNIT VERTICAL IN 48 UNITS HORIZONTAL (2.083 PERCENT SLOPE) IN ANY DIRECTION.
- 4.106.4.2.2.1.3 ACCESSIBLE EV SPACES IN ADDITION TO THE REQUIREMENTS IN SECTIONS 4.106.4.2.2.1.1 AND 4.106.4.2.2.1.2, ALL EVSE, WHEN 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.

4.106.4.2.3 EV SPACE REQUIREMENTS

SINGLE EV SPACE REQUIRED. INSTALL A LISTED RACEWAY CAPABLE OF ACCOMMODATING A 208/240-VOLT DEDICATED BRANCH CIRCUIT. THE RACEWAY SHALL NOT BE LESS THAN TRADE SIZE 1 (NOMINAL 1-INCH INSIDE DIAMETER), THE RACEWAY SHALL ORIGINATE AT THE MAIN SERVICE OR SUBPANEL AND SHALL TERMINATE INTO A LISTED CABINET, BOX OR ENCLOSURE IN CLOSE PROXIMITY TO THE LOCATION OR THE PROPOSED LOCATION OF THE EV SPACE. CONSTRUCTION DOCUMENTS SHALL IDENTIFY THE RACEWAY TERMINATION POINT, RECEPTACLE OR CHARGER LOCATION, AS APPLICABLE. THE SERVICE PANEL AND/ OR SUBPANEL SHALL HAVE A 40-AMPERE MINIMUM DEDICATED BRANCH CIRCUIT, INCLUDING BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE INSTALLED, OR 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 LOCATION OR THE PROPOSED LOCATION OF THE EV SPACE, AT THE TIME OF ORIGINAL CONSTRUCTION IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

MULTIPLE EV SPACES REQUIRED. CONSTRUCTION DOCUMENTS INDICATE THE RACEWAY TERMINATION POINT AND THE LOCATIO INSTALLED OR FUTURE EV SPACES, RECEPTACLES OR EV CHAP CONSTRUCTION DOCUMENTS SHALL ALSO PROVIDE INFORMAT AMPERAGE OF INSTALLED OR FUTURE RECEPTACLES OR EVSE METHOD(S), WIRING SCHEMATICS AND ELECTRICAL LOAD CALC PLAN DESIGN SHALL BE BASED UPON A 40-AMPERE MINIMUM BF CIRCUIT. REQUIRED RACEWAYS AND RELATED COMPONENTS T PLANNED TO BE INSTALLED UNDERGROUND, ENCLOSED, INACC IN CONCEALED AREAS AND SPACES SHALL BE INSTALLED AT TH ORIGINAL CONSTRUCTION.

EXCEPTION: A RACEWAY IS NOT REQUIRED IF A MINIMUM 40-AMF 208/240-VOLT DEDICATED EV BRANCH CIRCUIT IS INSTALLED IN C PROXIMITY TO THE LOCATION OR THE PROPOSED LOCATION OF SPACE AT THE TIME OF ORIGINAL CONSTRUCTION IN ACCORDAN THE CALIFORNIA ELECTRICAL CODE.

4.106.4.2.4 IDENTIFICATION

THE SERVICE PANEL OR SUBPANEL CIRCUIT DIRECTORY SHALL THE OVERCURRENT PROTECTIVE DEVICE SPACE(S) RESERVED FUTURE EV CHARGING PURPOSES AS "EV CAPABLE" IN ACCORD THE CALIFORNIA ELECTRICAL CODE.

4.106.4.2.5 ELECTRIC VEHICLE READY SPACE SIGNAGE ELECTRIC VEHICLE READY SPACES SHALL BE IDENTIFIED BY SIG

PAVEMENT MARKINGS, IN COMPLIANCE WITH CALTRANS TRAFFI **OPERATIONS POLICY DIRECTIVE 13-01 (ZERO EMISSION VEHICLE** PAVEMENT MARKINGS) OR ITS SUCCESSOR(S).

4.106.4.3 ELECTRIC VEHICLE CHARGING FOR ADDITIONS AND ALTER PARKING FACILITIES SERVING EXISTING MULTIFAMILY BUILDINGS

WHEN NEW PARKING FACILITIES ARE ADDED. OR ELECTRICAL S LIGHTING OF EXISTING PARKING FACILITIES ARE ADDED OR ALT THE WORK REQUIRES A BUILDING PERMIT, TEN (10) PERCENT OF NUMBER OF PARKING SPACES ADDED OR ALTERED SHALL BE E VEHICLE CHARGING SPACES (EV SPACES) CAPABLE OF SUPPOR FUTURE LEVEL 2 EVSE.

NOTES:

- . CONSTRUCTION DOCUMENTS ARE INTENDED TO DEMON THE PROJECT'S CAPABILITY AND CAPACITY FOR FACILITA FUTURE EV CHARGING.
- 2. THERE IS NO REQUIREMENT FOR EV SPACES TO BE CON OR AVAILABLE UNTIL EV CHARGERS ARE INSTALLED FOR

DIVISION 4.2 ENERGY EFFICIENCY

4.201 GENERAL

4.201.1 SCOPE. FOR THE PURPOSES OF MANDATORY ENERGY EFFICIENCY STANDAR CODE, THE CALIFORNIA ENERGY COMMISSION WILL CONTINUE TO A MANDATORY STANDARDS.

DIVISION 4.3 WATER EFFICIENCY CONSERVATION

4.303 INDOOR WATER USE

4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FI (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLL

4.303.1.1 WATER CLOSETS

THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SH EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOS BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. WATERSENSE SPECIFICATION FOR TANK TYPE TOILET.

NOTE: THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILE DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OF REDUCED FLUSHES AND ONE FULL FLUSH.

4.303.1.2 URINALS

THE EFFECTIVE FLUSH VOLUME OF WALL-MOUNTED URINAL NOT EXCEED 0.125 GALLONS PER FLUSH. THE EFFECTIVE FL VOLUME OF ALL OTHER URINALS SHALL NOT EXCEED 0.5 GAI FLUSH.

4.303.1.3 SHOWERHEADS

4.303.1.3.1 SINGLE SHOWERHEAD SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF THAN 1.8 GALLONS PER MINUTE AT 80 PSI. SHOWERHEAD CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. WATERSENSE SPECIFICATION FOR SHOWERHEADS.

4.303.1.3.2 MULTIPLE SHOWERHEADS SERVING ONE SHOWE WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOW THE COMBINED FLOW RATE OF ALL SHOWERHEADS AND SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SH EXCEED 1.8 GALLONS PER MINUTE AT 80 PSI. OR THE SHO SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUT IN OPERATION AT A TIME.

NOTE: A HAND HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD.

4.303.1.4 FAUCETS

4.303.1.4.1 RESIDENTIAL LAVATORY FAUCETS THE MAXIMUM FLOW RATE OF RESIDENTIAL LAVATORY F SHALL NOT EXCEED 1.2 GALLONS PER MINUTE AT 60 PSI. MINIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCE NOT BE LESS THAN 0.8 GALLONS PER MINUTE AT 20 PSI.

4.303.1.4.2 LAVATORY FAUCETS IN COMMON AND PUBLIC US THE MAXIMUM FLOW RATE OF LAVATORY FAUCETS INST COMMON AND PUBLIC USE AREAS (OUTSIDE OF DWELLIN SLEEPING UNITS) IN RESIDENTIAL BUILDINGS SHALL NOT 0.5 GALLONS PER MINUTE AT 60 PSI.

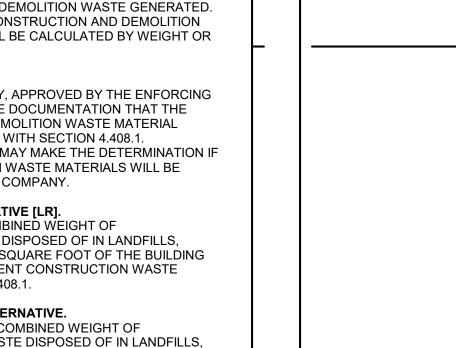
4.303.1.4.3 METERING FAUCETS METERING FAUCETS WHEN INSTALLED IN RESIDENTIAL B SHALL NOT DELIVER MORE THAN 0.2 GALLONS PER CYCL

4.303.1.4.4 KITCHEN FAUCETS THE MAXIMUM FLOW RATE OF KITCHEN FAUCETS SHALL EXCEED 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN F TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMU BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PE AT 60 PSI.

NOTE: WHERE COMPLYING FAUCETS ARE UNAVAILABLE, OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION

4.303.2 SUBMETERS FOR MULTIFAMILY BUILDINGS AND DWELLING U MIXED-USE RESIDENTIAL/COMMERCIAL BUILDINGS SUBMETERS SHALL BE INSTALLED TO MEASURE WATER USAGE INDIVIDUAL RENTAL DWELLING UNITS IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE.

SHALL ON OF RGERS. ON ON RACEWAY ULATIONS.	4.303.2 SUBMETERS FOR MULTIFAMILY BUILDIN MIXED-USE RESIDENTIAL/COMMERCIAL BUILDII SUBMETERS SHALL BE INSTALLED TO MEAS INDIVIDUAL RENTAL DWELLING UNITS IN AC CALIFORNIA PLUMBING CODE.	NGS SURE WATER USAGE OF	
ANCH HAT ARE ESSIBLE OR E TIME OF	4.303.3 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS PLUMBING FIXTURES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, AND SHALL MEET THE APPLICABLE STANDARDS REFERENCED IN TABLE 1701.1 OF THE CALIFORNIA PLUMBING CODE.		
PERE CLOSE THE EV NCE WITH	NOTE: THIS TABLE COMPILES THE DATA IN SECTION CONVENIENCE FOR THE USER.	4.303.1 AND IS INCLUDED AS A	
	TABLE - MAXIMUM FIXTURE WATER USE		
IDENTIFY FOR DANCE WITH	FIXTURE TYPE SHOWER HEADS (RESIDENTIAL) LAVATORY FAUCETS	FLOW RATE 1.8 GMP @ 80 PSI MAX. 1.2 GPM @ 60 PSI	
	(RESIDENTIAL) LAVATORY FAUCETS IN COMMON & PUBLIC	MIN. 0.8 GPM @ 20 PSI	
SNAGE OR C E SIGNS AND	USE AREAS KITCHEN FAUCETS METERING FAUCETS	0.5 GPM @ 60 PSI 1.8 GPM @ 60 PSI 0.2 GAL/CYCLE	
ATIONS OF	WATER CLOSET URINALS	1.28 GAL/FLUSH 0.125 GAL/FLUSH	
YSTEMS OR ERED AND F THE TOTAL LECTRIC RTING	4.304 OUTDOOR WATER USE 4.304.1 OUTDOOR POTABLE WATER USE IN LAN RESIDENTIAL DEVELOPMENTS SHALL CO EFFICIENT LANDSCAPE ORDINANCE OR DEPARTMENT OF WATER RESOURCES'	OMPLY WITH A LOCAL WATER THE CURRENT CALIFORNIA MODEL WATER EFFICIENT	
ISTRATE	LANDSCAPE ORDINANCE (MWELO), WHI NOTES:		
	1. THE MODEL WATER EFFICIENT LANE LOCATED IN THE CALIFORNIA CODE CHAPTER 2.7, DIVISION 2.	OF REGULATIONS, TITLE 23,	
ISTRUCTED R USE.	MWELO AND SUPPORTING DOCUME BUDGET CALCULATOR, ARE AVAILAI WWW.WATER.CA.GOV/		
RDS IN THIS	DIVISION 4.4 MATERIAL AND RESOURCE EFFICIE 4.406 ENHANCED DURABILITY AND R	ENCY	
DOPT	4.406.1 RODENT PROOFING ANNULAR SPACES AROUND PIPES, ELECTR OPENINGS IN SOLE/BOTTOM PLATES AT EX PROTECTED AGAINST THE PASSAGE OF RO	TERIOR WALLS SHALL BE	
AND	0PENINGS WITH CEMENT MORTAR, CONCR METHOD ACCEPTABLE TO THE ENFORCING 4.408 CONSTRUCTION WASTE REDU	ETE MASONRY OR A SIMILAR AGENCY.	
	RECYCLING		
INGS .OWING:	4.408.1 CONSTRUCTION WASTE MANAGEMENT RECYCLE AND/OR SALVAGE FOR REUSE A M NONHAZARDOUS CONSTRUCTION AND DEM ACCORDANCE WITH EITHER SECTION 4.408.	10LITION WASTE IN .2, 4.408.3, OR 4.408.4, OR MEET A	
IALL NOT SETS SHALL . EPA	MORE STRINGENT LOCAL CONSTRUCTION A MANAGEMENT ORDINANCE. EXCEPTIONS: 1. EXCAVATED SOIL AND LAND-CLEAR		
ETS IS TWO	 ALTERNATE WASTE REDUCTION ME WORKING WITH LOCAL AGENCIES IF FACILITIES CAPABLE OF COMPLIANC OR ARE NOT LOCATED REASONABL THE ENFORCING AGENCY MAY MAK 	THODS DEVELOPED BY TOVERSION OR RECYCLE DE WITH THIS ITEM DO NOT EXIST Y CLOSE TO THE JOBSITE. E ACCEPTIONS TO THE	
S SHALL USH LLONS PER	REQUIREMENTS OF THIS SECTION V LOCATED IN AREAS BEYOND THE HA DIVERSION FACILITY. 4.408.2 CONSTRUCTION WASTE MANAGEMENT	AUL BOUNDARIES OF THE	
	SUBMIT A CONSTRUCTION WASTE MANAGE WITH ITEMS 1 THROUGH 5. THE CONSTRUCT	MENT PLAN IN COMFORMANCE	
F NOT MORE DS SHALL BE 5. EPA	SHALL BE UPDATED AS NECESSARY AND SH CONSTRUCTION FOR EXAMINATION BY THE 1. IDENTIFY THE CONSTRUCTION AND TO BE DIVERTED FROM DISPOSAL B PROJECT OR SALVAGE FOR FUTURE	HALL BE AVAILABLE DURING ENFORCING AGENCY. DEMOLITION WASTE MATERIALS Y RECYCLING, REUSE ON THE E USE OR SALE.	
R /ERHEAD,	2. SPECIFY IF CONSTRUCTION AND DE WILL BE SORTED ON-SITE (SOURCE- (SINGLE STREAM).		
D/OR OTHER IALL NOT OWER TLET TO BE	 IDENTIFY DIVERSION FACILITIES WH DEMOLITION WASTE MATERIAL WILL IDENTIFY CONSTRUCTION METHODS AMOUNT OF CONSTRUCTION AND D SPECIFY THAT THE AMOUNT OF CON WASTE MATERIAL DIVERTED SHALL 	BE TAKEN. SEMPLOYED TO REDUCE THE EMOLITION WASTE GENERATED. NSTRUCTION AND DEMOLITION	
	VOLUME, BUT NOT BY BOTH. 4.408.3 WASTE MANAGEMENT COMPANY. UTILIZE A WASTE MANAGEMENT COMPANY,	APPROVED BY THE ENFORCING	
FAUCETS I. THE ETS SHALL	AGENCY, WHICH CAN PROVIDE VERIFIABLE PERCENTAGE OF CONSTRUCTION AND DEM DIVERTED FROM THE LANDFILL COMPLIES V NOTE: THE OWNER OR CONTRACTOR M THE CONSTRUCTION AND DEMOLITION V	DOCUMENTATION THAT THE IOLITION WASTE MATERIAL WITH SECTION 4.408.1. IAY MAKE THE DETERMINATION IF WASTE MATERIALS WILL BE	
E AREAS ALLED IN NGS OR T EXCEED	DIVERTED BY A WASTE MANAGEMENT OF 4.408.4 WASTE STREAM REDUCTION ALTERNAT PROJECTS THAT GENERATE A TOTAL COME CONSTRUCTION AND DEMOLITION WASTE D WHICH DO NOT EXCEED 3.4 POUNDS PER S AREA SHALL MEET THE MINIMUM 65 PERCE	T IVE [LR]. BINED WEIGHT OF DISPOSED OF IN LANDFILLS, QUARE FOOT OF THE BUILDING	
BUILDINGS LE.	REDUCTION REQUIREMENT IN SECTION 4.40 4.408.4.1 WASTE STREAM REDUCTION ALTE PROJECTS THAT GENERATE A TOTAL CO	RNATIVE.	
NOT AUCETS MAY JM RATE, SI, AND MUST ER MINUTE	CONSTRUCTION AND DEMOLITION WAS WHICH DO NOT EXCEED 2 POUNDS PER AREA, SHALL MEET THE MINIMUM 65-PE REDUCTION REQUIREMENT IN SECTION	TE DISPOSED OF IN LANDFILLS, SQUARE FOOT OF THE BUILDING RCENT CONSTRUCTION WASTE	
, AERATORS	4.408.5 DOCUMENTATION DOCUMENTATION SHALL BE PROVIDED TO DEMONSTRATES COMPLIANCE WITH SECTION SECTION 4.408.3 OR SECTION 4.408.4 NOTES:		
JNITS IN	1. SAMPLE FORMS FOUND IN "A GUIDE BUILDING STANDARDS CODE (RESID		
OF E	WWW.HCD.CA.GOV/CALGREEN.HTM DOCUMENTING COMPLIANCE WITH 2. MIXED CONSTRUCTION AND DEMOL	IL MAY BE USED TO ASSIST IN THIS SECTION.	



DATE 01/10/2024

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THESE PLANS ARE PROVIDED BY MONO COUNTY AS PART OF THE PRE-APPROVED ADU PROGRAM AND ARE PUBLIC DOMAIN. THERE CANNOT BE A CHARGE TO PROVIDE THESE PLANS. NO ALTERATIONS TO THESE PLANS ARE ALLOWED. ALL ALTERATIONS MUST BE DONE UNDER A SEPARATE PERMIT ONCE THE BUILDING PERMIT FOR THE ADU HAS BEEN ISSUED AND FINAL INSPECTION COMPLETED. IF YOU DO NOT HAVE THE CONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONTRUCT THESE PLANS WITHOUT FURTHER DETAILS, IT IS RECOMMENDED YOU HIRE A CONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS AND BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.

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PROCESSORS CAN BE LOCATED AT THE CALIFORNIA DEPARTMENT

OF RESOURCES RECYCLING AND RECOVERY (CALRECYCLE).

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES (SHEET 2)

AT TH	PERATION AND MAINTENANCE MANUAL E TIME OF FINAL INSPECTION, A MANUAL, COMPACT DISC, WEB-BASE
WHICI	RENCE OR OTHER MEDIA ACCEPTABLE TO THE ENFORCING AGENCY H INCLUDES ALL OF THE FOLLOWING SHALL BE PLACED IN THE
BUILD 1.	ING: DIRECTIONS TO THE OWNER OR OCCUPANT THAT THE MANUAL SHALL REMAIN WITH THE BUILDING THROUGHOUT THE LIFE CYCLE
2	OF THE STRUCTURE. OPERATION AND MAINTENANCE INSTRUCTIONS FOR THE
۷.	FOLLOWING: a. EQUIPMENT AND APPLIANCES, INCLUDING WATER-SAVING
	DEVICES AND SYSTEMS, HVAC SYSTEMS, PHOTOVOLTAIC SYSTEMS, ELECTRIC VEHICLE CHARGERS, WATER-HEATING
	SYSTEMS AND OTHER MAJOR APPLIANCES AND EQUIPMENT. b. ROOF AND YARD DRAINAGE, INCLUDING GUTTERS AND
	DOWNSPOUTS. c. SPACE CONDITIONING SYSTEMS, INCLUDING CONDENSERS AND
	AIR FILTERS. d. LANDSCAPE IRRIGATION SYSTEMS.
3.	e. WATER REUSE SYSTEMS. INFORMATION FROM LOCAL UTILITY, WATER AND WASTE RECOVER
Л	PROVIDERS ON METHODS TO FURTHER REDUCE RESOURCE CONSUMPTION, INCLUDING RECYCLE PROGRAMS AND LOCATIONS. PUBLIC TRANSPORTATION AND/OR CARPOOL OPTIONS AVAILABLE I
	THE AREA. EDUCATIONAL MATERIAL ON THE POSITIVE IMPACTS OF AN INTERIC
	RELATIVE HUMIDITY BETWEEN 30–60 PERCENT AND WHAT METHOD AN OCCUPANT MAY USE TO MAINTAIN THE RELATIVE HUMIDITY
6.	LEVEL IN THAT RANGE. INFORMATION ABOUT WATER-CONSERVING LANDSCAPE AND
7.	IRRIGATION DESIGN AND CONTROLLERS WHICH CONSERVE WATER INSTRUCTIONS FOR MAINTAINING GUTTERS AND DOWNSPOUTS AN
0	THE IMPORTANCE OF DIVERTING WATER AT LEAST 5 FEET AWAY FROM THE FOUNDATION.
0.	INFORMATION ON REQUIRED ROUTINE MAINTENANCE MEASURES, INCLUDING, BUT NOT LIMITED TO, CAULKING, PAINTING, GRADING AROUND THE BUILDING, ETC.
9.	INFORMATION ABOUT STATE SOLAR ENERGY AND INCENTIVE PROGRAMS AVAILABLE.
	 A COPY OF ALL SPECIAL INSPECTION VERIFICATIONS REQUIRED BY THE ENFORCING AGENCY OR THIS CODE.
	. INFORMATION FROM CAL FIRE ON MAINTENANCE OF DEFENSIBLE SPACE AROUND RESIDENTIAL STRUCTURES.
12	2. INFORMATION AND/OR DRAWINGS IDENTIFYING THE LOCATION OF GRAB BAR REINFORCEMENTS.
	ECYCLING BY OCCUPANTS. RE 5 OR MORE MULTIFAMILY DWELLING UNITS ARE CONSTRUCTED ON
A BUIL	LES OR MORE MULTIFAMILY DWELLING UNITS ARE CONSTRUCTED ON LDING SITE, PROVIDE READILY ACCESSIBLE AREA(S) THAT SERVES AL VINGS ON THE SITE AND IS IDENTIFIED FOR THE DEPOSITING, STORAG
AND C	COLLECTION OF NON-HAZARDOUS MATERIALS FOR RECYCLING, IDING (AT A MINIMUM) PAPER, CORRUGATED CARDBOARD, GLASS,
PLAS1	FICS, ORGANIC WASTE, AND METALS, OR MEEL A LAWFULLY ENACTED L RECYCLING ORDINANCE, IF MORE RESTRICTIVE.
	CEPTION:
Pl	JRAL JURISDICTIONS THAT MEET AND APPLY FOR THE EXEMPTION IN JBLIC RESOURCES CODE SECTION 42649.82 (A)(2)(A) ET SEQ. ARE NOT EQUIRED TO COMPLY WITH THE ORGANIC WASTE PORTION OF THIS
4.501 GI 4.501.1 SC THE P	ECTION. SION 4.5 ENVIROMENTAL QUALITY ENERAL COPE PROVISIONS OF THIS CHAPTER SHALL OUTLINE MEANS OF REDUCING QUANTITY OF AIR CONTAMINANTS THAT ARE ODOROUS, IRRITATING
1.501 GI 4.501.1 SC THE P THE C AND/C	ENERAL ROVISIONS OF THIS CHAPTER SHALL OUTLINE MEANS OF REDUCING
I.501 GI 4.501.1 SC THE P THE C AND/C INSTA	SION 4.5 ENVIROMENTAL QUALITY ENERAL PROVISIONS OF THIS CHAPTER SHALL OUTLINE MEANS OF REDUCING QUANTITY OF AIR CONTAMINANTS THAT ARE ODOROUS, IRRITATING DR HARMFUL TO THE COMFORT AND WELL-BEING OF A BUILDING'S LLERS, OCCUPANTS AND NEIGHBORS.
I.501 GI 4.501.1 SO THE P THE C AND/C INSTA I.503 FII 4.503.1 GE ANY IN	SION 4.5 ENVIROMENTAL QUALITY ENERAL PROVISIONS OF THIS CHAPTER SHALL OUTLINE MEANS OF REDUCING QUANTITY OF AIR CONTAMINANTS THAT ARE ODOROUS, IRRITATING DR HARMFUL TO THE COMFORT AND WELL-BEING OF A BUILDING'S LLERS, OCCUPANTS AND NEIGHBORS.
4.501 GI 4.501.1 SO THE P THE C AND/C INSTA 4.503 FII 4.503.1 GE ANY IN COMB COMP	SION 4.5 ENVIROMENTAL QUALITY ENERAL COPE PROVISIONS OF THIS CHAPTER SHALL OUTLINE MEANS OF REDUCING QUANTITY OF AIR CONTAMINANTS THAT ARE ODOROUS, IRRITATING DR HARMFUL TO THE COMFORT AND WELL-BEING OF A BUILDING'S LLERS, OCCUPANTS AND NEIGHBORS. REPLACES ENERAL NSTALLED GAS FIREPLACE SHALL BE A DIRECT-VENT SEALED-
4.501 GI 4.501.1 SO THE P THE C AND/C INSTA 4.503 FII 4.503.1 GE ANY IN COMB COMP EMISS INDIC/ WOOL	SION 4.5 ENVIROMENTAL QUALITY ENERAL COPE ROVISIONS OF THIS CHAPTER SHALL OUTLINE MEANS OF REDUCING QUANTITY OF AIR CONTAMINANTS THAT ARE ODOROUS, IRRITATING DR HARMFUL TO THE COMFORT AND WELL-BEING OF A BUILDING'S LLERS, OCCUPANTS AND NEIGHBORS. REPLACES ENERAL NSTALLED GAS FIREPLACE SHALL BE A DIRECT-VENT SEALED- BUSTION TYPE. ANY INSTALLED WOODSTOVE OR PELLET STOVE SHAL PLY WITH U.S. EPA NEW SOURCE PERFORMANCE STANDARDS (NSPS) SION LIMITS AS APPLICABLE, AND SHALL HAVE A PERMANENT LABEL ATING THEY ARE CERTIFIED TO MEET THE EMISSION LIMITS. DSTOVES, PELLET STOVES AND FIREPLACES SHALL ALSO COMPLY
4.501 GI 4.501.1 SO THE P THE C AND/C INSTA 4.503 FII 4.503.1 GE ANY IN COMB COMP EMISS INDIC/ WOOL	SION 4.5 ENVIROMENTAL QUALITY ENERAL COPE PROVISIONS OF THIS CHAPTER SHALL OUTLINE MEANS OF REDUCING QUANTITY OF AIR CONTAMINANTS THAT ARE ODOROUS, IRRITATING DR HARMFUL TO THE COMFORT AND WELL-BEING OF A BUILDING'S LILERS, OCCUPANTS AND NEIGHBORS. REPLACES ENERAL NSTALLED GAS FIREPLACE SHALL BE A DIRECT-VENT SEALED- BUSTION TYPE. ANY INSTALLED WOODSTOVE OR PELLET STOVE SHAL PLY WITH U.S. EPA NEW SOURCE PERFORMANCE STANDARDS (NSPS) SION LIMITS AS APPLICABLE, AND SHALL HAVE A PERMANENT LABEL ATING THEY ARE CERTIFIED TO MEET THE EMISSION LIMITS.
4.501 GI 4.501.1 SC THE P THE C AND/C INSTA 4.503 FII 4.503.1 GE ANY IN COMB COMP EMISS INDIC/ WOOL WITH 4.504 PC	SOUR A.S. ENVIROMENTAL QUALITY ENERAL SOPE PROVISIONS OF THIS CHAPTER SHALL OUTLINE MEANS OF REDUCING QUANTITY OF AIR CONTAMINANTS THAT ARE ODOROUS, IRRITATING DANTITY OF AIR CONTROL DUITANT CONTROL
4.501 GI 4.501.1 SC THE P THE C AND/C INSTA 4.503 FII 4.503.1 GE ANY IN COMB COMP EMISS INDIC/ WOOL WITH 4.504 PC 4.504.1 CC EQUIPMEI	SOUR A.S ENVIROMENTAL QUALITY ENERAL COPE PROVISIONS OF THIS CHAPTER SHALL OUTLINE MEANS OF REDUCING QUANTITY OF AIR CONTAMINANTS THAT ARE ODOROUS, IRRITATING DE HARMFUL TO THE COMFORT AND WELL-BEING OF A BUILDING'S CHARMFUL TO THE COMFORT AND WELL-BEING OF A BUILDING'S COMPARING THEY AND NEIGHBORS. NETALLED NSTALLED GAS FIREPLACE SHALL BE A DIRECT-VENT SEALED- BUSTION TYPE. ANY INSTALLED WOODSTOVE OR PELLET STOVE SHAL CLUTANT CONTROL CONTROL TO MEET THE EMISSION LIMITS. DELUTANT CONTROL DEVING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL DURING CONSTRUCTION
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4.501 GI 4.501.1 SC THE P THE C AND/C INSTA 4.503 FII 4.503 FII 4.503.1 GE ANY IN COMB COMP EMISS INDIC/ WOOL WITH 4.504.1 CC EQUIPMEI AT TH CONS AND V DISTR PLAST ENFO DEBR 4.504.2 FIN FINISH 4.504.2 FIN MI MI MI MI MI MI MI MI MI MI	ADDESIGNATION OF THIS CHAPTER SHALL OUTLINE MEANS OF REDUCING DANTITY OF AIR CONTAMINANTS THAT ARE ODDROUS, IRRITATING DR HAMFUL TO THE COMFORT AND WELL-BEING OF A BUILDING'S DR HAMFUL TO THE COMFORT AND WELL-BEING OF A BUILDING'S DR HAMFUL TO THE COMFORT AND WELL-BEING OF A BUILDING'S DR HAMFUL TO THE COMFORT AND WELL-BEING OF A BUILDING'S DR HAMFUL TO THE COMFORT AND WELL-BEING OF A BUILDING'S DR HAMFUL TO THE COMFORT AND WELL-BEING OF A BUILDING'S DR HAMFUL TO THE COMFORT AND WELL-BEING OF A BUILDING'S DR HAMFUL TO THE COMFORT AND WELGHBORS. REPLACES ENFAL NUSTALLED GAS FIREPLACE SHALL BE A DIRECT-VENT SEALED- NUSTION TYPE. ANY INSTALLED WOODSTOVE OR PELLET STOVE SHALL VIEV WITH U.S. EPA NEW SOURCE PERFORMANCE STANDARDS (NSPS) SION LIMITS AS APPLICABLE, AND SHALL HAVE A PERMANENT LABEL ATING THEY ARE CERTIFIED TO MEET THE EMISSION LIMITS. DSTOVES, PELLET STOVES AND FIREPLACES SHALL ALSO COMPLY APPLICABLE LOCAL ORDINANCES. DELUTANT CONTROL DEVENING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL NTDURING COMSTRUCTION DETIMED FOUGH INSTALLATION. DURING STORAGE ON THE TRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLIN VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR BUBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, TIC, SHEETMETAL OR OTHER METTODS ACCEPTABLE TO THE RCING AGENCY TO REDUCE THE AMOUNT OF WATER, DUST AND IS, WHICH MAY ENTER THE SYSTEM. NISH MATERIAL POLLUTANT CONTROL HATERIALS SHALL COMPLY WITH THIS SECTION. 21 ADHESIVES, SEALANTS AND CAULKS USED ON THE PROJECT SHALL EET THE REQUIREMENTS OF THE FOLLOWING STANDARDS UNLESS ORE STRINGENT LOCAL OR REGIONAL AIR POLLUTION OR AIR QUALITY ANAGEMENT DISTRICT RULES APPLY: 1. ADHESIVES, SALANTS AND CAULKS USED ON THE PROJECT SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE OO SCAQMD RULE 1168 VOC LIMITS, AS SHOWN IN TABLE 4.504.1 OF ASSELANT OS, CEALONGOROPAN, ARROLLUTION ON AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE OR SCALANTOS, S

4.504.2.3 AEROSOL PAINTS AND COATINGS

AEROSOL PAINTS AND COATINGS SHALL MEET THE PRODUCT-WEIGHTED MIR LIMITS FOR ROC IN SECTION 94522(A)(2) AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS AND OZONE DEPLETING SUBSTANCES, IN SECTIONS 94522(E)(1) AND (F)(1) OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94520: AND IN AREAS UNDER THE JURISDICTION OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT ADDITIONALLY COMPLY WITH THE PERCENT VOC BY WEIGHT OF PRODUCT LIMITS OF REGULATION 8, RULE 49.

4.504.2.4 VERIFICATION

VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AT THE REQUEST OF THE ENFORCING AGENCY. DOCUMENTATION MAY INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING:

- 1. MANUFACTURER'S PRODUCT SPECIFICATION. 2. FIELD VERIFICATION OF ON-SITE PRODUCT CONTAINERS.
- 4.504.3 CARPET SYSTEMS

4.504.3.1 CARPET CUSHION

- ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.2, JANUARY 2017 (EMISSION TESTING METHOD FOR CALIFORNIA SPECIFICATION 01350).
- SEE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S WEBSITE FOR CERTIFICATION PROGRAMS AND TESTING LABS.
- HTTPS://WWW.CDPH.CA.GOV/PROGRAMS/CCDPHP/DEODC/EHLB/IAQ/PAG ES/VOC.ASPX

4.504.3.2 CARPET ADHESIVE

- ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE 4.504.1
- 4.504.4 RESILIENT FLOORING SYSTEMS WHERE RESILIENT FLOORING IS INSTALLED, AT LEAST 80 PERCENT 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 (EMISSION TESTING METHOD FOR CALIFORNIA SPECIFICATION 01350).
 - SEE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S WEBSITE FOR CERTIFICATION PROGRAMS AND TESTING LABS.
 - HTTPS://WWW.CDPH.CA.GOV/PROGRAMS/CCDPHP/DEODC/EHLB/IAQ/PAG

ES/VOC.ASPX 4.504.5 COMPOSITE WOOD PRODUCTS

HARDWOOD PLYWOOD, PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN ARB'S AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD (17 CCR 93120 ET SEQ.) AS SHOWN IN TABLE 4.504.5.

4.504.5.1 DOCUMENTATION

- VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AS REQUESTED BY THE ENFORCING AGENCY. DOCUMENTATION SHALL INCLUDE AT LEAST ONE OF THE FOLLOWING
- 1. PRODUCT CERTIFICATIONS AND SPECIFICATIONS. . CHAIN OF CUSTODY CERTIFICATIONS. PRODUCT LABELED AND INVOICED AS MEETING THE COMPOSITE WOOD PRODUCTS REGULATION (SEE CCR, TITLE 17, SECTION 93120, ET SEQ.).
- 4. EXTERIOR GRADE PRODUCTS MARKED AS MEETING THE PS-1 OR PS-2 STANDARDS OF THE ENGINEERED WOOD ASSOCIATION. THE AUSTRALIAN AS/NZS 2269, EUROPEAN 636 3S, AND CANADIAN CSA O121, CSA O151, CSA O153 AND CSA O325 STANDARDS.
- 5. OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY.

TABLE 4.504.1 - ADHESIVE VOC LIMIT (LESS WATER AND LESS EXEMPT COMPOUNDS IN GRAMS PER LITER)

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1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL

BE ALLOWED. 2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

IT VOC LIMIT 100 100 250 IT VOC LIMIT 325 250 550 250 140 250T VOC LIMIT

TABLE 4.504.2 - SEALANT VOC LIMIT LESS WATER AND LESS EXEMPT COMPOUNDS IN GRAMS PE	ER LITER)
SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	CURRENT VOC LIMIT
ARCHITECTURAL	
NONPOROUS	250
POROUS	250
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

TABLE 4.504.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS^{2, 3} (GRAMS OF VOC PER LITER OF COATING, LESS WATER AND LESS EXEMPT COMPOUND

COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT-HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	CURRENT VOC LIMIT
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH TEMPERATURE COATINGS	420
IDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS ¹	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, AND UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS	200
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS AND	100
UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB AND TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER AND

INCLUDING EXEMPT COMPOUNDS. THE SPECIFIED LIMITS REMAIN IN EFFECT ENLESS REVISED LIMITS

ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE 3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEBUARY 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

TABLE 4.504.5 - FORMALDEHYDE LIMITS¹ (MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLEBOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD ²	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCH (8MM).

DIVISION 4.5 ENVIORNMENTAL QUALITY CONTINUED

4.505 INTERIOR MOISTURE CONTROL

4.505.1 GENERAL BUILDINGS SHALL MEET OR EXCEED THE PROVISIONS OF THE CALIFORNIA BUILDING STANDARDS CODE.

4.505.2 CONCRETE SLAB FOUNDATIONS

CONCRETE SLAB FOUNDATIONS REQUIRED TO HAVE A VAPOR RETARDER BY THE CALIFORNIA BUILDING CODE CHAPTER 19 OR CONCRETE SLAB-ON-GROUND FLOORS REQUIRED TO HAVE A VAPOR RETARDER BY THE CALIFORNIA RESIDENTIAL CODE, CHAPTER 5, SHALL ALSO COMPLY WITH THIS SECTION.

4.505.2.1 CAPILLARY BREAK

- A CAPILLARY BREAK SHALL BE INSTALLED IN COMPLIANCE WITH AT LEAST ONE OF THE FOLLOWING: 1. A 4-INCH-THICK (101.6 MM) BASE OF 1/2 INCH (12.7 MM) 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

4.505.3 MOISTURE CONTENT OF A BUILDING

BUILDING MATERIALS WITH VISIBLE SIGNS OF WATER DAMAGE SHALL NOT BE INSTALLED. WALL AND FLOOR FRAMING SHALL NOT BE ENCLOSED WHEN THE FRAMING MEMBERS EXCEED 19-PERCENT MOISTURE CONTENT. MOISTURE CONTENT SHALL BE VERIFIED IN COMPLIANCE WITH THE FOLLOWING:

- MOISTURE CONTENT SHALL BE DETERMINED WITH EITHER A PROBE-TYPE OR CONTACT-TYPE MOISTURE METER. EQUIVALENT MOISTURE VERIFICATION METHODS MAY BE APPROVED BY THE ENFORCING AGENCY AND SHALL SATISFY REQUIREMENTS FOUND IN SECTION 101.8 OF THIS CODE.
- . MOISTURE READINGS SHALL BE TAKEN AT A POINT 2 FEET (610 MM) TO 4 FEET (1219 MM) FROM THE GRADE STAMPED END OF EACH PIECE TO BE VERIFIED.
- 3. AT LEAST THREE RANDOM MOISTURE READINGS SHALL BE PERFORMED ON WALL AND FLOOR FRAMING WITH DOCUMENTATION ACCEPTABLE TO THE ENFORCING AGENCY PROVIDED AT THE TIME OF APPROVAL TO ENCLOSE THE WALL AND FLOOR FRAMING.

INSULATION PRODUCTS WHICH ARE VISIBLY WET OR HAVE A HIGH MOISTURE CONTENT SHALL BE REPLACED OR ALLOWED TO DRY PRIOR TO ENCLOSURE IN WALL OR FLOOR CAVITIES. WET-APPLIED INSULATION PRODUCTS SHALL FOLLOW THE MANUFACTURERS' DRYING RECOMMENDATIONS PRIOR TO ENCLOSURE.

4.506 INDOOR AIR QUALITY AND EXHAUST

4.506.1 BATHROOM EXHAUST FANS

- EACH BATHROOM SHALL BE MECHANICALLY VENTILATED AND SHALL COMPLY WITH THE FOLLOWING: 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 PERCENT TO A MAXIMUM OF 80 PERCENT. A HUMIDITY CONTROL MAY UTILIZE
- MANUAL OR AUTOMATIC MEANS OF ADJUSTMENT. b. A HUMIDITY CONTROL MAY BE A SEPARATE COMPONENT TO THE EXHAUST FAN AND IS NOT REQUIRED TO BE INTEGRAL (I.E., BUILT-IN).
- NOTES: 1. FOR THE PURPOSES OF THIS SECTION, A BATHROOM IS A ROOM WHICH CONTAINS A BATHTUB, SHOWER, OR TUB/ SHOWER COMBINATION.
- 2. LIGHTING INTEGRAL TO BATHROOM EXHAUST FANS SHALL COMPLY WITH THE CALIFORNIA ENERGY CODE.

4.507 ENVIROMENTAL COMFORT

4.507.1 RESERVED

4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN

- HEATING AND AIR-CONDITIONING SYSTEMS SHALL BE SIZED, DESIGNED AND HAVE THEIR EQUIPMENT SELECTED USING THE FOLLOWING METHODS: 1. THE HEAT LOSS AND HEAT GAIN IS ESTABLISHED ACCORDING TO ANSI/ACCA 2 MANUAL J-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—2016 (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 **702 QUALIFICATIONS**

702.1 INSTALLER TRAINING

HVAC SYSTEM INSTALLERS SHALL BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS INCLUDING DUCTS AND EQUIPMENT BY A NATIONALLY OR REGIONALLY RECOGNIZED TRAINING OR CERTIFICATION PROGRAM. UNCERTIFIED PERSONS MAY PERFORM HVAC INSTALLATIONS WHEN UNDER THE DIRECT SUPERVISION AND RESPONSIBILITY OF A PERSON TRAINED AND CERTIFIED TO INSTALL HVAC SYSTEMS OR CONTRACTOR LICENSED TO INSTALL HVAC SYSTEMS. EXAMPLES OF ACCEPTABLE HVAC TRAINING AND CERTIFICATION PROGRAMS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

- 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.

702.2 SPECIAL INSPECTION [HCD]

WHEN REQUIRED BY THE ENFORCING AGENCY, THE OWNER OR THE RESPONSIBLE ENTITY ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTION OR OTHER DUTIES NECESSARY TO SUBSTANTIATE COMPLIANCE WITH THIS CODE SPECIAL INSPECTORS SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE ENFORCING AGENCY FOR THE PARTICULAR TYPE OF INSPECTION OR TASK TO BE PERFORMED. IN ADDITION TO OTHER CERTIFICATIONS OR QUALIFICATIONS ACCEPTABLE TO THE ENFORCING AGENCY, THE FOLLOWING CERTIFICATIONS OR EDUCATION MAY BE CONSIDERED BY THE ENFORCING AGENCY WHEN EVALUATING THE QUALIFICATIONS OF A SPECIAL INSPECTOR:

- 1. CERTIFICATION BY A NATIONAL OR REGIONAL GREEN BUILDING PROGRAM OR STANDARD PUBLISHER. 2. CERTIFICATION BY A STATEWIDE ENERGY CONSULTING OR
- VERIFICATION ORGANIZATION, SUCH AS HERS RATERS, BUILDING PERFORMANCE CONTRACTORS, AND HOME ENERGY AUDITORS. 3. SUCCESSFUL COMPLETION OF A THIRD PARTY APPRENTICE TRAINING
- PROGRAM IN THE APPROPRIATE TRADE. 4. OTHER PROGRAMS ACCEPTABLE TO THE ENFORCING AGENCY.

NOTES

- 1. SPECIAL INSPECTORS SHALL BE INDEPENDENT ENTITIES WITH NO FINANCIAL INTEREST IN THE MATERIALS OR THE PROJECT THEY ARE INSPECTING FOR COMPLIANCE WITH THIS CODE.
- 2. HERS RATERS ARE SPECIAL INSPECTORS CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION (CEC) TO RATE HOMES IN CALIFORNIA ACCORDING TO THE HOME ENERGY RATING SYSTEM (HERS)

[BSC] WHEN REQUIRED BY THE ENFORCING AGENCY, THE OWNER OR THE RESPONSIBLE ENTITY ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTION OR OTHER DUTIES NECESSARY TO SUBSTANTIATE COMPLIANCE WITH THIS CODE. SPECIAL INSPECTORS SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE ENFORCING AGENCY FOR THE PARTICULAR TYPE OF INSPECTION OR TASK TO BE PERFORMED. IN ADDITION, THE SPECIAL INSPECTOR SHALL HAVE A CERTIFICATION FROM A RECOGNIZED STATE. NATIONAL OR INTERNATIONAL ASSOCIATION, AS DETERMINED BY THE LOCAL AGENCY. THE AREA OF CERTIFICATION SHALL BE CLOSELY RELATED TO THE PRIMARY JOB FUNCTION, AS DETERMINED BY THE LOCAL AGENCY.

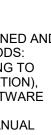
SPECIAL INSPECTORS SHALL BE INDEPENDENT ENTITIES WITH NO FINANCIAL INTEREST IN THE MATERIALS OR THE PROJECT THEY ARE INSPECTING FOR COMPLIANCE WITH THIS CODE.

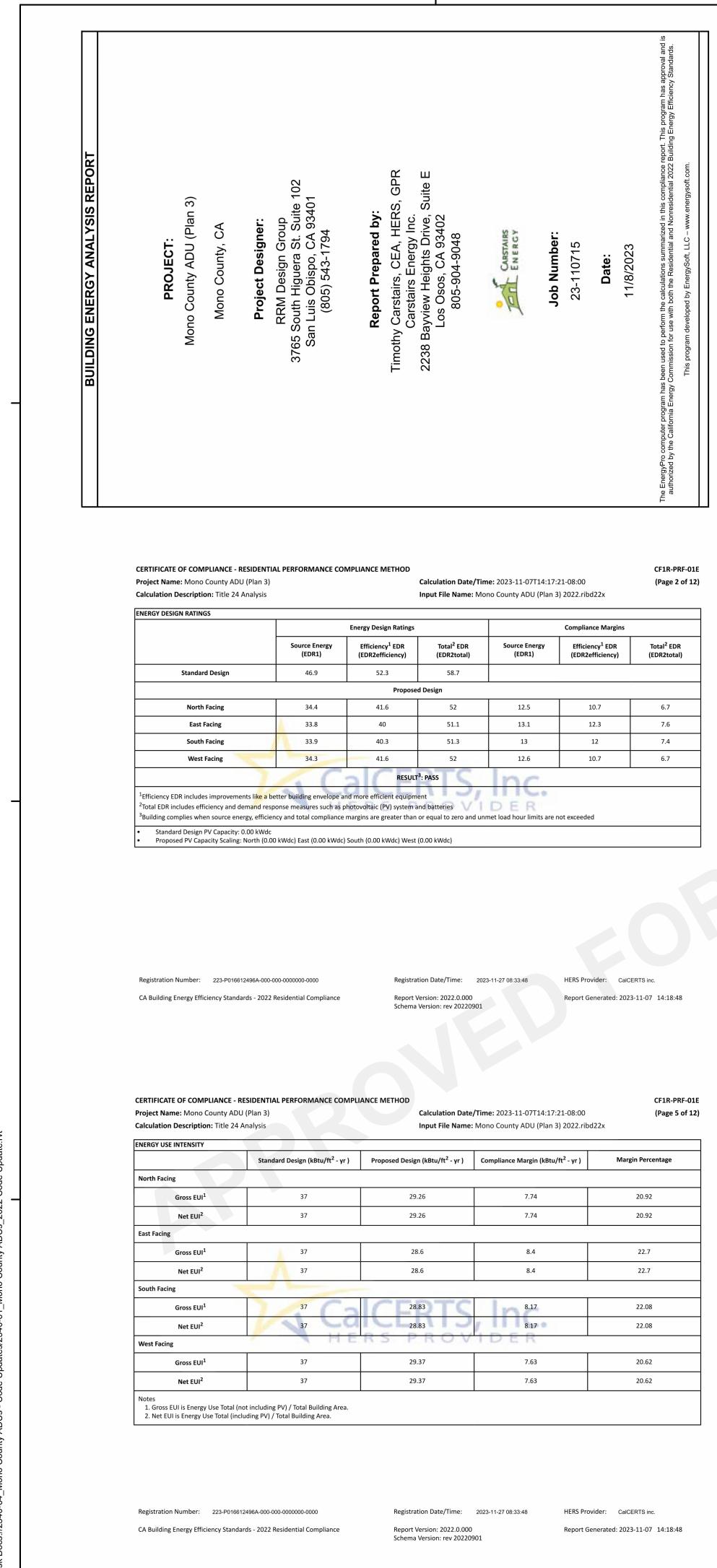
703 VERIFICATIONS

703.1 DOCUMENTATION. DOCUMENTATION USED TO SHOW COMPLIANCE WITH THIS CODE SHALL INCLUDE BUT IS NOT LIMITED TO. CONSTRUCTION DOCUMENTS. PLANS. SPECIFICATIONS, BUILDER OR INSTALLER CERTIFICATION, INSPECTION REPORTS, OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY WHICH DEMONSTRATE SUBSTANTIAL CONFORMANCE. WHEN SPECIFIC DOCUMENTATION OR SPECIAL INSPECTION IS NECESSARY TO VERIFY COMPLIANCE. THAT METHOD OF COMPLIANCE WILL BE SPECIFIED IN THE APPROPRIATE SECTION OR IDENTIFIED APPLICABLE CHECKLIST.



MONO COUNTY ADU PRODOTYPES MONO COUNTY MONO COUNTY MONO COUNTY MONO COUNTY MONO COUNTY MONO COUNTY MONO COUNTY	
DATE 01/10/2024 SHEET G-202	





Project Name: Mono County ADU (Plan 3) Calculation Date/Time: 2023-11-07T14:17:21-08:00 Calculation Description: Title 24 Analysis Input File Name: Mono County ADU (Plan 3) 2022.ribd22x ENERGY USE SUMMARY

ENERGY USE SUMMARY						
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft ² -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft ² -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	14.81	100.24	8.92	96.28	5.89	3.96
Space Cooling	0.37	4.34	0.1	1.23	0.27	3.11
IAQ Ventilation	0.4	4.3	0.4	4.3	0	0
Water Heating	4.05	50.79	1.99	25.27	2.06	25.52
Self Utilization/Flexibility Credit	٨			0		0
North Facing Efficiency Compliance Total	19.63	159.67		127.08	8.22	32.59
Space Heating	14.81	100.24	8.53	91.58	6.28	8.66
Space Cooling	0.37	H 4.34 R S	P. R 0.08	DE P _{1.07}	0.29	3.27
IAQ Ventilation	0.4	4.3	0.4	4.3	0	0
Water Heating	4.05	50.79	1.98	25.25	2.07	25.54
Self Utilization/Flexibility Credit				0		0
East Facing Efficiency Compliance Total	19.63	159.67	10.99	122.2	8.64	37.47

Registration Number: 223-P016612496A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance Schema Version: rev 20220901

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Mono County ADU (Plan 3)

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Registration Date/Time: 2023-11-27 08:33:48 Report Version: 2022.0.000

Calculation Date/Time: 2023-11-07T14:17:21-08:00

HERS Provider: CalCERTS inc. Report Generated: 2023-11-07 14:18:48

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(Page 3 of 12)

Registration Number: 223-P016612496A-000-000-0000000-0000

Calculation Description: Title 24 Analysis Input File Name: Mono County ADU (Plan 3) 2022.ribd22x REQUIRED PV SYSTEMS 01 02 03 05 06 07 08 09 10 11 12 04 Tilt Array Angle Tilt: (x in Inverter Eff. Annual DC System Size Azimuth Module Type Array Type Solar Access Exception Power Electronics (kWdc) (deg) Input (deg) 12) (%) (%) 0 Standard (14-17%) Fixed none true n/a n/a n/a n/a REQUIRED SPECIAL FEATURES The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis. PV exception 2: No PV required when minimum PV size (Section 150.1(c)14) < 1.8 kWdc (0 kW) Variable capacity heat pump compliance option (verification details from VCHP Staff report, Appendix B, and RA3) Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed HERS FEATURE SUMMARY The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry

Indoor air quality ventilation Kitchen range hood HERS PROVIDER Verified Refrigerant Charge Airflow in habitable rooms (SC3.1.4.1.7) Verified heat pump rated heating capacity Wall-mounted thermostat in zones greater than 150 ft2 (SC3.4.5) Ductless indoor units located entirely in conditioned space (SC3.1.4.1.8) **BUILDING - FEATURES INFORMATION** 03 04 05 07 01 02 06 Number of Dwelling Number of Ventilation Number of Water Project Name onditioned Floor Area (ft²) Number of Bedrooms Number of Zones **Cooling Systems** Heating Systems Units Mono County ADU (Plan 3) 692 1 1 1 0 1

Registration Number: 223-P016612496A-000-000-000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220901

Registration Date/Time: 2023-11-27 08:33:48

HERS Provider: CalCERTS inc. Report Generated: 2023-11-07 14:18:48

Project Name: Mono County ADU (Plan 3) Calculation Description: Title 24 Analysis GENERAL INFORMATION

01		Project Name	Mono County ADU (Plan 3)
02		Run Title	Title 24 Analysis
03		Project Location	_
04		City	Mono County
06		Zip code	
08		Climate Zone	16
10		Building Type	Single family
12		Project Scope	Newly Constructed
14		Addition Cond. Floor Area (ft ²)	0
16		Existing Cond. Floor Area <mark>(ft²)</mark>	n/a
18		Total Con <mark>d. Floor Area (</mark> ft ²)	692
20		ADU Bedroom Count	n/a
22		F <mark>ue</mark> l Type	All electric
СОМР	LIANCE RE	SULTS	HERS
	01	Building Complies with Computer	Performance
	02	This building incorporates feature	s that require field testing and/or ver
	03	This building incorporates one or	more Special Features shown below

CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Number: 223-P016612496A-000-000-0000000-0000

CERTIFICATE OF COMP	LIANCE - RESIDENTIAL PERFO	RMANCE COMPLIANCE METH	IOD			CF1R-PRF-01				
roject Name: Mono County ADU (Plan 3)Calculation Date/Time: 2023-11-07T14:17:21-08:00										
Calculation Description	n: Title 24 Analysis		Input File Name: Mono County ADU (Plan 3) 2022.ribd22x							
ENERGY USE SUMMARY										
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft ² -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft ² -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)				
Space Heating	14.81	100.24	8.48	91.65	6.33	8.59				
Space Cooling	0.37	4.34	0.19	2	0.18	2.34				
IAQ Ventilation	0.4	4.3	0.4	4.3	0	0				
Water Heating	4.05	50.79	1.98	25.2	2.07	25.59				
Self Utilization/Flexibility Credit	٨			0		0				
South Facing Efficiency Compliance Total	19.63	159.67	11.05	123.15	8.58	36.52				
Space Heating	14. <mark>81</mark>	100.24	8.85	96.42	5.96	3.82				
Space Cooling	0.37	H 4.34 R S	P R 0.08		0.29	3.46				
IAQ Ventilation	0.4	4.3	0.4	4.3	0	0				
Water Heating	4.05	50.79	1.99	25.32	2.06	25.47				
Self Utilization/Flexibility Credit				0		0				
West Facing Efficiency Compliance Total	19.63	159.67	11.32	126.92	8.31	32.75				

CA Building Energy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Mono County ADU (Plan 3) Calculation Description: Title 24 Analysis

ZONE INFORMATI	ON						
01			02			03	
Zone Nam	e		Zone Type		HVAC	Syste	
Living Are	а		Conditioned		HV	AC Sys	
OPAQUE SURFACI	ES						
01			02		0	3	
Name			Zone		Constr	uction	
Front Wall			Living Area		R-21	Wall	
Left Wall			Living Area		R-21	Wall	
Rear Wall			Living Area	R-21 Wall			
Right Wall			Living Area	R-21 Wall			
Roof			Living Area	R-38 Roof Att			
				-		-	
ATTIC					1	1.0	
01			02	03			
Name		С	onstruction	Туре			
Attic Living Ar	ea	Attic	RoofLiving Area	Ventilated			
FENESTRATION /	GLAZIN	IG					
01	6)2	03	04	4	(
Name	Ту	pe	Surface	Orient	ation	Aziı	
А	Window		Front Wall	Front			
Door A1	Wir	dow	Front Wall	Front			
A 2	Wir	dow	Front Wall	Fro	Front		

Registration Number: 223-P016612496A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Calculation Date/Time: 2023-11-07T14:17:21-08:00 Input File Name: Mono County ADU (Plan 3) 2022.ribd22x

DU (Plan 3) 05 Standards Version 2022 07 Software Version EnergyPro 9.2 Front Orientation (deg/ Cardinal) All orientations 09 11 Number of Dwelling Unit 13 Number of Bedroo Number of Stories 15 Fenestration Average U-factor 0. 17 Glazing Percentage (%) 17.77% 19 21 ADU Conditioned Floor Area n/a -23 No Dwelling Unit: No LERS PROVIDER d testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider.

> Registration Date/Time: 2023-11-27 08:33:48 Report Version: 2022.0.000 Schema Version: rev 20220901

HERS Provider: CalCERTS inc. Report Generated: 2023-11-07 14:18:48

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Registration Date/Time: 2023-11-27 08:33:48 Report Version: 2022.0.000 Schema Version: rev 20220901

HERS Provider: CalCERTS inc. Report Generated: 2023-11-07 14:18:48

CF1R-PRF-01E Calculation Date/Time: 2023-11-07T14:17:21-08:00 (Page 7 of 12) Input File Name: Mono County ADU (Plan 3) 2022.ribd22x 04 05 06 07 stem Name Avg. Ceiling Height Water Heating System 1 Status Zone Floor Area (ft²) ystem1 692 DHW Sys 1 New 07 04 05 06 08 Window and Door Tilt (deg) Azimuth Orientation Gross Area (ft²) Area (ft2) Front 288 36 90 0 90 Left 288 72 90 180 Back 160 6 90 270 Right 90 288 9 n/a n/a ttic n/a n/a 692 an 07 08 Roof Rise (x in 12) Roof Reflectance Roof Emittance Radiant Barrier Cool Roof 0.1 0.85 No No 8 05 06 07 08 09 10 11 12 13 14 Width | Height | Area U-factor zimuth Mult. SHGC SHGC Source Exterior Shading U-factor (ft) (ft²) Source 0.3 NFRC 8 0.23 NFRC 0 Bug Screen 20 0.3 NFRC 0.23 NFRC Bug Screen 0 8 0.3 NFRC 0.23 NFRC 0 Bug Screen

> Registration Date/Time: 2023-11-27 08:33:48 Report Version: 2022.0.000

HERS Provider: CalCERTS inc.

Schema Version: rev 20220901

Report Generated: 2023-11-07 14:18:48

COUNTY

	MONO COUNTY ADU PROTOTYPES MONO COUNTY MONO COUNTY ADD COMPLIANCE - PLAN 3 - SLAB ON GRADE
DBLIC SET	<mark>рате</mark> 01/10/2024 SHEET T24-A301

2022

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)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 and solar heat gain coefficient (SHGC) values from Tables 110.6-A, 110.6-B, or JA4.5 for exterior doors. They must be caulked and/or weather-stripped.
§ 110.7:	Air Leakage. All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be caulked, gasketed, or weather stripped.
§ 110.8(a):	Insulation Certification by Manufacturers. Insulation must be certified by the Department of Consumer Affairs, Bureau of 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 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 doors must have permanently attached insulation using adhesive or mechanical fasteners. The attic access must be gasketed to prevent air leakage. Insulation must be installed in direct contact with a roof or ceiling which is sealed to limit infiltration and exfiltration as specified in § 110.7, including but not limited to placing insulation either above or below the roof deck or on top of a drywall 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-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less, or R-20 in 2x6 inch wood framing or have a U-factor of 0.071 or less. Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0.102. Masonry walls must meet Tables 150.1-A or B. [*]
§ 150.0(d):	Raised-floor Insulation. Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor. *
§ 150.0(f):	Slab Edge Insulation. Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alone without facings, no greater than 0.3 percent; have a water vapor permeance no greater than 2.0 perm per inch; be protected from physical damage and UV light deterioration; and, when installed as part of a heated slab floor, meet the requirements of § 110.8(g).
§ 150.0(g)1:	Vapor Retarder. In climate zones 1 through 16, the earth floor of unvented crawl space must be covered with a Class I or Class II vapor retarder. This requirement also applies to controlled ventilation crawl space for buildings complying with the exception to \$150.0(d).
§ 150.0(g)2:	Vapor Retarder. In climate zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all insulation in all exterior walls, vented attics, and unvented attics with air-permeable insulation.
§ 150.0(q):	Fenestration Products. Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must have a maximum U-factor of 0.45, or area-weighted average U-factor of all fenestration must not exceed 0.45.
Fireplaces, Deco	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. [*]
Space Condition	Space Conditioning, Water Heating, and Plumbing System:
§ 110.0-§ 110.3:	Certification. Heating, ventilation, and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other is 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 Table 110.2-A through Table 110.2-N.*
§ 110.2(b):	Controls for Heat Pumps with Supplementary Electric Resistance Heaters. Heat pumps with supplementary electric resistance heaters must have controls that prevent supplementary heater operation when the heating load can be met by the heat pump alone; and in which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating.
§ 110.2(c):	Thermostats. All heating or cooling systems not controlled by a central energy management control system (EMCS) must have a setback thermostat. *
8 110 3(c)3 [.]	Insulation. Unified service water heater storage tanks and solar water-heating backup tanks must have adequate insulation, or tank surface heat loss rating.

NCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD												CEIR-PRE-DIE			
nty ADU (Plan 3) Calculation Date/Time: 2023-11-07T14:17:21-08:00												(Page 11 of 12)			
itle 24	4 Analys	sis			Input Fi	le Name: Mono	Count	ty ADU (Pla	an 3) 202	2.ribd2	2x				
JMP (OMPLIA	NCE OPTI	ON - HERS V	ERIFICATION											
	0	02	03	04	05	06		07	08	;	09		10		
	Low	tified -Static System	Airflow t Habitab Rooms	le in Conditioned	Wall Mount Thermostat	Air Filter Sizing & Pressure Drop Rating	D Con	Leakage ucts in ditioned Space	Airflov RA3.3	Airflow per RA3.3 and non-co		Airflow per RA3.3 and Fan		bus	Indoor Fan not Running Continuously
	Not re	equired	Require	d Required	Required	Not required	Not	required	Not required		Not required		Not require	d	Not required
FANS									09						
02 low (0	CFM)	Fan E	o3 (fficacy (CFM)	04 IAQ Fan Type	05 Includes Heat/Energy Recovery?	06 IAQ Recover Effectivenes: SRE/ASRE	s -	Includes	07 08 Includes Fault Indicator Display?		08 HERS Verification		09 Status		

Recovery?

No

HERS PROVIDER

SRE/ASRE

n/a / n/a

Registration Date/Time: 2023-11-27 08:33:48

Report Version: 2022.0.000

Schema Version: rev 20220901

No

1110.

Yes

HERS Provider: CalCERTS inc.

Report Generated: 2023-11-07 14:18:48

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Report Version: 2022.0.000

Schema Version: rev 20220901

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Mono County

Exhaust

Ceiling

Calculation Description: Titl

CF1R-PRF-01E age 11 of 12)

Siding/sheathing/decking Cavity / Frame: no insul. / 2x4

HERS Provider: CalCERTS inc.

Report Generated: 2023-11-07 14:18:48

		CE - RESIDENTIA	L PERFORMAN	CE COMP	LIANCE ME	THOD								CF1R-PRF-01E
Project Name: N	/lono Count	y ADU (Plan 3)					Calcula	tion Date/	Time: 202	23-11-07T14	1:17:21-08	3:00		(Page 8 of 12)
Calculation Deso	cription: Tit	le 24 Analysis					Input F	ile Name:	Mono Cou	unty ADU (P	lan 3) 202	2.ribd	22x	
FENESTRATION /	GLAZING						-							
01	02	03	04	05	06	07	08	09	10	11	12	2	13	14
Name	Туре	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-factor Source	I SHO	GC	SHGC Source	Exterior Shading
В	Window	Left Wall	Left	90			1	16	0.3	NFRC	0.2	23	NFRC	Bug Screen
B 2	Window	Left Wall	Left	90			1	16	0.3	NFRC	0.2	23	NFRC	Bug Screen
Door C	Window	Left Wall	Left	90			1	40	0.3	NFRC	0.2	23	NFRC	Bug Screen
B.2	Window	Rear Wall	Back	180			1	6	0.3	NFRC	0.2	23	NFRC	Bug Screen
B.1	Window	Right Wall	Right	270			1	9	0.3	NFRC	0.2	23	NFRC	Bug Screen
SLAB FLOORS		-	-											
01		02	03	-	04		0	05	11	06		()7	08
Name		Zone	Area (ft ²)	6	Perimete	r (ft)		nsul. R-valund Depth	Je Edg	e Insul. R-va and Depth	1 6	arpete	d Fraction	Heated
Slab		Living Area	692	HE	106	P	R	none	ID	EOR		8	0%	No
OPAQUE SURFACI	E CONSTRUC	TIONS												
01		02	03			04		05		06	07	08		
Construction N	Name	Surface Type	Construction	n Type	Fra	aming		Total Cavi R-value	ty Cor	or / Exterior ntinuous -value	U-factor	r Assembly		Layers
R-21 Wall		Exterior Walls	Wood Frame	d Wall	2x6 @	16 in. O. C	2.	R-21	Non	ie / None	0.069	Inside Finish: Gy Cavity / Frame: Exterior Finish: 3		: R-21 / 2x6
Attic RoofLiving	g Area	Attic Roofs	Wood Fra Ceiling		2x4 @	24 in. O. C	2.	R-0	N	one / 0	0.644	Roofing: Light Roof (A Roof Deck: \ Siding/sheathin		: Wood

VARIABLE CAPACITY HEAT PUM 01 Name Heat Pump System 1

0.35

Registration Number: 223-P016612496A-000-000-000000-0000

CA Building Energy Efficiency Standards - 2022 Residential Compliance

INDOOR AIR QUALITY (IAQ) FA 01 Dwelling Unit Airflov SFam IAQVentRpt 35

Registration Number: 223-P016612496A-000-000-0000000-0000

CA Building Energy Efficiency Standards - 2022 Residential Compliance



Pilot Lights. Continuously burning pilot lights are prohibited for natural gas: fan-tyr (except appliances without an electrical supply voltage connection with pilot lights t

- Pipi

Registration Number: 223-P016612496A-000-000-000000-0000

CA Building Energy Efficiency Standards - 2022 Residential Compliance

- mainte adhes include desigr plumb plumb Solar R&T)

Digitally signed by CalCERTS. This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.

- Icts and 3rd Editi **Duct:** contracont
- y-Fa Facto
- ess such tape ed Duct Syst nts, and other

 - t have ... tlet air oper ture, equipn rs. Gra in all (isulatic
- duct tapes unle Field-Fabricat mastics, sealan Backdraft Darr dampers Gravity Ventila manually opera Protection of I Insulation expor-cover). Cellular Porous Inner (outer vapor barr occupiable spa
 - Air Filtra Air Filtra or equiva Clean-filt racks or

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2		



amently installed static pressure probe in the supply cooling must namently installed static pressure probe in the supply plenum. Airflow -handling unit fan efficacy ≤ 0.45 watts per CFM for gas furnace air high velocity systems must provide an airflow ≥ 250 CFM per ton of n watts per CFM. Field verification feature is remained in contract. n Airriow Rate and Fan Efficacy. static pressure probe, or a permai ninal cooling capacity, and an air-h er CFM for all others. Small duct hig and ling unit fan efficacy ≤ 0.62 w Space Conditioning a hole for the placeme be ≥ 350 CFM per ton handlers and ≤ 0.58 w cooling capacity, and a

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

ite E	CEA/ HERS Certification Identification (If applicable): r160610042
	Phone:
	805-904-9048
STATEME <mark>NT</mark>	
y, under the laws of the State of California:	
ne Busin <mark>es</mark> s and Professions Code to accept responsibility for th	e building design identified on this Certificate of Compliance.
and performance specifications identified on this Certificate of	Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Re
	e are consistent with the information provided on other applicable compliance documents, work
CalCE	Responsible Designer Signature:
HERS	Date Signed: 2023-11-27 08:33:48
	License:
2	na
	Phone:
	805-543-1794

Registration Date/Time: 2023-11-27 08:33:48

Report Version: 2022.0.000

Schema Version: rev 20220901

Registration Date/Time: 2023-11-27 08:33:48

Report Version: 2022.0.000

Schema Version: rev 20220901

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD	CF1R-PRF-01E
Project Name: Mono County ADU (Plan 3)	Calculation Date/Time: 2023-11-07T14:17:21-08:00 (Page 12 of 12)
Calculation Description: Title 24 Analysis	Input File Name: Mono County ADU (Plan 3) 2022.ribd22x
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name:	Documentation Author Signature:
Timothy Carstairs	Timothy Carstains
Company: Carstairs Energy Inc.	Signature Date: 2023-11-08 09:52:39
Address: 2238 Bayview Heights Drive, Suite E	CEA/ HERS Certification Identification (If applicable): r160610042
City/State/Zip: Los Osos, CA 93402	Phone: 805-904-9048
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
	Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. e are consistent with the information provided on other applicable compliance documents, worksheets,
Randy Russom	Khon
RRM Design Group	Date Signed: 2023-11-27 08:33:48
Address: 3765 S. Higuera Street, Suite 102	License: Na
^{City/State/Zip:} San Luis Obispo, CA 94301	Phone: 805-543-1794

opect Name: Mono County ADU (Plan 3) Calculation Date/Time: 2023-11-07T14:17:21-08:00 (Pale Input File Name: Mono County ADU (Plan 3) 2022.ribd22x Cutention Description: Title 24 Analysis Input File Name: Mono County ADU (Plan 3) 2022.ribd22x Cutention Author's DECLARATION STATEMENT Documentation Author Signature: Input File Name: Mono County ADU (Plan 3) 2022.ribd22x Cutention Author Name: Documentation Author Signature: Documentation Author Signature: Input File Name: Mono County ADU (Plan 3) 2022.ribd22x mentation Author Name: Documentation Author Signature: Documentation Author Signature: Input File Name: Mono County ADU (Plan 3) 2022.ribd22x mentation Author Name: Documentation Author Signature: Documentation Author Signature: Input File Name: Mono County ADU (Plan 3) 2022.ribd22x mentation Author Name: Documentation Author Signature: Documentation Author Signature: Input File Name: Mono County ADU (Plan 3) 2022.ribd22x mentation Author Name: Documentation Author Signature: Documentation Author Signature: Input File Name: Mono County ADU (Plan 3) 2022.ribd22x mentation Author Name: Documentation Author Signature: Calculation Date Action Mathor Signature: Input File Name: Mono County ADU (Plan 3) 2022.ribd22x Market Service Calculation Date Action Name: Calculation Date Action Name: Name: Docum		
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DCUMENTATION AUTHOR'S DECLARATION STATEMENT Icertify that this Certificate of Compliance documentation is accurate and complete. crumentation Author Name: Documentation Author Signature: imothy Carstairs Turnedly Carstairs mpany: Signature Date: carstairs Energy Inc. 2023-11-08 09:52:39 dress: CEA/ HERS Certification Identification (If applicable): 238 Bayview Heights Drive, Suite E Phone: w/State/Zip: Phone: os Osos, CA 93402 805-904-9048 SPONSIBLE PERSON'S DECLARATION STATEMENT Phone: rtify the following under penalty of perjury, under the laws of the State of California: I 1 I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance. 2 I certify that the energy features and performance specifications identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, works california code of Reg 3 The building design features or system design features identified on this Certificate on consistent with the information provided on other applicable compliance documents, works california submitted to the enforcement agency for approval with this building per mit application. 3 The building design features and spe	oject Name: Mono County ADU (Plan 3)	Calculation Date/Time: 2023-11-07T14:17:21-08:00 (Page
I certify that this Certificate of Compliance documentation is accurate and complete. cumentation Author Name: imothy Carstairs imothy Carstairs mpany: carstairs Energy Inc. dress: 238 Bayview Heights Drive, Suite E v/State/Zip: os Osos, CA 93402 Phone: 805-904-9048 SPONSIBLE PERSON'S DECLARATION STATEMENT rtify the following under penalty of perjury, under the laws of the State of California: 1. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance. 2. I certify that the energy features and performance specifications identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, works calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. sponsible Designer Name: Responsible Designer Signature:	Iculation Description: Title 24 Analysis	Input File Name: Mono County ADU (Plan 3) 2022.ribd22x
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		Responsible Designer Signature:

	o county ADO (i	iun Sj					culculut	non Date,	1111C. 20	25 11 0/11-		0.00	(1 466 2 01 1
Calculation Descrip	tion: Title 24 Ana	alysis					Input Fi	le Name:	Mono Co	unty ADU (P	Plan 3) 20)22.ribd22x	
OPAQUE SURFACE CO	NSTRUCTIONS												
01	02		03			04		05		06	07		08
Construction Nam	e Surface	Туре	Constructio	n Type	F	raming		Total Cavi R-value		or / Exterior Intinuous R-value	U-facto	r Asser	nbly Layers
R-38 Roof Attic	Ceilings (attic		Wood Fra Ceilin		2x4 @) 24 in. O. C		R-38	No	ne / None	0.025	Cavity / Fr	Joists: R-28.9 insul. ame: R-9.1 / 2x4 h: Gypsum Board
BUILDING ENVELOPE	- HERS VERIFICATI	ON											
01			02			0	3			04			05
Quality Insulation Ir	stallation (QII)	High R-v	<mark>alu</mark> e Spray Foar	n Insulatio	on Build	ding Envelo	pe Air Le	akage		CFM50			CFM50
Not Requ	ired		Not Required	1		N/	/Α			n/a			n/a
WATER HEATING SYST	TEMS	-	-	-	Le	-	_	-					
01	02		03	10 7	04	0	5	5	06)7	08	09
Name	System Type	Dist	ribution Type	Water He	eater Name	Number	of Units	and the second second	· Heating /stem		pact bution	HERS Verification	Water Heater Name (#)
DHW Sys 1	Domestic Hot Water (DHW)		Standard	DHW	Heater 1	1	L		n/a	No	one	n/a	DHW Heater 1 (1
WATER HEATERS - NE	EA HEAT PUMP												
01	02		03		04			05		06		07	08
Name	# of Unit	s	Tank Vol. (gal)	NEEA Hea Bran			Heat Pum Model	p	Tank Locatior	n D	uct Inlet Air Source	Duct Outlet Air Sour
DHW Heater 1	1		50		Rhee	im		10H22U0 (. al, JA13)	50	TankZone		Living Area	Living Area

Calculation Date/Time: 2023-11-07T14:17:21-08:00

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Mono County ADU (Plan 3)

Registration Number: 223-P016612496A-000-000-0000000-0000

CA Building Energy Efficiency Standards - 2022 Residential Compliance

CF1R-PRF-01E

(Page 9 of 12)

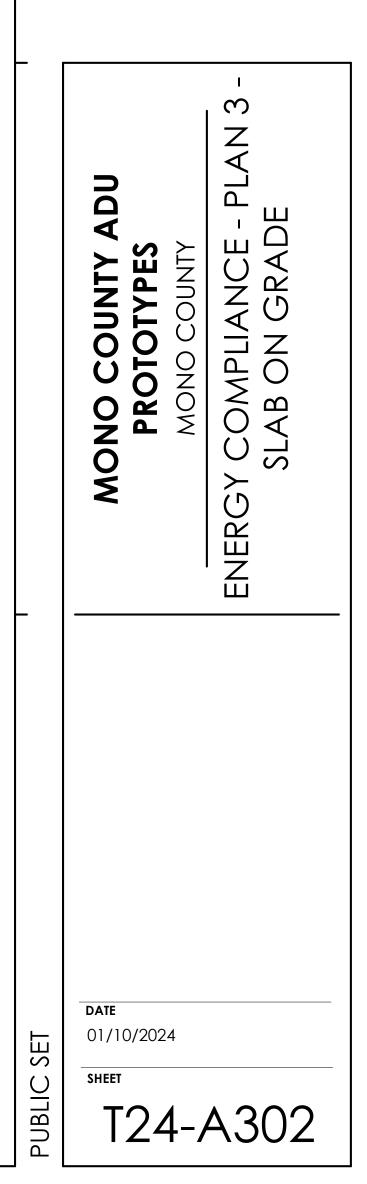
HERS Provider: CalCERTS inc.

Report Generated: 2023-11-07 14:18:48

Project Name: Mono Co Calculation Description WATER HEATING - HERS V 01 Name DHW Sys 1 - 1/1	: Title 24 Analy	sis	Pa	03					Mono Cou		14:17:21-08 (Plan 3) 202			(Page 10 of 1
VATER HEATING - HERS V 01 Name	ERIFICATION 02 Pipe Insu	· · · · · ·	Pa				out File	Name:		nty ADU	(Plan 3) 202	2.ribd22x		
01 Name	02 Pipe Insu		Pa			04								
Name	Pipe Insu		Ра			04								
	-	ulation	Pa						05			06		07
DHW Sys 1 - 1/1	Not Reg			rallel Piping	C	ompact Distr	ibution	Co	ompact Dist Type	ribution	Recircula	tion Control	Show	er Drain Water He Recovery
		quired	N	ot Required		Not Requi	red		None		Not F	Required		Not Required
PACE CONDITIONING SYS	STEMS													
01	02	03		04		05			06		07	08		09
Name	System Type	Heating Unit	Name	Heating Equip Count	ment	Cooling Unit	Name		g Equipment Count	Fai	n Name	Distribution N	lame	Required Thermostat Typ
HVAC System1 he	Heat pump eating cooling	Heat Pump S 1	System	1		Heat Pump S 1	ystem		1		n/a	n/a		Setback
IVAC - HEAT PUMPS	-		-	-	-	-	-	-						
01	02	03	04	05	06	07		08	09	10	11	12		13
			1	Heat	ing	These is			Cooling					
Name S	System Type	Number of Units	Heat Efficie Typ	ency PF2/COP		47 Cap 17	Effi	ooling ciency Type	SEER/SE ER2	EER/EER 2/CEER	Zonally Controlled	Compressor Type	н	ERS Verification
Heat Pump Vo System 1 Vo	CHP-ductless	1	HSP	PF 8.2	1200	00 8000	EE	RSEER	14	11.7	Not Zonal	Single Speed		eat Pump System 1-hers-htpump
IVAC HEAT PUMPS - HERS	S VERIFICATION													
01	02	03		04		05			06		07	08		09
Name Ve	erified Airflow	Airflow Ta	irget	Verified EER/	EER2	Verified SEER/SEE			l Refrigeran Charge		erified F/HSPF2	Verified Heat Cap 47	ting	Verified Heating Cap 17
Heat Pump System 1-hers-htpump	Not Required	0		Not Require	ed	Not Requi	red		Yes		No	Yes		Yes

KESIDEN I IAL MEASURES SUMIMARY								
Project Name Mono County ADU (Plan 3)	NDU (Plan 3)		Build	Building Type Z Si	y ily	Addition Alone Existing+ Add	n/Alt	Date 11/8/2023
Project Address Mono County			Calife	California Energy Climate Zone CA Climate Zone 16		Total Cond. Floor Area 692	ea Addition <i>n/a</i>	# of Units
INSULATION Construction	ר Type		Cavity	Area ity (ff ²)		Special Features	Si	Status
Wall Wood Framed	ramed		R 21	601	1			New
Roof Wood Fr	Wood Framed Attic		R 38	692	2			New
Slab Unheate	Unheated Slab-on-Grade		- no insulation	ulation 692	2 Perim = 106'			New
FENESTRATION	NOI	Total Area:	123	123 Glazing Percentage:	age: 17.8 %		New/Attered Average U-Factor:	0.30
Orientation	Area(<i>ft²</i>)	U-Fac S	SHGC	Overhang	Sidefins	Exterior Shades	Shades	Status
Front (N)	36.0	0.300	0.23	none	none	N/A		New
Left (E)	72.0	0.300	0.23	none	none	N/A		New
Rear (S)	6.0	0.300	0.23	none	none	N/A		New
Right (W)	9.0	0.300	0.23	none	none	N/A		New
HVAC SYSTEMS Qty. Heating	a MS	Min. Eff		Cooling	Min. Eff		Thermostat	Status
1 Electric Heat Pump	eat Pump	8.20 HSPF	Spli	Split Heat Pump	14.0 SEER	Retback	ack	New
HVAC DISTRIBUTION Location H	(IBUTION He	N Heating	ů	Cooling Du	Duct Location		Duct R-Value	Status
HVAC System	Ductle	Ductless / with Fan	Ductless				n/a	New
WATER HEATING Qty. Type	TING	Gall	Gallons	Min. Eff	Distribution	Б		Status
	dı	50		3.20	Standard			New



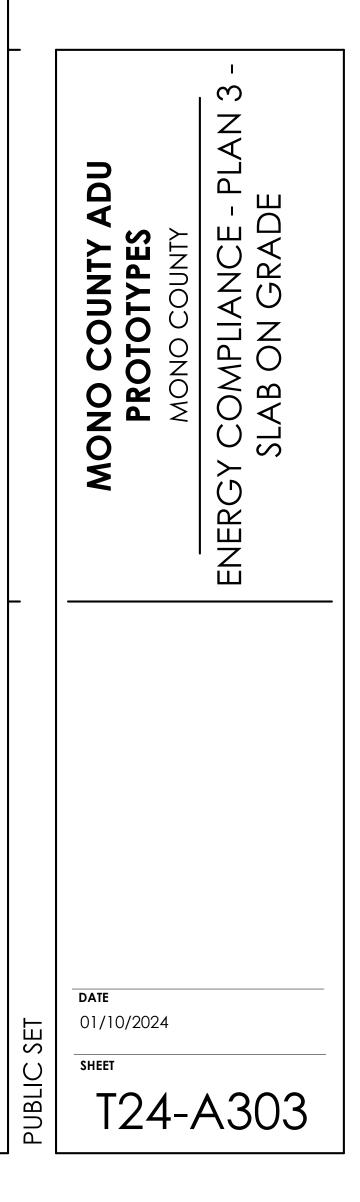


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 5 (5010) Terery Storage System (ESS) Randy, Mi storph-kin/h residencies must meet al of the following: Enher ESS-early intercorrection interpret with tradeout paralayor for a prostance of the control contains in a storage of the control or contains in the control or con	





Standard Dasign 44.2 53.4 44.5 Image: Control of the sector of th	BUILDING ENERGY ANALYSIS REPORT	PROJECT: Mono County ADU (Plan 3) Mono County, CA	Project Designer: RRM Design Group 3765 South Higuera St. Suite 102 San Luis Obispo, CA 93401 (805) 543-1794	Report Prepared by: Timothy Carstairs, CEA, HERS, GPR Carstairs Energy Inc. 2238 Bayview Heights Drive, Suite E Los Osos, CA 93402 805-904-9048	CARSTAIRS EN ER GY Job Number: 22-051011	Date: Date: 11/20/2023 The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is
<text></text>		CERTIFICATE OF COMPLIANCE - R	ESIDENTIAL PERFORMANCE COMP	LIANCE METHOD		CF1
Description Description Description Second Seco		Project Name: Mono County ADU	J (Plan 3)	Calculation E		00 (Pa
Image: biology Image: biology Image: biology Image: biology Standard Dergin 4.2 3.4 46.0		ENERGY DESIGN RATINGS	Er	nergy Design Ratings	Com	pliance Margins
North Facing 222 34 321 17 19.4 Sorth Facing 223 3.4 2.1 17 20.8 1 Sorth Facing 22.6 3.1.2 17.4 20.8 1 20.1 20.1 20.1 20.8 1 20.1 20.8 1 20.1 20.8 1 20.1 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>						
North Paring27.23432.117.212.41Each Fairing26.535.611.217.720.61Weet Fairing27.733.52.217.220.51Weet Fairing27.733.53.217.220.51Weet Fairing27.733.53.217.220.51Weet Fairing27.733.53.217.220.51Paring Coll product Intervention of the control of the c		Standard Design	44.2			
South Facing 26.4 33.3 11.4 12.4 26.1 Write Facing 27 33.5 32 17.2 19.5 Fillenery (DN is class improvements the black bading exactly and three straight and three s				34 32.1		
Instant processing and provide						
¹ Afferory (DB includes improvements like 3 better fluiding envolge and nor efficient disparint ¹ Addition of the basis densities and an afferory and tenders installing a such as a fluid booking (DB installing installing and the area and unret load fluid links are not exceeded * Standard Derger PC Description: The VMM Link Link Link Multiple desch (Link Multiple and the area and unret load fluid links are not exceeded * Standard Derger PC Description: The VMM Link Link Link Multiple desch (Link Multiple and the area and unret load fluid links are not exceeded * Standard Derger PC Description: The VMM Link Link Link Multiple desch (Link Multiple and the area and unret load fluid links are not exceeded * Registration Number: 232-PD 8677848-088-858-868068-868 * Registration Number: 232-PD 8677848-088-858-8680688-868 * Registration Number: 232-PD 8677848-088-858-8680688-868 * Registration Number: 232-PD 8677848-088-858-8680688-868 <td></td> <td>West Facing</td> <td>27</td> <td>I con una sono mante</td> <td>17.2</td> <td>19.5 12</td>		West Facing	27	I con una sono mante	17.2	19.5 12
North Facing Image: Constraint of the second s						
Gross EUI ¹ 40.03 28.13 11.9 29.7 Net EUI ² 25.76 13.86 11.9 46. East Facing 40.03 27.51 12.52 31.2 Net EUI ² 25.76 13.24 12.52 48. South Facing 40.03 27.91 12.12 30.2 Gross EUI ¹ 40.03 27.91 12.12 30.2 Net EUI ² 25.76 13.64 12.12 30.2 Gross EUI ¹ 40.03 27.91 12.12 30.2 Net EUI ² 25.76 13.64 12.12 30.2 Net EUI ² 25.76 13.64 12.12 30.2 Net EUI ² 25.76 13.64 12.12 47.0 West Facing 40.03 28.2 11.83 29.5 Net EUI ² 25.76 13.93 11.83 45.5 Notes 1. Gross EUI is Energy Use Total (not including PV) / Total Building Area. 1. 1. 1.		CA Building Energy Efficiency Standa CERTIFICATE OF COMPLIANCE - Ri Project Name: Mono County ADU Calculation Description: Title 24 A	ards - 2022 Residential Compliance ESIDENTIAL PERFORMANCE COMP J (Plan 3)	Report Version: 2022.0 Schema Version: rev 20 LIANCE METHOD Calculation E	.000 Repo 0220901 Date/Time: 2023-11-20T07:30:47-08:0	ort Generated: 2023-11-20 07: CF1 00 (Pa
East Facing East Facing Gross EUI ¹ 40.03 27.51 12.52 31.2 Net EUI ² 25.76 13.24 12.52 48. South Facing		CA Building Energy Efficiency Standa CERTIFICATE OF COMPLIANCE - R Project Name: Mono County ADU Calculation Description: Title 24 A ENERGY USE INTENSITY	ards - 2022 Residential Compliance ESIDENTIAL PERFORMANCE COMP J (Plan 3) Analysis	Report Version: 2022.0 Schema Version: rev 20 LIANCE METHOD Calculation E Input File Na	.000 0220901 Date/Time: 2023-11-20T07:30:47-08:0 Ime: Mono County ADU (Plan 3)(raise	CF1 00 (Pai ed foundation) 2022.ribd22x
Gross EUI ¹ 40.03 27.51 12.52 31.2 Net EUI ² 25.76 13.24 12.52 48. South Facing 30.2 30.2 30.2 30.2 Met EUI ² 25.76 13.64 12.12 30.2 Net EUI ² 25.76 13.64 12.12 30.2 West Facing 30.2 30.3 30.2 30.2 Net EUI ² 25.76 13.64 12.12 30.2 Net EUI ² 25.76 13.64 12.12 30.2 Net EUI ² 25.76 13.64 12.12 30.2 Notes 30.3 30.3 30.3 30.3 Notes 30.6 South Including PV) / Total Building Area. South Including Area.		CA Building Energy Efficiency Standa CERTIFICATE OF COMPLIANCE - R Project Name: Mono County ADU Calculation Description: Title 24 A ENERGY USE INTENSITY North Facing	erds - 2022 Residential Compliance ESIDENTIAL PERFORMANCE COMP J (Plan 3) Analysis Standard Design (kBtu/ft ² - yr)	Report Version: 2022.0 Schema Version: rev 20 LIANCE METHOD Calculation E Input File Na Proposed Design (kBtu/ft ² - yr	.000 220901 Date/Time: 2023-11-20T07:30:47-08:0 me: Mono County ADU (Plan 3)(raise) Compliance Margin (kBtu/ft ² - yr	CF1 00 (Pa; ed foundation) 2022.ribd22x
South Facing Image: Constraint of the second s		CA Building Energy Efficiency Standa CERTIFICATE OF COMPLIANCE - RI Project Name: Mono County ADU Calculation Description: Title 24 A ENERGY USE INTENSITY North Facing Gross EUI ¹ Net EUI ²	erds - 2022 Residential Compliance ESIDENTIAL PERFORMANCE COMP J (Plan 3) Analysis Standard Design (kBtu/ft ² - yr) 40.03	LIANCE METHOD Calculation D Input File Na 28.13	.000 220901 Pate/Time: 2023-11-20T07:30:47-08:0 ime: Mono County ADU (Plan 3)(raise Compliance Margin (kBtu/ft ² - yr 11.9	CF1 00 (Pa ed foundation) 2022.ribd22x
Gross EUI ¹ 40.03 27.91 12.12 30.2 Net EUI ² 25.76 13.64 12.12 47.0 West Facing 90.00		CA Building Energy Efficiency Standa CERTIFICATE OF COMPLIANCE - Ri Project Name: Mono County ADU Calculation Description: Title 24 A ENERGY USE INTENSITY North Facing Gross EUI ¹ Net EUI ² East Facing	ESIDENTIAL PERFORMANCE COMP J (Plan 3) Analysis Standard Design (kBtu/ft ² - yr) 40.03 25.76	LIANCE METHOD Calculation D Input File Na Proposed Design (kBtu/ft ² - yr 28.13 13.86	.000 D220901 Pate/Time: 2023-11-20T07:30:47-08:0 Ime: Mono County ADU (Plan 3)(raise) Compliance Margin (kBtu/ft ² - yr 11.9 11.9	CF1 00 (Pa ed foundation) 2022.ribd22x) Margin Percenta 29.73
West Facing HERS PROVIDER Gross EUI ¹ 40.03 28.2 11.83 29.5 Net EUI ² 25.76 13.93 11.83 45.5 Notes 1. Gross EUI is Energy Use Total (not including PV) / Total Building Area.		CA Building Energy Efficiency Standa CERTIFICATE OF COMPLIANCE - R Project Name: Mono County ADU Calculation Description: Title 24 A ENERGY USE INTENSITY North Facing Gross EUI ¹ Net EUI ² East Facing Gross EUI ¹ Net EUI ²	erds - 2022 Residential Compliance ESIDENTIAL PERFORMANCE COMP U (Plan 3) Analysis Standard Design (kBtu/ft ² - yr) 40.03 40.03 40.03	Report Version: 2022.0 Schema Version: rev 20 Calculation D Input File Na Proposed Design (kBtu/ft ² - yr 28.13 13.86 27.51	.000 D220901 Pate/Time: 2023-11-20T07:30:47-08:0 Ime: Mono County ADU (Plan 3)(raise Ime: Mono County ADU (Plan 3)(rai	CF1 00 (Pa ed foundation) 2022.ribd22x) Margin Percenta 29.73 46.2
West Facing Gross EUI ¹ 40.03 28.2 11.83 29.5 Net EUI ² 25.76 13.93 11.83 45.5 Notes 1. Gross EUI is Energy Use Total (not including PV) / Total Building Area. Visual Control of		CA Building Energy Efficiency Standa CERTIFICATE OF COMPLIANCE - R Project Name: Mono County ADU Calculation Description: Title 24 A ENERGY USE INTENSITY North Facing Gross EUI ¹ Net EUI ² East Facing Gross EUI ¹ Net EUI ² South Facing	erds - 2022 Residential Compliance ESIDENTIAL PERFORMANCE COMP J (Plan 3) Analysis Standard Design (kBtu/ft ² - yr) 40.03 25.76 40.03 25.76	LIANCE METHOD Calculation D Input File Na 28.13 28.13 13.86	.000 220901 Pate/Time: 2023-11-20T07:30:47-08:0 ime: Mono County ADU (Plan 3)(raise ime: Mono County ADU (Plan 3)(raise 11.9 11.9 11.9 11.9 12.52 12.52	CF1 00 (Pa ed foundation) 2022.ribd22x) Margin Percenta 29.73 46.2 31.28
Net EUI ² 25.76 13.93 11.83 45.5 Notes 1. Gross EUI is Energy Use Total (not including PV) / Total Building Area.		CA Building Energy Efficiency Standa CERTIFICATE OF COMPLIANCE - R Project Name: Mono County ADU Calculation Description: Title 24 A ENERGY USE INTENSITY North Facing Gross EUI ¹ Net EUI ² East Facing Gross EUI ¹ Net EUI ² South Facing Gross EUI ¹ Net EUI ²	esidential Compliance ESIDENTIAL PERFORMANCE COMP J (Plan 3) Analysis Standard Design (kBtu/ft ² - yr) 40.03 25.76 40.03 25.76	LIANCE METHOD Calculation D Input File Na 28.13 27.51 13.24	.000 D220901 Pate/Time: 2023-11-20T07:30:47-08:0 Ime: Mono County ADU (Plan 3)(raise Ime: Mono County ADU (Plan 3)(rai	CF1 00 (Pa ed foundation) 2022.ribd22x) Margin Percenta 29.73 46.2 31.28 48.6
1. Gross EUI is Energy Use Total (not including PV) / Total Building Area.		CA Building Energy Efficiency Standa CERTIFICATE OF COMPLIANCE - Ri Project Name: Mono County ADU Calculation Description: Title 24 A ENERGY USE INTENSITY North Facing Gross EUI ¹ Net EUI ² East Facing Gross EUI ¹ Net EUI ² South Facing Gross EUI ¹ Net EUI ² South Facing	erds - 2022 Residential Compliance ESIDENTIAL PERFORMANCE COMP U (Plan 3) Analysis Standard Design (kBtu/ft ² - yr) 40.03 25.76 40.03 25.76 40.03 25.76	LIANCE METHOD Calculation II Input File Na Proposed Design (kBtu/ft ² - yr 28.13 13.86 27.51 13.24 27.91 13.64	.000 Repo Date/Time: 2023-11-20T07:30:47-08:0 Ime: Mono County ADU (Plan 3)(raise	CF1 00 (Pa ed foundation) 2022.ribd22x) Margin Percenta 29.73 46.2 31.28 48.6
		CA Building Energy Efficiency Standa CERTIFICATE OF COMPLIANCE - RI Project Name: Mono County ADU Calculation Description: Title 24 A ENERGY USE INTENSITY North Facing Gross EUI ¹ Net EUI ² East Facing Gross EUI ¹ Net EUI ² South Facing Gross EUI ¹ Net EUI ² West Facing Gross EUI ¹ Net EUI ²	erds - 2022 Residential Compliance ESIDENTIAL PERFORMANCE COMP U (Plan 3) Analysis Standard Design (kBtu/ft ² - yr) 40.03 25.76 40.03 25.76 40.03 40.03 40.03 40.03 40.03	LIANCE METHOD Calculation I Input File Na Proposed Design (kBtu/ft ² - yr 28.13 13.86 27.51 13.24 27.91 13.64	.000 Repo Date/Time: 2023-11-20T07:30:47-08:0 Ime: Mono County ADU (Plan 3)(raise	CF: 00 (Pa ed foundation) 2022.ribd22:) Margin Percenta 29.73 46.2 31.28 31.28 48.6

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Mono County ADU (Plan 3)

Calculation Date/Time: 2023-11-20T07:30:47-08:00 Calculation Description: Title 24 Analysis Input File Name: Mono County ADU (Plan 3)(raised foundation) 2022.ribd22x

ENERGY USE SUMMARY

ENERGY USE SUMMARY						
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft ² -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft ² -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	16.61	112.26	7.14	77.46	9.47	34.8
Space Cooling	0.67	8.42	0.33	3.79	0.34	4.63
IAQ Ventilation	0.89	9.63	0.81	8.82	0.08	0.81
Water Heating	4.05	50.73	1.97	25.09	2.08	25.64
Self Utilization/Flexibility Credit	A			0		0
North Facing Efficiency Compliance Total	22.22	181.04		115.16	11.97	65.88
Space Heating	16. <mark>61</mark>	112.26	6.77	73.31	9.84	38.95
Space Cooling	0.67	8.42	P R 0.27	DE 83.18	0.4	5.24
IAQ Ventilation	0.89	9.63	0.81	8.82	0.08	0.81
Water Heating	4.05	50.73	1.97	25.08	2.08	25.65
Self Utilization/Flexibility				0		0

Efficiency Compliance Total	22.22	181.04		115.16	11.97	65.88	
Space Heating	16.61	112.26	6.77	73.31	9.84	38.95	
Space Cooling	0.67	8.42	P R 0.27	DE F _{3.18}	0.4	5.24	
IAQ Ventilation	0.89	9.63	0.81	8.82	0.08	0.81	
Water Heating	4.05	50.73	1.97	25.08	2.08	25.65	
Self Utilization/Flexibility Credit				0		0	
East Facing Efficiency Compliance Total	22.22	181.04	9.82	110.39	12.4	70.65	

Self Jtilization/Flexibility Credit				0		0
ast Facing Efficiency Compliance Total	22.22	181.04	9.82	110.39	12.4	70.65

Registration Number: 223-P016617248A-000-000-0000000-0000	Registration Date/Time: 2023-11-27 08:34:03	HERS Provider: CalCERTS inc.
CA Building Energy Efficiency Standards - 2022 Residential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220901	Report Generated: 2023-11-20 07:32:20

CERTIFICATE OF	COMPLIANCE -	RESIDENTIAL PERFORMA	NCE COMPLIANCE MI	FTHOD						c	F1R-PRF-01E
Project Name: M				Calculation Date/Time: 2023-11-20T07:30:47-08:00 (Page 6							
Calculation Desc	ription: Title 24	1 Analysis		Input Fil	e Name	: Mono Cour	nty ADU	(Plan 3)(raise	d foundatior	n) 2022.ribd2	2x
REQUIRED PV SYS	ГЕМЅ										
01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception	Module Type	Array Type P	ower Electronics	CFI	Azimuth (deg)	Tilt Input	, , , , , , , , , , , , , , , , , , , ,			Annual Solar Access (%)
1.78	NA	Standard (14-17%)	Fixed	none	true	150-270	n/a	n/a	<=7:12	96	98
	FEATURES										
The following are f	eatures that mus	st be installed as condition fo	r meeting the modeled e	energy performance	for this o	computer ana	ysis.				
Variable cap Northwest E HERS FEATURE SUI	acity heat pump inergy Efficiency MMARY	oly outside air inlet, filter, and compliance option (verificati Alliance (NEEA) rated heat pu	ion details from VCHP St ump water heater; speci	aff report, Appendix fic brand/model, or	B, and R equivaler	:A3) nt, must be in:	10	•			
		eatur <mark>es th</mark> at must be field-ve bles below. Registered CF2Rs					eled ener	gy performanc	e for this com	puter analysis	. Additional
 Kitchen rang Verified Ref Airflow in have Verified heat Wall-mount 	rigerant Charge abitable rooms (S t pump rated he ed thermostat in	6C3.1.4.1.7)	,								
BUILDING - FEATURES INFORMATION											
01		02	03	04		05			06		07
Project N	ame C	onditioned Floor Area (ft ²)	Number of Dwelling Units	Number of Bedro	oms	Number of	Zones		f Ventilation s Systems		er of Water g Systems
											0 7

Registration Number:	223-P016617248A-000-000-0000000-0000
CA Building Energy Effici	ency Standards - 2022 Residential Compliance

Registration Date/Time: 2023-11-27 08:34:03 Report Version: 2022.0.000 Report Generated: 2023-11-20 07:32:20 Schema Version: rev 20220901

HERS Provider: CalCERTS inc.

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Mono County ADU (Plan 3) Calculation Description: Title 24 Analysis

GENER	RAL INFOR	MATION					
01		Project Name	Mono County				
02		Run Title	Title 24 Analy				
03		Project Location	-				
04		City	Mono County				
06		Zip code					
08		Climate Zone	16				
10		Building Type					
12		Project Scope					
14		Addition Cond. Floor Area (ft ²)	0				
16		Existing Cond. Floor Area (ft ²)	n/a				
18		Total Con <mark>d. Floor Area (</mark> ft ²)	692				
20		ADU Bedroom Count	n/a				
22		F <mark>ue</mark> l Type	All electric				
сомр	LIANCE RES	SULTS					
	01	Building Complies with Computer	Performance				
	02	This building incorporates features that require					

Registration Number: 223-P016617248A-000-000-0000000-0000

CA Building Energy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01E Calculation Date/Time: 2023-11-20T07:30:47-08:00 Project Name: Mono County ADU (Plan 3) (Page 4 of 12) Calculation Description: Title 24 Analysis Input File Name: Mono County ADU (Plan 3)(raised foundation) 2022.ribd22x ard Design TDV Energy Proposed Design Source Proposed Design TDV Energy Compliance Compliance EDR2) (kTDV/ft² -yr) Energy (EDR1) (kBtu/ft² -yr) (EDR2) (kTDV/ft² -yr) Margin (EDR1) Margin (EDR2) 112.26 74.17 38.09 6.79 9.82 8.42 3.73 0.44 4.69 0.23 9.63 0.81 0.81 8.82 0.08 50.73 25.7 25.03 2.09 1.96 0 0 181.04 112.71 12.22 68.33 10 DTC C 1 C 1 -112.26 7.11 78.14 9.5 34.12

ENERGY USE SUMMARY		
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft ² -yr)	Standard (EDR
Space Heating	16.61	
Space Cooling	0.67	
IAQ Ventilation	0.89	
Water Heating	4.05	
Self Utilization/Flexibility Credit	٨	
South Facing Efficiency Compliance Total	22.22	1
Space Heating	16. <mark>61</mark>	
Space Cooling	0.67	N F
IAQ Ventilation	0.89	
Water Heating	4.05	
Self Utilization/Flexibility Credit		
West Facing Efficiency Compliance Total	22.22	

Registration Number: 223-P016617248A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF Project Name: N Calculation Des	Mono (County	. ,	PERFORMAN		ANCE ME						7:30:47-08:00 Plan 3)(raised fo	oundation) 202	CF1R-PRF-01E (Page 7 of 12) 2.ribd22x
ZONE INFORMAT	ION													
01			02		03		04	ı		05		06		07
Zone Nam	ne		Zone Type	HVAC	System Name	e z	one Floor	Area (ft	2)	Avg. Ceiling	Height	Water Heating	System 1	Status
Living Are	a		Conditioned	Ην	AC System1		69	2		8		DHW Sys	1	New
OPAQUE SURFAC	ES													
01			02	0	3		04		05		06		07	08
Name			Zone	Constr	uction	Az	imuth	Or	ientatior	י Gr	oss Area (ft ²)		and Door a (ft2)	Tilt (deg)
Front Wall		I	iving Area	R-21	Wall		0		Front		288		36	90
Left Wall		I	iving Area	R-21	Wall		90		Left		288	72	2.02	90
Rear Wall		I	iving Area	R-21	Wall		180		Back		160		6	90
Right Wall		I	iving Area	R-21	Wall		270		Right		288		9	90
Roof		I	iving Area	R-38 Ro	of Attic	1	n/a		n/a		692	r	n/a	n/a
Raised Floo	r	I	-iving Area	R-19 Floor	Crawlspace		n/a		n/a		692	r	n/a	n/a
ATTIC			-		HE	RS	P	R	0 V	TD	ER			
01			02	0	3		04 05		06			07	08	
Name		C	onstruction	Ту	pe	Roof R	se (x in 12) Roof	Reflecta	nce Ro	of Emittance	Radian	t Barrier	Cool Roof
Attic Living Ar	ea	Attic	RoofLiving Area	Venti	lated		8		0.1		0.85		No	No
ENESTRATION /	GLAZIN	IG												
01	r –)2	03	04	05	06	07	08	09	10	11	12	13	14
Name	Ту	pe	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-facto Source	SHGC	SHGC Source	e Exterior Shading
А	Wir	dow	Front Wall	Front	0			1	8	0.3	NFRC	0.23	NFRC	Bug Screen
A 2	Wir	dow	Front Wall	Front	0			1	8	0.3	NFRC	0.23	NFRC	Bug Screen
В	Wir	dow	Left Wall	Left	90			1	16	0.3	NFRC	0.23	NFRC	Bug Screen
Registration Nun CA Building Ener			016617248A-000-000 andards - 2022 Re		liance		Registrat Report V		/Time: 022.0.00	2023-11-27 0	08:34:03	HERS Pro		RTS inc. 11-20 07:32:20

CF1R-PRF-01E Calculation Date/Time: 2023-11-20T07:30:47-08:00 (Page 1 of 12) Input File Name: Mono County ADU (Plan 3)(raised foundation) 2022.ribd22x ty ADU (Plan 3) ysis Standards Version 2022 05 Software Version EnergyPro 9.2 07 09 Front Orientation (deg/ Cardinal) All orientations Number of Dwelling Units 1 11 Number of Bedrooms ucted 13 Number of Stories 1 15 Fenestration Average U-factor 0.3 17

Glazing Percentage (%) 14.89%

 21
 ADU Conditioned Floor Area
 n/a

 23
 No Dwelling Unit:
 No
 HERS PROVIDE e field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider. 03 This building incorporates one or more Special Features shown below

> Registration Date/Time: 2023-11-27 08:34:03 Report Version: 2022.0.000 Schema Version: rev 20220901

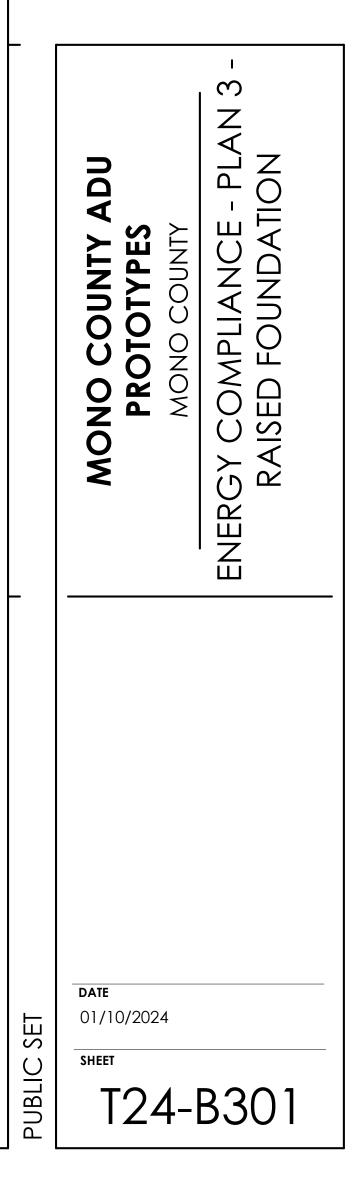
19

HERS Provider: CalCERTS inc. Report Generated: 2023-11-20 07:32:20

8.42 0.26 2.72 0.41 5.7 0.81 9.63 0.81 8.82 0.08 50.73 2.07 25.55 1.98 25.18 0 0 66.18 114.86 12.06 181.04 10.16

Registration Date/Time: 2023-11-27 08:34:03 HERS Provider: CalCERTS inc. Report Version: 2022.0.000 Report Generated: 2023-11-20 07:32:20 Schema Version: rev 20220901







(04/2022) Building Envelope:	
1	Air Leaka less when
	Labeling. Fenestration products and exterior doors must have a label meeting the requirements of § 10-111(a). Field fabricated exterior doors and fenestration products must use U-factors and solar heat gain coefficient (SHGC) values from
	Tables 110.6-A, 110.6-B, or JA4.5 for exterior doors. They must be caulked and/or weather-stripped.
	All Leanage. All purits, pertendations, and outer operimitys in the outpung enverope triat are potential sources of all reanage must be called, gasketed, or weather stripped.
	Insulation Certification by Manufacturers. Insulation must be certified by the Department of Consumer Affairs, Bureau of Household Goods and Services (BHGS).
	Insulation Requirements for Heated Slab Floors. Heated slab floors must be insulated per the requirements of § 110.8(g).
	Roofing Products Solar Reflectance and Thermal Emittance. The thermal emittance and aged solar reflectance values of the roofing material must meet the requirements of § 110.8(i) and be labeled per §10-113 when the installation of a cool roof is specified on the CF1R.
	Radiant Barrier. When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Consumer Affairs.
1	Roof Deck, Ceiling and Rafter Roof Insulation. Roof decks in newly constructed attics in climate zones 4 and 8-16 area-weighted
	average U-factor mot exceeding U-U. for, Ceiling and raiter roots minimum K-22 insulation in wood-traine ceiling, for 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 which is sealed to limit infiltration and exfiltration.
	as specified in § 110.7, including but not limited to placing insulation either above or below the roor deck or on top of a drywall ceiling. Loose-fill Insulation. I cose fill insulation must meet the manufacturer's required density for the labeled R-value.
	naming or nave a ortador or 0.071 or ress. Opaque normaneu assembles muschave an overal assembly ortador not exceeding 0.102 Masonry walls must meet Tables 150.1-A or B. *
I	Raised-floor Insulation. Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor. *
	Slab Edge Insulation. Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alone without facings, no greater than 0.3 percent; have a water vapor permeance no greater than 2.0 perm per inch; be protected from physical damage and UV light deterioration; and, when installed as part of a heated slab floor, meet the requirements of § 110.8(g).
	Vapor Retarder. In climate zones 1 through 16, the earth floor of unvented crawl space must be covered with a Class I or Class II vapor retarder. This requirement also applies to controlled ventilation crawl space for buildings complying with the exception to \$150.0(d).
	Vapor Retarder. In climate zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all insulation in all exterior walls. vented attics. and unvented attics with air-bermeable insulation.
	Fenestration Products. Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must have a maximum U-factor of 0.45; or area-weighted average U-factor of all fenestration must not exceed 0.45.
2	Fireplaces, Decorative Gas Appliances, and Gas Log:
	Pilot Light. Continuously burning pilot lights are not allowed for indoor and outdoor fireplaces.
	Closable Doors. Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebox.
	Combustion Intake. Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inches in area and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device.
	Flue Damper. Masonry or factory-built fireplaces must have a flue damper with a readily accessible control. [*]
5	Space Conditioning, Water Heating, and Plumbing System:
§ 110.0-§ 110.3:	Certification. Heating, ventilation, and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other regulated appliances must be certified by the manufacturer to the California Energy Commission.
	HVAC Efficiency. Equipment must meet the applicable efficiency requirements in Table 110.2-A through Table 110.2-N.*
	Controls for hear turines with supplementary clearing resistance heaters. Thest pumps with supplementary electric resistance heaters must have controls that prevent supplementary heater operation when the heating load can be met by the heat pump alone; and in which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating, and
1	Thermostats. All heating or cooling systems not controlled by a central energy management control system (EMCS) must have a
	setback thermostat. [*] Insulation Infired service water heater storage tanks and solar water-heating hacking tanks must have adequate insulation or tank
	nisutation. Onlined service water reater storage tarity and solar water-reating backup taritys must have adequate misutation, or tarity surface heat loss rating.
	Isolation Valves. Instantaneous water heaters with an input rating greater than 6.8 kBtu per hour (2 kW) must have isolation valves with

Name		Low	tified -Static System	Airflow Habitab Rooms	le	Ductless Unit in Conditione Space	I Wall Mount I	Air Filter Sizing & Pressure Drop Rating	Ducts in I Airtlow per I					us	ndoor Fan r Running Continuous
Heat Pump Sys	tem 1	Not r	equired	Require	ed	Required	Required	Not required	Not	t required	Not req	uired	ed Not required		Not require
INDOOR AIR QUALITY	(IAQ) FANS														
01	02		176	03		04	05	06		07		08			09
Dwelling Unit	Airflow (C	CFM)		Efficacy (CFM)	IA	Q Fan Type	Includes Heat/Energy Recovery?	IAQ Recover Effectivenes SRE/ASRE	s -	I Includes Fault		HERS Verification			Status
SFam IAQVentRpt 1-1	40		0.	575	C	Balanced	Yes	80 / 80	r	No	•		Yes		
		1		1	H	ERS	S PRO			E R					

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Mono County ADU (Plan 3) Calculation Description: Title 24 Analysis

01

Registration Number: 223-P016617248A-000-000-0000000-0000

CA Building Energy Efficiency Standards - 2022 Residential Compliance

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Input File Name: Mono County ADU (Plan 3)(raised foundation) 2022.ribd22x

Calculation Date/Time: 2023-11-20T07:30:47-08:00 VARIABLE CAPACITY HEAT PUMP COMPLIANCE OPTION - HERS VERIFICATION

02 03 04 05 06 07 08 09 10

Registration Date/Time: 2023-11-27 08:34:03

Report Version: 2022.0.000

Schema Version: rev 20220901

CF1R-PRF-01E

HERS Provider: CalCERTS inc.

Report Generated: 2023-11-20 07:32:20

	Crawlspace				,		Siding/sheathing/decking Cavity / Frame: R-19 / 2x10		
Registration Number:	223-P016617248A-000-000	-000000-0000	Registration Dat	e/Time: 202	3-11-27 08:34:03	HER	S Provider: CalCERTS inc.		
CA Building Energy Efficier	ncy Standards - 2022 Re	sidential Compliance	Report Version: Schema Version		Rep	Report Generated: 2023-11-20 07:32:20			

01	02	03	04	05	06	07	08	09	10	11	1	12	13	14
Name	Туре	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-facto Source	I SF	IGC	SHGC Source	Exterior Shading
B 2	Window	Left Wall	Left	90			1	16	0.3	NFRC	0.	.23	NFRC	Bug Screen
Door C	Window	Left Wall	Left	90			1	40.02	0.3	NFRC	0.	.23	NFRC	Bug Screen
B.2	Window	Rear Wall	Back	180			1	6	0.3	NFRC	0.	.23	NFRC	Bug Screen
B.1	Window	Right Wall	Right	270			1	9	0.3	NFRC	0.	.23	NFRC	Bug Screen
OPAQUE DOORS		-												
	01			02					03				04	
	Name		-	Side of Build	ding				Area (ft ²)				U-factor	
	A1		-	Front Wa			D	IC	20	30			0.2	
		10									-			
OPAQUE SURFACE	CONSTRUCT	IONS	100		0.0		-	2.1						
01		02	03	HE	K D	04	K	05		06	07		08	
Construction N	lame	Surface Type	Constructio	n Type	Fra	aming		Total Cavi R-value	ty Con	r / Exterior tinuous value	U-factor		Assembly L	ayers
R-21 Wall		Exterior Walls	Wood Frame	ed Wall	2x6 @ 1	16 in. O. C	<u>.</u>	R-21	None	e / None	0.069		Inside Finish: Gyp Cavity / Frame: Exterior Finish: 3	R-21 / 2x6
Attic RoofLiving	Area	Attic Roofs	Wood Frai Ceiling		2x4 @ 3	24 in. O. (R-0	No	ne / 0	0.644	Ro	oofing: Light Roof (/ Roof Deck: Siding/sheathin Cavity / Frame: no	Wood g/decking
R-19 Floor Crawl	lspace	Floors Over Crawlspace	Wood Frame	d Floor	2x10 @	16 in. O.	c.	R-19	None	e / None	0.046		Floor Surface: Floor Deck: Siding/sheathin Cavity / Frame: F	Wood g/decking
												_(

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Calculation Date/Time: 2023-11-20T07:30:47-08:00 Project Name: Mono County ADU (Plan 3) Input File Name: Mono County ADU (Plan 3)(raised foundation) 2022.ribd22x Calculation Description: Title 24 Analysis FENESTRATION / GLAZING 01 02 03 04 05 06 07 08 09 10 11 12 13 14

CF1R-PRF-01E (Page 8 of 12)

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CERTIFICATE OF COMPL	IANCE - RESIDENTIAL	PERFORMANCE COM	IPLIANCE METHOD
Project Name: Mono Co	unty ADU (Plan 3)		
Calculation Description:	Title 24 Analysis		
OPAQUE SURFACE CONSTR	RUCTIONS		
01	02	03	04

OPAQUE SURFACE CON	STRUCTIONS												
01	0	2	03			04		05		06	07		08
Construction Name	Surface	е Туре	Constructio	on Type	F	raming		Total Cavi R-value	ty	erior / Exterior Continuous R-value	U-factor	Asser	nbly Layers
R-38 Roof Attic	Ceilings att		Wood Fra Ceilin		2x4 @	24 in. O. C		R-38	٦	None / None	0.025	Cavity / Fr	loists: R-28.9 insul. ame: R-9.1 / 2x4 h: Gypsum Board
BUILDING ENVELOPE -	HERS VERIFICAT	ION											
01			02			03	3			04			05
Quality Insulation Inst	tallation (QII)	High R-v	alue Spray Foar	n Insulatio	n Build	ling Envelo	pe Air L	eakage		CFM50			CFM50
Not Require	ed		Not Required	1		N/	/Α			n/a			n/a
WATER HEATING SYSTE	MS		-	-	Le	-	-	-		P			
01	02		03	a)4	0	5	5	06	0	7	08	09
Name	System Type	Dist	tribution Type	Water He	ater Name	Number	of Units	and the set	r Heatin ystem	g Com Distrik		HERS Verification	Water Heater Name (#)
DHW Sys 1	Domestic Hot Water (DHW)		Standard	DHW F	leater 1	1	L		n/a	No	ne	n/a	DHW Heater 1 (1)
WATER HEATERS - NEE/													
	1												
01	02		03		04			05		06		07	08
Name	# of Uni	its	Tank Vol. (gal)	NEEA Heat Bran			A Heat Pum Model	p	Tank Location	Du	ct Inlet Air Source	Duct Outlet Air Source
DHW Heater 1	1		50		Rhee	m		Г10Н22U0 (! gal, JA13)	50	TankZone		Living Area	Living Area

Registration Number: 223-P016617248A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: 2023-11-27 08:34:03 Report Version: 2022.0.000

Schema Version: rev 20220901

gal, JA13)

Calculation Date/Time: 2023-11-20T07:30:47-08:00

Input File Name: Mono County ADU (Plan 3)(raised foundation) 2022.ribd22x

HERS Provider: CalCERTS inc. Report Generated: 2023-11-20 07:32:20

CF1R-PRF-01E

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Mono County ADU (Plan 3) Calculation Description: Title 24 Analysis

VATER HEATING - HE	RS VE	RIFICATION						
01		02			03			
Name		Pipe Insu	ulation	Pa	rallel	Piping		С
DHW Sys 1 - 1/1		Not Req	Juired	N	ot Rec	luired		
SPACE CONDITIONIN	G SYST	rems						_
01		02	03			04		
Name	S	ystem Type	Heating Uni	t Name	Heat	ing Equipn Count	nent	
HVAC System1		leat pump ating cooling	Heat Pump 1	System		1		
HVAC - HEAT PUMPS		-		-	-		-	
01		02	03	04		05	C	6
Name	Sy	stem Type	Number of Units	Heat Efficie Typ	ncy	Heatin HSPF/HS PF2/COP	ng Caj	
Heat Pump System 1	VC	HP-ductless	1	HSP	۶F	8.2	12	00
HVAC HEAT PUMPS -	HERS	VERIFICATION						_
01		02	03			04		Γ
Name	Ver	ified Airflow	Airflow Ta	arget	Veri	fied EER/E	ER2	
Heat Pump System 1-hers-htpump	N	ot Required	0		N	ot Require	d	

Registration Number: 223-P016617248A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Mono County ADU (Plan 3)	CF1R-PRF-01E Calculation Date/Time: 2023-11-20T07:30:47-08:00 (Page 12 of 12)
Calculation Description: Title 24 Analysis	Input File Name: Mono County ADU (Plan 3)(raised foundation) 2022.ribd22x
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name:	Documentation Author Signature:
Timothy Carstairs	Timothy Carstairs
Company:	Signature Date:
Carstairs Energy Inc.	2023-11-20 08:18:47
Address:	CEA/ HERS Certification Identification (If applicable):
2238 Bayview Heights Drive, Suite E	r160610042
City/State/Zip:	Phone:
Los Osos, CA 93402	805-904-9048
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
	ompliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. a are consistent with the information provided on other applicable compliance documents, worksheets,
Responsible Designer Name: Randy Russom	Responsible Designer Signature:
Company: RRM Design Group	Date Signed: 2023-11-27 08:34:03
Address: 3765 S. Higuera Street, Suite 102	License: na
^{City/State/Zip:} San Luis Obispo, CA 94301	Phone: 805-543-1794

Digitally signed by CalCERTS. This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.



אבטוחב	JEN I JAL MEASURES	SURES	JUNINIART	- 1			
Project Na. Mono Cu	Project Name Mono County ADU (Plan 3)	3)	Building Type	☑ Single Family □ □ Multi Family □	 ✓ □ Addition Al □ Existing+ / 	□ Addition Alone □ Existing+ Addition/Alteration	Date 11/20/2023
Project Address Mono Cou	oject Address Mono County		California Ene CA Clima	California Energy Climate Zone CA Climate Zone 16	Total Cond. Floor Area 692	Area Addition	# of Units
INSULATION Construction	INSULATION Construction Type		Cavity	Area (ff ²) S _F	Special Features	Ires	Status
Wall	Wood Framed		R 21	901			New
Door	Opaque Door		R-5	20			New
Roof	Wood Framed Attic		R 38	692			New
Floor	Wood Framed w/Crawl Space	vl Space	R 19	692			New
FENESTRA	FENESTRATION Orientation Area(ft ²)	Total Area:	103 Glazing Percentage:		.9% New/Altere	14.9 % New/Altered Average U-Factor:	0.30 Status
Front (N)		0.300				014440	New
Left (E)	72.0	0.300		none	N/A		New
Rear (S)	6.0	0.300	0.23 none	none	N/A		New
Right (W)	9.0	0.300	0.23 none	none	N/A		New
HVAC S	HVAC SYSTEMS Otv. Heating	Min.	Cooling	Min	U U U U U U U U U U U U U U U U U U U	Thermostat	Status
	Electric Heat Pump	8.20 HSPF	Split Heat Pump			Setback	New
HVAC DIS Location	STRIBUTIO	N Heating	Cooling	Duct Location	tion	Duct R-Value	Status
HVAC System		Ductless / with Fan	Ductless	n/a		n/a	New
WATE Qty. 7	WATER HEATING Qty. Type	Gallons	ons Min. Eff	Eff Distribution	oution		Status
	Heat Pump	50	3.20	Standard			New
Enoral/Dro 0	2 hv Energy.Soft	I Iser Mumher: 6249			ID: 22-051011	1011	Daria 15 of 21

04

Compact Distribution

Not Required

05

Cooling Unit Name

Heat Pump System

1

05 06 07

12000

Cap 47 | Cap 17

Registration Number: 223-P016617248A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: 2023-11-27 08:34:03 Report Version: 2022.0.000

Schema Version: rev 20220901

HERS Provider: CalCERTS inc. Report Generated: 2023-11-20 07:32:20

S 100.00	dver.
§ 150.0(h)3B:	Liquid Line Drier. Air conditioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the manufacturer's instructions.
§ 150.0(j)1:	Water Piping, Solar Water-heating System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must be insulated as specified in § 609.11 of the California Plumbing Code. *
§ 150.0(j)2:	Insulation Protection. Piping insulation must be protected from damage, including that due to sunlight, moisture, equipment' maintenance, and wind as required by §120.3(b). Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes). Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space must include, or be protected by, a Class I or Class II vapor retarder. Pipe insulation buried below grade must be installed in a waterproof and non-crushable casing or sleeve.
§ 150.0(n)1:	Gas or Propane Water Heating Systems . Systems using gas or propane water heaters to serve individual dwelling units must designate a space at least 2.5' 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)3:	Solar Water-heating Systems. Solar water-heating systems and collectors must be certified and rated by the Solar Rating and Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing (IAPMO R&T), or by a listing agency that is approved by the executive director.
Ducts and Fans:	Ducts. Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC). If a
§ 110.8(d)3: § 150.0(m)1:	Contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement. CMC Compliance. All air-distribution system ducts and plenums must meet CMC §§ 601.0-605.0 and ANSI/SMACNA-006-2006 HVAC CMC Compliance. All air-distribution system ducts and plenums must meet CMC §§ 601.0-605.0 and ANSI/SMACNA-006-2006 HVAC Duct Construction Standards Metal and Flexible 3rd Edition. Portions of supply-air and return-air ducts and plenums must be insulated to R-6.0 or higher; ducts located entirely in conditioned space as confirmed through field verification and diagnostic testing (RA3.1.4.3.8) do not require insulation. Connections of metal ducts and inner core of flexible ducts must be mechanically fastened. Openings must be sealed with mastic, tape, or other duct-closure system that meets the applicable UL requirements, or aerosol sealant that meets UL 723. The combination of mastic and either mesh or tape must be used to seal openings greater than 1/4", 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 installed in these spaces must not be compressed. [*]
§ 150.0(m)2:	Factory-Fabricated Duct Systems. Factory-fabricated duct systems must comply with applicable requirements for duct construction, connections, and closures; joints and seams of duct systems and their components must not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.
§ 150.0(m)3:	Field-Fabricated Duct Systems. Field-fabricated duct systems must comply with applicable requirements for: pressure-sensitive tapes, mastics, sealants, and other requirements specified for duct construction.
§ 150.0(m)7:	Backdraft Damper. Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic dampers. Gravity Ventilation Dampers. Gravity ventilation systems serving conditioned snace must have either automatic or readily accessible.
§ 150.0(m)8: § 150.0(m)9:	manually operated dampers in all openings to the outside, except combustion infet and outlet air openings and elevator shaft vents. Protection of Insulation. Insulation must be protected from damage due tosunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather must be suitable for outdoor service (e.g., protected by aluminum, sheet metal, painted carvas, or plastic cover). Cellular foam insulation must be protected as above or painted with a water retardant and solar radiation resistant coating.
§ 150.0(m)10:	Porous Inner Core Flex Duct. Porous inner cores of flex ducts must have a non-porous layer or air barrier between the inner core and outer vapor barrier.
§ 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 to and prevents air from bypassing the filter. *
<i>(6/22</i>	

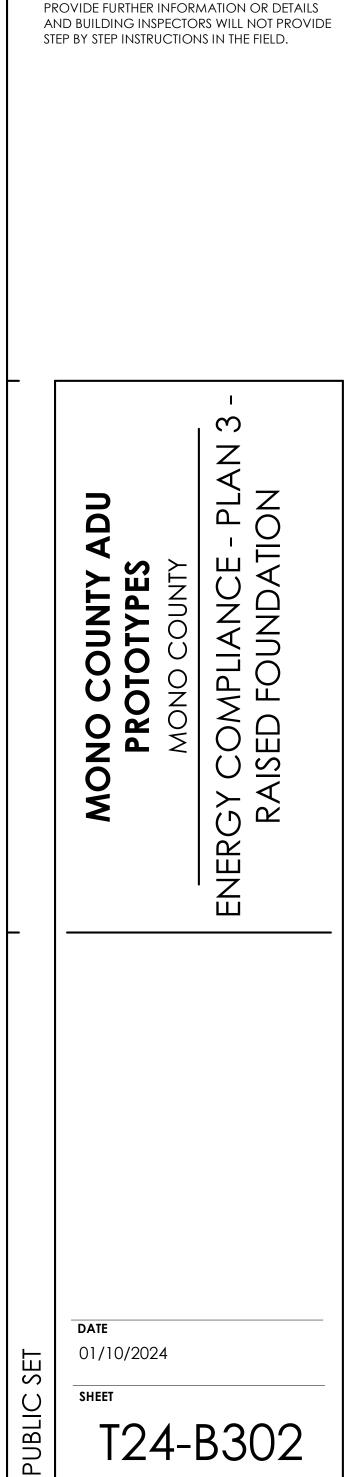


CEN . 50 pi probe 5 watts de an a c pressur acy ≤ 0. must pro antly installed static ndling unit fan effica i velocity systems m s per CFM. Field ve Fan Effica√. e, or a permanent y, and an air-hand Small duct high v acy ≤ 0.62 watts ate and F are probe capacity I others. fan effic. FM for all fling unit f Space Co a hole for be ≥ 350 handlers cooling ca Referenco

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

	04			-		05	-	<u> </u>					Т		07		1		00					<u> </u>		-		
rifie	04 d EEF	R/EEF	2		Ve	05 rified /SEE		V	/erifi	ed R)6 lefrig arge	erant	:		07 Verified PF/HSPF	2	V	erifie Ca	08 d He ap 47		g	Ve	rified)9 Heat p 17	ing			
Not	Requ	ired		1	lot R	equi	red			Ye	es				No				Yes				Y	'es				
e				Re	port	Vers	Date, ion: 2 sion: 1	022.	.0.00	00		1-27 0	8:34	:03			RS Pro					TS inc 1-20		32:20				
Status	New	New	New	New											Status	New				Status	New			t.t.	Status	New		
Exterior Shades	N/A	N/A	N/A	N/A											Thermostat	Setback			Duct	R-Value	n/a							
Sidefins E	none	none	none	none											Min. Eff	14.0 SEER				Duct Location					DISTRIBUTION	Standard		
erhang	е	e	е	e											ס	t Pump				g Duc	n/a			3		0		

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Calcu	lation	Date,	/Time: 20	23-11-20T	07:30:47-08	:00		(Page 10 of 12)
Inpu	t File Na	me:	Mono Co	unty ADU	(Plan 3)(raise	ed foundation	n) 2022	2.ribd22x
04			05			06		07
ct Distrib	ution	Co	mpact Dist Type		Recircula	tion Control	Show	ver Drain Water Heat Recovery
t Required	d		None	2	Not R	equired		Not Required
05			06		07	08		09
ng Unit Na	ame Co		g Equipmen Count	it Fa	n Name	Distribution N	Name	Required Thermostat Type
Pump Syst 1	tem		1		n/a	n/a	Setback	
	-	0		-				
07	08	3	09	10	11	12		13
00	2	1.1	Cooling		Zawallu	C		
Cap 17	Coolin Efficien Type	ncy	SEER/SE ER2	EER/EER 2/CEER	Zonally Controlled	Compressor Type	н	IERS Verification
8000	EERSE	ER	14	11.7	Not Zonal	Single Speed		eat Pump System 1-hers-htpump





COUNTY AS PART OF THE PRE-APPROVED ADU

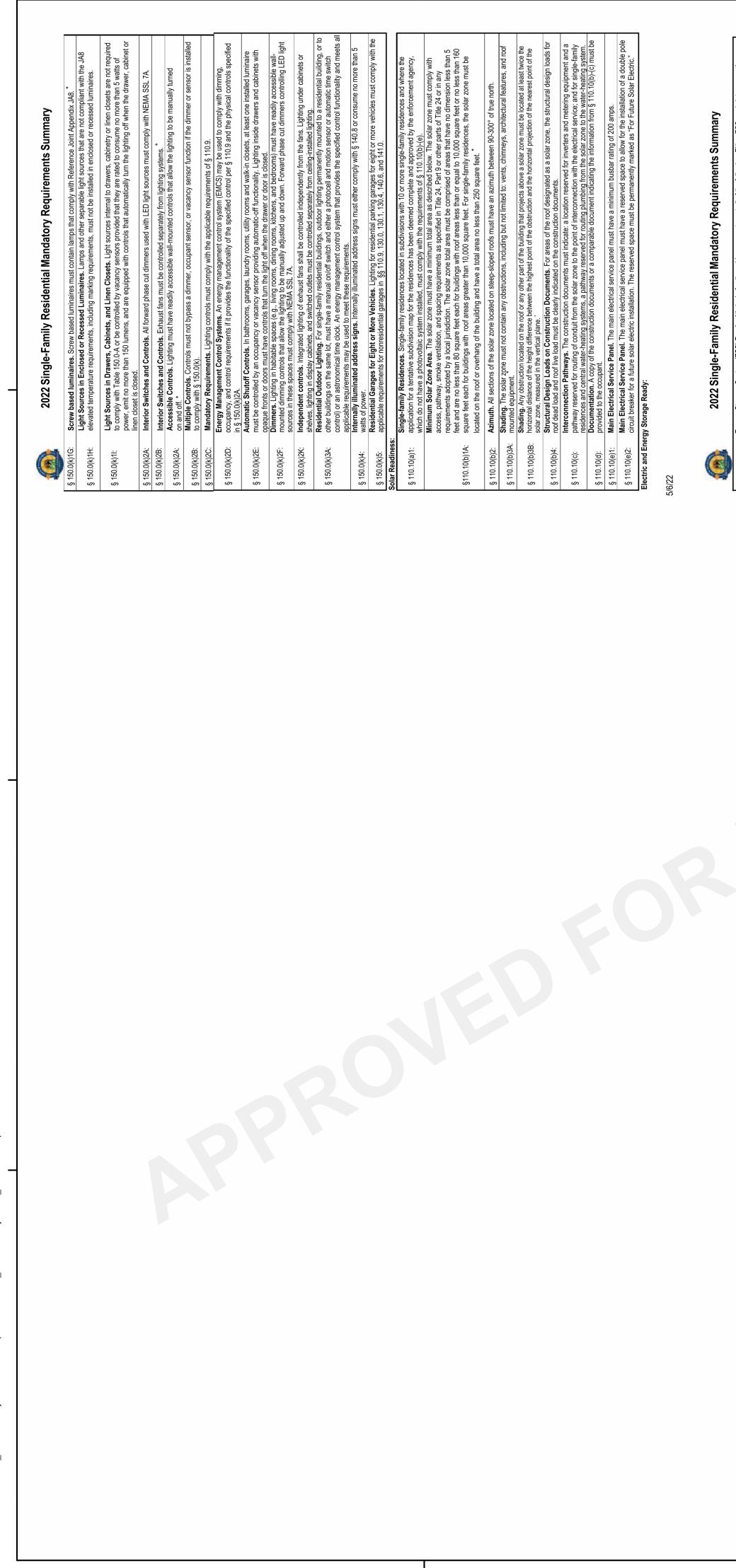
PROGRAM AND ARE PUBLIC DOMAIN. THERE CANNOT BE A CHARGE TO PROVIDE THESE PLANS. NO ALTERATIONS TO THESE PLANS ARE ALLOWED. ALL ALTERATIONS MUST BE DONE UNDER A SEPARATE PERMIT ONCE THE BUILDING PERMIT FOR THE ADU HAS BEEN

ISSUED AND FINAL INSPECTION COMPLETED. IF

KNOWLEDGE AND EXPERIENCE TO CONTRUCT THESE PLANS WITHOUT FURTHER DETAILS, IT IS RECOMMENDED YOU HIRE A CONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT

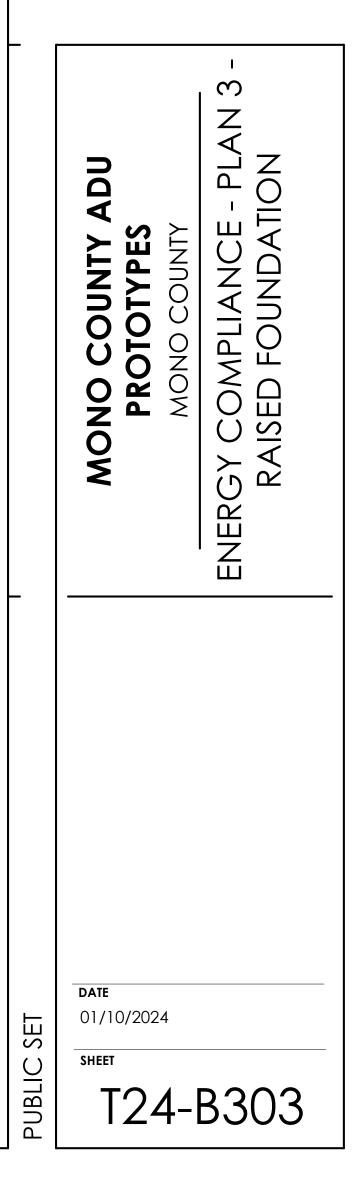
YOU DO NOT HAVE THE CONSTRUCTION

25/2024 4:11:04 PM utodesk Docs://2340-04_Mono County ADUs - Code Updates/2340-01_Mono County ADUs_2022 Code Update.rvt



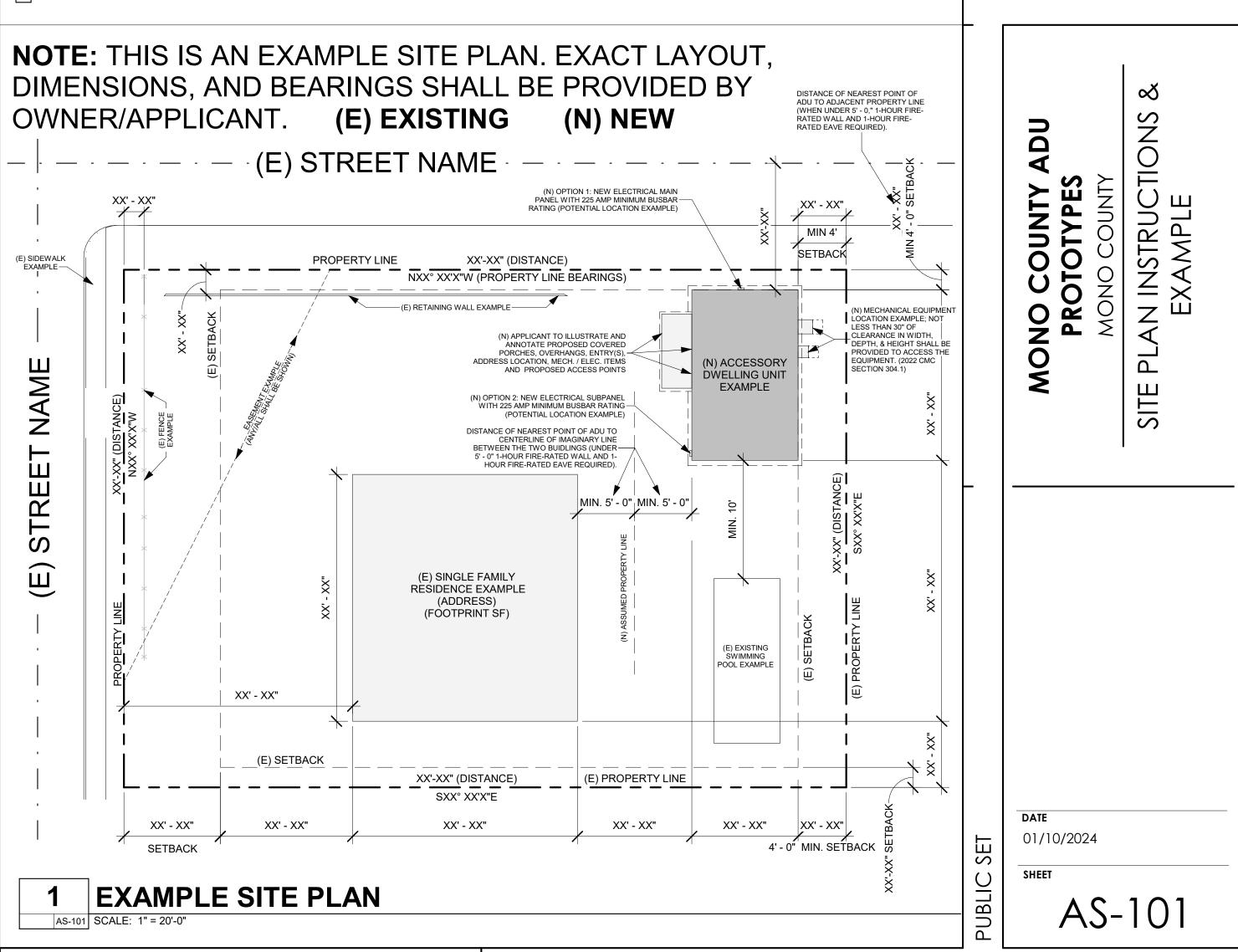
3.000//iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	5/6/22 ROM LOAD SUMMARY	Zone Name ROOM COOLING PEAK COIL COOLING PEAK COIL HTG. PEAK Zone Name Room Name Mult. CFM Sensible Latent CFM Sensible Sensible 11,848 Living Area 1st Floor ADU 1 340 5,787 -70 340 5,787 -70 376 11,848					* Total includes ventilation load for zonal systems.	



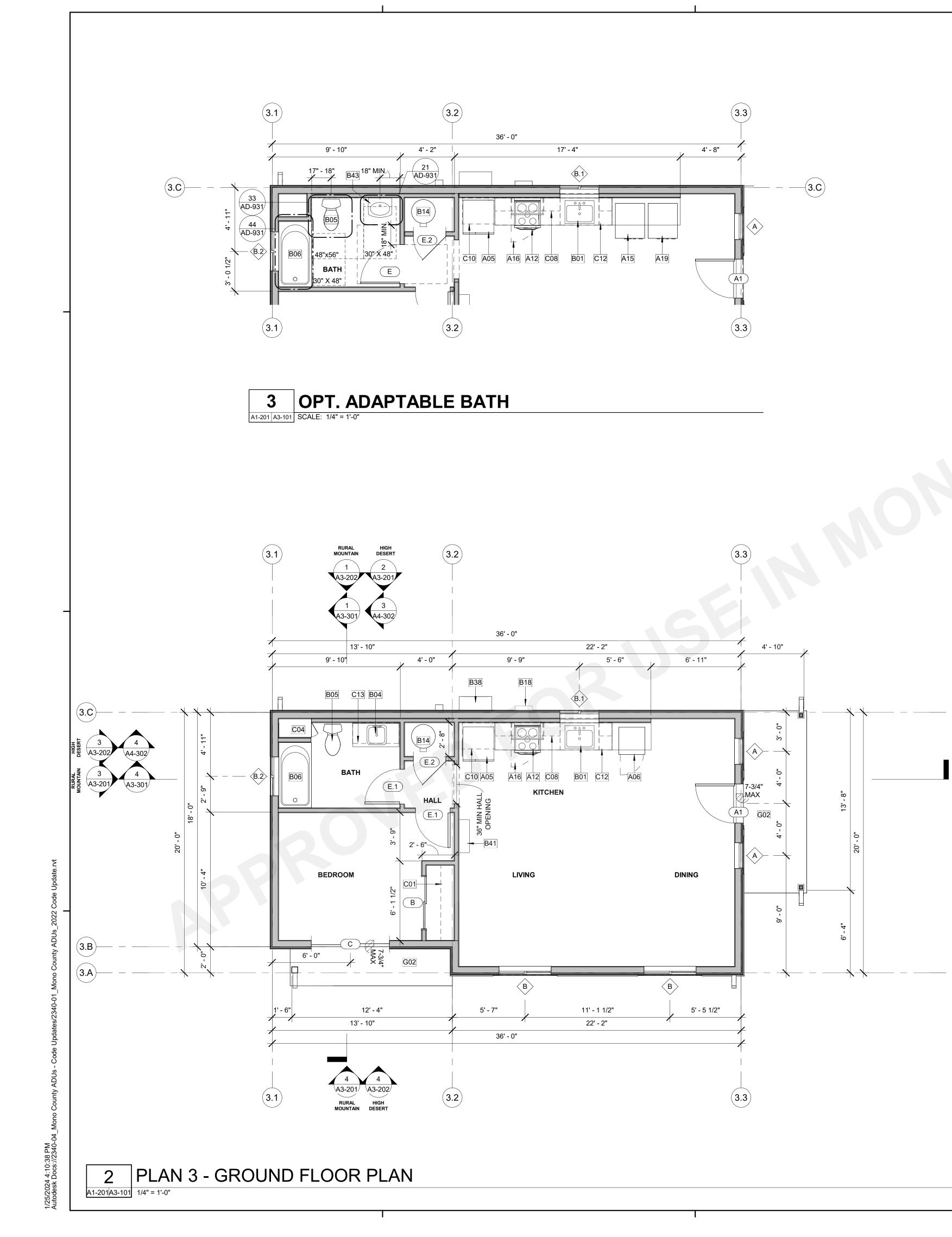




	1
SITE PLAN LEGEND	SITE PLAN GENERAL NOTES
PROPERTY LINE X (E) FENCE SETBACK (E) WALLS / RETAINING WALLS EASTMENT	 REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL OPEN DIRECTLY INTO A PUBLIC WAY PER 2022 CRC, SECTION 310.1. NOT LESS THAN 30" OF CLEARANCE IN WIDTH, DEPTH, & HEIGHT SHALL BE PROVIDED TO ACCESS EXTERIOR MECHANICAL EQUIPMENT. SHOW LOCATION ON SITE PLAN & LABEL (2022 CMC SECTION 304.1 & 2022 CPC 504.3).
SITE PLAN CHECKLIST	
(N) ADU IS 5' - 0" OR LESS TO ANY PROPERTY LINE AND/OR ADU IS 10' - 0" OR LESS FRO	MANY ADJACENT BUILDING OR STRUCTURE:
NO YES; IF YES, FIRE RATED WALL & ROOF REQUIRED PER 2022 C	BC, CHAPTER 2. SEE DETAILS: 52/A-901 & 32/A-903
LECTRICAL PANEL: OPTION 1 - NEW ELECTRICAL MAIN PANEL WITH 225 AMP	MINIMUM BUSBAR RATING
	O THE ELECTRICAL MAIN PANEL OF THE PRIMARY HOME WITH A 225 AMP MINIMUM ERMIT SHALL BE PULLED FOR THE ELECTRICAL MAIN PANEL OF THE PRIMARY HOME, ED.
 FOOTPRINT OF ALL EXISTING AND PROPOSED BUILDINGS PLOT THE PROPOSED ADU BUILDING FOOTPRINT ALONG WITH ANY OTHER EXISTING BUILDINGS ONSITE. THIS INCLUDES ALL STRUCUTRES / PORCHES / GAZEBOS. IF AN OPTIONAL COVERED PATIO IS SELECTED, PLEASE PLOT THAT AS WELL. AREA OF EXISTING BUILDING INDICATE THE SQUARE FOOTAGE OF THE EXISTING HOUSE. FOOTPRINT OF PROPOSED ADU REFER TO LEGEND FOR FOOTPRINT AT 10'=1" SCALE DRAWING SCALE SITE PLAN SHOULD BE DRAWN TO A MEASURABLE SCALE. PROPERTY LINES SHOW OUTLINE OF PROPERTY USING DASHED LINE IN LEGEND. INDICATE THE 	 DIMENSION BUILDING SEPARATION DIMENSION THE DISTANCE BETWEEN THE PROPOSED ADU AND ANY EXISTING STRUCTURES LOT COVERAGE CALCULATION TOTAL FOOTPRINT AREA FOR STRUCTURES ON SITE / LOT AREA SWIMMING POOLS ALL EXISTING SWIMMING POOLS SHALL BE SHOWN ON THE SITE PLAN AND SHALL HAVE 10' MINIMUM SETBACK TO THE NEW ADU STRUCTURE. PORCHES THERE SHALL BE NO MORE THAN 30 INCHES MEASURED VERITCALLY TO THE FLOOR OR GRADE BELOW (INCLUDING FLOORS, STAIRS, RAMPS, AND LANDINGS) ANYWHERE MEASURED LESS THAN 36 INCHES HORIZONTALLY TO THE EDGE OF
 BEARING AND DISTANCE OF THE PROPERTY LINE. LABEL YARDS LABEL FRONT, REAR, SIDE YARDS, AS WELL AS DRIVEWAYS, PATHWAYS AND ANY OTHER HARDSCAPE. SETBACKS 	THE PORCH/SLAB/SURFACE OF THE RAIL. INSECT SCREENING SHALL NOT BE CONSIDERED AS A GUARD. LOCATION OF EXISTING UTILITIES UTILITIES, POLES, SEWER, DRAINS, ELECTRICAL, GAS METERS AND LINES AND ANY PHOTOVOLTATIC.
 DIMENSION THE DISTANCE BETWEEN BUILDINGS AND PROPOERTY LINES, AS WELL AS BUILIDNGS TO OTHER STRUCTURES. SETBACKS TO SIDE AND REAR PROPERTY SIDE SHALL BE A MINIMUM OF (4' - 0"). EASEMENTS REFER TO LEGEND. MUST INCLUDE ALL APPLICABLE EASEMENTS. PROPOSED STRUCTURE SHALL COMPLY WITH EASEMENT REQUIREMENTS. 	LOCATION OF PROPOSED UTILITIES PROPOSED UTILITIES SHALL CONFORM TO REQUIREMENTS OF CONTRA COSTA COUNTY SANITARY DISTRICT. SANITARY SEWER FROM ADU TO EXISTING SEWER. SEWER LINE TO THE PROPOSED ADU SHALL BE CONNECTED TO THE MAIN LATERAL AT THE PROPERTY LINE OR BEHIND THE SIDEWALK. LATERAL POINT OF CONNECTION INCLUDING REQUIRED CLEANOUTS, WATER LINE TO ADU, ELECTRIC TO ADU INCLUDING ANY NEW METERS OR SUBPANELS.
IOCATION OF RAIN WATER LEADERS THE ROOF DRAINS SHOULD DRAIN AWAY FROM THE PROPERTY LINES AND INTO THE LANDSCAPE AREA.	
LABEL STREETS & SIDEWALKS	







KEYNOTES

- A05 REFRIGERATOR LOCATION PER OWNER. PROVIDE ROUGH PLUMBING FOR ICE MAKER (RECESS IN WALL). A06 STACKED WASHER/DRYER MACHINE LOCATION. PROVIDE WASTE AND WATER IN RECESSED WALL BOX. PROVIDE DRYER VENT. VENT TO OUTSIDE
- A12 24" WIDE FREE STANDING ELECTRIC RANGE OVEN. PROVIDE VENT HOOD. VENT TO EXTERIOR, STAINLESS STEEL.
- A15 FRONT LOADING WASHER. PROVIDE WASTE AND WATER IN RECESSED WALL BOX. A16 MICROWAVE OVER RANGE.
- A19 FRONT LOADING DRYER W/ RECESSED DRYER VENT BOX. PROVIDE DRYER
- VENT. VENT TO OUTSIDE AIR. B01 30" SINGLE COMPARTMENT UNDER-MOUNT KITCHEN SINK W/ GARBAGE DISPOSAL. REFER TO WATER EFFICIENCY REQUIREMENTS ON CALGREEN CODE NOTES SHEET.
- B04 LAVATORY SINK. REFER TO WATER EFFICIENCY REQUIREMENTS ON CALGREEN CODE NOTES SHEETS.
- B05 WATER CLOSET. REFER TO WATER EFFICIENCY REQUIREMENTS ON CALGREEN CODE NOTES SHEETS.
- B06 30" x 60" x 72" TUB AND SHOWER COMBINATION. FIBER-CEMENT BACKER SHALL BE USED AS A BASE FOR CERAMIC WALL TILES IN TUB/SHOWER AREA. GREEN BOARD SHALL NOT BE USED. MODEL BY BUILDER. PROVIDE
- SHOWER ROD. B14 50 GALLON TANK TYPE ELECTRIC WATER HEATER. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION.
- B18 EXTERIOR RATED ELECTRIC SUB PANEL 80 AMP 120/240 VOLT. CONTRACTOR TO VERIFY MAIN PANEL
- B38 WALL-MOUNTED MULTI-ZONE HEAT PUMP CONDENSING UNIT. REFER TO PLANS FOR LOCATION OF INDOOR FAN FAN COIL UNITS. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION.
- B41 FAN COIL. REFER TO PLANS FOR LOCATION OF OUTDOOR CONDENSING UNIT. PROVIDE CONDENSATE DRAIN TO EXTERIOR PER MANUF. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. PROVIDE OUTLET.
- B43 ACCESSIBLE WALL MOUNTED LAVATORY SINK, MAX HEIGHT 34", REFER TO WATER EFFICIENCY REQUIREMENTS ON CALGREEN CODE NOTES SHEETS.
- C01 SINGLE WOOD SHELF AND POLE.
- C04 LINEN CABINET AT 36" ABOVE FINISH FLOOR.
- C08 12" DEEP UPPER CABINET C10 24" DEEP UPPER CABINET.
- C12 34 1/2" HIGH BASE CABINET AND COUNTERTOP.
- C13 30" HIGH BASE CABINET AND COUNTERTOP.
- G02 AT [SLAB ON GRADE] CONCRETE FLATWORK. 1/4"/FT SLOPE AWAY FROM BUILDING. AT [RAISED FOUNDATION] 2X COMPOSITE IGNITION RESISTANT DECKING, TREX OR EQUAL, OVER 4X6 PT WOOD JOISTS @ 16" O.C. REFER TO DETAILS 41, 51, 52, 54 SHEET AD-902.

WINDOW GENERAL NOTES

- REFER TO GENERAL NOTES ON SHEET G-101 FOR ADDITIONAL REQUIREMENTS.
- REFER TO FLOOR PLANS FOR WINDOW LOCATIONS. CONTRACTOR TO VERIFY EXACT ROUGH OPENING SIZES PRIOR TO FABRICATION OF ROUGH OPENINGS.
- INSTALL PER MANUFACTURERS WRITTEN INSTRUCTIONS. REFER TO ENERGY COMPLIANCE REPORTS FOR U-FACTOR, SHGC AND
- ADDITIONAL WINDOW REQUIREMENTS. 6. ALL GLAZING IS DOUBLE PANE WITH A MINIMUM OF ONE TEMPERED PANE OR TO BE 20-MINUTE FIRE-RESISTENCE RATING. (LISTED AND APPROVED ASSEMBLY)
- EGRESS WINDOWS SHALL HAVE A CLEAR OPENING WITH A MAX. SILL HEIGHT OF 44" AFF, MIN NET CLEAR OPENING FOR EMERGENCY ESCAPE SHALL BE 5.7 S.F. EXCEPTION: MIN 5 S.F. AT GROUND FLOOR, MINIMUM NET CLEAR OPENING DIMENSIONS: HEIGHT: 24", WIDTH: 20",

WINDOW REMARKS

- REQUIRED EGRESS WINDOW. REFER TO GENERAL NOTE #7 FOR ADDITIONAL
- INFORMATION. HAZARDOUS LOCATION. WINDOW INCLUDES BOTH PANES TEMPERED
- GLAZING. HIGH WINDOW. REFER TO ELEVATIONS FOR LOCATION

WINDOW SCHEDULE

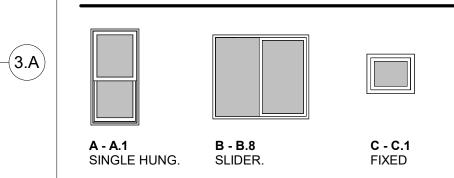
—(**3.C**)

2 (A3-202) -

A3-201/

	SCHEDU	LE-WINDO	W PLAN 3 (H	IGH DESERT	& RURAL MOU	JNTAIN
			S	SIZE	HEAD	
NO.	TYPE	COUNT	WIDTH	HEIGHT	HEIGHT	RE
PLAN 3	А	2	2' - 0"	4' - 0"	6' - 8"	2
PLAN 3	В	2	4' - 0"	4' - 0"	6' - 8"	
PLAN 3	B.1	1	3' - 0"	3' - 0"	6' - 8"	
PLAN 3	B.2	1	3' - 0"	2' - 0"	6' - 8"	2

WINDOW LEGEND



FLOOR PLAN GENERAL NOTES

REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION IF PROVIDED.

4. REFER TO MECHANICAL PLANS, DRAWINGS OR REPORTS FOR FURTHER

5. ALL FURNITURE AND EQUIPMENT IS BY OWNER AND IS SHOWN FOR

7. DIMENSIONS ARE TO FACE OF FRAMING UNLESS SPECIFICALLY NOTED

9. PROVIDE FIREBLOCKING FOR WALL CAVITIES THAT EXCEED 2019 CBC

11. WHERE DOOR IS LOCATED WITHOUT DIMENSION AT THE CORNER OF A

ROOM IT SHALL BE 4" FROM FACE OF FRAMING OF ADJACENT WALL TO

10. DOOR AND WINDOW DIMENSIONS ARE CENTERED AT OPENINGS

12. WHERE RECESSED FIXTURES OCCUR IN WALLS OR HORIZONTAL

ASSEMBLIES, THE FIRE RATING OF THOSE ASSEMBLIES SHALL BE

13. AT ALL PENETRATIONS AND INTERSECTIONS OF FIRE-RATED PARTITIONS,

PROVIDE FIRE SEALANT AND/OR FIRE STOPPING TO MAINTAIN CONTINUITY

8. PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL

MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS,

1. REFER TO GENERAL NOTES SHEET G-101 AND G-102 FOR ADDITIONAL

REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.

REQUIREMENTS.

INFORMATION.

OTHERWISE.

MAINTAINED

LEGEND

HEIGHT LIMITATIONS

ROUGH DOOR OPENING

OF PARTITION RATING

COORDINATION PURPOSES ONLY.

SHELVING AND BATHROOM FIXTURES.

EXTERIOR - 5 1/2" WOOD STUD W/ PLYWOOD SHEATHING AND EXTERIOR FINISH (REFER TO ELEVATIONS). ONE LAYER 5/8" TYPE X GYPSUM WALL BOARD INTERIOR.

INTERIOR - 3 1/2" WOOD STUD W/ONE LAYER 5/8" TYPE X GYPSUM WALL BOARD EACH SIDE.

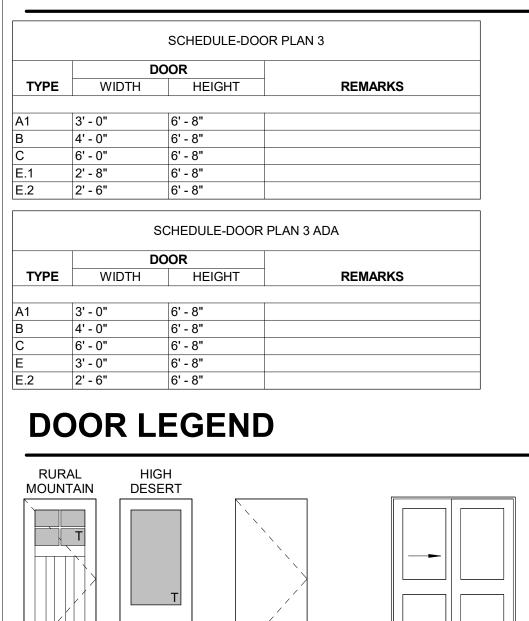
DOOR GENERAL NOTES

- REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS REFER TO PLANS FOR LOCATION OF DOORS.
- 3. VERIFY ROUGH OPENING SIZE WITH DOOR MANUFACTURER SPECIFICATIONS PRIOR TO CONSTRUCTION. 4. CONTRACTOR TO VERIFY ACTUAL DOOR SIZE TO FIT FINISH OPENING PRIOR
- TO FABRICATION OF DOOR AND FINISH OPENING.
- INSTALL PER MANUFACTURERS WRITTEN INSTRUCTIONS. EXTERIOR DOORS SHALL EITHER HAVE A FIRE-RESISTANCE RATING OF NOT
- LESS THAN 20-MINUTES OR SHALL BE CONSTRUCTED OF SOLID CORE WOOD THAT COMPLIES WITH THE FOLLOWING REQUIREMENTS: A. STILES AND RAILS SHALL NOT BE LESS THAN 1-3/8" THICK.
- B. PANELS SHALL NOT BE LESS THAN 1-1/4" THICK, EXCEPT FOR THE EXTERIOR PERIMETR OF THE PANEL SHALL BE PERMITTED TO TAPER TO A TONGUE OF NOT LESS THAN 3/8" THICK. REFER TO DOOR TYPES LEGEND FOR GLAZING.
- REFER TO T24 REPORT FOR GLAZING ENERGY REQUIREMENTS. 9. GLAZING IN DOORS SHALL BE TEMPERED PER SECTION R308.4.1.

DOOR REMARKS

- FIRE RATED DOOR. REFER TO GENERAL DOOR NOTE #5
- 2. GLAZING PER DOOR TYPES. TEMPERED. PROVIDE 100 SQ INCHES OF VENTING IN DOOR OR BY OTHER APPROVED
- MEANS. OPTIONAL DOOR.
- 5. OPTIONAL GLAZING IN DOOR. TEMPERED (BOTH PANES)

DOOR SCHEDULE



A2.

EXTERIOR

EXTERIOR

SOLID CORE WOOD

E - E.3

SOLID CORE WOOD HOLLOW CORE HOLLOW CORE

WOOD INTERIOR

B. - B.1

INTERIOR

DOUBLE SLIDING

WOOD POCKET



THESE PLANS ARE PROVIDED BY MONO COUNTY AS PART OF THE PRE-APPROVED ADU PROGRAM AND ARE PUBLIC DOMAIN. THERE CANNOT BE A CHARGE TO PROVIDE THESE PLANS. NO ALTERATIONS TO THESE PLANS ARE ALLOWED. ALL ALTERATIONS MUST BE DONE UNDER A SEPARATE PERMIT ONCE THE BUILDING PERMIT FOR THE ADU HAS BEEN ISSUED AND FINAL INSPECTION COMPLETED. IF YOU DO NOT HAVE THE CONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONTRUCT THESE PLANS WITHOUT FURTHER DETAILS, IT IS RECOMMENDED YOU HIRE A CONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS AND BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.

	MONO COUNTY ADU PROTOTYPES MONO COUNTY MONO COUNTY FLOOR PLANS / FINISH PLANS & DOOR WINDOW SCHEDULES
PUBLIC SET	<mark>рате</mark> 01/10/2024 SHEET A3-101

EMARKS _____

A1.

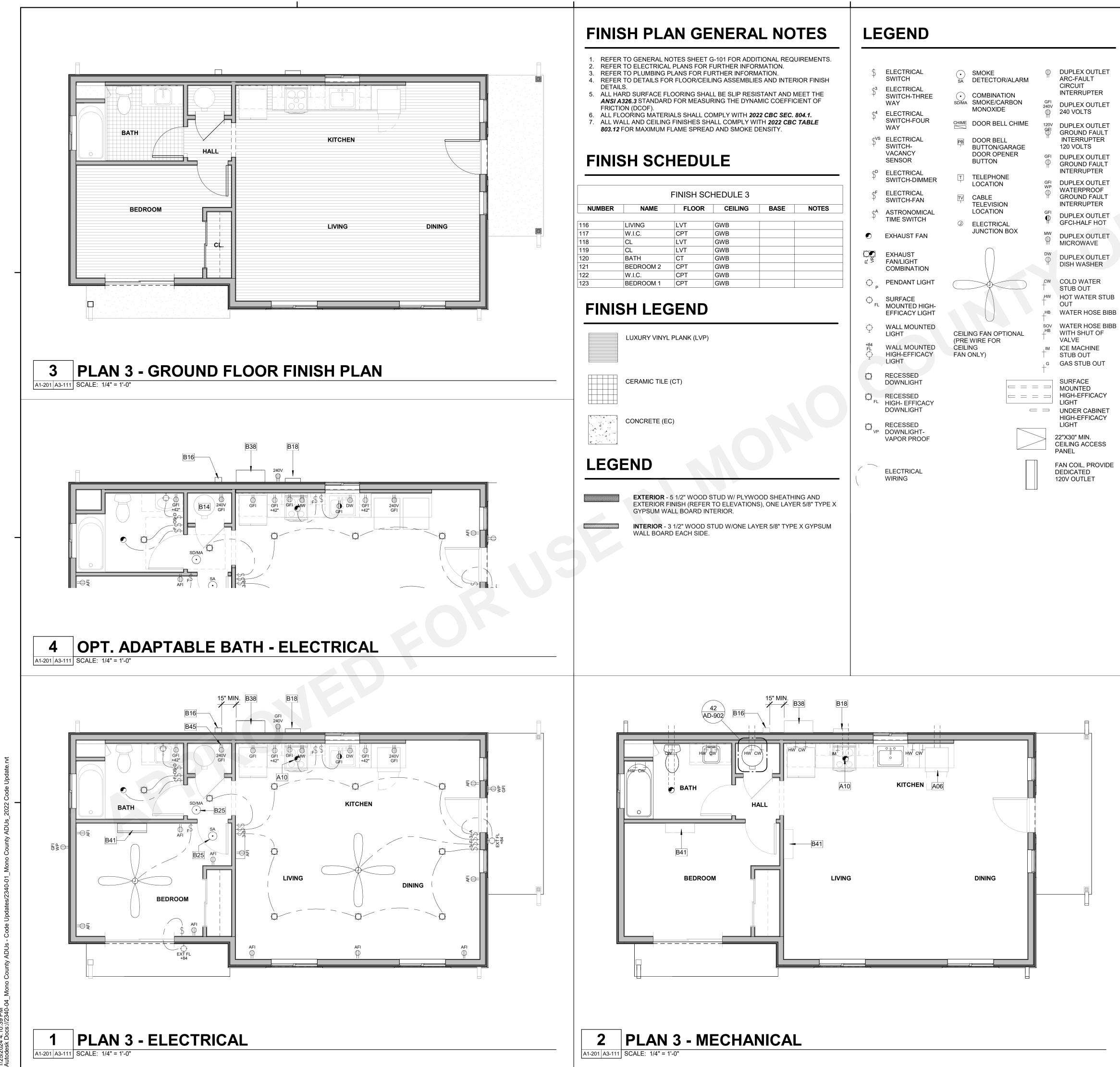
С.

SOLID CORE WOOD

EXTERIOR ENTRY

SLIDING GLASS

EXTERIOR.



GENERAL ELECTRICAL NOTES

- DUPLEX OUTLET
- FAN COIL, PROVIDE

1. REFER TO ELECTRICAL NOTES ON SHEET G-101. DANGER SIGNS SHALL BE CONSPICUOUSLY POSTED AT POINTS OF ACCESS TO CONDUCTORS IN ALL RACEWAY SYSTEMS AND CABLE SYSTEMS. (CEC 300.45)

KEYNOTES

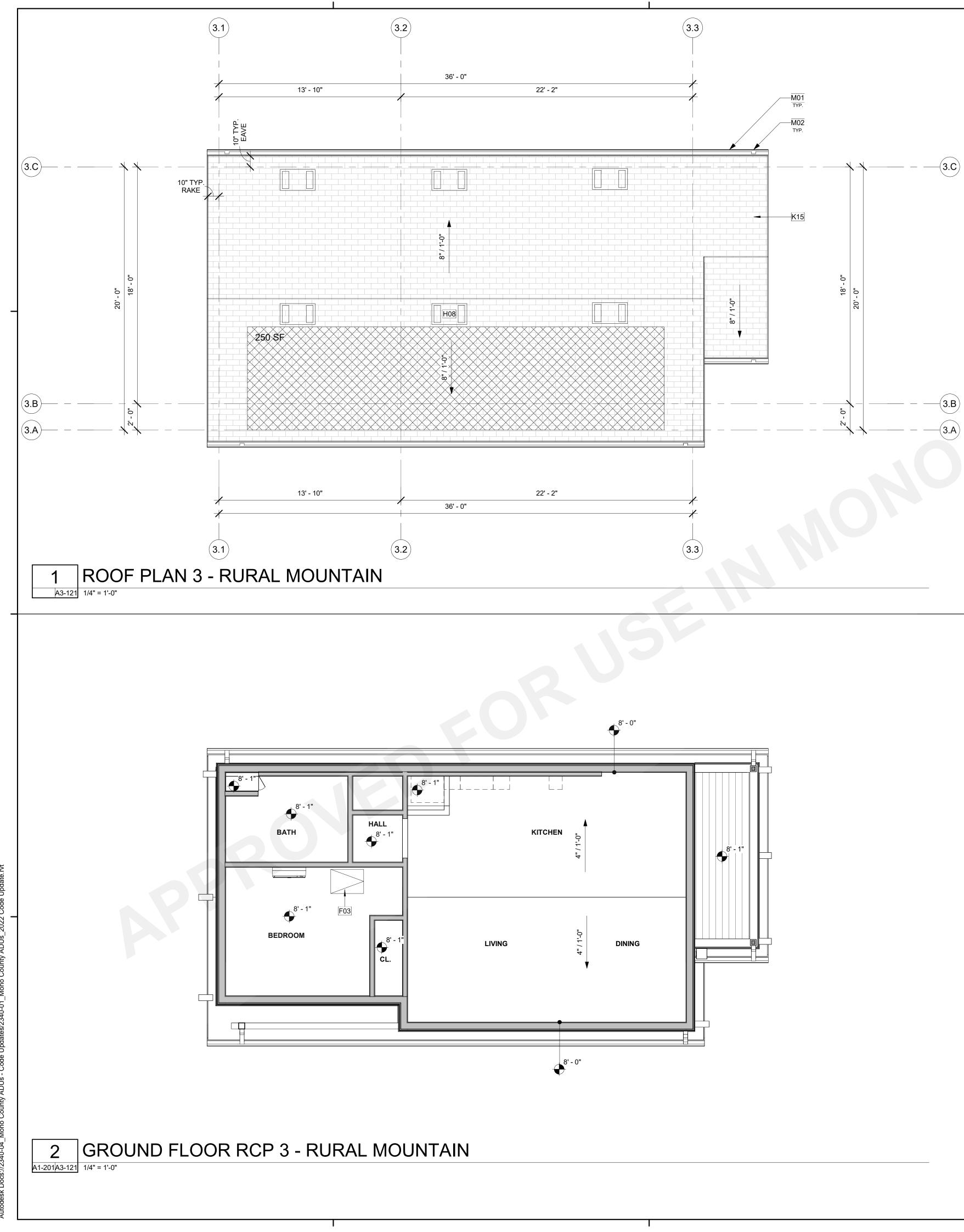
- A06 STACKED WASHER/DRYER MACHINE LOCATION. PROVIDE WASTE AND WATER IN RECESSED WALL BOX. PROVIDE DRYER VENT. VENT TO OUTSIDE AIR. A10 (50) CFM MIN. INTERMITTENT VENTILATION HOOD.
- B14 50 GALLON TANK TYPE ELECTRIC WATER HEATER. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. B16 220V AIR GAP DISCONNECT, 30" CLEAR WORKING SPACE REQUIRED IN FRONT
- OF ELECTRICAL EQUIPMENT B18 EXTERIOR RATED ELECTRIC SUB PANEL 80 AMP 120/240 VOLT. CONTRACTOR
- TO VERIFY MAIN PANEL. B25 SMOKE ALARM OR SMOKE DETECTOR SHALL BE INSTALLED A MINIMUM OF 20 FEET HORIZONTAL DISTANCE FROM A PERMANENTLY INSTALLED COOKING APPLIANCE AND 3 FEET AWAY FROM PATH OF CEILING FAN BLADES. EXCEPTION: IONIZATION SMOKE ALARMS WITH AN ALARM SILENCING SWITCH OR PHOTOELECTRIC SMOKE ALARMS SHALL BE PERMITTED TO BE INSTALLED 10 FEET OR GREATER FROM A PERMANENTLY INSTALLED COOKING APPLIANCE. PHOTOELECTRIC SMOKE ALARMS SHALL BE PERMITTED TO BE INSTALLED GREATER THAN 6 FEET FROM PERMENANTLY INSTALLED COOKING APPLIANCE WHERE KITCHEN AND ADJACENT SAPCES HAVE NO CLEAR INTERIOR PARTITIONS AND THE 10 FOOT DISTANCE WOULD PROHIBIT PLACEMENT OF A SMOKE ALARM OR SMOKE DETECTOR REQUIRED BY OTHER SECTIONS OF THE CODE. SMOKE ALARMS SHALL BE LISTED FOR USE IN CLOSE PROXIMITY TO A PERMANENTLY INSTALLED COOKING APPLIANCE. PER CRC R314.3.3 ITEM 4.
- B38 WALL-MOUNTED MULTI-ZONE HEAT PUMP CONDENSING UNIT. REFER TO PLANS FOR LOCATION OF INDOOR FAN FAN COIL UNITS. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION.
- B41 FAN COIL. REFER TO PLANS FOR LOCATION OF OUTDOOR CONDENSING UNIT. PROVIDE CONDENSATE DRAIN TO EXTERIOR PER MANUF. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. PROVIDE OUTLET.
- B45 OUTLET SERVING WATER HEATER SHALL BE ACCESSIBLE TO THE WATER HEATER WITH NO OBSTRUCTION. LOCATE OUTLET AT 72" A.F.F.

VENTILATION SUMMARIES

BATHROOM	OPTION A	OPTION B
BATHROOM FAN FLOW (cfm)	50 CFM	50 CFM
DUCT TYPE		SMOOTH DU
DUCT SIZE (in)		4"
MAX. ALLOWABLE DUCT LENGTH (ft)		105'
THIS EXHAUST FAN IS REQUIRED TO BE RA	ATED FOR SOUND AT A MAX	. OF 3 SONES.
KITCHEN	OPTION A	OPTION B
KITCHEN FAN FLOW (cfm)		50 CFM
DUCT TYPE	FLEX DUCT	SMOOTH DU
DUCT SIZE (in)		5"
MAX. ALLOWABLE DUCT LENGTH (ft)		85'
THIS EXHAUST FAN IS REQUIRED TO BE RA	ATED FOR SOUND AT A MAX	. OF 3 SONES.
OLE BUILDING VENTILATION	OPTION A	OPTION B
PER ASHRAE STANDARD 62.2, CEC E	EQUATION 150.0-B	
BUILDING FAN FLOW (cfm)	50 CFM	50 CFM
DUCT TYPE		SMOOTH DU
DUCT SIZE (in)	4"	4"
MAX. ALLOWABLE DUCT LENGTH (ft)		105"
THIS EXHAUST FAN IS REQUIRED TO BE RA	ATED FOR SOLIND AT A MAX	OF 1 SONE
		of roome.
THIS EXHAUST FAN IS REQUIRED TO OPER		
THIS EXHAUST FAN IS REQUIRED TO OPER CONTINUOUSLY TO ENSURE INDOOR AIR G	RATE CONTINUOUSLY TO EN QUALITY.	
CONTINUOUSLY TO ENSURE INDOOR AIR G TOTAL (MINIMUM) REQUIRED VENTILA PER ASHRAE STANDARD 62.2, (QCFM = .03(FLOOR AREA) + 7.5 WHOLE DWELLING UNIT MECHANICAI PER SECTION 150.0(O)(C)(i) [ASHRA 1 BED - MINIMUM CUBIC FEET PER MII Qtot = 0.03Afloor + 7.5(Nbr + 1) Qtot = 0.03(692 sf) + 7.5 (1+1) = 35.76 C	ATE CONTINUOUSLY TO EN QUALITY. ATION RATE CEC EQUATION 150.0-B (# OF BEDROOMS + 1) L VENTILATION AE 62.2:4.1.2] NUTE (CFM) (Equat FM < 50 CFM	
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MONO COUNTY ADU PROTOTYPES MONO COUNTY	MECHANICAL & ELECTRICAL PLANS
<mark>DATE</mark> 01/10/2024 SHEET ДЗ-	-111



ROOF VENTING CALCULATIONS

UPPER V	ENTS: O'HAGII 72.0 SQ.	• • • • • • -					Q. <i>IN. /</i>	′ 144 = 0.5 SF
LOWER VENTS: O'HAGIN FIRE & ICE STANDARD 1/4" MESH 72.0 SQ.IN OF AIR MOVEMENT PER VENT = 72. SQ.IN. / 144 = 0.5 SF								
"UPPER VENTS PROVIDED" = (TOTAL ATTIC AREA/300) * (0.5) / (0.5 SF)								
"LOWER VENTS PROVIDED" = (TOTAL ATTIC AREA/300) * (0.5) / (0.5 SF)								
ATTIC	AREA		UIRED A NTING (N			/ENTING ED (NFA)		WER VENTING QUIRED (NFA)
ATTIC -	786 SF	2.62	SF		1.31 SF		1.31	SF
PLAN 3								
						NET FR AREA P	1	PROVIDED
	CI		COUNT	VEN	T LENGTH	VENT		AREA
LOWER								
O'HAGIN SH (LOWER)	INGLE ROOF V	ENT	3	2' - 8	"	0.50 SF		1.50 SF
UPPER			1					1.50 SF
O'HAGIN SH (UPPER)	INGLE ROOF V	ENT	3	2' - 8		0.50 SF		1.50 SF
								1.50 SF

KEYNOTES

F03

22" X 30" MIN. ATTIC ACCESS. PROVIDED SWITCH AND OUTLET AT ATTIC FOR FAU. PERMANENTLY ATTACH R-38 OR GREATER INSULATION TO ATTIC ACCESS DOOR USING ADHESIVE OR MECHANICAL FASTENERS CEnC 150.0 (a)1. PROVIDE GASKETED ATTIC ACCESS TO PREVENT AIR LEAKAGE CEnC 150.0 (a)1.

4 = 0.5 SF

- 4 = 0.5 SF
- (0.5 SF)

RED (NFA)

PROVIDED NET FREE AREA

- LEGEND
- HEIGHT OF TOP OF ROOFING SURFACE
- 2" / 12" ROOF SLOPE (REFER TO PLANS FOR ACTUAL SLOPE)

ROOF PLAN GENERAL NOTES

2. REFER TO STRUCTURAL PLANS FOR ROOF FRAMING INFORMATION

3. REFER TO MECHANICAL PLANS FOR ROOF MOUNTED EQUIPMENT

4. REFER TO ELECTRICAL PLANS FOR POWER DISTRIBUTION TO ROOF

REFER TO SITE/GRADING PLAN FOR DOWNSPOUT DISCHARGE OR

8. WHERE THE ROOF PROFILE ALLOWS A SPACE BETWEEN THE ROOF

MINERAL-SURFACED NONPERFORATED CAP SHEET OVER THE

9. ALL ROOFING MATERIALS TO BE INSTALLED PER MANUFACTURER'S

WITH (2022 CBC 1507.1), AND MANUFACTURER'S INSTALLATION

12. WHERE PROVIDED, VENTILATION OPENINGS SHALL BE IN ACCORDANCE

HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL. THE

13. ROOF VENTS SHALL BE APPLIED PER MANUFACTURER'S SPECIFICATIONS

14. FURNISHED DIMENSIONS FOR VENTS ARE GUIDES ONLY. INSTALL PER

LOCATIONS, PLUMBING VENTS, AND SOLAR COLLECTORS.

7. PROVIDE A MINIMUM OF 1 INCH OF AIRSPACE BETWEEN THE INSULATION

COVERING AND DECKING, THE SPACES SHALL BE CONSTRUCTED TO

APPROVED MATERIALS OR HAVE ONE LAYER OF MINIMUM 72 POUND

10. OVERHANG DIMENSIONS ARE FROM FACE OF EXTERIOR WALL FRAMING TO

11. ROOF COVERINGS AND UNDERLAYMENT SHALL BE APPLIED IN ACCORDANCE

WITH (2022 CBC SECTION 1202). EXTERIOR OPENINGS INTO THE ATTIC SPACE SHALL BE COVERED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING,

OPENINGS SHALL BE A MINIMUM OF 1/16" AND SHALL NOT EXCEED 1/4" PER

MANUFACTURERS SPECIFICATIONS AND ADJUST TO ACCOMMODATE TRUSS

PREVENT THE INTRUSION OF FLAMES AND EMBERS, BE FIRESTOPPED WITH

INCLUDING MEMBER SIZES AND CONNECTION HARDWARE.

REFER TO PLUMBING PLANS ROOF VENT PENETRATIONS.

LOCATIONS AND TYPES.

MOUNTED EQUIPMENT.

AND ROOF SHEATHING.

COMBUSTIBLE DECKING.

SPECIFICATIONS.

INSTRUCTIONS

(2022 CBC 1202.2.2.)

ROOF EDGE

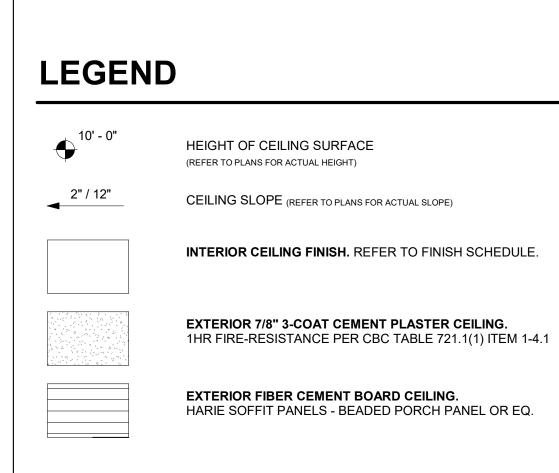
CONTINUATION.

REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS

- _ _ _ _ _
- O'HAGIN ATTIC VENT, PAINT TO MATCH ROOF COLOR. (REFER TO EXTERIOR ELEVATIONS FOR COLORS AND MATERIALS.)
- WALL BELOW
 - GUTTER, CONNECT TO DOWNSPOUT -DOWNSPOUT, TO ROOF OR SPLASHBLOCK BELOW U.N.O.
- SOLAR ZONE. REFER TO SOLAR READY NOTES ON SHEET G-101.

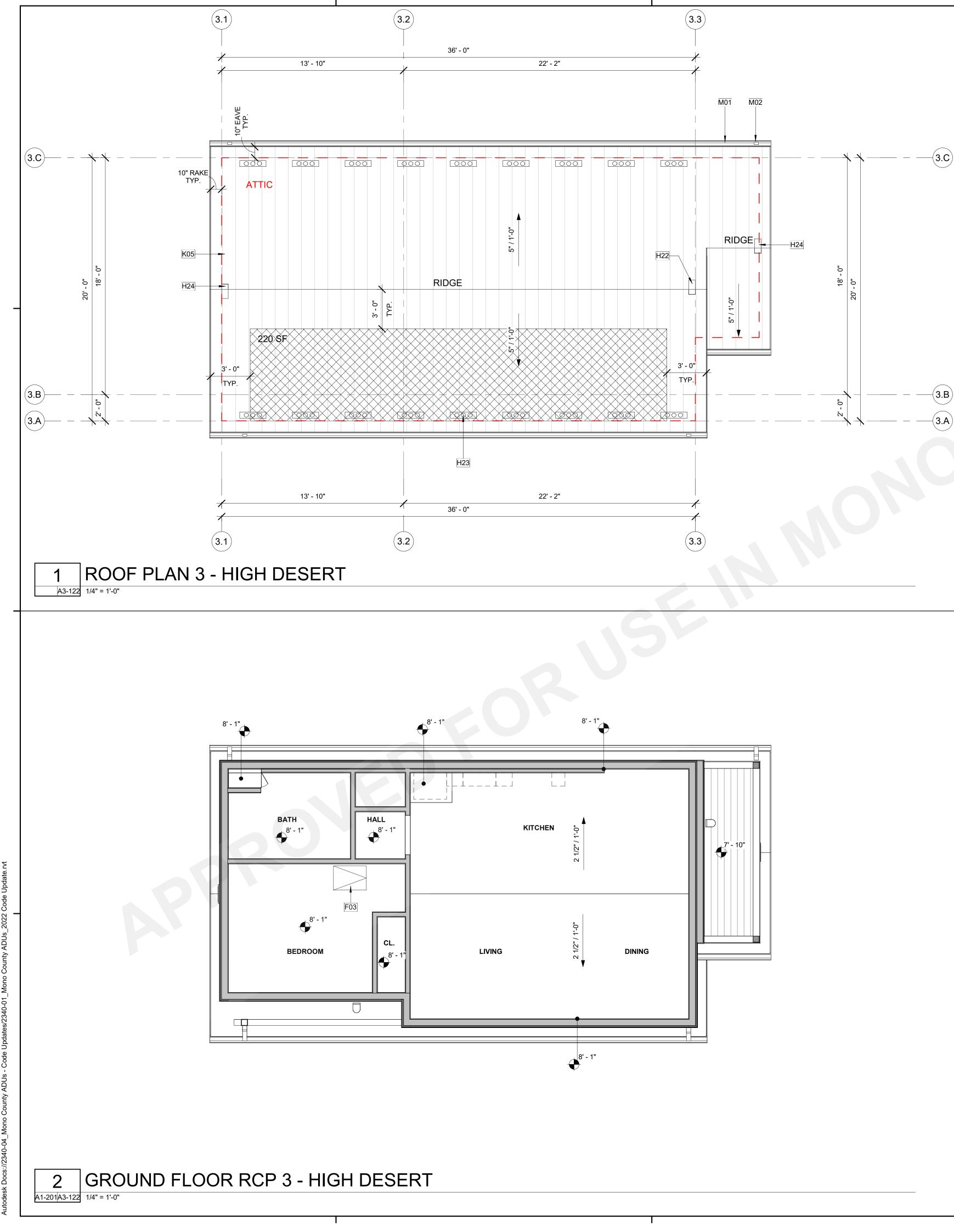
RCP GENERAL NOTES

- 1. REFER TO GENERAL NOTES SHEET G-101 AND G-102 FOR ADDITIONAL REQUIREMENTS.
- REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION.
- REFER TO MECHANICAL PLANS FOR FURTHER INFORMATION. REFER TO DETAILS FOR FLOOR/CEILING ASSEMBLIES.
- HEIGHT OF CEILINGS SHALL BE MEASURED FROM TOP OF SLAB TO FINISH FACE OF GWB OR FACE OF CEILING GRID AS INDICATED ON THE REFLECTED CEILING PLAN, UNO. 6. CONTRACTOR TO VERIFY DEPTH OF SOFFITS AND HOLD TIGHT TO
- PLUMBING, SPRINKLERS, ELECTRICAL AND MECHANICAL DUCTS





MONO COUNTY ADU PRODOTYPES MONO COUNTY MONO COUNTY MOUNTAIN
<mark>DATE</mark> 01/10/2024 SHEET A3-121



ROOF VENTING CALCULATIONS

UPPER VENTS: 14" x 17.5" VULCAN GABLE VENT 86.0 SQ.IN OF AIR MOVEMENT PER VENT = 86 SQ.IN. / 144 = 0.60 SF

> 14" X 12" VULCAN GABLE VENT 58.0 SQ.IN OF AIR MOVEMENT PER VENT = 58 SQ.IN. / 144 = 0.40 SF

LOWER VENTS: (3) 3" ROUND MESH FACE FIRE VULCAN VENTS IN EAVE BLOCKING 12 SQ. IN. / 144 = 0.08 SF

"UPPER VENTS PROVIDED" =

"LOWER VENTS PROVIDED" = (TOTAL ATTIC AREA/300) * (0.5) / (0.08 SF)

ATTIC	AREA	REQUIR VENTII				VENTING ED (NFA)		WER V QUIRE	
ATTIC - PLAN 3	786 SF 2	2.62 SF			1.31 SF		1.31	SF	
	CI	co	DUNT	VEN	T LENGTH	NET FR AREA P VENT	ER	PRC NET	
LOWER									
(3) 3" HOLES	S (LOWER)	18		2' - 0'	"	0.08 SF		1.44 S	F
UPPER								1.44 S	F
14x12 VULC (UPPER)	AN GABLE VENT	Г 1		1' - 2'	"	0.40 SF		0.40 S	F
14X17.5 VUL (UPPER)	CAN GABLE VE	NT 2		1' - 2'	"	0.60 SF		1.20 S	۶F
								1.60 S	۶F

KEYNOTES

F03

22" X 30" MIN. ATTIC ACCESS. PROVIDED SWITCH AND OUTLET AT ATTIC FOR FAU. PERMANENTLY ATTACH R-38 OR GREATER INSULATION TO ATTIC ACCESS DOOR USING ADHESIVE OR MECHANICAL FASTENERS CEnC 150.0 (a)1. PROVIDE GASKETED ATTIC ACCESS TO PREVENT AIR LEAKAGE CEnC 150.0 (a)1.

- (TOTAL ATTIC AREA/300) * (0.5) / (0.40 SF)

VER VENTING QUIRED (NFA)

PROVIDED NET FREE AREA

- 1.44 SF).40 SF
- 1.20 SF 1.60 SF

ROOF PLAN GENERAL NOTES

- 1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS 2. REFER TO STRUCTURAL PLANS FOR ROOF FRAMING INFORMATION INCLUDING MEMBER SIZES AND CONNECTION HARDWARE.
- 3. REFER TO MECHANICAL PLANS FOR ROOF MOUNTED EQUIPMENT LOCATIONS AND TYPES.
- 4. REFER TO ELECTRICAL PLANS FOR POWER DISTRIBUTION TO ROOF MOUNTED EQUIPMENT.
- REFER TO PLUMBING PLANS ROOF VENT PENETRATIONS. REFER TO SITE/GRADING PLAN FOR DOWNSPOUT DISCHARGE OR
- CONTINUATION. 7. PROVIDE A MINIMUM OF 1 INCH OF AIRSPACE BETWEEN THE INSULATION AND ROOF SHEATHING.
- 8. WHERE THE ROOF PROFILE ALLOWS A SPACE BETWEEN THE ROOF COVERING AND DECKING, THE SPACES SHALL BE CONSTRUCTED TO PREVENT THE INTRUSION OF FLAMES AND EMBERS, BE FIRESTOPPED WITH APPROVED MATERIALS OR HAVE ONE LAYER OF MINIMUM 72 POUND MINERAL-SURFACED NONPERFORATED CAP SHEET OVER THE COMBUSTIBLE DECKING.
- 9. ALL ROOFING MATERIALS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- 10. OVERHANG DIMENSIONS ARE FROM FACE OF EXTERIOR WALL FRAMING TO ROOF EDGE 11. ROOF COVERINGS AND UNDERLAYMENT SHALL BE APPLIED IN ACCORDANCE
- WITH (2022 CBC 1507.1), AND MANUFACTURER'S INSTALLATION INSTRUCTIONS 12. WHERE PROVIDED, VENTILATION OPENINGS SHALL BE IN ACCORDANCE
- WITH (2022 CBC SECTION 1202). EXTERIOR OPENINGS INTO THE ATTIC SPACE SHALL BE COVERED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL. THE OPENINGS SHALL BE A MINIMUM OF 1/16" AND SHALL NOT EXCEED 1/4" PER (2022 CBC 1202.2.2.)
- 13. ROOF VENTS SHALL BE APPLIED PER MANUFACTURER'S SPECIFICATIONS 14. FURNISHED DIMENSIONS FOR VENTS ARE GUIDES ONLY. INSTALL PER MANUFACTURERS SPECIFICATIONS AND ADJUST TO ACCOMMODATE TRUSS LOCATIONS, PLUMBING VENTS, AND SOLAR COLLECTORS.

LEGEND



- 2" / 12" ROOF SLOPE (REFER TO PLANS FOR ACTUAL SLOPE) O'HAGIN ATTIC VENT, PAINT TO MATCH ROOF COLOR.

(REFER TO EXTERIOR ELEVATIONS FOR COLORS AND MATERIALS.)

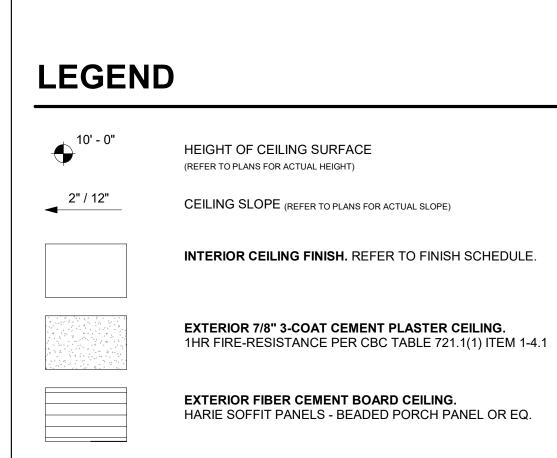
- ----
 - WALL BELOW GUTTER, CONNECT TO DOWNSPOUT



-DOWNSPOUT, TO ROOF OR SPLASHBLOCK BELOW U.N.O. SOLAR ZONE. REFER TO SOLAR READY NOTES ON

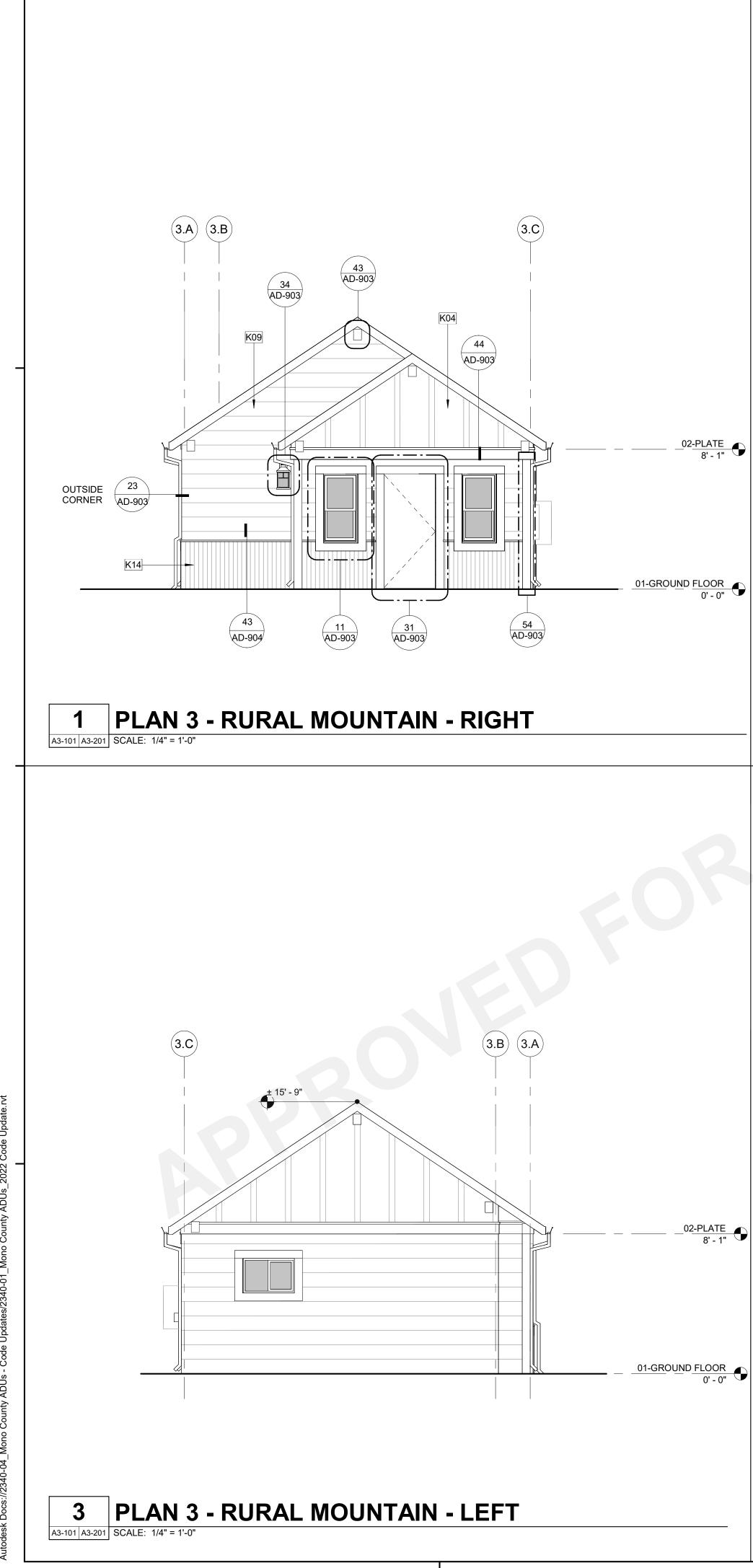
RCP GENERAL NOTES

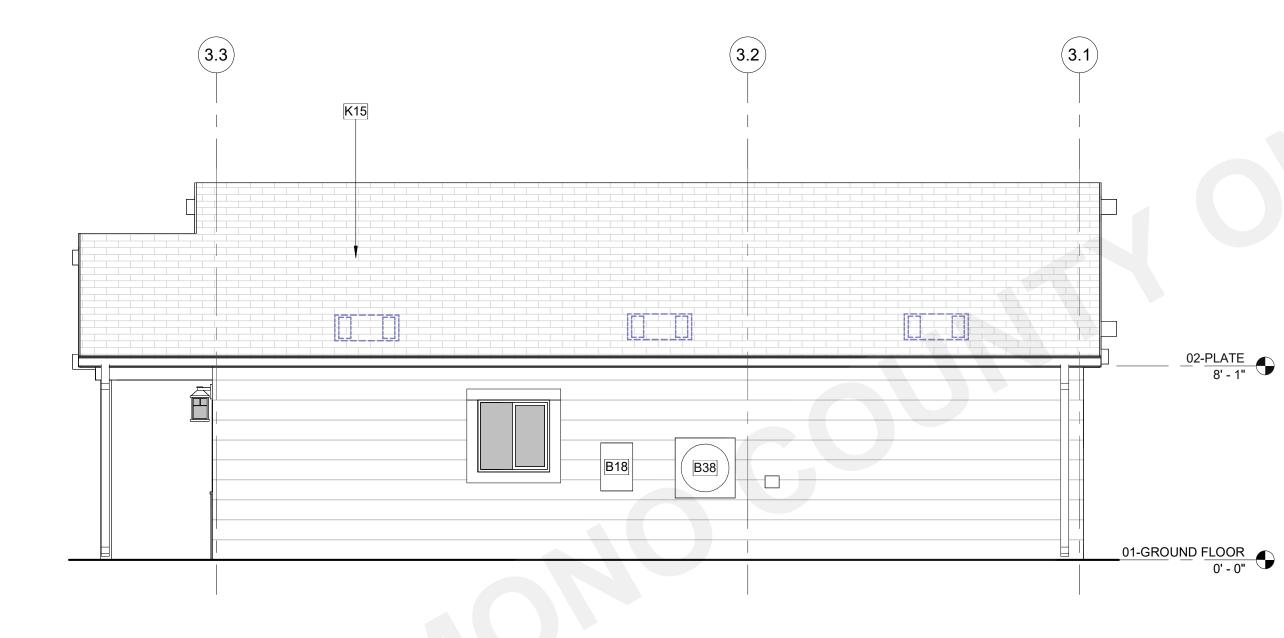
- 1. REFER TO GENERAL NOTES SHEET G-101 AND G-102 FOR ADDITIONAL REQUIREMENTS.
- REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION.
- REFER TO MECHANICAL PLANS FOR FURTHER INFORMATION. REFER TO DETAILS FOR FLOOR/CEILING ASSEMBLIES.
- HEIGHT OF CEILINGS SHALL BE MEASURED FROM TOP OF SLAB TO FINISH FACE OF GWB OR FACE OF CEILING GRID AS INDICATED ON THE REFLECTED CEILING PLAN, UNO.
- 6. CONTRACTOR TO VERIFY DEPTH OF SOFFITS AND HOLD TIGHT TO PLUMBING, SPRINKLERS, ELECTRICAL AND MECHANICAL DUCTS



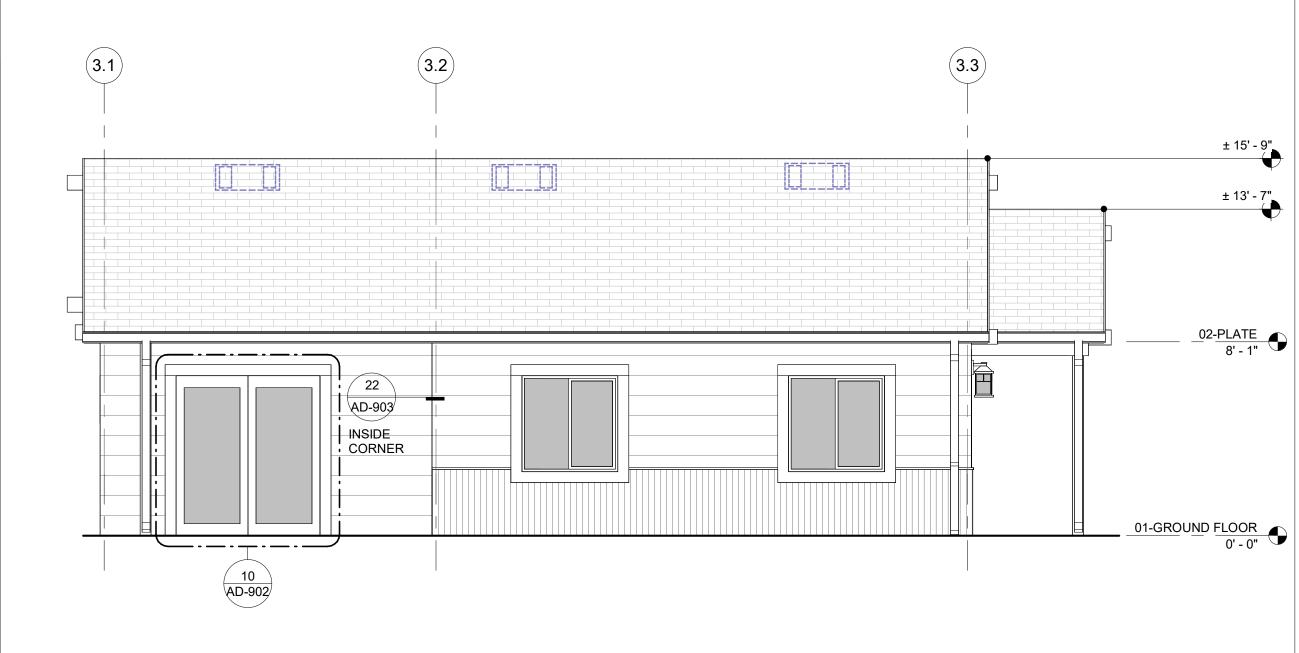


MONO COUNTY ADU PROTOTYPES MONO COUNTY	ROOF PLAN & RCP - HIGH DESERT
DATE 01/10/2024 SHEET A3-	122





PLAN 3 - RURAL MOUNTAIN - REAR 2 A3-101 A3-201 SCALE: 1/4" = 1'-0"



PLAN 3 - RURAL MOUNTAIN - FRONT 4 A3-101 A3-201 SCALE: 1/4" = 1'-0"

ELEVATION GENERAL NOTES

- 1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS. 2. FRAMING ELEVATIONS, INCLUDING FLOOR PLATES AND FLOOR LEVEL
- ELEVATIONS ARE MEASURED FROM BUILDING FINISH FLOOR, U.N.O. 3. SEE DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- 4. REFER TO ROOF PLAN FOR ROOF PITCH AND OVERHANGS. FASCIA PER DETAILS.
- 5. SEE ROOF PLAN FOR APPROXIMATE DOWNSPOUT LOCATIONS, U.N.O. 6. REFER TO DOOR AND WINDOW SCHEDULES AND TYPES FOR DOOR AND WINDOW INFORMATION.
- 7. SEE ELECTRICAL DRAWINGS FOR EXTERIOR LIGHTING 8. SEE MECHANICAL DRAWINGS FOR GRILLES AND LOUVERS. PAINT TO MATCH ADJACENT FINISH. 9. CONTRACTOR TO VERIFY COLOR SCHEME WITH OWNER BEFORE



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KEYNOTES

PERFORMING THE WORK.

B18	EXTERIOR RATED ELECTRIC SUB PANEL 80 AMP 120/240 VOLT. CONTRACTOR TO VERIFY MAIN PANEL.
B38	WALL-MOUNTED MULTI-ZONE HEAT PUMP CONDENSING UNIT. REFER TO PLANS FOR LOCATION OF INDOOR FAN FAN COIL UNITS. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION.
K04	FIBER CEMENT BOARD AND BATTEN SIDING, IN COMPLIANCE WITH 2019 CRC R337
K09	FIBER CEMENT HOROZONTAL SIDING, IN COMPLIANCE WITH 2022 CRC R337
K14	CORRUGATED METAL FINISH.
K15	ASPHAULT COMPOSITE ROOF SHINGLES. CLASS A FIRE RATING

LEGEND

NOTE: COLOR TO MATCH PRIMARY RESIDENCE COLOR SCHEME.

STYLE - RURAL MOUNTAIN



TO MATCH PRIMARY RESIDENCE)

BOARD AND BATTEN SIDING (COLOR TO MATCH PRIMARY RESIDENCE)

FIBER CEMENT HORIZONTAL SIDING (COLOR AND WIDTH



CORRUGATED METAL -VERTICAL

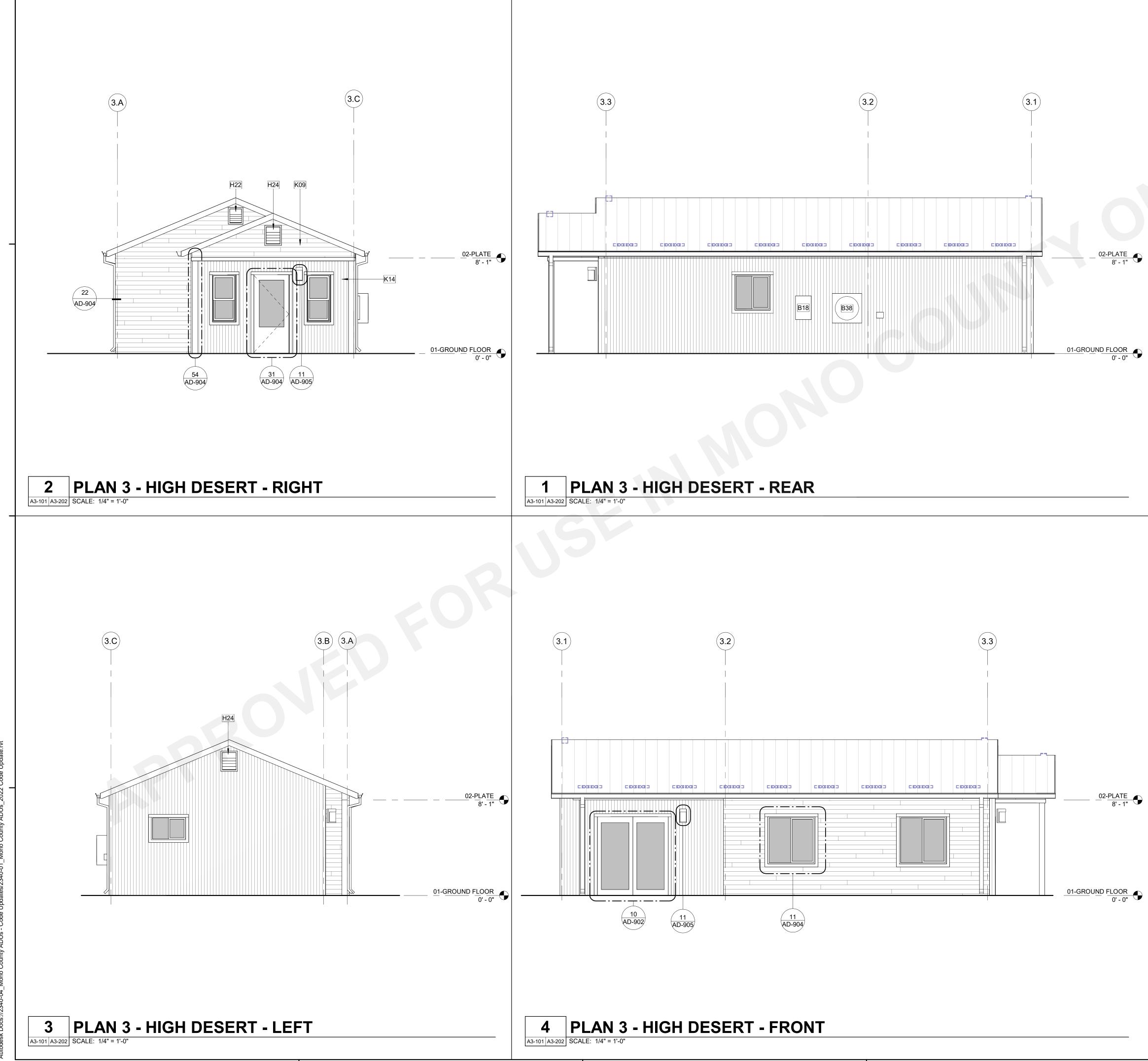
STYLE - HIGH DESERT CORRUGATED METAL -VERTICAL

HORIZONTAL SIDING

SET

PUBLIC

R ELEVATION MOUNTAIN MONO COUNTY A С EXTERIOR DATE 01/10/2024 SHEET A3-201



ELEVATION GENERAL NOTES

- 1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS. 2. FRAMING ELEVATIONS, INCLUDING FLOOR PLATES AND FLOOR LEVEL
- ELEVATIONS ARE MEASURED FROM BUILDING FINISH FLOOR, U.N.O. 3. SEE DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

PERFORMING THE WORK.

- 4. REFER TO ROOF PLAN FOR ROOF PITCH AND OVERHANGS. FASCIA PER DETAILS.
- 5. SEE ROOF PLAN FOR APPROXIMATE DOWNSPOUT LOCATIONS, U.N.O. 6. REFER TO DOOR AND WINDOW SCHEDULES AND TYPES FOR DOOR AND WINDOW INFORMATION.
- 7. SEE ELECTRICAL DRAWINGS FOR EXTERIOR LIGHTING 8. SEE MECHANICAL DRAWINGS FOR GRILLES AND LOUVERS. PAINT TO MATCH ADJACENT FINISH. 9. CONTRACTOR TO VERIFY COLOR SCHEME WITH OWNER BEFORE



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KEYNOTES

B18	EXTERIOR RATED ELECTRIC SUB PANEL 80 AMP 120/240 VOLT. CONTRACTOR TO VERIFY MAIN PANEL.
B38	WALL-MOUNTED MULTI-ZONE HEAT PUMP CONDENSING UNIT. REFER TO PLANS FOR LOCATION OF INDOOR FAN FAN COIL UNITS. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION.
H22	12" X 14" VULCAN GABLE VENT.
H24	14" X 17.5" VULCAN GABLE VENT.
K09	FIBER CEMENT HOROZONTAL SIDING, IN COMPLIANCE WITH 2022 CRC R337
K14	CORRUGATED METAL FINISH.

____02-<u>PLATE</u>______

LEGEND

NOTE: COLOR TO MATCH PRIMARY RESIDENCE COLOR SCHEME.

STYLE - RURAL MOUNTAIN



TO MATCH PRIMARY RESIDENCE) BOARD AND BATTEN SIDING (COLOR TO MATCH PRIMARY RESIDENCE)

CORRUGATED METAL -VERTICAL

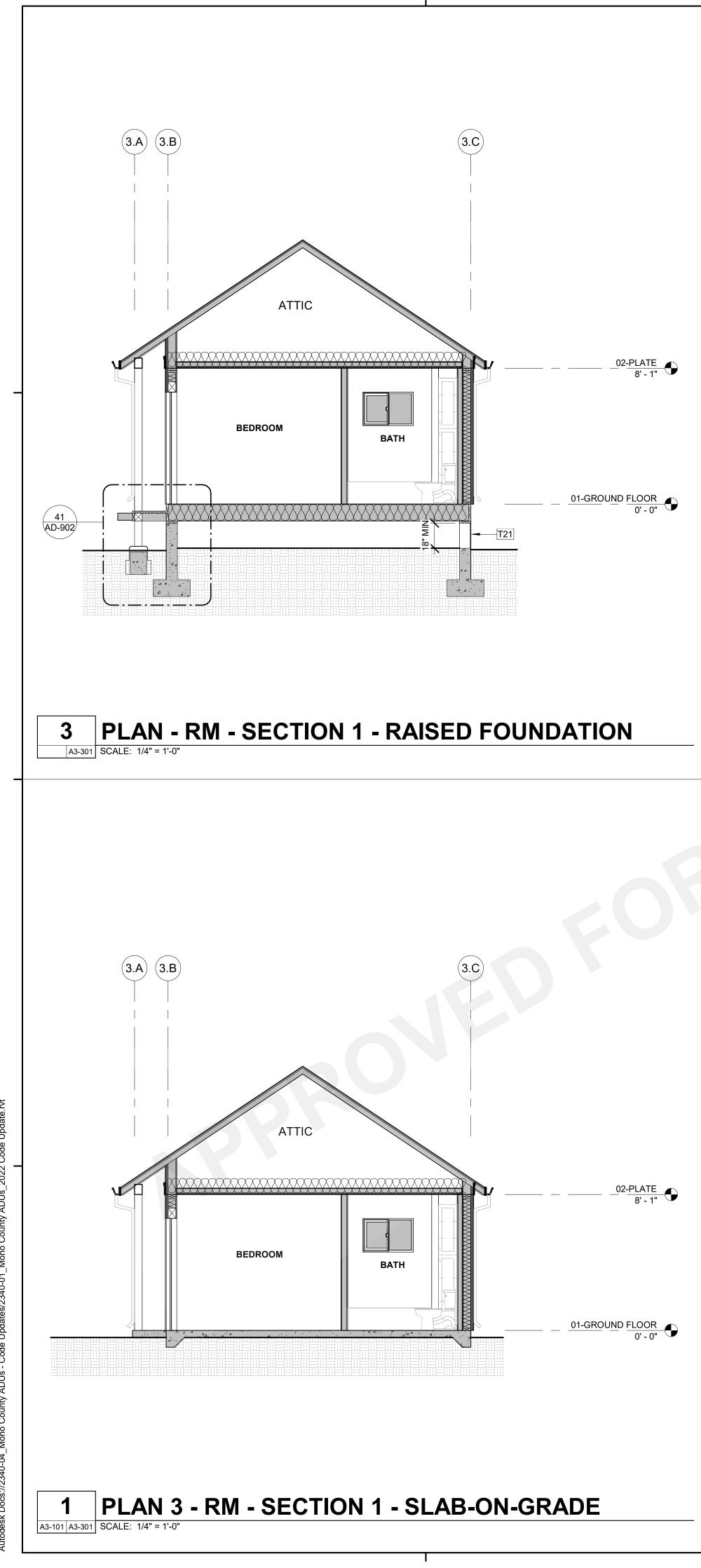
FIBER CEMENT HORIZONTAL SIDING (COLOR AND WIDTH

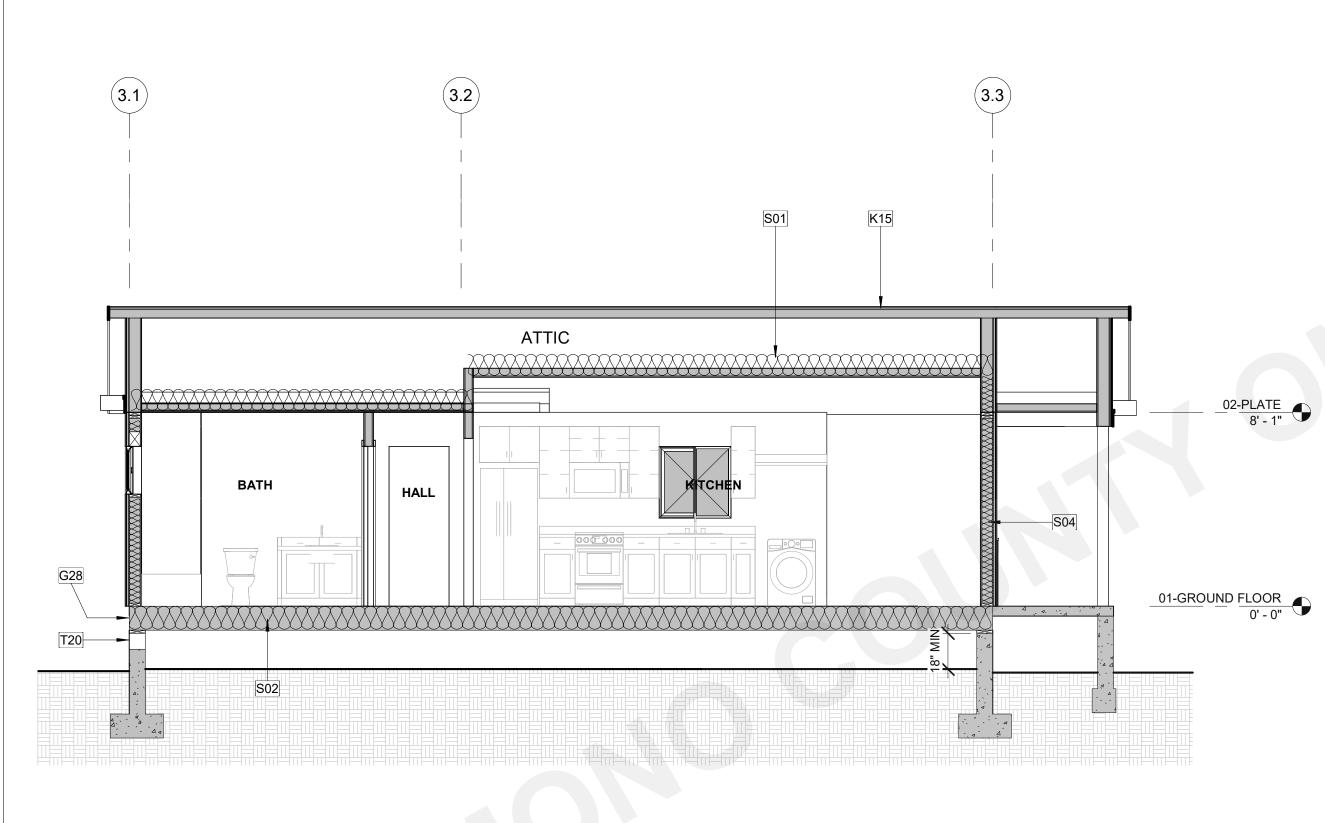
STYLE - HIGH DESERT

HORIZONTAL SIDING

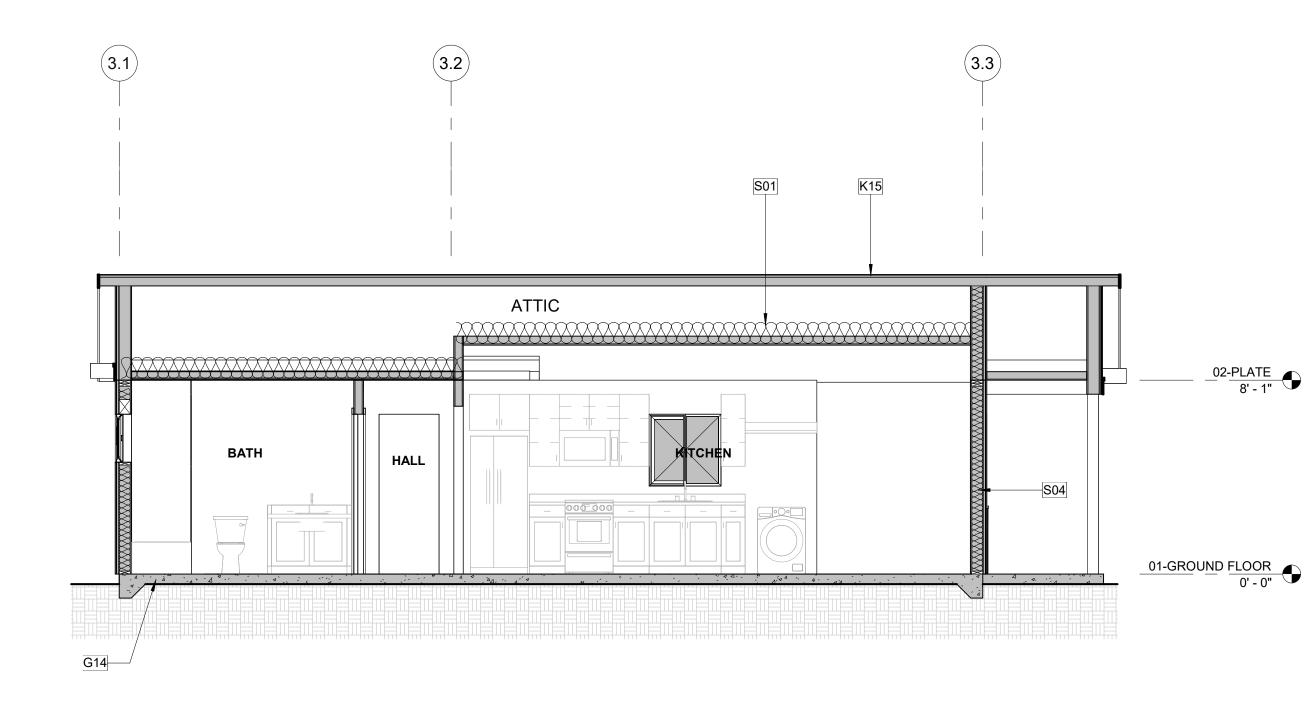
CORRUGATED METAL -VERTICAL

HIGH ADU Ζ MONO COUNTY A S ELEVATION DESERT Ē EXTERIOR DATE 01/10/2024 SET PUBLIC SHEET A3-202





PLAN 3 - RM - SECTION 2 - RAISED FOUNDATION 4 A3-101 A3-301 SCALE: 1/4" = 1'-0"



2 PLAN 3 - RM - SECTION 2 - SLAB-ON-GRADE A3-301 SCALE: 1/4" = 1'-0"

SECTIONS GENERAL NOTES

- 1. THE PURPOSE OF THESE DRAWINGS IS TO SHOW CONSTRUCTION MATERIALSS/ASSEMBLIES. FOR SPECIFIC SIZES AND DETAILS REFER TO ARCHITECTURAL PLANS, ELEVATIONS, DETAILS, AND STRUCTURAL PLANS. *KEYNOTES ONLY APPLY IF REFERENCED ON PLANS.
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- FLOOR PLANS FOR IDENTIFICATION. 4. INSULATION: REFER TO TITLE 24 REPORT AND "INSULATION" NOTES ON
- SHEET FOR ADDITIONAL RATINGS, REQUIREMENTS, AND INFORMATION. FIREBLOCKING TO BE LOACATED AT THE FOLLOWING LOCATIONS PER 2022 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: 1. VERTICALLY AT CEILING AND FLOOR LEVELS 2. HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET.
- 2. AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS SOFFITS, DROP CEILINGS AND COVE CEILINGS.
- 3. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. ENCLOSED SPACES UNDER STAIRS SHALL COMPLY WITH SECTION R302.7.
- 4. 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.
- 5. FOR THE FIREBLOCKING OF CHIMNEYS AND FIREPLACES, SEE SECTION R1003.19. 6. FIREBLOCKING OF CORNICES OF A TWO-FAMILY DWELLING IS
- REQUIRED AT THE LINE OF DWELLING-UNIT SEPARATION. A. SECTION R302.11.1 - FIREBLOCKING MATERIALS SHALL CONSIST OF FOLLOWING MATERIALS:
- 1. TWO-INCH NOMINAL LUMBER
- 2. TWO THICKNESSES 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. PER 2022 CRC SECION R317 SLEEPERS AND SILLS ON A CONCRETE OR MASONRY SLAB THAT IS IN DIRECT CONTACT WITH GROUND, UNLESS SEPARATED BY AN IMPERVIOUS MOISTURE BARRIER SHALL BE NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD.

KEYNOTES

G14	4" CONCRETE SLAB ON GRADE, REFER TO STUCTURAL PLANS
G28	RAISED FLOOR FOUNDATION. REFER TO STRUCTURAL.
K15	ASPHAULT COMPOSITE ROOF SHINGLES. CLASS A FIRE RATING
S01	CEILING INSULATION. REFER TO TITLE 24 (R-38 MIN.).
S02	HORIZONTAL FLOOR INSULATION. REFER TO TITLE 24 (R-19 MIN.).
S04	2X6 WALL INSULATION. REFER TO TITLE 24 (R-21 MIN.)
T20	FOUNDATION VENTS @ STEM WALL TO BE LOCATED AS APPROPRIATE ON SITE PER CONTRACTOR. REFER TO FOUNDATION CALCS ON BUILDING SECTIONS FOR NUMBER OF VENTS REQUIRED REFER TO G-101 FOR ADDITIONAL VENTILATION REQUIREMENTS.
T21	CRAWL SPACE ACCESS PANEL. MINIMUM 18" X 24" PER CBC 1209.1. LOCATION DETERMINED ON SITE PER CONTRACTOR.

FOUNDATION VENTING CALCS

PER 2022 CBC 1202.4, THE SPACE BETWEEN THE BOTTOM OF THE FLOOR JOISTS AND THE EARTH UNDER ANY BUILDING EXCEPT SPACES OCCUPIED BY BASEMENTS OR CELLARS SHALL BE PROVIDED WITH VENTILATION. REFER TO UNDER-FLOOR VENTING NOTES ON SHEET G-101 FOR ADDITIONAL INFORMATION.

UNDER-FLOOR CALCULATION FORMULA NFA OF AIR MOVEMENT PER VENT = 62 SQ.IN./144 IN./FT = 0.430 SF "VENTS PROVIDED" = (451/150) / 0.430 SF

VENT PRODUCT INFO

VENT MANUFACTURER: VULCAN VENTS PRODUCT: 8" X 14" FLANGE FRONT OR APPROVED EQUAL WWW.VULCANVENTS.COM

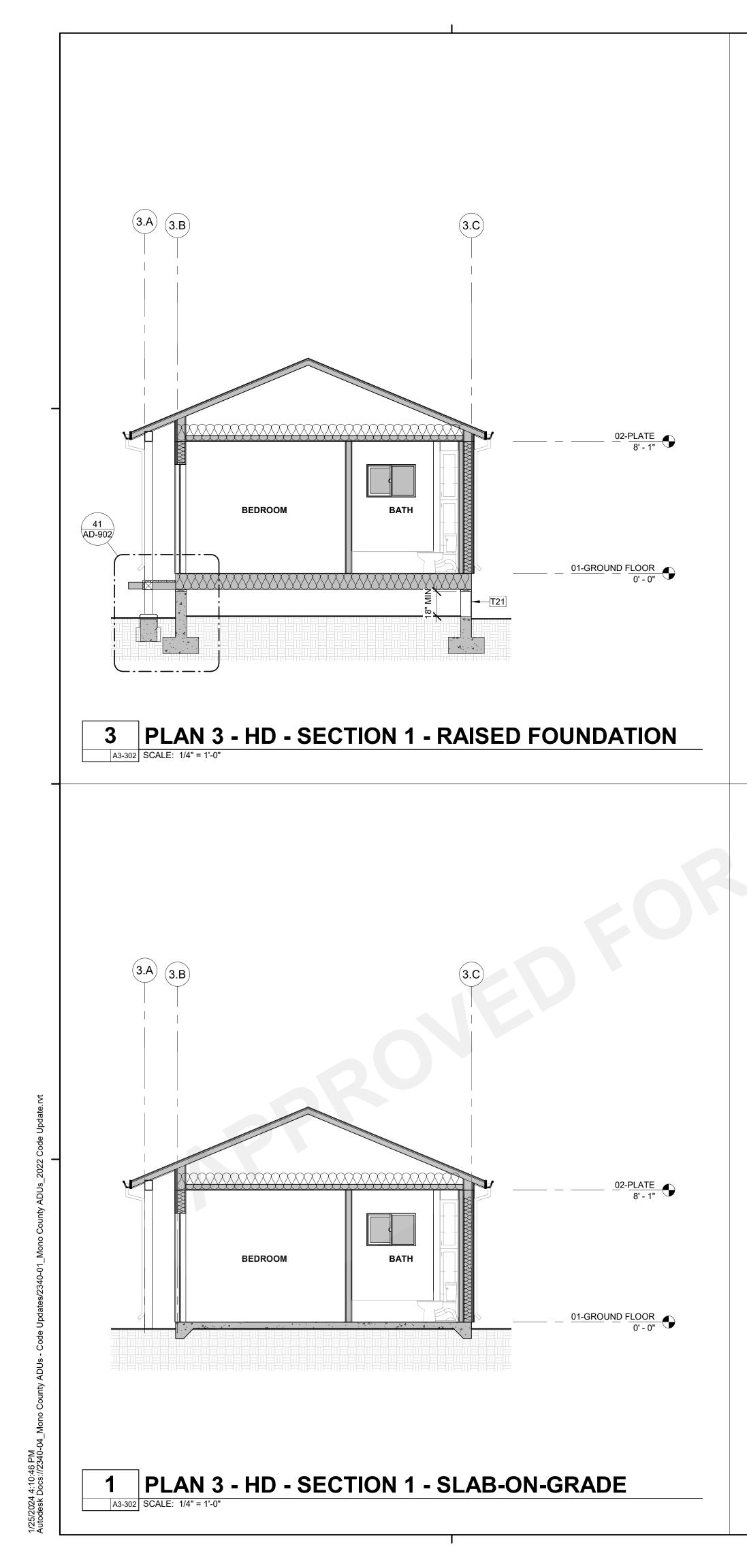
	VENTING-	FOUNDATION	I - CALCUL	ATION - PLA	N 3		
REQUIREDUNDER-FLOORFOUNDATIONAREA (SF)FOUNDATIONVENTING @ 1/150VENTS REQUIREDVENTS PROPOS							
692 SF	4.615556		11		11		
	VENTI	NG-PORCH- C		ON - PLAN 3			
LOCATION	BALCONY AREA (SF)		-	VENT LENG		VENT LENGH	
				-			
ENTRY	71 SF	0.470205		2		2	
	37 SF	0.249167		1		1	

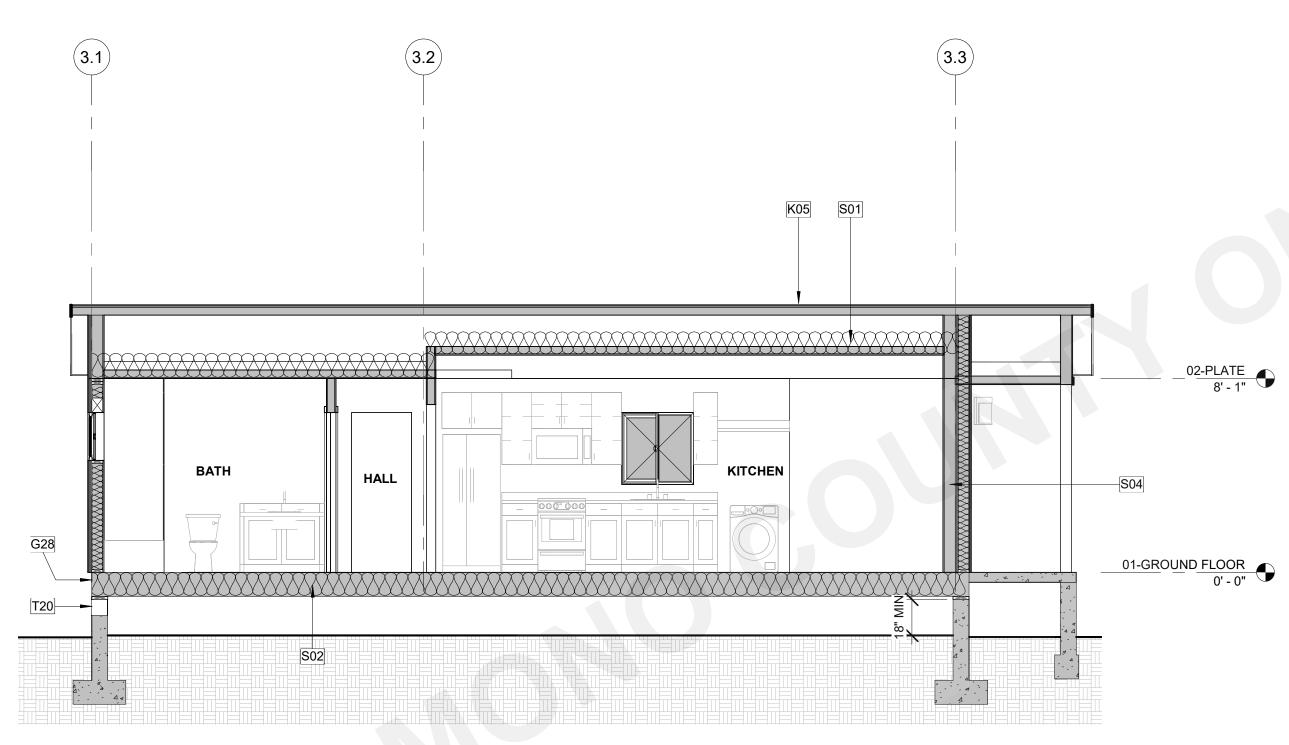


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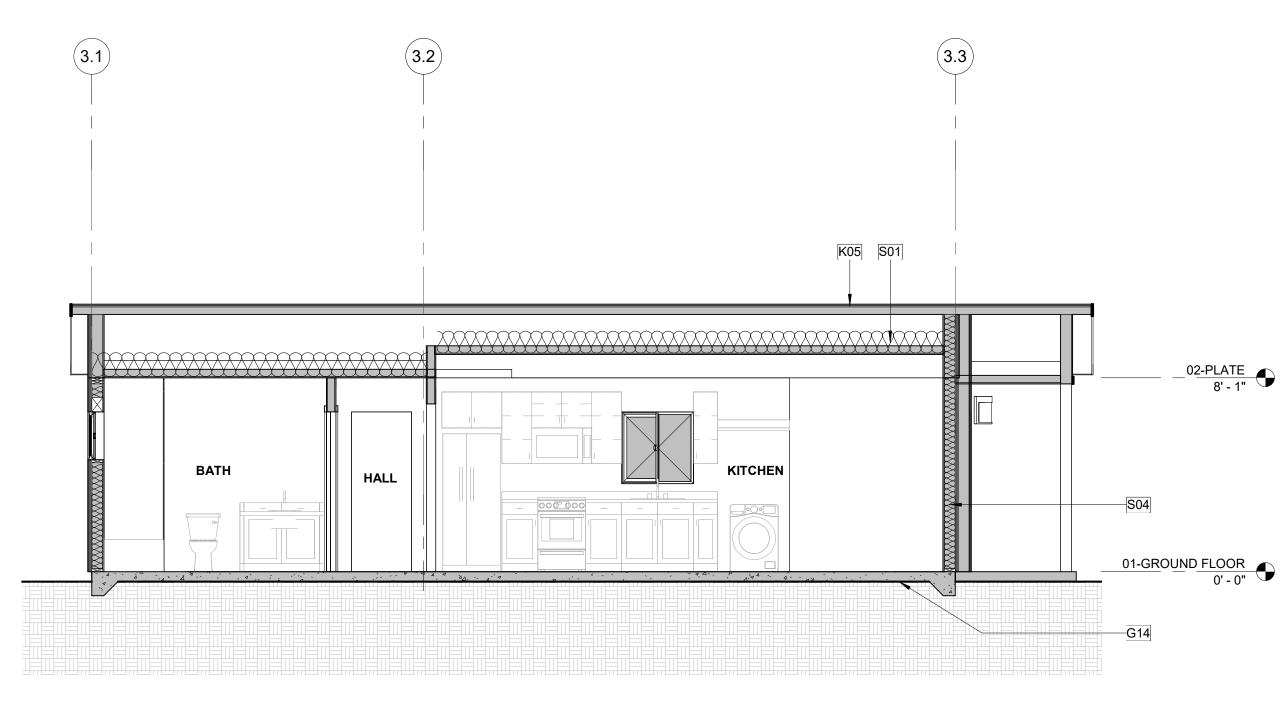
MONO COUNTY ADU PROTOTYPES MONO COUNTY	BUILDING SECTIONS - RURAL MOUNTAIN
DATE 01/10/2024 SHEET A3-	301

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2 PLAN 3 - HD - SECTION 2 - SLAB-ON-GRADE

A3-302 SCALE: 1/4" = 1'-0"

SECTIONS GENERAL NOTES

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- 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: 1. VERTICALLY AT CEILING AND FLOOR LEVELS 2. HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET.
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- 5. FOR THE FIREBLOCKING OF CHIMNEYS AND FIREPLACES, SEE SECTION R1003.19. 6. FIREBLOCKING OF CORNICES OF A TWO-FAMILY DWELLING IS
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- BACKED BY 0.75-INCH PARTICLE BOARD
- 5. ONE-HALF-INCH GYPSUM BOARD 6. ONE-FOURTH-INCH CEMENT-BASED MILLBOARD
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- 8. CELLULOSE INSULATION INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263, FOR THE SPECIFIC APPLICATION.
- PER 2022 CRC SECION R317 SLEEPERS AND SILLS ON A CONCRETE OR MASONRY SLAB THAT IS IN DIRECT CONTACT WITH GROUND, UNLESS SEPARATED BY AN IMPERVIOUS MOISTURE BARRIER SHALL BE NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD.

KEYNOTES

0' - 0"

G14	4" CONCRETE SLAB ON GRADE, REFER TO STUCTURAL PLANS
G28	RAISED FLOOR FOUNDATION. REFER TO STRUCTURAL.
K05	CORRUGATED METAL ROOF. CLASS A FIRE RATING
S01	CEILING INSULATION. REFER TO TITLE 24 (R-38 MIN.).
S02	HORIZONTAL FLOOR INSULATION. REFER TO TITLE 24 (R-19 MIN.).
S04	2X6 WALL INSULATION. REFER TO TITLE 24 (R-21 MIN.)
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T21	CRAWL SPACE ACCESS PANEL. MINIMUM 18" X 24" PER CBC 1209.1. LOCATION DETERMINED ON SITE PER CONTRACTOR.

FOUNDATION VENTING CALCS

PER 2022 CBC 1202.4, THE SPACE BETWEEN THE BOTTOM OF THE FLOOR JOISTS AND THE EARTH UNDER ANY BUILDING EXCEPT SPACES OCCUPIED BY BASEMENTS OR CELLARS SHALL BE PROVIDED WITH VENTILATION. REFER TO UNDER-FLOOR VENTING NOTES ON SHEET G-101 FOR ADDITIONAL INFORMATION.

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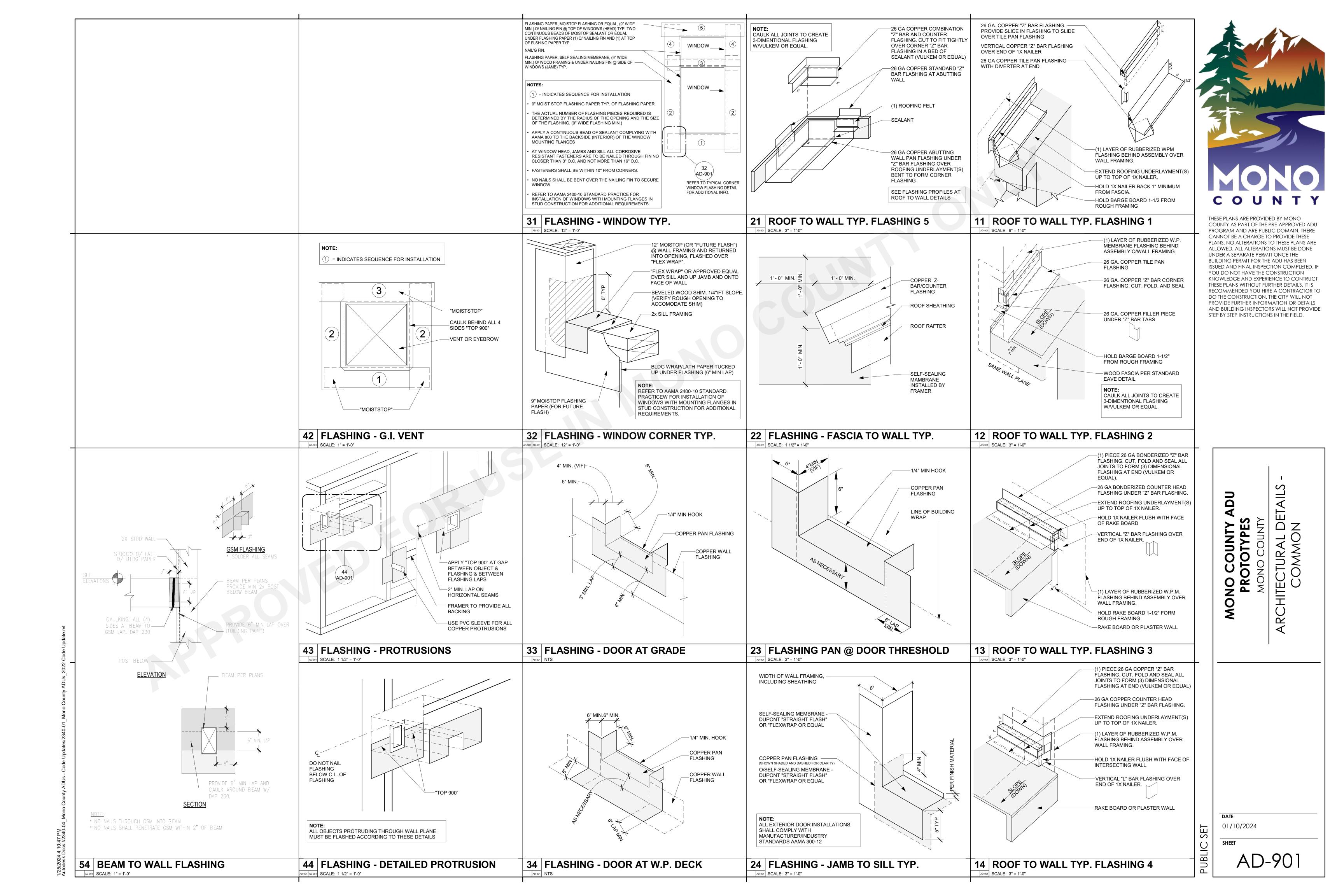
VENT PRODUCT INFO

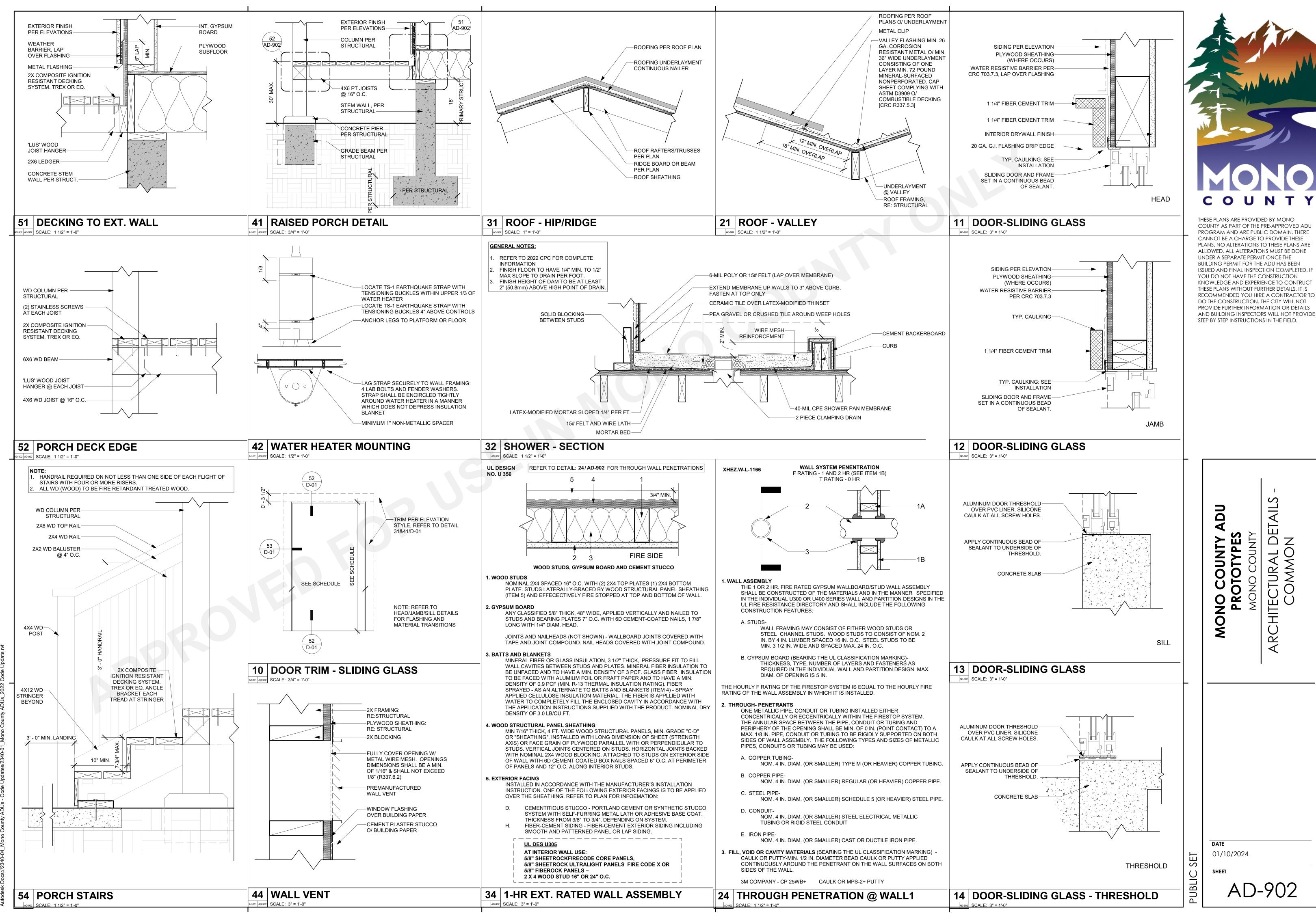
VENT MANUFACTURER: VULCAN VENTS PRODUCT: 8" X 14" FLANGE FRONT OR APPROVED EQUAL WWW.VULCANVENTS.COM

UNDER-FLOOP AREA (SF)	R FOUN	QUIRED NDATION IG @ 1/150		IDATION REQUIRED	-	OUNDATION
692 SF	4.615556		11		11	
					,	
		NG-PORCH- (
LOCATION	VENTIN BALCONY AREA (SF)		BALCONY		GTH	VENT LENGHT PROPOSED
LOCATION	BALCONY	REQUIRED	BALCONY		GTH	

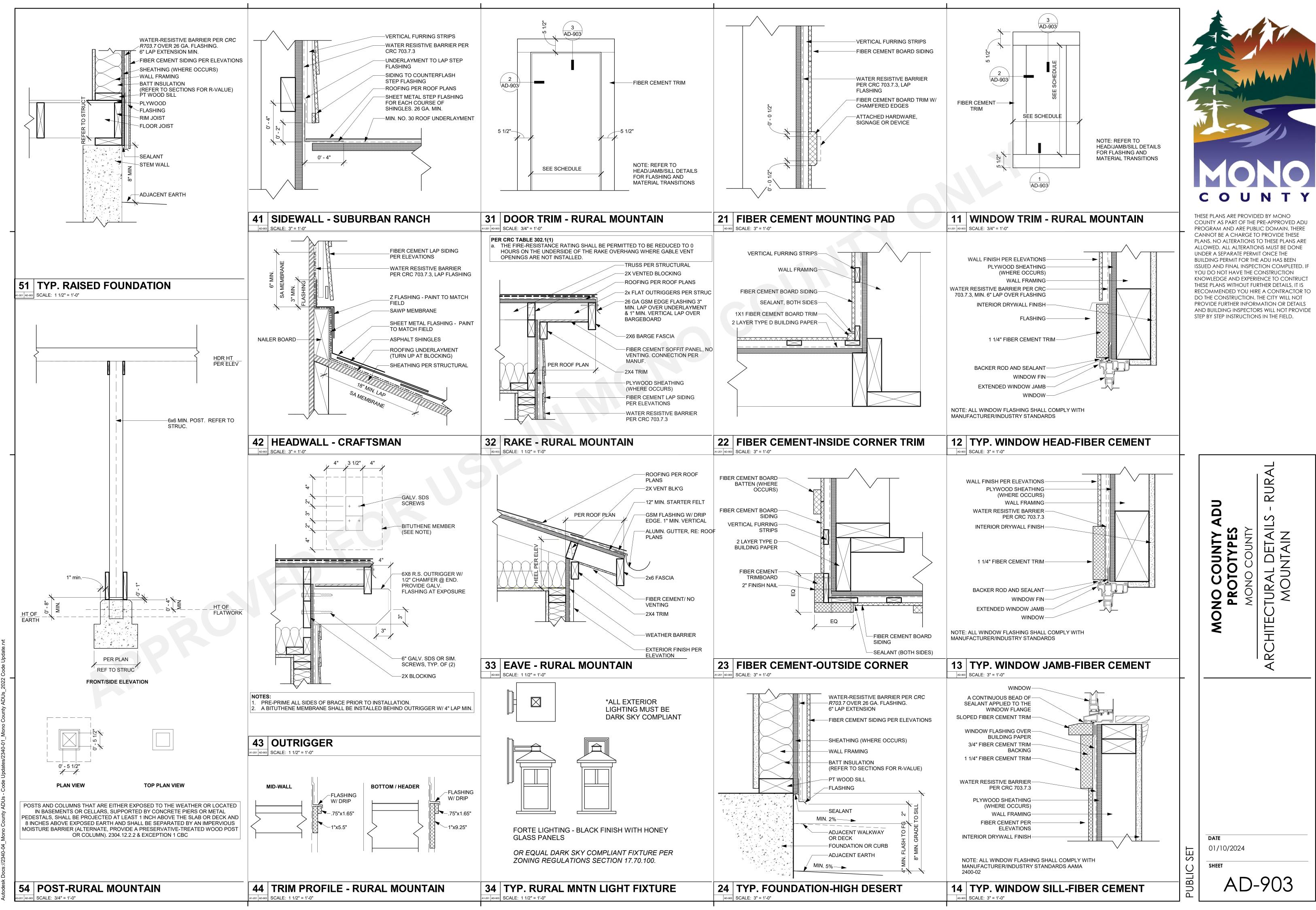


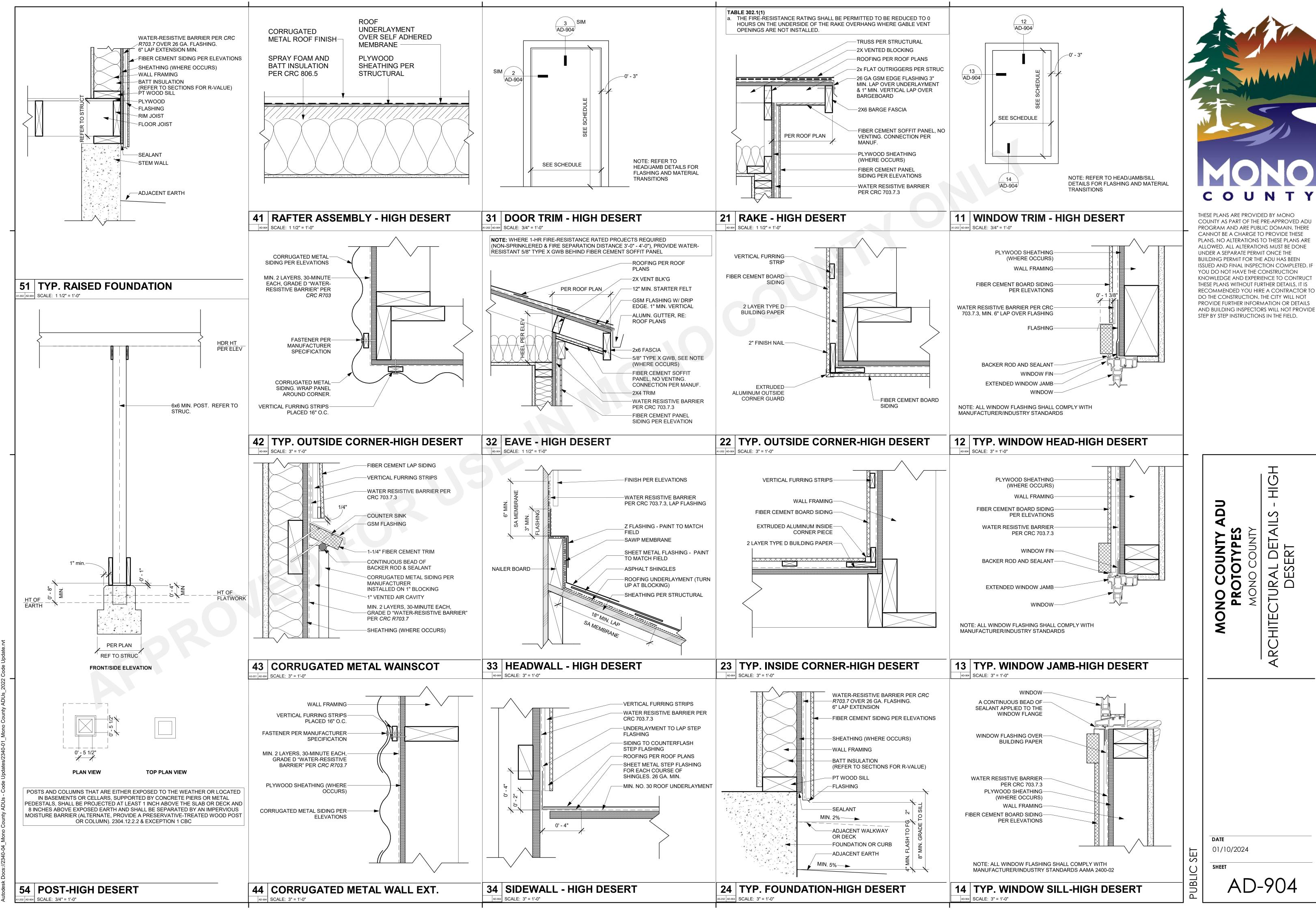
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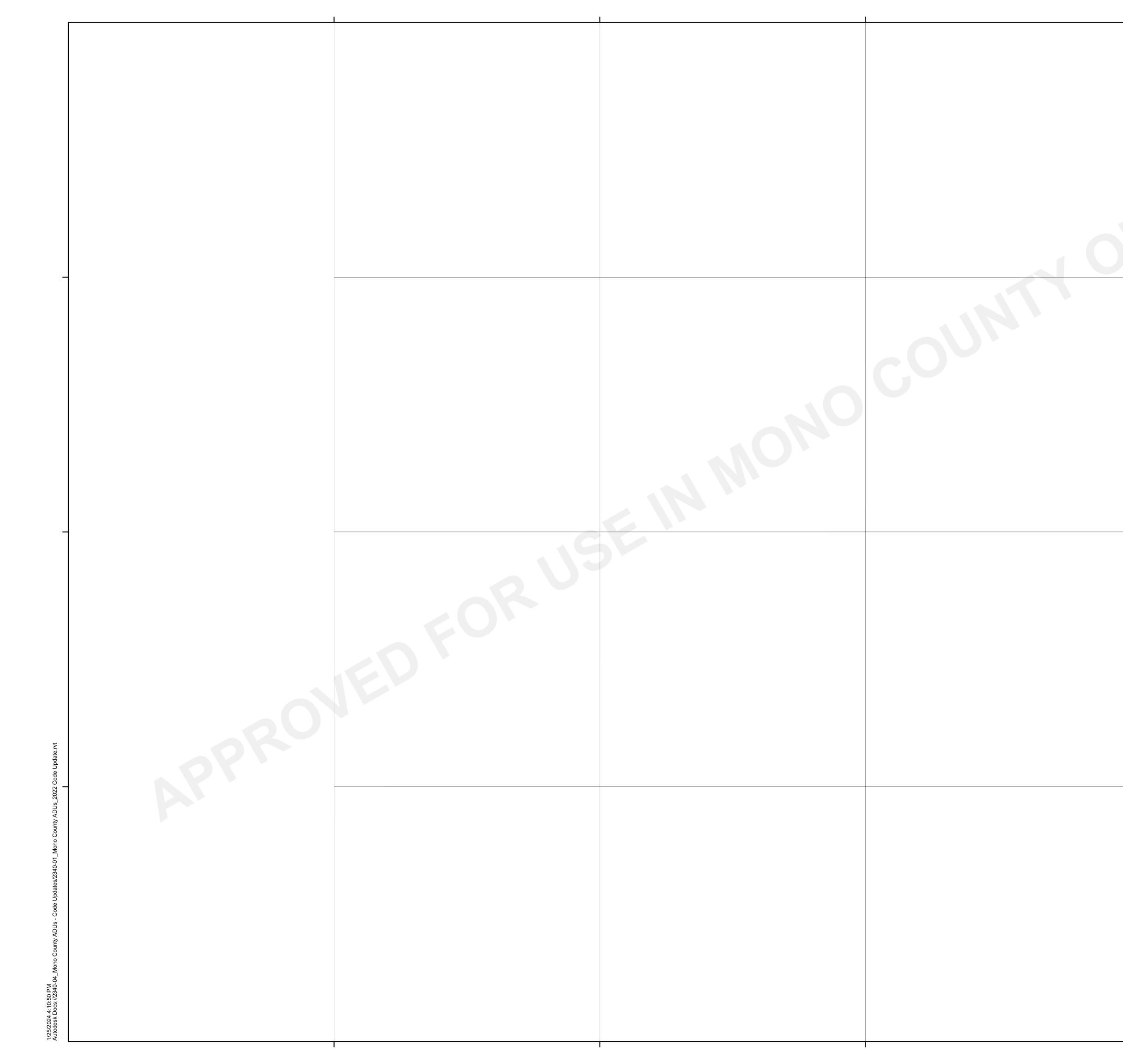


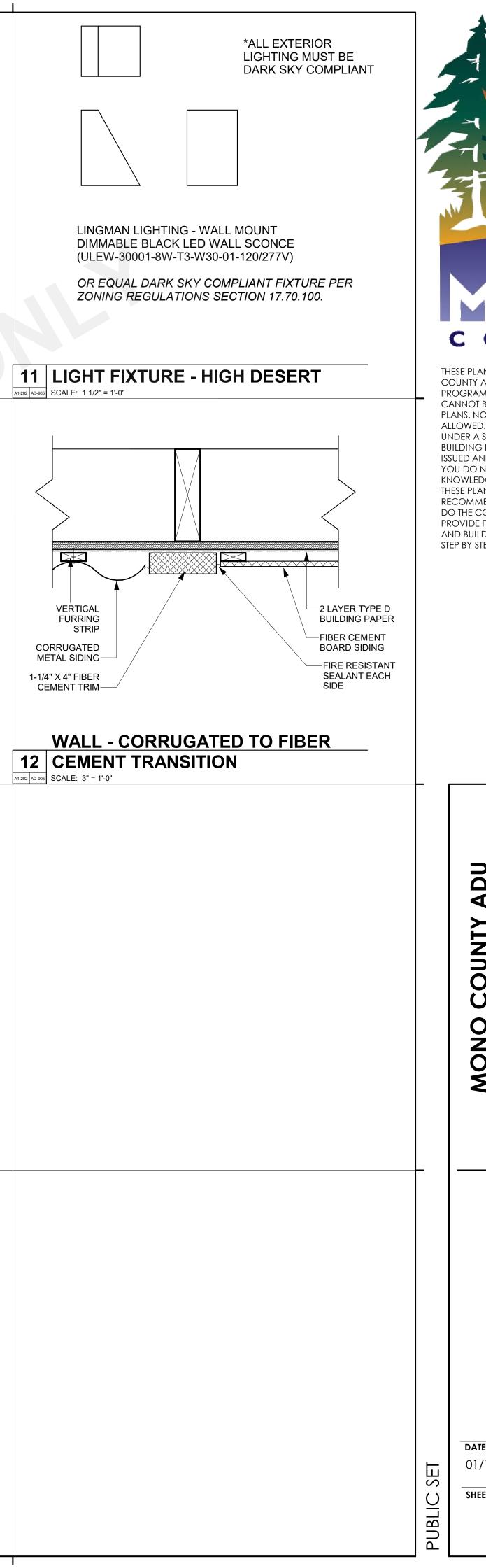
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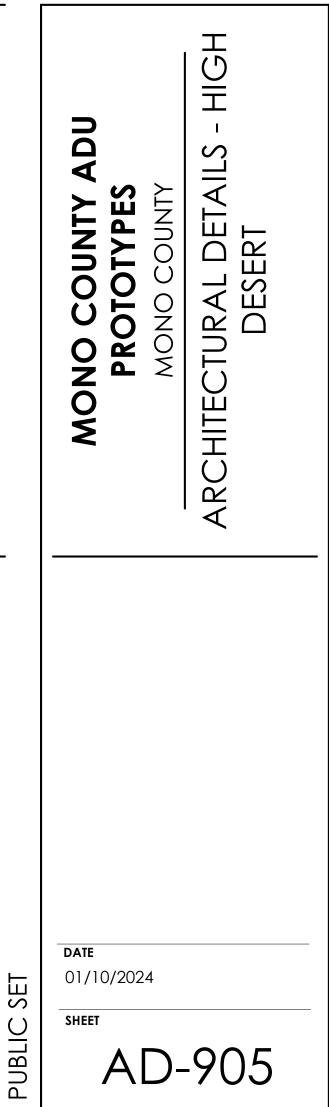


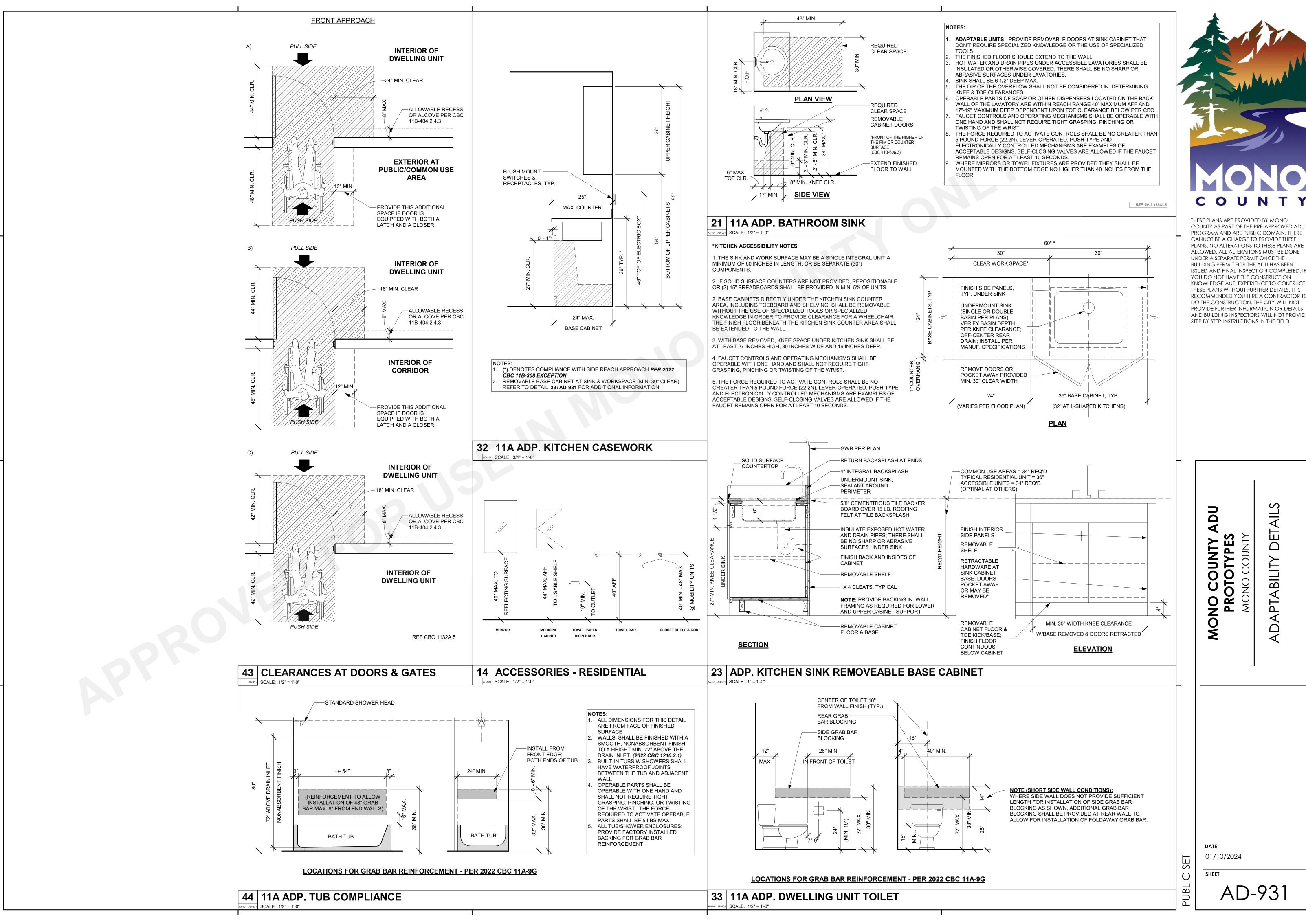
24 4:10:49 PM sk Docs://2340-04_Mono County ADUs - Code Updates/2340-01_Mono County ADUs_2022 Code |











ISSUED AND FINAL INSPECTION COMPLETED. IF KNOWLEDGE AND EXPERIENCE TO CONTRUCT THESE PLANS WITHOUT FURTHER DETAILS, IT IS RECOMMENDED YOU HIRE A CONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS AND BUILDING INSPECTORS WILL NOT PROVIDE

SYMBOLS

<u>-</u> S-	DETAIL REFERENCE BUBBLE WITH LEADER	XX'-X'' X	INDICATES SHEAR WALL TYPE AND LENGTH, PER SHEAR WALL SCHEDULE
	DETAIL REFERENCE BUBBLE		INDICATES SPAN AND DIRECTION OF PREFABRICATED ROOF TRUSS (BY OTH
—	FULL HEIGHT SECTION INDICATOR		INDICATES SPAN AND DIRECTION OF ROOF RAFTER OR FLOOR JOIST WITH V
	ELEVATION OF WALL OR FRAME	<u> </u>	INDICATES SPAN AND DIRECTION OF ROOF RAFTER OR FLOOR JOIST
		N N N	INDICATES EXTENTS OF FRAMING OR OTHER STRUCTURAL ELEMENT
			INDICATES HEADER @ OPENING PER HEADER SCHEDULE
	NORTH ARROW		EARTH LAYER
			INDICATES SAND OR GROUT
BOT OF EL = (-X'-X'')	TOP/BOTTOM OF ELEVATIONS		INDICATES GRAVEL
\longrightarrow	SLOPE		STEEL IN CROSS SECTION
			INDICATES BEARING WALL
<u> </u>	WELDED WIRE FABRIC (WWF LAYER)		SHADED AREA INDICATES CALIFORNIA FRAMING
777 777	STEPPED SURFACE; FLOOR DEPRESSION		SHADED AREA INDICATES FOOTPRINT OF FLOOR ABOVE
			STEEL HSS TUBE COLUMN
	SLOPED SURFACE	\bigcirc	STEEL HSS OR PIPE COLUMN
ဟ — ဟ	STEPPED FOOTING		WIDE FLANGE STEEL COLUMN
		\square	WOOD POST
89 89	BOTTOM STEPPED FOOTING		

A & B	ABOVE AND BELOW	
AB	ANCHOR BOLT	d
ABV	ABOVE	DBL
ACI	AMERICAN CONCRETE INSTITUTE	DEPT
ADDL	ADDITIONAL	DET
ADJ	ADJACENT	DF
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL	DIA OR Ø
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	DIAG
ALT	ALTERNATE	DIAPH
ALUM	ALUMINUM	DIM
ANCH	ANCHOR	DN
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	DWG
APA	ENGINEERED WOOD ASSOCIATION (FORMERLY THE	DWL
	AMERICAN PLYWOOD ASSOCIATION (FORMILLET THE	EA
APPVD	APPROVED	EF
APPROX	APPROXIMATE	EJ
ARCH	ARCHITECTURAL; ARCHITECT	EL
AWPA	AMERICAN WOOD PRESERVERS ASSOCIATION	ELEC
AWS	AMERICAN WELDING SOCIETY	ELEC
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION	EMBED
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	
BLDG	BUILDING	EN
BLK	BLOCK	ENGR
BLKG	BLOCKING	EQ
BM	BEAM	EQUIP
BN	BOUNDARY NAIL	ES
BOT OR B	BOTTOM	EW
BRC	BRACE	EXIST or (E)
BRG	BEARING	EXT
BTWN	BETWEEN	FDN
CANT	CANTILEVER	FIN
CAM OR C	CAMBER	FJ
CC	CENTER TO CENTER	FLG FLR
CG	CENTER OF GRAVITY	FN
CIP	CAST-IN-PLACE	FOC
CJ	CONSTRUCTION JOINT; CONTROL JOINT	FOM
CL	CENTER LINE	FOS
CLR	CLEARANCE; CLEAR	FOW
CMU	CONCRETE MASONRY UNIT	FRMG
COL	COLUMN	FT
COMP	COMPRESSION	FTA
COMP	CONCRETE	FTG
		GA
CONSTR	CONNECTION; CONNECT	GALV
CONSTR		GB
CONT	CONTINUE; CONTINUOUS	GLB
CONTR	CONTRACTOR	GR
CJP	COMPLETE JOINT PENETRATION WELD	GRND
CTR	CENTER	H or HORIZ
CTSK	COUNTERSINK; COUNTERSUNK	HDR
CU FT	CUBIC FOOT	

PENNY (NAIL OR BAR DIA) DOUBLE DEPARTMENT DETAIL DOUGLAS FIR/LARCH DIAMETER DIAGONAL DIAPHRAGM DIMENSION DOWN DRAWING DOWEL EACH EACH FACE **EXPANSION JOINT** ELEVATION ELECTRICAL ELEVATOR EMBEDMENT EDGE NAIL ENGINEER EQUAL OR EQUIVALENT EQUIPMENT EACH SIDE EACH WAY EXISTING EXTERIOR FOUNDATION FINISH FLOOR JOIST FLANGE FLOOR FIELD NAIL FACE OF CONCRETE FACE OF MASONARY FACE OF STUD FACE OF WALL FRAMING FOOT; FEET FLOOR TIE ABOVE FOOTING GAUGE GALVANIZED GRADE BEAM GLUED LAMINATED BEAM GRADE GROUND HORIZONTAL HEADER

WALL TYPES

ALL SCHEDULE	X	INDICATES TOP PLATE SPLICE NAILING PER SCHEDULE
of truss (by others)		INDICATES SHEAR WALL STRAP / HOLDOWN TYPE PER SCHEDULE
	F1	INDICATES PAD FOOTING TYPE PER SCHEDULE
OOR JOIST WITH WEB STIFFENER	C1	INDICATES CONTINUOUS FOOTING TYPE PER SCHEDULE
	↔ →	ANGLE BRACE
.OOR JOIST	(2L) ↔	DOUBLE ANGLE BRACE
ELEMENT	•	DRAG STRUT CONNECTION
	♦	FULL HEIGHT STIFFENER CONNECTION
	→	MOMENT CONNECTION
	⊥ T	MEMBER SPLICE
	(+3")	TOP OF STEEL ± ELEVATION
	[X]	NUMBER OF EVENLY SPACED SHEAR STUDS
	[X-Y-Z]	SPECIAL STUD SPACING SEE TYPICAL STEEL DETAILS
	<3/4>	BEAM CAMBER AT MID-SPAN

HGR	HANGER
HP	HIGH POINT
HSH	HORIZONTALLY SLOTTED HOLES
HT	HEIGHT
ID	INSIDE DIAMETER
IF	INSIDE FACE
I-JST	I-JOIST
IN	INCH
INCL	INCLUDE
INFO	INFORMATION
INSP	INSPECTION
INT	INTERIOR
JST	TRIOL
JT	JOINT
K	KIPS
KS	KING STUD
KP	KING POST
KSI	KIPS PER SQUARE INCH
LB(S) OR #	POUND(S)
LF	LINEAL FOOT
LIN	LINEAL; LINEAR
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LSH	LONG SLOTTED HOLES
LSL	LAMINATED STRAND LUMBER
LT WT	LIGHTWEIGHT
LVL	LEVEL OR LAMINATED VENEER LUMBER
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM; MINUTE
MISC	MISCELLANEOUS
(N)	NEW
N	NORTH
NO or #	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
ОН	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ORIG	ORIGINAL
OSB	ORIENTED STRAND BOARD
000	OKIENTED STRAIND BOARD

trana a	- INDICATES PLYWOOD SIDE FOR SHEARWALL
⊨−−− {:::::}	INDICATES BEARING WOOD WALL ABOVE
ł	INDICATES NON-BEARING WOOD WALL BELOW
	INDICATES NON-BEARING WOOD WALL ABOVE
<u></u> ↓	INDICATES EXISTING BEARING WOOD WALL
<u></u> ↓ 	INDICATES EXISTING NON-BEARING WOOD WALL
	INDICATES BEARING CMU WALL BELOW
<i> </i>	INDICATES BEARING CMU WALL ABOVE
	INDICATES NON-BEARING CMU WALL BELOW
[]]]]	INDICATES NON-BEARING CMU WALL ABOVE
	INDICATES EXISTING BEARING CMU WALL
<i>[</i>]	INDICATES EXISTING NON-BEARING CMU WALL
	INDICATES BEARING CONCRETE WALL BELOW
	INDICATES BEARING CONCRETE WALL ABOVE
	INDICATES NON-BEARING CONCRETE WALL BELOW
	INDICATES NON-BEARING CONCRETE WALL ABOVE
	INDICATES EXISTING BEARING CONCRETE WALL
	INDICATES EXISTING NON-BEARING CONCRETE WALL

PA	POST ABOVE
PARA OR //	PARALLEL
PC	PRECAST; PIE
PERP	PERPENDICU
PI	PLYWOOD IN
PLOR PL.	PLATE
PL	PROPERTY LIN
PLF	PONDS PER L
PLCS	PLACES
PLY	PLYWOOD
PROP	PROPERTY
PT	PRESSURE TRE
PW	PLATE WASHE
РЈР	PARTIAL JOIN
PREFAB	PREFABRICAT
PSF	POUNDS PER
PSI	POUNDS PER
PSL	PARALLEL STR
PVMT	PAVEMENT
#	POUND; NUM
REF	REFERENCE
REINF	REINFORCE; F
REQD	REQUIRED
RF	ROOF
RR	ROOF RAFTER
Ø	ROUND; DIAM
SCHED	SCHEDULE
SECT	SECTION
SEP	SEPARATION
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SOG	SLAB ON GR/
SN	SHEAR NAIL
SPCG	SPACING
SPECS	SPECIFICATIO
SQ	SQUARE
SS	STAINLESS STE
SSL	SHORT SLOTT
STD	STANDARD
STGR	STAGGER
STIFF	STIFFENERS
STIRR	STIRRUP
STL	STEEL
STRUCT	STRUCTURAL
SW	SHEAR WALL
SYM	SYMMETRICA
TB	TIE REAM

TB

SHEET INDEX

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S3-201B	FOUNDATION PLANS - RAISED FLOOR
S3-202A	ROOF PLANS - HIGH DESERT
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S-311	CONCRETE DETAILS
S-312	CONCRETE DETAILS
S-313	CONCRETE DETAILS
S-401	TYPICAL WOOD DETAILS
S-402	TYPICAL WOOD DETAILS
S-403	TYPICAL WOOD DETAILS
S-404	TYPICAL WOOD DETAILS

S-421 ROOF FRAMING DETAILS ROOF FRAMING DETAILS S-422

Т&В	TOP AND BOTTOM
T&G	TONGUE & GROOVE
TO	TOP OF
TOC	TOP OF CURB; TOP OF CONCRETE
TOF	TOP OF FOOTING
TEMP	TEMPERATURE; TEMPORARY
THRU	THROUGH
ТНК	THICKNESS/THICK
THR	THREADED
TOP or T	TOP
TOS	TOP OF STEEL/TOP OF SLAB
TOW	TOP OF WALL
TS	TRIMMER STUD
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UT	ULTRA-SONIC TEST
VERT	VERTICAL
VSH	VERTICAL SLOTTED HOLES
W/	WITH
W/O	WITHOUT
WO	WHERE OCCURS
WD	WOOD
WP	WORK POINT; WATERPROOF
WWF	WELDED WIRE FABRIC
STRUCTURAL STEEL S	SHAPES
W	W SHAPE
С	AMERICAN STD CHANNEL SHAPE
MC	MISC CHANNEL SHAPE
	ANGLE SHAPE
WT, ST, MT	STRUCT TEE SHAPE
	STANDARD PIPE SHAPE
PIPE-X PIPE-XX	EXTRA STRONG PIPE SHAPE DBL EXTRA STRONG PIPE SHAPE
F IF L-AA	DDL LATKA STRUING FIFE SHAPE

HOLLOW STRUCTURAL SECTION

HSS



THESE PLANS ARE PROVIDED BY MONO COUNTY AS PART OF THE PRE-APPROVED ADU PROGRAM AND ARE PUBLIC DOMAIN. THERE CANNOT BE A CHARGE TO PROVIDE THESE PLANS. NO ALTERATIONS TO THESE PLANS ARE ALLOWED. ALL ALTERATIONS MUST BE DONE UNDER A SEPARATE PERMIT ONCE THE BUILDING PERMIT FOR THE ADU HAS BEEN ISSUED AND FINAL INSPECTION COMPLETED. IF YOU DO NOT HAVE THE CONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONTRUCT THESE PLANS WITHOUT FURTHER DETAILS, IT IS RECOMMENDED YOU HIRE A CONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS AND BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.

SHEET INDEX, ABBREVIATIONS & SYMBOLS ADU MONO COUNTY A PROTOTYPES MONO COUNTY DATE NOVEMBER 20, 2023 SHEET

S-101

WOOD (GENERAL)

PRESERVATIVE TREATMENT:

- A. WOOD MEMBERS SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH AITC 109-07, STANDARD FOR PRESERVATIVE TREATMENT, BASED ON THE SERVICE CONDITION PER THE USE CATEGORIES (UC#) SPECIFIED IN AWPA U1-06.
- a. UC1 INTERIOR CONSTRUCTION, ABOVE GROUND, DRY NO PRESERVATIVE TREATMENT REQUIRED b. UC2 - INTERIOR CONSTRUCTION, ABOVE GROUND, WET - PRESERVATIVE TREATMENT REQUIRED IF THE
- HUMIDITY OR MOISTURE CONDENSATION IS 20% OR GREATER. c. UC3 - EXTERIOR CONSTRUCTION ABOVE GROUND - PRESERVATIVE TREATMENT REQUIRED.

FOR ALL TREATED WOOD MEMBERS, ALL CUTS, HOLES AND INJURIES SUCH AS ABRASIONS OR HOLES FROM REMOVAL OF NAILS AND SPIKES WHICH MAY PENETRATE THE TREATED ZONE SHALL BE FIELD TREATED IN ACCORDANCE WITH AWPA M4-06. THE FOLLOWING FIELD TREATMENTS SHALL BE USED: a. BORED HOLES: HOLES FOR CONNECTORS OR BOLTS MAY BE TREATED BY PUMPING COAL TAR ROOFING CEMENT MEETING ASTM D5643 INTO HOLES USING A GREASE GUN OR SIMILAR DEVICE

b. EXTERIOR: COPPER NAPHTHENATE C. INTERIOR: INORGANIC BORON PRESERVATIVES LIMITED TO USE IN APPLICATIONS NOT IN CONTACT WITH GROUND AND CONTINUOUSLY PROTECTED FROM LIQUID WATER

SAWN LUMBER

SAWN LUMBER PROPERTIES					
USE	SIZE SPECIES GRADE		GRADE	REFERENCE	
	2 X 4	D.F.	STANDARD OR BETTER PRESSURE TREATED		
MUDSILLS	2 X 6 AND LARGER	D.F.	NO. 2 OR BETTER PRESSURE TREATED	2022 CBC 2303.1.9	
	2 X	REDWOOD	FOUNDATION GRADE		
	HORIZONTAL FRA	MING LUMBE	R	1	
ROOF JOISTS AND RAFTERS	2 x	D.F.	NO. 2		
	2 X	D.F.	NO. 2		
	4 X	D.F.	NO. 2	WCLIB & WWPA	
	4 X 4 AND SMALLER	D.F.	NO. 2		
ANY OTHER HORIZONTAL	6 X 6 AND LARGER	D.F.	NO. 1		
	VERTICAL FRAM	NING LUMBER	•	•	
TOP PLATES	2 X	D.F.	NO. 2		
STUDS	2 X 4 & 3 X 4	D.F.	STUD		
STUDS	2 X 6 & 2 X 8	D.F.	NO. 2	WCLIB & WWPA	
POSTS	4 X 4 & 4 X 6 POSTS	D.F.	NO. 2		
10313	6 X 6 & LARGER POSTS	D.F.	NO. 1		
	ALL OTHER_FRA	MING LUMBER	<u>}</u>	1	
ALL OTHER FRAMING LUMBER	, ALL SIZES	D.F.	STANDARD & BETTER	WCLIB & WWPA	

2. FLOOR JOISTS SHALL BE GRADE STAMPED "S-DRY" WHICH INDICATES A MOISTURE CONTENT NOT EXCEEDING 19 PERCENT.

- ALL SOLE PLATES AND TOP PLATES SHALL BE GRADE STAMPED "KD" WHICH INDICATES KILN DRIED WITH A MOISTURE CONTENT NOT EXCEEDING 15 PERCENT.
- 4. STUD WALLS SHOWN ON PLANS ARE NONBEARING PARTITIONS WALLS, BEARING WALLS OR SHEAR WALLS BELOW THE FRAMING LEVEL, UNLESS NOTED OTHERWISE. STUDS SHALL BE SIZE AND SPACING AS NOTED IN THE DRAWINGS, SEE PLANS AND ARCHITECTURAL DRAWINGS. UNLESS OTHERWISE NOTED.
- MINIMUM FRAMING NAILING SHALL CONFORM TO CBC TABLE 2304.10.1. ALL NAILS SHALL BE COMMON WIRE NAILS. PREDRILL NAIL HOLES TO 70% OF NAIL SHANK DIAMETER WHERE NAILING TENDS TO SPILT WOOD.
- 6. UNLESS OTHERWISE NOTED, ALL WOOD SILL PLATES UNDER BEARING, EXTERIOR, OR SHEAR WALLS IN CONTACT WITH CONCRETE OR MASONRY SHALL BE BOLTED TO THE CONCRETE OR MASONRY WITH 5/8" Ø X 12" BOLTS W/ 0.229" X 3" X 3" PLATE WASHER (GALV) AT 4'-O" O.C. BEGINNING AT 9" O.C. MAXIMUM FROM EACH END OF THE PLATES. THE BOLTS SHALL EXTEND A MINIMUM OF 7" INTO THE CONCRETE OR MASONRY. (POWDER DRIVEN PINS AT 1/3 OF THE BOLT SPACING OR 24" O.C. MAXIMUM MAY BE SUBSTITUTED FOR THE ANCHOR BOLTS AT INTERIOR NON-SHEAR WALLS ONLY).
- ALL LUMBER IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED LUMBER WITH AWPA TREATMENT C2 USING EITHER ALKALINE QUAT (ACQ TYPE B AND D), COPPER AZOLE (CBA-A, CA-B), OR SODIUM BORATES (SBX). ANCHOR BOLTS, FASTENERS, AND METAL FRAMING CONNECTORS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT-DIPPED GALVANIZED TO A RATING OF G-185 PER ASTM A653.
- PROVIDE 2 STUDS UNDER ALL 4 X 10 AND LARGER BEAMS OR HEADERS AT SPANS 6 FEET OR LONGER, UNLESS OTHERWISE NOTED, WHERE POSTS OR MULTIPLE STUDS UNDER BEAMS OR HEADERS ARE CALLED FOR ON DRAWINGS THOSE POSTS OR MULTIPLE STUDS SHALL BE CARRIED TO THE FOUNDATION/PODIUM LEVEL.
- 9. PROVIDE THE FOLLOWING BLOCKING AS A MINIMUM, UNLESS SHOWN OTHERWISE: 2" X FULL DEPTH SOLID BLOCKING BETWEEN JOISTS OVER SUPPORT. 2" X FULL DEPTH SOLID BLOCKING BETWEEN JOISTS OVER AND BELOW PARTITION WALLS.
- 10. DOUBLE JOISTS UNDER PARTITIONS RUNNING PARALLEL TO JOISTS, UNLESS SUPPORTED BY A WALL BELOW OR SHOWN OTHERWISE. NAIL DOUBLED JOISTS WITH 16D AT 12" O.C., STAGGERED.
- 11. BRIDGING SHALL BE 2 X SOLID BLOCKS, INSTALLED AS FOLLOWS: ROOF JOISTS MORE THAN 10" DEPTH, 8'-O" O.C. MAXIMUM, NOT MORE THAN 8'-0' FROM SUPPORT. FLOOR JOISTS MORE THAN 10" DEPTH, 8'-O" O.C. MAXIMUM, NOT MORE THAN 8'-O' FROM SUPPORT.
- 12. JOIST HANGERS AND OTHER METAL FRAMING ACCESSORIES ARE REFERRED TO ON PLANS BY PARTICULAR TYPE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, STOCKTON, CALIFORNIA. ACCESSORIES OF OTHER MANUFACTURE WITH EQUIVALENT LOAD CARRYING CHARACTERISTICS MAY BE USED.
- 13. FIRE STOPPING, BACKING FOR INTERIOR FINISHES, NONBEARING WALLS, AND OTHER NON-STRUCTURAL FRAMING ARE NOT NECESSARILY SHOWN ON STRUCTURAL DRAWINGS.

HARDWARE AND CONNECTORS

USE ALL SPECIFIED FASTENERS AS SPECIFIED ON PLANS. IF NOT INDICATED ON PLANS PROVIDE FASTENERS PER MFR'S APPROVED ICC-ESR REPORT OR PRODUCT LITERATURE

- DO NOT OVER TIGHTEN NUTS ON TIE-DOWN ANCHOR RODS OR BOLTS. TIGHTEN ANCHOR ROD NUTS ONE-THIRD TO ONE HALF TURN BEYOND FINGER TIGHT
- 2. INSTALL ALL HOLDOWNS TIGHT TO END STUDS/POST, DO NOT USE FILLER BLOCKS. FOR MISALIGNED ANCHOR BOLTS, EXTEND THE ANCHOR ROD AT A 1:6 (HORIZ/VERT) USING A COUPLER WITH EQUIVALENT ANCHOR ROD AND INSTALL THE HOLDOWN HIGHER ON END STUD / POST
- FOR HOLDOWNS THAT BOLT TO END POSTS, INSTALL THE HEAD OF THE BOLT TO THE BRACKET SIDE, AND ON THE SIDE OPPOSITE THE BRACKET, INSTALL A WASHER BETWEEN THE NUT AND THE STUD / POSTS

TIE DOWN & COLLECTOR STRAPS:

- TIE DOWN AND COLLECTOR STRAPS SHALL BE INSTALLED STRAIGHT AND TRUE. DO NOT FOLD, BEND, KINK OR OTHERWISE ALTER CONNECTOR STRAPS
- INSTALL TIE DOWN STRAPS DIRECT TO POST IN LIEU OF OVER SHEATHING. STRAPS MAY BE INSTALLED ON THE UNSHEATHED SIDE OF THE END STUDS / POSTS

REINFORCING STEEL

- REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 19 OF THE CODE AND WITH THE PROVISIONS OF ACI 318-19, ASTM A706, GRADE 60 UNO. ASTM A615 GR 60 STEEL MAY BE SUBSTITUTED FOR ASTM A706 GR60 STEEL PER ACI 318-19 SECTION 20.2.2.5 PROVIDED THE FOLLOWING CONDITIONS ARE MET:
- A. THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED THE SPECIFIED YIELD STRENGTH BY
- MORE THAN 18,000 PSI. B. THE RATIO OF THE ACTUAL ULTIMATE TENSILE STRESS TO THE ACTUAL YIELD STRENGTH IS NOT LESS THAN
- C. WHERE REINFORCEMENT COMPLYING WITH ASTM A615 IS TO BE WELDED, CHEMICAL TESTS SHALL BE
- PERFORMED TO DETERMINE WELDABILITY IN ACCORDANCE WITH SECTION 26.6.4 OF ACI 318-19.
- 2. BARS SHALL BE CLEAN OF RUST, GREASE, OR OTHER MATERIALS LIKELY TO IMPAIR BOND. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- 3. WELDED WIRE REINFORCEMENT (WWR), PLAIN OR DEFORMED, SHALL CONFORM TO ASTM A185. WELDED DEFORMED WIRE REINFORCEMENT (WWR) SHALL CONFORM TO ASTM A1064. ALL WWR FOR STAIR PANS AND ALL WWR FOR CONCRETE FILL ON METAL DECK TO BE PLAIN WWR. PROVIDE LAPS PER ACI 318-19 SECTION 25.5.3 OR 25.5.4 MINIMUM. WWR SHALL BE SUPPORTED ON APPROVED CHAIRS.
- REINFORCING BAR LAP SPLICES SHALL BE MADE AS INDICATED ON THE DRAWINGS. LAP ALL HORIZONTAL BARS AT CORNERS AND INTERSECTIONS. STAGGER ALL SPLICES UNLESS NOTED OTHERWISE ON PLANS.
- A. MINIMUM LAP SPLICE LENGTH FOR REINFORCING STEEL BARS IN CONCRETE SHALL BE PER ACI 318-19 SECTION 25.5.2 AND THE REINFORCING SCHEDULE ON THE DRAWINGS.
- B. MINIMUM LAP SPLICE LENGTH FOR REINFORCING STEEL BARS IN MASONRY SHALL BE PER ACI 530-13 SECTION 8.1.6.7.1 OR 9.3.3.4 AND THE REINFORCING SCHEDULE ON THE DRAWINGS.
- 5. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION IS MADE. ALL REINFORCING CONFORMING TO DIFFERING ASTM SPECIFICATIONS AND/OR OF DIFFERING GRADES SHALL BE CLEARLY MARKED TO DIFFERENTIATE THEM FROM OTHER REINFORCING STEEL IF CONCURRENTLY PRESENT ON SITE.
- 6. WHERE WELDING OF REINFORCING IS APPROVED BY THE STRUCTURAL ENGINEER, IT SHALL BE DONE BY AWS CERTIFIED WELDERS USING E80XX OR APPROVED ELECTRODES. WELDING PROCEDURES SHALL CONFORM TO THE REQUIREMENTS OF STRUCTURAL WELDING CODE- REINFORCING STEEL", AWS-D1.4-15. REINFORCING BARS TO BE WELDED SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706.
- REINFORCING STEEL SHALL BE ACCURATELY PLACED AND ADEQUATELY SUPPORTED BEFORE THE CONCRETE IS PLACED AND SHALL BE SECURED AGAINST DISPLACEMENT DURING CONSTRUCTION WITHIN PERMITTED TOLERANCES. ADEQUATE SUPPORTS ARE ALSO NECESSARY TO KEEP THE REINFORCING STEEL AT THE PROPER DISTANCE FROM THE FORMS. USE WIRE BAR SUPPORTS, PRECAST CONCRETE SUPPORTS, SPACERS, BOLSTERS, REINFORCEMENT OR OTHER MEANS OF SUPPORT PER THE "CRSI MANUAL OF STANDARD PRACTICE", LATEST FDITION.
- REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE "CRSI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", LATEST EDITION.
- 9. COMPLETE AND DETAILED REINFORCING PLACEMENT DRAWINGS SHALL BE PREPARED AND SUBMITTED TO THE ARCHITECT FOR APPROVAL BY THE SEOR PRIOR TO FABRICATION IN ACCORDANCE WITH THE SPECIFICATIONS AND APPLICABLE CODES. THESE DRAWINGS SHALL BE AVAILABLE ON THE JOB SITE PRIOR TO PLACING OF CONCRETE. THE REINFORCING PLACEMENT DRAWINGS SHALL INCLUDE ALL PRIMARY REINFOREMENT, LAP SPLICES, TIES, DOWELS, HEADED U-DOWELS, EMBED PLATES, ANCHOR BOLTS, ETC. AREAS OF CONGESTION SHALL BE DETAILED SUFFICIENTLY TO DEMONSTRATE THAT PLACEMENT OF REBAR MEETS SPACING REQUIREMENTS OF ACI 318-19.
- WHEN REQ'D, INSPECTION OF CONCRETE SHALL INCLUDE INSPECTION DURING INSTALLATION OF REINFORCING STEEL. INSPECTION SHALL BE SCHEDULED SO THAT PLACEMENT OF REINFORCING STEEL, CONDUIT, SLEEVES, AND EMBEDDED ITEMS MAY BE CORRECTED PRIOR TO PLACEMENT OF OVERLYING GRIDS OR REINFORCING STEEL.
- 11. CONCRETE PROTECTION FOR REINFORCEMENT
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR
- REINFORCEMENT IN CAST-IN-PLACE CONCRETE (NON-PRESTRESSED):
- CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH CONCRETE EXPOSED TO EARTH OR WEATHER: NO.6 THROUGH NO. 18 BAR NO.5 BAR, W31 OR D31 WIRE & SMALLER
- CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, JOISTS: NO.14 AND NO.18 BARS
 - NO.11 BAR & SMALLER
- BEAMS, COLUMNS: PRIMARY REINFORCEMENT TIES, STIRRUPS, SPIRALS
- 12. MECHANICAL BAR SPLICE CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ACI 318-19 SECTION 25.5.7 USE OF MECHANICAL CONNECTIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. SPLICES MUST BE TESTED AS INDICATED IN THE CONCRETE REINFORCEMENT SPECIFICATION. ACCEPTABLE PRODUCTS INCLUDE:
 - LENTON STANDARD COUPLERS (IAPMO-ES 0129) LENTON FORM SAVERS, TYPE SA (IAPMO-ES 0129) LENTON WELDABLE HALF COUPLERS (IAPMO-ES 0129)

LENTON LOCK COUPLERS PER (IAPMO-ES 0129)

NOTE THAT REBAR ATTACHED TO PLATE USING LENTON WELDABLE HALF COUPLERS SHALL BE ASTM A706 PER IAPMO-ES 0129.

ALL MECHANICAL BAR SPLICE CONNECTIONS IN SPECIAL STRUCTURAL WALLS, SPECIAL MOMENT FRAMES AND CONCRETE DIAPHRAGMS SHALL BE TYPE 2 CONFORMING TO THE REQUIREMENTS OF ACI 318-19 SECTION 18.2.7 & 18.12.7.4

MINIMUM COVER, IN.	
3	
2	
$1 \frac{1}{2}$	
1 ½" 3¼"	

1 //"

- CONCRETE
- ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19 OF THE CODE AND WITH THE PROVISIONS OF ACI 318-19.
- 2. CONCRETE MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

MATERIAL	ASTM STANDARD
PORTLAND CEMENT (TYPE II) ^A	C150
CONCRETE AGGREGATES (HARDROCK)	C33
WATER ^B	C1602
COAL FLY ASH OR POZOLLAN (CLASS F)	C618
NATURAL OR MANUFACTURED SAND	C33
SLAG	C989

- A. FOR SOILS WITH HIGH CONCENTRATIONS OF SULFATES (EXPOSURES S2 OR S3 PER ACI 318-19 TABLE 19.3.2.1) PORTLAND CEMENT SHALL BE TYPE V. VERIFY WITH PROJECT GEOTECHNICAL REPORT.
- B. WATER SHOULD ONLY BE ADDED AT THE BATCH PLANT. IN NO CASE SHALL THE DESIGN WATER/ CEMENT RATIO BE EXCEEDED.
- 3. CONCRETE MIXES SHALL BE PROPORTIONED BASED ON SECTION 26.4.3 OF ACI 318-19, WHICH REFERENCES ACI 301-10 ARTICLE 4.2.3. MIX DESIGNS SHALL INCLUDE DOCUMENTATION OF MIX AVERAGE COMPRESSIVE STRENGTH THROUGH FIELD TEST DATA OR TRAIL MIXTURES IN ACCORDANCE WITH ACI 301-10 ARTICLE 4.2.3.4. SCHEDULE OF STRUCTURAL CONCRETE STRENGTHS AND LOCATIONS (UNO):

LOCATION IN STRUCTURE	MINIMUM STRENGTH (PSI)*	DENSITY (PCF)	MAX SLUMP (IN±1)	MAX WATER/CEMENT RATIO	SLAG/ FLY ASH ^A (MAX)
CONCRETE FOUNDATIONS, GRADE BEAMS, TIE BEAMS	2,500	150	4	0.5	0.15
CONCRETE BASEMENT WALLS/STEM WALLS	2,500	150	4	0.5	0.15
CONCRETE SLAB ON GRADE	2,500	150	4	0.45	0.15
STAIRS ON GRADE, CURBS AND OTHER NON- STRUCTURAL CONCRETE	2,500	150	4	0.5	0.15
SITE WALLS	2,500	150	4	0.5	0.15

- A. AS MEASURED BY CEMENTITIOUS WEIGHT * IF FOOTINGS ARE EXPOSED TO FROST CYCLES, INCREASE STRENGTH TO 4,500 PSI.
- 4. READY MIXED CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM C94 OF C685.
- 5. DEPOSITING AND CONVEYING OF CONCRETE SHALL CONFORM TO SECTION 26.5 OF ACI 318-19 AND PROJECT SPECIFICATIONS.
- 6. ALL CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE PLACED SHALL BE CLEANED AND ROUGHENED TO 1/4" AMPLITUDE.
- 7. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED WITHOUT SEOR APPROVAL. NOTIFY THE SEOR IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS. SEE THE DRAWINGS FOR ADDITIONAL RESTRICTIONS ON THE PLACEMENT OF OPENINGS IN SLABS AND WALLS.
- 9. PIPES EMBEDDED IN CONCRETE: A. CONCRETE
 - a. PIPES LARGER THAN 1-1/2" DIAMETER SHALL NOTE BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY SEOR.
 - b. PIPES SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS. c. DO NOT STACK CONDUITS, SPACE EMBEDDED PIPES AND CONDUITS AT A MINIMUM OF 3 DIAMETERS CLEAR FROM OTHER EMBEDDED PIPES/CONDUITS AND REBAR.

FOUNDATION

- GEOTECHNICAL INFORMATION AND FOUNDATION DESIGN IS BASED ON THE FOLLOWING:
- A. DESIGN LATERAL SOIL LOADS ARE IN ACCORDANCE WITH 2022 CBC TABLE 1610.1 ALLOWABLE FOUNDATION BEARING AND LATERAL PRESSURES ARE IN ACCORDANCE WITH 2022 CBC TABLE 1806.2

2. SPREAD OR CONTINUOUS FOOTINGS:

ELEMENT	Allowable Bearing Capacity (PSF) ^A	ALLOWABLE LATE PASSIVE RESISTANCE (PSF/FT BELOW	ral resistance ^b Cohesion (psf)
CONTINUOUS FOOTINGS	1,500	GRADE) ^E 100	120

A. THE ALLOWABLE CAPACITY MAY BE INCREASED BY ONE-THIRD WHEN CONSIDERING LOADS OF

B. THE ALLOWABLE LATERAL RESISTANCE CAN BE TAKEN AS THE SUM OF THE FRICTIONAL RESISTANCE

D. COMPACTED FILL SHOULD BE PREPARED AS FOLLOWS: A MIN OF 12" OF COMPACTED FILL SHALL BE

PROVIDED, COMPACTED TO A MIN OF 90 PERCENT MODIFIED PROCTOR IN ACCORDANCE WITH

C. THE UPPER 0 FOOT OF SOIL NOT PROTECTED BY PAVEMENT SHALL BE NEGLECTED WHEN

4. WHERE NOT SHOWN ON THE DRAWINGS, CONTRACTOR TO PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED AND SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION

PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES,

STREETS, AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES.

5. CONTRACTOR TO PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER

6. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS

8. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY

9. ALL ABANDONED FOOTINGS, UTILITIES, ETC. SHALL BE REMOVED. NEW FOOTINGS MUST EXTEND INTO

BEFORE CONCRETE OR GROUT HAS ATTAINED FULL DESIGN STRENGTH. CONTRACTOR SHALL PROVIDE FOR

SHORT DURATION SUCH AS WIND OR SEISMIC FORCES.

E. MAY BE DOUBLED FOR ISOLATED POLES PER 2022 CBC 1806.3.4

AND PASSIVE RESISTANCE .

CALCULATING PASSIVE RESISTANCE.

ASTM D 1557 (2022 CBC 1804.6)

DESIGN, PERMITS AND INSTALLATION OF SUCH BRACING.

7. EXCAVATIONS SHALL BE CUT SQUARE AND SMOOTH, WITH LEVEL BOTTOMS.

AND/OR SEEPAGE.

COMPACTED IN LAYERS.

UNDISTURBED SOILS.

DESIGN INFORMATION

ROOF LIVE LOADS (2022 CBC SECTION 1603.1.2)

ROOF LIVE LOADS				
OCCUPANCY OR USE	UNIFORM (PSF)	CONC. (LBS)	REFERENCE	
ROOF ORDINARY FLAT, PITCHED AND CURVED ROOFS (THAT ARE NOT OCCUPIABLE)	20		2022 CBC TABLE 1607.1	

2. ROOF SNOW LOADS (2022 CBC SECTION 1603.1.3):

SNOW DESIGN DATA			
PARAMETER	VALUE	REFERENCE	
GROUND SNOW LOAD	Pg = PROVIDED BY OWNER BASED ON PROJECT LOCATION	ASCE 7-16 7.2	
GROUND SNOW LOAD	OWNER BASED ON	ASCE 7-16 7.	

3. WIND DESIGN DATA (2022 CBC SECTION 1603.1.4) :

	WIND DESIGN DATA				
PARAMETER		VALUE	REFERENCE		
	ultimate design wind speed (3-sec gust)	V _{ult} = 115 MPH	2022 CBC FIG. 1609.3		
	NOMINAL DESIGN WIND SPEED (3-SEC GUST)	V _{ASD} = 90 MPH	2022 CBC 1609.3.1		
	EXPOSURE CATEGORY	С	2022 CBC 1609.4.3		
	INTERNAL PRESSURE COEFFICIENT:	GCpi = ± 0.18	ASCE 7-16 TABLE 26.13-1		

	СОМ	PONENTS & C	CLADDING WIN	d pressures (psi	=)	
	LOCATION		COMPONENT TRIBUTARY AREA (SQ FI			
			10	100		
	ROOF	ZONE 1	-48.4	-23.9		
		ZONE 2e	-48.4	-23.9		
		ZONE 2n	-53.3	-33.7		
		ZONE 2r	-48.4	-23.9		
		ZONE 3e	-65.5	-41.0		
		ZONE 3r	-53.3	-33.7		
	OVERHANG	ZONE 1	-67.9	-43.5		
		ZONE 2e	-67.9	-43.5		
		ZONE 2n	-72.8	-53.3		
	OVERITANO	ZONE 2r	-67.9	-43.5		
		ZONE 3e	-85.0	-60.6		
		ZONE 3r	-72.8	-53.3		
	WALL	ZONE 4	-31.3	-27.1		
	TT/ALL	ZONE 5	-38.6	-30.0		

4. EARTHQUAKE DESIGN DATA (2022 CBC SECTION 1603.1.5):

SITE AND OCCUPANCY PARAMETERS				
PARAMETER	VALUE	REFERENCE		
RISK CATEGORY	П	2022 CBC TABLE 1604.5		
SEISMIC IMPORTANCE FACTOR	I = 1.0	ASCE 7-16 TABLE 1.5-2		
MAPPED SPECTRAL RESPONSE ACCELERATIONS:	S s = 2.00	2022 CBC 1613.2.1		
MAFFED SFECTRAE RESFONSE ACCELERATIONS.	S 1 = 0.65	2022 CDC 1013.2.1		
SITE CLASS	D (DEFAULT)	2022 CBC 1613.2.2		
SPECTRAL RESPONSE COEFFICIENTS:	S ds = 1.60	2022 CBC 1613.2.4		
SPECTRAL RESPONSE COEFFICIENTS.	S D1 = 0.737	2022 CDC 1013.2.4		

BUILDING PARAMETERS

PARAMETER	VALUE	REFERENCE		
SEISMIC DESIGN CATEGORY	SDC = D	2022 CBC 1613.2.5		
BASIC SEISMIC FORCE RESISTING SYSTEM	LIGHT FRAME (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE	ASCE 7-16 TABLE		
RESPONSE MODIFICATION FACTOR	$R = 6\frac{1}{2}$	12.2-1		
SYSTEM OVERSTRENGTH FACTOR	Ωo = 3			
DEFLECTION AMPLIFICATION FACTOR	Cd = 4			
DESIGN BASE SHEAR	V = 11.7	ASCE 7-16 12.8.1		
SEISMIC RESPONSE COEFFICIENTS	Cs = 0.246	ASCE 7-16 12.8.1.1		
ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE PROCEDURE	ASCE 7-16 12.8		

5. DEAD LOAD DESIGN DATA

DEAD LOADS	S		
LOCATION	MAX UNIFORM (PSF)	CONC. (LBS)	REFERENCE
ROOF (ASPHALT SHINGLES) *INCLUDES 4 PSF ALLOWANCE FOR SOLAR PANELS	26*		
WALL (SIDING)	11		

EXISTING UNDERGROUND UTILITIES

- 1. THE ARCHITECT AND ENGINEERS ARE NOT RESPONSIBLE FOR THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THE DRAWINGS. DRAWINGS, IF ANY, IS APPROXIMATE. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THE SITE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND/OR STRUCTURAL ENGINEER SHOULD ANY SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES WHICH MAY RESULT FROM HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES.
- 3. AN UNDERGROUND SERVICE ALERT INQUIRY IDENTIFICATION NUMBER MUST BE OBTAINED AT LEAST TWO WORKING DAYS BEFORE STARTING WORK WITH THIS PERMIT. A. FOR PROJECTS IN SOUTHERN CALIFORNIA TELEPHONE NO. 1-800-422-4133.
- B. FOR PROJECTS IN NORTHERN CALIFORNIA TELEPHONE NO. 1-800-227-2600.

GENERAL

- 1. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES AND STANDARDS:
- A. 2022 CALIFORNIA BUILDING CODE, PART 2, VOLUME 2 OF 2, AND TITLE 24 C.C.R. 2022 EDITION AND LATEST REVISIONS (INCLUDING SUPPLEMENTS AND ERRATA) HEREIN REFERRED TO AS "THE CODE".
- B. ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (CAL/OSHA).
- C. CODES & STANDARDS REFERENCED IN THE CODE OR LISTED IN THESE NOTES AND SPECIFICATIONS.
- ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT
- 3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
- 4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. IN NO INSTANCE SHALL DIMENSIONS BE SCALED FROM THE DRAWINGS.
- 5. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
- A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED
- B. SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS UNLESS NOTED AND/OR DETAILED ON THE STRUCTURAL DRAWINGS
- C. SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGE IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC
- D. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN
- E. FLOOR AND ROOF FINISHES

-23.9

-23.9

-28.8

-23.9

-28.8

-28.8

-43.3

-43.3

-48.4

-43.5

-48.4

-48.4

-23.9

-23.9

- F. MISCELLANEOUS DRAINAGE AND WATERPROOFING
- G. ALL FIREPROOFING REQUIREMENTS INCLUDING FIREPROOFING OF STRUCTURAL STEEL
- H. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS
- 6. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
- A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED.
- B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
- C. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.
- D. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS.
- 8. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT ETC. THE CONTRACTOR IS RESPONSIBLE FOR PROVISION OF TEMPORARY SHORING AND OTHER CONSTRUCTION AIDS, INCLUDING ALL ENGINEERING OF SUCH SYSTEMS, FOR TEMPORARY SUPPORT OF NEW AND/OR EXISTING STRUCTURAL ELEMENTS AS REQUIRED FOR ERECTION AND OTHER CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION (UNO). OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS OR CONCERN CONSTRUCTION MEANS AND METHODS OR CONSTRUCTION SAFETY.
- 9. BACKFILL SHALL NOT BE PLACED BEHIND EXTERIOR AND INTERIOR RETAINING WALLS UNTIL THE CONCRETE / CMU HAS ACHIEVED FULL DESIGN STRENGTH. FOR BRACED WALLS SUPPORTED BY STRUCTURAL DIAPHRAGMS BACKFILL SHALL NOT BE PLACED BEHIND THE WALL UNTIL THE DIAPHRAGM HAS BEEN INSTALLED, AND FOR CONCRETE DIAPHRAGMS, HAS ACHIEVED FULL DESIGN STRENGTH.
- 10. THE CONTRACT STRUCTURAL DRAWINGS SHOW THE BUILDING IN ITS FINAL INTENDED POSITION. CONTRACTOR SHALL MAKE PROVISIONS IN THE LAYOUT OF THE BUILDING TO TAKE INTO ACCOUNTS SHRINKAGE, CREEP, SHORTENING, ETC..
- 11. OPENINGS, POCKETS, ETC., LARGER THAN 6" SHALL NOT BE PLACED IN CONCRETE SLABS, DECKS, WALLS, UNLESS SPECIALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., LARGER THAN 6" NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN STRUCTURAL MEMBERS.
- 12. ASTM SPECIFICATIONS ON THE DRAWINGS SHALL BE THE VERSION REFERENCED IN CHAPTER 35 OF THE CODE OR AS REFERENCED IN THE APPLICABLE DESIGN STANDARD.
- 13. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, THE STRUCTURAL ENGINEER AND GEOTECHNICAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY
- 14. CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF OR FLOOR. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. THE CONTRACTOR TO DESIGN AND PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.
- 15. CONTRACTOR SHALL COORDINATE SHORING WITH DRAWINGS OF RECORD TO INSURE PROVISIONS FOR POCKETS, BLOCKOUTS, OFFSETS, STEPPED FOOTINGS AND ANY OTHER ITEMS AFFECTED BY THE SHORING
- 16. AN UNDERGROUND SERVICE ALERT INQUIRY IDENTIFICATION NUMBER MUST BE OBTAINED AT LEAST TWO WORKING DAYS BEFORE STARTING WORK WITH THIS PERMIT. A. FOR PROJECTS IN SOUTHERN CALIFORNIA TELEPHONE NO. 1-800-422-4133.
- B. FOR PROJECTS IN NORTHERN CALIFORNIA TELEPHONE NO. 1-800-227-2600.
- 17. EDGE OF SLAB DIMENSIONS TO BE COORDINATED AND VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO FABRICATION.

DIMENSIONS

- 1. DIMENSIONS SHALL BE DEFINED TO INCLUDE BOTH HORIZONTAL DIMENSIONS AND VERTICAL DIMENSIONS (ELEVATIONS).
- 2. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS.
- 3. SEE ARCHITECTURAL DRAWINGS FOR DIMENSION NOT NOTED ON STRUCTURAL DRAWINGS.
- 4. SEE ARCHITECTURAL AND/OR CIVIL DRAWINGS FOR FINISH FLOOR ELEVATIONS.
- 5. SEE ARCHITECTURAL DRAWINGS FOR ALL TOP OF SHEATHING AND/OR ROOF ELEVATIONS.
- 6. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.



THESE PLANS ARE PROVIDED BY MONO COUNTY AS PART OF THE PRE-APPROVED ADU PROGRAM AND ARE PUBLIC DOMAIN. THERE CANNOT BE A CHARGE TO PROVIDE THESE PLANS. NO ALTERATIONS TO THESE PLANS ARE ALLOWED. ALL ALTERATIONS MUST BE DONE UNDER A SEPARATE PERMIT ONCE THE BUILDING PERMIT FOR THE ADU HAS BEEN ISSUED AND FINAL INSPECTION COMPLETED. IF YOU DO NOT HAVE THE CONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONTRUCT THESE PLANS WITHOUT FURTHER DETAILS, IT IS RECOMMENDED YOU HIRE A CONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS AND BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.

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NOVEMBER 20, 2023

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SHOP FABRICATION

1. SHOP FABRICATION REQUIRES SPECIAL INSPECTION IN ACCORDANCE WITH CODE SECTION 1704.2.5. EXCEPTION: SHOP SPECIAL INSPECTIONS ARE NOT REQUIRED WHEN WORK IS DONE ON THE PREMISES OF FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK IN ACCORDANCE WITH CODE SECTION 1704.2.5.1. THE FOLLOWING ACCREDITATIONS MEET THE REQUIREMENTS OF THIS EXCEPTION: A. WOOD BUILDING

> a. WOOD STRUCTURAL PANELS (SHEATHING) SHALL BE IDENTIFIED BY THE APA TRADEMARK. b. TRUSS MANUFACTURER SHALL BE FABRICATED IN A SHOP WITH CURRENT FABRICATOR COMPLIANCE CERTIFICATES PER CBC SECTION 1704.2.5.1.

CONCRETE CO			ON						
CODE TABLE 1705.3									
SPECIAL INSPECTION OR TEST	CONTINUOUS	PERIODIC	REFERENCED STANDARD	CBC REFERENCE					
1. INSPECT REINFORCMENT AND VERIFY PLACEMENT.	_	Х	ACI 318: CH 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4					
2. REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER		Х							
THAN ASTM A706 b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM $\frac{5}{16}$ "	_	х	AWS D1.4 ACI 318: 26.6.4	_					
AND c. INSPECT ALL OTHER WELDS	Х								
3. INSPECT ANCHORS CAST IN CONCRETE		Х	ACI 318: 17.8.2						
 4. INSPECT ANCHORS POST-IONSTALLED IN HARDENED CONCRETE MEMBERS ^(b) (a) ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS (b) MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a. 	x	X	ACI 318: 17.8.2.4 ACI 318: 17.8.2	_					
5. VERIFY USE OF REQUIRED MIX DESIGN		Х	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3					
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X		ASTM C 172 ASTM C 31 ACI 318: 26.5, 26.12	1908.10					
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	_	Х	ACI 318: 26.5.3- 26.5.5	1908.9					
12. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		х	ACI 318: 26.11.1.2 (b)						

INDICATES INSPECTION REQ'D FOR ALL CONCRETE WORK

INDICATES INSPECTION REQ'D FOR 3,000 PSI AND GREATER CONCRETE WORK ONLY

WOOD CODE CHAPTER 17 AND REFERENCED 2018 NDS AND AWC SDPWS-2015							
SPECIAL INSPECTION OR TEST	CONTINUOUS	PERIODIC	CBC REFERENCE				
I. HIGH LOAD DIAPHRAGM WOOD STRUCTURAL PANELS - VERIFY THE FOLLOWING: - GRADE - THICKNESS - NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES - NAIL OR STAPLE DIAMETER AND LENGTH - NUMBER OF FASTENER LINES - SPACING BETWEEN FASTENERS IN EACH LINE - SPACING BETWEEN FASTENERS AT EDGE MARGINS		X	1705.5.1 2306.2				
3. WOOD LATERAL FORCE-RESISTING SYSTEM WITH FASTENER SPACING OF THE SHEATHING LESS THAN OR EQUAL TO 4" OC. - WOOD SHEAR WALLS - WOOD DIPHRAGMS - DRAG STRUTS - SHEAR PANELS - HOLD-DOWNS		x	1705.12.2				
 4. WOOD LATERAL FORCE-RESISTING SYSTEM WITH FASTENER SPACING OF THE SHEATHING GREATER THAN 4" OC (NOT REQUIRED) WOOD SHEAR WALLS WOOD DIAPHRAGMS DRAG STRUTS SHEAR PANELS HOLD-DOWNS 			1705.12.2				

SOILS CODE TABLE 1705.6		
SPECIAL INSPECTION OR TEST	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		Х
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		Х
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		Х
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	Х	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		Х

STRUCTURAL COMPOSITE LUMBER

- STRUCTURAL COMPOSITE LUMBER SHALL HAVE STRUCTURAL CAPACITIES AND DESIGN PROVISIONS ESTABLISHED AND MONITORED IN ACCORDANCE WITH ASTM D5456 PER CODE SECTION 2303.1.10
- 2. STRUCTURAL COMPOSITE LUMBER SHALL BE IDENTIFIED WITH THE MANUFACTURER'S NAME AND/OR LOGO, THE NAME AND OR LOGO OF THE INSPECTION AGENCY (PFS CORP , INTERTEK, OR APA-EWS) AND THE EVALUATION REPORT NUMBER, THE PLANT NUMBER, PRODUCT DESIGNATION OR TYPE, PRODUCTION DATE, AND GRADE.
- 3. INSTALLATION, FABRICATION, IDENTIFICATION AND CONNECTION DETAILS SHALL BE IN ACCORDANCE WITH THE APPLICABLE ICC REPORT.
- 4. LAMINATED VENEER LUMBER (LVL)
- A. LAMINATED VENEER LUMBER SHALL BE ONE OF THE FOLLWING: a. MICROLLAM LAMINATED VENEER LUMBER GRADE 2.0E-2750Fb WS, MANUFACTURED BY
 - WEYERHAEUSER IN ACCORDANCE WITH ICC-ESR 1387. b. REDLAM LAMINATED VENEER LUMBER GRADE 2.0E DF/LP/WH, MANUFACTURED BY REDBUILT IN ACCORDANCE WITH ICC-ESR 2993.
- B. IDENTIFICATION: IN ADDITION TO THE IDENTIFICATION LISTED FOR STRUCTURAL COMPOSITE LUMBER ABOVE, LVL SHALL BE IDENTIFIED WITH THE SPECIES OR SPECIES GROUP.
- 5. PARALLEL STRAND LUMBER (PSL)
- A. PARALLEL STRAND LUMBER SHALL BE PARALLAM PARALLEL STRAND LUMBER GRADE 2.0E DF, MANUFACTURED BY WEYERHAEUSER IN ACCORDANCE WITH ICC-ESR 1387.
- 6. LAMINATED STRAND LUMBER (LSL)

7

- A. LAMINATED STRAND LUMBER SHALL BE TIMBERSTRAND LAMINATED STRAND LUMBER GRADE 1.55E, MANUFACTURED BY WEYERHAEUSER IN ACCORDANCE WITH ICC-ESR 1387.
- PRODUCTS FROM OTHER MANUFACTURER'S MAY BE USED WITH EQUAL OR GREATER CAPACITIES. REQUESTS FOR PRODUCT SUBSTITUTION SHALL FOLLOW THE REQUIREMENTS LISTED IN THE SUBMITTALS SECTION.

PRE-FABRICATED WOOD TRUSS NOTES

1. THE DESIGN OF METAL PLATE CONNECTED WOOD TRUSSES SHALL BE IN ACCORDANCE WITH THE FOLLOWING A. CODES AND STANDARDS:

- a. THE GOVERNING CODE LISTED IN THE PROJECT GENERAL NOTES
- b. MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE 7-16)
- c. NATIONAL DESIGN STANDARD FOR WOOD CONSTRUCTION AND SUPPLEMENT
- (ANSI/AWC NDS-2018)
- d. SPECIAL DESIGN PROVISIONS FOR WIND & SEISMIC (AWC SDPWS-2015) e. THE NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS
- CONSTRUCTION (ANSI/TPI 1-2014)

B. DESIGN CRITERIA:

a. TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING MINIMUM VERTICAL LOADS AND OTHER LOADS INDICATED ON THE CONSTRUCTION DOCUMENTS (ATTIC MECHANICAL UNITS, ETC.) ROOF TRUSS LOADING:

TOP-CHORD DEAD LOAD:	17.2 PSF	(15.8 PSF SUPERIN
BOT CHORD DEAD LOAD:	6.5 PSF	(5.4 PSF SUPERIM
ROOF - LIVE LOAD:	20 PSF	
TOP CHORD - SNOW LOAD:	PER PLAN	NAND SPECIFIC LC
OWNER/CON	ITRACTOR T	O PROVIDE TO TRU

TOP CHORD - S	 PER PLAN AND SPECIFIC ITRACTOR TO PROVIDE TO	
FLECTION CRITERIA:		

DEAD + LIVE LOAD	L/24
LIVE LOAD ONLY	L/36

b. () INDICATES HORIZONTAL SEISMIC/WIND LOAD ON COLLECTOR TRUSSES. THE TRUSS DESIGNER SHALL DESIGN FOR THE TRUSSES FOR THE INDICATED HORIZONTAL LOAD ACTING IN BOTH THE TOP AND BOTTOM TRUSS CHORDS AND FOR THE TRANSFER OF THE FORCE TO THE CHORDS THROUGH THE WEB.

2. CONTRACTOR REQUIREMENTS:

- A. THE CONTRACTOR SHALL MEET ALL THE REQUIREMENTS LISTED IN SECTION 2.3.4 OF ANSI/TPI 1-2014 INCLUDING THE FOLLOWING:
 - a. MEANS AND METHODS: THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, PROGRAMS AND SAFETY IN CONNECTION WITH THE RECEIPT, STORAGE, HANDLING, INSTALLATION, RESTRAINING, AND BRACING OF THE TRUSSES. REFER TO THE GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES (BCSI-B1)
- b. TRUSS INSTALLATION SHALL COMPLY WITH INSTALLATION TOLERANCES SHOWN IN BCSI-B1
- c. TEMPORARY INSTALLATION RESTRAINT/BRACING FOR THE TRUSS SYSTEM AND THE PERMANENT TRUSS SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH BCSI-B2.
- d. CONSTRUCTION LOADING ON TRUSSES SHALL BE DONE IN ACCORDANCE WITH BCSI-B4. e. TRUSS DAMAGE, JOBSITE MODIFICATIONS & INSTALLATION ERRORS SHALL BE BROUGHT TO THE
- IMMEDIATE ATTENTION OF THE EOR AND THE TRUSS DESIGNER, REFERENCE BCSI-B5. f. SUBMIT THE DRAWINGS FROM THE TRUSS DESIGNER/MANUFACTURER TO THE BUILDING DEPARTMENT PRIOR TO FABRICATION FOR APPROVAL. A COPY OF THIS SUBMITTAL SHALL BE PROVIDED TO THE COUNTY BUILDING DEPARTMENT OF RECORD FOR REVIEW OF GENERAL CONFORMANCE TO THE DESIGN INTENT. THE CONTRACTOR SHALL INCORPORATE THE TIME REQUIRED FOR THE SUBMITTAL TO BE REVIEWED, STAMPED AND APPROVED BY ALL PARTIES AND SHALL HAVE THE APPROVED TRUSS PLANS ON THE JOB SITE PRIOR TO FOUNDATION INSPECTION.

3. TRUSS DESIGNER REQUIREMENTS:

- A. THE TRUSS DESIGNER SHALL MEET ALL THE REQUIREMENTS LISTED IN SECTION 2.3.5 OF ANSI/TPI 1-2014 INCLUDING THE FOLLOWING: a. TRUSS DESIGNER SHALL SUPERVISE THE PREPARATION OF THE TRUSS DESIGN DRAWINGS WHICH
 - SHALL CONTAIN THE INFORMATION LISTED IN SECTION 2.3.5.5 OF ANSI/TPI 1-2014. THIS INCLUDES ALL TRUSS TO TRUSS CONNECTIONS, AND DETAILS FOR THE "CALIFORNIA FILL" AREAS.
 - b. TRUSS DESIGNER SHALL COMPLY WITH THE REFERENCED CODE AND DESIGN CRITERIA ABOVE.
 - c. TRUSS DESIGNER SHALL SHOW ALL HANGERS, BRACING AND RESTRAINTS AS WELL AS METHOD OF RESTRAINT/BRACING ON THE TRUSS PLANS TO MEET ANY SEISMIC AND WIND REQUIREMENTS OF THE CODE.
 - d. SUBMIT TRUSS DESIGN DRAWINGS INCLUDING ALL RELEVANT DETAILS FOR THE FABRICATION OF THE TRUSSES AND PREPARE CALCULATIONS. ALL PLANS, DETAILS AND CALCULATIONS FOR THE TRUSSES SHALL BE STAMPED AND SIGNED BY A LICENSED PROFESSIONAL ENGINEER (CIVIL OR STRUCTURAL), LICENSED TO PRACTICE IN THE STATE OF CALIFORNIA.

WOOD STRUCTURAL PANELS (SHEATHING)

BOND

CLASSIFICATION C

EXPOSURE 1

EXPOSURE 1

EXPOSURE 1

2. TRANSPORTATION, STORAGE, AND HANDLING:

PREVENT MILDEW.

PHYSICAL DAMAGE.

A. TRANSPORTATION

b. Storage

ASSOCIATION (APA):

USE PI

ROOF

FLOOR

WALL

TABLE NOTES:

1. WOOD STRUCTURAL PANELS SHALL MEET THE FOLLOWING MINIMUM STANDARDS EXCEPT WHERE OTHERWISE NOTED:

WOOD STRUCTURAL PANEL PROPERTIES

RATING

REFER TO TYPICAL DIAPHRAGM SCHEDULE

REFER TO TYPICAL SHEAR WALL SCHEDULE

SPAN RATING RATING^B REFERENCE

APA

APA

2019 CBC

2303.1.5 APA (DOC PS 1-09)

OR PS 2-10)

Sheathing Performance

A. WOOD STRUCTURAL PANELS SHALL CONFORM TO THE REQUIREMENTS FOR THEIR TYPE IN

a. VOLUNTARY PRODUCT STANDARD, STRUCTURAL PLYWOOD, PS 1-09

B. WOOD STRUCTURAL PANELS SHALL BE IDENTIFIED BY THE APA TRADEMARK INDICATING

STRUCTURAL-USE PANELS, PS 2-10

CONFORMANCE TO THE APPLICABLE VOLUNTARY STANDARD

CONDITIONS INVOLVING LONG-TERM EXPOSURE TO WEATHER.

UNDERSIDE IS PERMITTED TO BE "EXPOSURE 1" TYPE.

OF PLYWOOD FOR WOOD STRUCTURAL PANEL WALL SHEATHING.

a. ALWAYS STORE THE PANELS UNDER COVER WHENEVER POSSIBLE

OTHER BLOCKING, THREE STRINGERS MINIMUM.

c. NEVER LEAVE PANELS IN CONTACT WITH THE GROUND

ACCORDANCE WITH THE FOLLOWING VOLUNTARY STANDARDS BY THE ENGINEERED WOOD

b. VOLUNTARY PRODUCT STANDARD, PERFORMANCE STANDARD FOR WOOD-BASED

C. WHERE PANELS ARE EXPOSED TO REPEATED WETTING AND REDRYING, LONG-TERM EXPOSURE TO

BE USED. C-D "EXPOSURE 1" APA RATED PLYWOOD SHEATHING (CDX) SHALL NOT BE USED FOR

WEATHER, OR CONDTIONS OF SIMILAR SEVERITY, "EXTERIOR" APA RATED PLYWOOD SHEATHING SHALL

a. EXCEPTION: WOOD STRUCTURAL PANEL ROOF SHEATHING EXPOSED TO THE OUTDOORS ON THE

b. WOOD STRUCTURAL PANELS TO BE USED AS SIDING SHALL COMPLY WITH ANSI/APA PRP-210.

D. ORIENTED STRAND BOARD (OSB) WITH EQUIVALENT CLASSIFICATION AND RATINGS MAY BE USED IN LIEU

a. IN TRANSPORTING PANELS ON OPEN TRUCK BEDS, COVER THE BUNDLES WITH A TARP.

b. WHEN STORING PANELS OUTSIDE STACK THEM ON A LEVEL SURFACE ON TOP OF STRINGERS OR

d. COVER THE STACK WITH A PLASTIC TARP, ENSURING THAT THE BUNDLE IS WELL VENTILATED TO

f. KEEP SANDED OR OTHER APPEARANCE GRADE PANELS AWAY FROM HIGH TRAFFIC AREAS

a. ALWAYS PROTECT ENDS AND EDGES, ESPECIALLY TONGUE AND GROOVE PRODUCTS, FROM

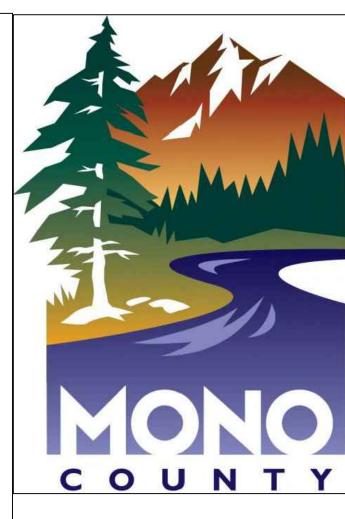
PANELS ON EDGE WITH A GAP BETWEEN EACH TO ALLOW FOR AIR CIRCULATION OR PER

e. IF MOISTURE ABSORPTION IS EXPECTED, CUT THE STEEL BAND TO PREVENT DAMAGE

GRADE

IMPOSED) MPOSED)

LOCATION RUSS MANUF.



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b. ACCLIMATIZE THE PANELS FOR 24 HOURS MINIMUM BEFORE INSTALLATION BY STANDING THE

C. HANDLING

MANUFACTURER'S RECOMMENDATIONS. 3. PLYWOOD ORIENTATION A. ROOF AND FLOOR SHEATHING SHALL BE LAID WITH THE GRAIN OF THE OUTER PILES PERPENDICULAR TO

THE FRAMING MEMBERS, SHALL BE CONTINUOUS OVER 2 JOIST BAYS MINIMUM AND END JOINTS SHALL BE JOINED OVER FRAMING AND STAGGERED. LEAVE A $\frac{1}{3}$ " GAP BETWEEN PANELS TO ALLOW FOR PANEL EXPANSION UNLESS RECOMMENDED OTHERWISE BY THE PANEL MANUF. REFER TO SPECIFIC DETAILS IN THE DRAWINGS FOR FURTHER PARAMETERS.

B. PLYWOOD OR OSB WALL SHEATHING MAY BE APPLIED VERTICALLY OR HORIZONTALLY. ALL END JOINTS BE JOINED OVER FRAMING AND STAGGERED. 4. BLOCKING:

- A. ROOF: ALL ROOF SHEATHING SHALL BE BLOCKED UNLESS SPECIFICALLY ALLOWED ON PLANS. WHERE PERMITTED TO BE UNBLOCKED, ALL UNBLOCKED EDGES SHALL BE TONGUE AND GROOVE.
- B. ALL FLOOR SHEATHING SHALL BE BLOCKED UNLESS SPECIFICALLY ALLOWED ON PLANS. WHERE PERMITTED TO BE UNBLOCKED, ALL UNBLOCKED EDGES SHALL BE TONGUE AND GROOVE.
- C. WALLS: ALL SHEAR WALLS SHALL BE FULLY BLOCKED AT PLYWOOD EDGES.

5. FASTENERS

- A. USE SHEATHING NAILS SAME GAUGE AS COMMON WIRE NAILS WITH LENGTHS AT LEAST EQUAL TO SHEATHING THICKNESS PLUS REQUIRED PENETRATION PER AWS SDPWS TABLE 4.2A OR 4.3A (AS REQUIRED).
- B. EQUIVALENT PNEUMATIC DRIVE NAILS OR STAPLES MAY BE USED IF FASTENER MANUFACTURER HAS RECEIVED ICC OR IAPMO APPROVAL FOR THE INTENDED US. FASTENERS TO BE SUBSTITUTED SHALL BE EQUIVALENT IN LATERAL AND WITHDRAWAL STRENGTH TO THE SIZE OF COMMON NAIL SPECIFIED.
- C. USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOB SITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD OR OSB SHEATHING. IF NAIL HEADS PENETRATE THE OUTER PLY MORE T HAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.
- D. TYPICAL NAILING SHALL BE 10D AT 6" O.C. AT ALL SUPPORTED EDGES AND OVER SHEAR WALLS, AND 10D AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS, UNLESS OTHERWISE NOTED, SEE PLANS AND REFER TO SHEAR WALL SCHEDULE.

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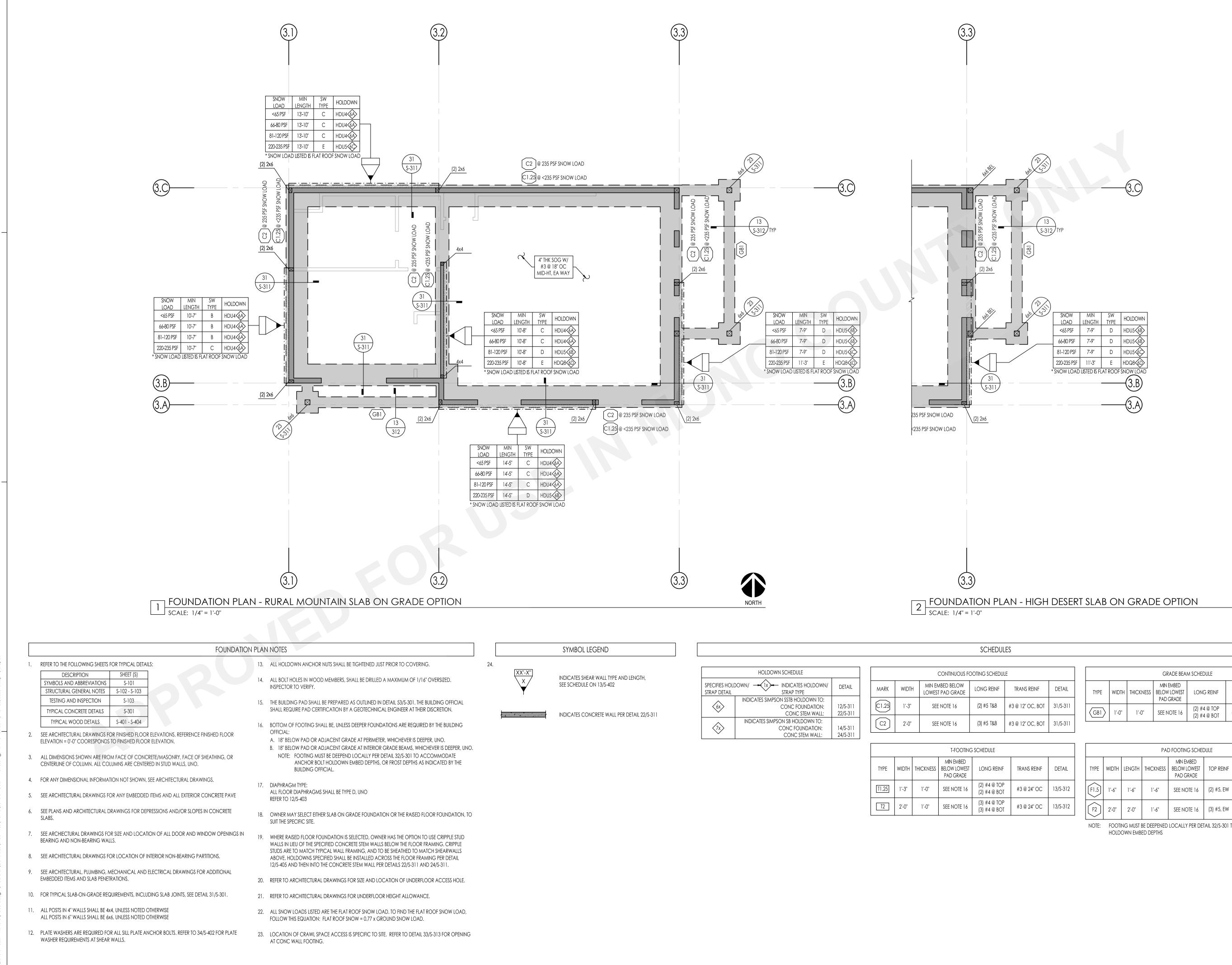
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DATE

NOVEMBER 20, 2023

S-103



SYMBOL LEGEND	

HOLDOWN SCHEDULE								
SPECIFIES HOLE	DOWN/	DETAIL						
6x>	INDICATES SIMPSON SSTB HOLDOWN TO: CONC FOUNDATION: CONC STEM WALL:	12/S-311 22/S-311						
	INDICATES SIMPSON SB HOLDOWN TO: CONC FOUNDATION: CONC STEM WALL:	14/S-311 24/S-311						

CONTINUOUS FOOTING SCHEDULE									GRADE BEAN	M SCHEDULE		
MARK	WIDTH	MIN EMBED BELOW LOWEST PAD GRADE	LONG REINF	TRANS REINF	DETAIL	TYPE	WIDTH	THICKNESS	MIN EMBED BELOW LOWEST	LONG REINF	TRANS REINF	DETAIL
C1.25	1'-3"	SEE NOTE 16	(2) #5 T&B	#3 @ 12" OC, BOT	31/S-311	(GB1)	1'-0''	1'-0"	PAD GRADE SEE NOTE 16	(2) #4 @ TOP (2) #4 @ BOT	#3 @ 24" OC	13/S-312
C2	2'-0"	SEE NOTE 16	(3) #5 T&B	#3 @ 12" OC, BOT	31/S-311					(2) #4 ₩ BOT		
		T-FOOTIN	G SCHEDULE						PAD FOOTING	G SCHEDULE		

			T-FOOTING	SCHEDULE
TYPE	WIDTH	THICKNESS	MIN EMBED BELOW LOWEST PAD GRADE	LONG REINF
T1.25	1'-3"	1'-0''	SEE NOTE 16	(2) #4 @ TOP (2) #4 @ BOT
T2	2'-0"	1'-0''	SEE NOTE 16	(3) #4 @ TOP (3) #4 @ BOT



			PAD FOOTING SCHEDULE								
TRANS REINF	DETAIL	TYPE	WIDTH	LENGTH	THICKNESS	MIN EMBED BELOW LOWEST PAD GRADE	TOP REINF	BOT REINF	DETAIL		
#3 @ 24" OC	13/\$-312	F1.5	1'-6"	1'-6"	1'-6"	SEE NOTE 16	(2) #5, EW	(2) #5, EW	11/S-312		
#3 @ 24" OC	13/S-312	F2	2'-0"	2'-0''	1'-6"	SEE NOTE 16	(3) #5, EW	(3) #5, EW	11/S-312		
		NOTE:			BE DEEPENED ED DEPTHS	LOCALLY PER DET	AIL 32/S-301 TC	D ACCOMMOD	ATE AB		



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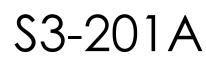
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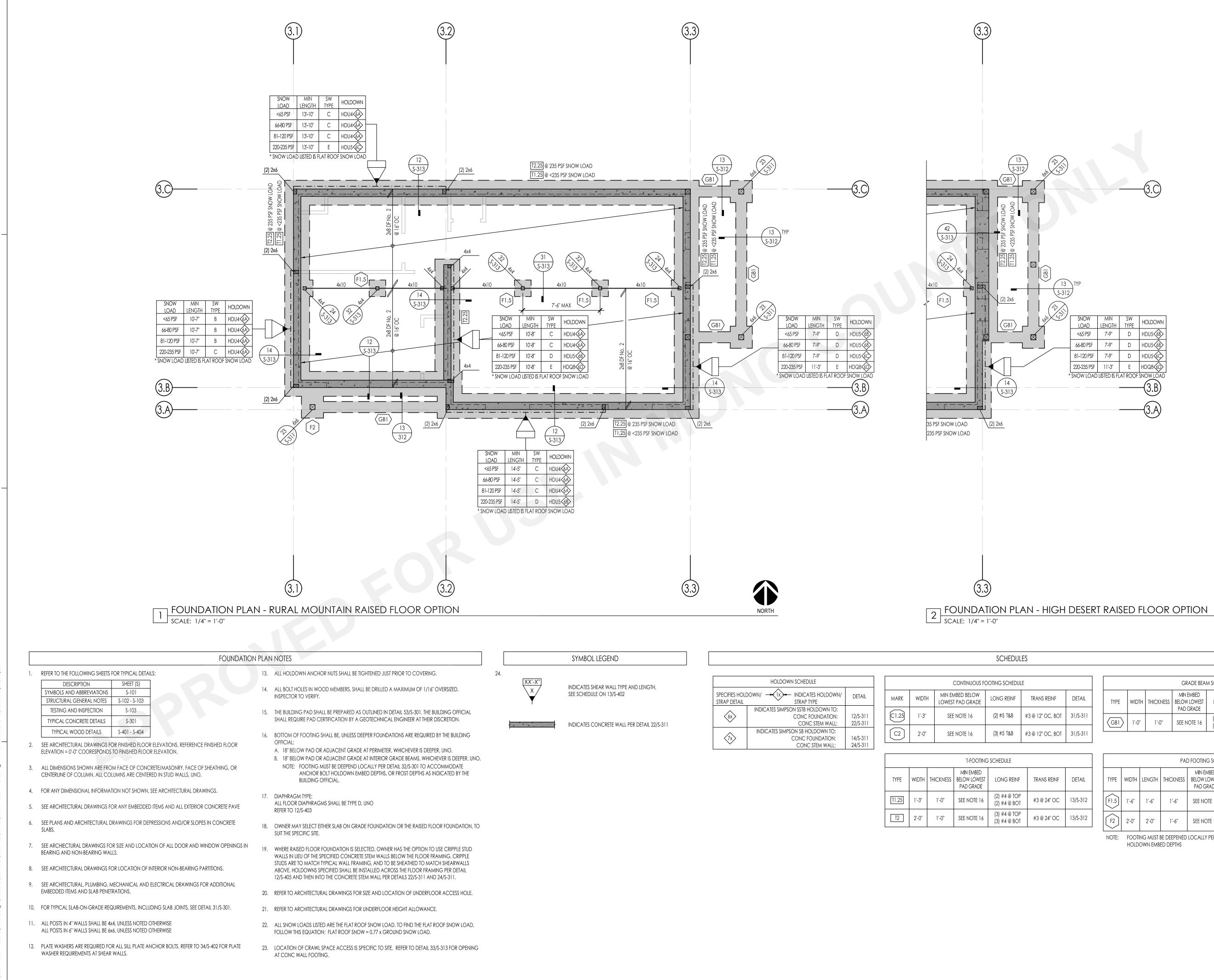
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DATE NOVEMBER 20, 2023





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	HOLDOWN SCHEDULE							
SPECIFIES HOLD	DOWN/	DETAIL						
<u>(6x</u>)	INDICATES SIMPSON SSTB HOLDOWN TO: CONC FOUNDATION: CONC STEM WALL:	12/S-311 22/S-311						
(7x)	INDICATES SIMPSON SB HOLDOWN TO: CONC FOUNDATION: CONC STEM WALL:	14/S-311 24/S-311						

		CONTINUOUS FO	OOTING SCHEDU	LE						GRADE BEA	M SCHEDULE		
MARK	WIDTH	MIN EMBED BELOW LOWEST PAD GRADE	LONG REINF	TRANS REINF	DETAIL		TYPE	WIDTH	THICKNESS	MIN EMBED BELOW LOWEST	LONG REINF	TRANS REINF	DETAIL
C1.25	1'-3"	SEE NOTE 16	(2) #5 T&B	#3 @ 12" OC, BOT	31/S-311		(GB1)	1'-0"	1'-0"	PAD GRADE SEE NOTE 16	(2) #4 @ TOP	#3 @ 24" OC	13/S-312
C2	2'-0"	SEE NOTE 16	(3) #5 T&B	#3 @ 12" OC, BOT	31/S-311						(2) #4 @ BOT		
	•					1							

			T-FOOTING	SCHEDULE						PAI	D FOOTING SCHEE	DULE		
TYPE	WIDTH	THICKNESS	MIN EMBED BELOW LOWEST PAD GRADE	LONG REINF	TRANS REINF	DETAIL	TYPE	WIDTH	LENGTH	THICKNESS	MIN EMBED BELOW LOWEST PAD GRADE	TOP REINF	BOT REINF	DETAIL
T1.25	1'-3"	1'-0''	SEE NOTE 16	(2) #4 @ TOP (2) #4 @ BOT	#3 @ 24" OC	13/\$-312	F1.5	1'-6"	1'-6"	1'-6"	SEE NOTE 16	(2) #5, EW	(2) #5, EW	11/S-312
T2	2'-0"	1'-0"	SEE NOTE 16	(3) #4 @ TOP (3) #4 @ BOT	#3 @ 24" OC	13/S-312	F2	2'-0''	2'-0''	1'-6"	SEE NOTE 16	(3) #5, EW	(3) #5, EW	11/S-312
							NOTE:			BE DEEPENED ED DEPTHS	Locally per de	i TAIL 32/S-301 TC	D ACCOMMOE	DATE AB





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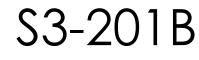
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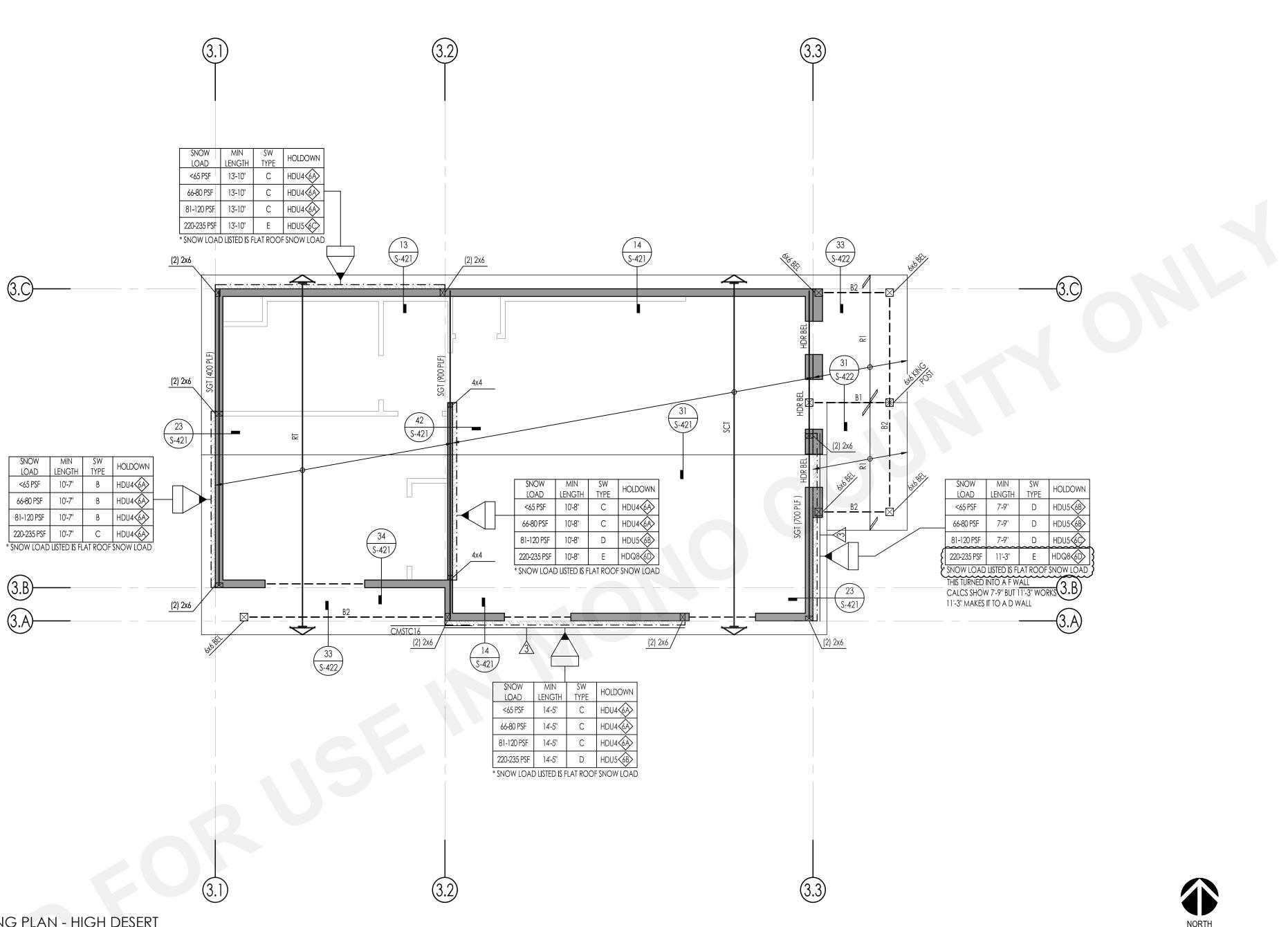
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DATE NOVEMBER 20, 2023





ROOF FRAMING PLAN - HIGH DESERT

SCALE: 1/4" = 1'-0"

ROOF FRAMING PLAN NOTES

		ROOF FRA		
LIMITED TO THE FOLLOWING, ALL	DIMENSIONS TO BE	VERIFIED PRIOR TO CONSTRUCTION:	8.	ALL LINES AND/OR MEMBERS INDICATED AS "STRUT" SH. NAILING (BN), STGR.
B. ALL DIMENSIONS, ELEVATIONC. LOCATION AND EXTENT OF E	NS, FINISH SURFACE	e, slopes, drains, slab depressions, etc	9.	TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CU ALTERED IN ANY WAY WTHOUT WRITTEN CONCURRENC DESIGN PROFESSIONAL.
REFER TO THE FOLLOWING SHEETS	FOR TYPICAL DETA	ILS:	10.	ALTERATIONS RESULTING IN THE ADDITION OF LOADS TO
DESCRIPTION	SHEET (S)]		WATER HEATER) SHALL NOT BE PERMITTED WITHOUT VEI SUPPORTING SUCH ADDITIONAL LOADING.
SYMBOLS AND ABBREVIATIONS	S-101			
STRUCTURAL GENERAL NOTES	S-102 - S-103		11.	TRUSSES ARE TO BE DESIGNED FOR THE PROPER SITE SP
TESTING AND INSPECTION	S-103			SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT FO FABRICATION, FOR OTHER TRUSSES DESIGN CRITERIA RI
TYPICAL CONCRETE DETAILS	S-301			WOOD TRUSSES 1.B.a.
TYPICAL WOOD DETAILS	S-401 - S-405			
SEE ARCHITECTURAL DRAWINGS FO	OR ALL TOP OF SHE	ATHING AND TOP OF WALL ELEVATIONS.	12.	TRUSSES SHALL INCLUDED PROPER ICE DAMN LOADING DRIFTS PER ASCE 7-16 WHERE APPLICABLE BASED ON T
LOCATION OF PIPES, DUCTS AND O	OTHER ROOF PENE	rations. For roof penetrations not	13.	WHERE THE OWNER WOULD LIKE TO SUBSTITUTE TRUSSES STRUCTURALLY ACCEPTABLE. THESE TRUSSES SHALL BE I BUILDING DEPARTMENT.
			14.	AL LUMBER EXPOSED TO THE ELEMENTS SHALL BE SELEC
2x6 @ 16" OC @ ALL EXTERIOR WA	lls, uno		15.	SHEARWALL CONSTRUCTION, HOLDOWNS, RAFTERS AI TABLES BASED ON THE SNOW LOADING FOR THE SPECI
)	16.	SHEARWALL LENGTHS LISTED IN THE TABLES ABOVE ARE SHEARWALL CAN BE PLACED ANYWHERE ALONG THE INTERRUPTED BY A DOORWAY OR WINDOW.
			17.	ALL SNOW LOADS LISTED ARE THE FLAT ROOF SNOW LO FOLLOW THIS EQUATION: FLAT ROOF SNOW = 0.77 x G
66-80 PSF SNOW LOAD, ROOF DIA 81-120 PSF SNOW LOAD, ROOF DIA	PHRAGM, TYPE A APHRAGM, TYPE B	2		
	LIMITED TO THE FOLLOWING, ALL I A. GRID DIMENSIONS AND HOP B. ALL DIMENSIONS, ELEVATION C. LOCATION AND EXTENT OF F D. ALL NON STRUCTURAL WALL REFER TO THE FOLLOWING SHEETS DESCRIPTION SYMBOLS AND ABBREVIATIONS STRUCTURAL GENERAL NOTES TESTING AND INSPECTION TYPICAL CONCRETE DETAILS TYPICAL CONCRETE DETAILS SEE ARCHITECTURAL DRAWINGS FOR SEE ARCHITECTURAL DRAWING PLAN ALL POSTS IN 4" WALLS SHALL BE 42 ALL POSTS IN 6" WALLS SHALL BE 62 TYPICAL WALL FRAMING SHALL BE 62 ALL INTERIOR WALLS NOT SHOWN ARCHIECTURAL DRAWINGS SHALL 43/S-401, UNO. DIAPHRAGM TYPES: < 65 PSF SNOW LOAD, ROOF DIAP 66-80	LIMITED TO THE FOLLOWING, ALL DIMENSIONS TO BE A. GRID DIMENSIONS AND HORIZONTAL CONTRO B. ALL DIMENSIONS, ELEVATIONS, FINISH SURFACE C. LOCATION AND EXTENT OF EXTERIOR WALL ASS D. ALL NON STRUCTURAL WALLS REFER TO THE FOLLOWING SHEETS FOR TYPICAL DETA DESCRIPTION SHEET (S) SYMBOLS AND ABBREVIATIONS S-101 STRUCTURAL GENERAL NOTES S-102 - S-103 TESTING AND INSPECTION S-103 TYPICAL CONCRETE DETAILS S-301 TYPICAL CONCRETE DETAILS S-401 - S-405 SEE ARCHITECTURAL DRAWINGS FOR ALL TOP OF SHE SEE ARCHITECTURAL, PLUMBING, MECHANICAL AND LOCATION OF PIPES, DUCTS AND OTHER ROOF PENET SHOWN ON ROOF FRAMING PLAN, SEE DETAIL 23/S-4 ALL POSTS IN 4" WALLS SHALL BE 4x4, UNLESS NOTED OF ALL POSTS IN 6" WALLS SHALL BE 4x4, UNLESS NOTED OF ALL POSTS IN 6" WALLS SHALL BE 6x6, UNLESS NOTED OF ALL POSTS IN 6" WALLS SHALL BE 6x6, UNLESS NOTED OF ALL POSTS IN 6" WALLS SHALL BE CONSTRUCTED ALL POSTS IN 6" WALLS SHALL BE CONSTRUCTED ALL POSTS IN 6" WALLS SHALL BE CONSTRUCTED ALL INTERIOR WALLS NOT SHOWN ON THE STRUCTUR/ ARCHIECTURAL DRAWINGS SHALL BE CONSTRUCTED 43/S-401, UNO. DIAPHRAGM TYPES: < 65 PSF SNOW LOAD, ROOF DIAPHRAGM, TYPE A 66-80 PSF SNOW LOAD, ROOF DIAPHRAGM, TYPE A 81-120 PSF SNOW LOAD, ROOF DIAPHRAGM, TYPE A 820-235 PSF SNOW LOAD, ROOF DIAPHRAGM, TYPE A 81-120 PSF SNOW	B. ALL DIMENSIONS, ELEVATIONS, FINISH SURFACE, SLOPES, DRAINS, SLAB DEPRESSIONS, ETC C. LOCATION AND EXTENT OF EXTERIOR WALL ASSEMBLIES AND OPENINGS D. ALL NON STRUCTURAL WALLS REFER TO THE FOLLOWING SHEETS FOR TYPICAL DETAILS:	LIMITED TO THE FOLLOWING, ALL DIMENSIONS TO BE VERIFIED PRIOR TO CONSTRUCTION: A. GRID DIMENSIONS AND HORIZONTAL CONTROL B. ALL DIMENSIONS, ELEVATIONS, FINISH SURFACE, SLOPES, DRAINS, SLAB DEPRESSIONS, ETC C. LOCATION AND EXTENT OF EXTERIOR WALL ASSEMBLIES AND OPENINGS D. ALL NON STRUCTURAL WALLS REFER TO THE FOLLOWING SHEETS FOR TYPICAL DETAILS: Image: Description SHEET (S) STRUCTURAL GENERAL NOTES S-101 STRUCTURAL GENERAL NOTES S-102 STRUCTURAL GENERAL NOTES S-103 TYPICAL CONCRETE DETAILS 11. TSTRUCTURAL GENERAL NOTES S-401 STRUCTURAL GENERAL NOTES S-401 SEE ARCHITECTURAL DRAWINGS FOR ALL TOP OF SHEATHING AND TOP OF WALL ELEVATIONS. 12. SEE ARCHITECTURAL DRAWINGS FOR ALL TOP OF SHEATHING AND TOP OF WALL ELEVATIONS. 13. LOCATION OF PIPES, DUCTS AND OTHER ROOF PENERATIONS, FOR ROOF PENERATIONS NOT SHOWN ON ROOF FRAMING PLAN, SEE DETAIL 23/S-403 FOR TYPICAL OPENINGS, UNO. 14. ALL POSTS IN 4" WALLS SHALL BE 4x4, UNLESS NOTED OTHERWISE. 14. TYPICAL WALL SHOW ON THE STRUCTURAL FRAMING PLANS BUT SHOWN ON THE A

" SHALL RECEIVE (2) ROWS OF BOUNDARY



DS TO ANY MEMBER (E.G. HVAC EQUIPMENT, I VERIFICATION THAT THE TRUSS IS CAPABLE OF

E SPECIFIC SNOW LOAD. TRUSS DRAWINGS T FOR REVIEW AND APPROVAL PRIOR TO A REFER TO SHEET S-103 PRE-FABRICATED

DING AT EAVES, SLIDING SNOW AND SNOW N THE ROOF CONFIGURATION.

ISSES IN PLACE OF SPECIFIED RAFTERS THAT IS BE INCLUDED IN THE SUBMITTAL TO THE

ELECT STRUCTURAL GRADE.

s and headers shall be selected from the PECIFIC SITE.

ARE CONSIDERED THE MINIMUMS. THE THE BUILDING LINE AS LONG AS IT IS NOT

W LOAD. TO FIND THE FLAT ROOF SNOW LOAD, x GROUND SNOW LOAD.

SYMBOL LEGEND

XX'-X''

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 $\overline{\times}$

--X

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INDICATES SHEAR WALL TYPE AND LENGTH, SEE SCHEDULE ON 13/S-402

INDICATES BLOCKING & STRAPPING ABOVE & BELOW WINDOW OPENINGS PER DETAIL 44/S-402

INDICATES HEADER @ OPENING. REFER TO 32/S-401 FOR HEADER SIZE, UNO ON PLANS

INDICATES TOP PLATE SPLICE NAILING PER 33/S-403 NOTE THAT NAILING APPLIES TO ENTIRE LENGTH OF TOP PLATE. PROVIDE TYPE C SPLICE, UNO

INDICATES CONT BLK & STRAP PER 24/S-405 @ ROOF, UNO

INDICATES STRAP PER 34/S-405, UNO

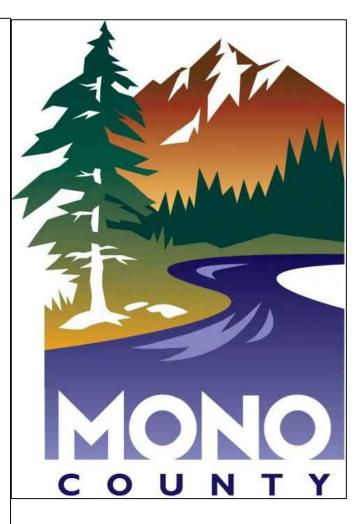
INDICATES DRAG TRUSS CONNECTOR PER 31/S-405, UNO

	HOLDOWN SCHEDULE	
SPECIFIES HOLE STRAP DETAIL	DOWN/	DETAIL
6X>	INDICATES SIMPSON SSTB HOLDOWN TO: CONC FOUNDATION: CONC STEM WALL:	12/S-311 22/S-311
7x	INDICATES SIMPSON SB HOLDOWN TO: CONC FOUNDATION: CONC STEM WALL:	14/S-311 24/S-311

SCHEDULES

	R	OOF RAFTER SCHEDULE	
MARK	SNOW LOAD	SIZE	REMARKS
D1	<235 PSF	2x8 @ 16" OC	
R1	235 PSF	2x10 @ 16" OC	

	BEAM SCHEDULE								
MARK	snow load	SIZE	REMARKS						
	<80 PSF	4x6							
B1	81-120 PSF	4x8							
	121-235 PSF	4x10							
	<80 PSF	6x8							
B2	81-120 PSF	6x10							
	121-235 PSF	6x12							



THESE PLANS ARE PROVIDED BY MONO COUNTY AS PART OF THE PRE-APPROVED ADU PROGRAM AND ARE PUBLIC DOMAIN. THERE CANNOT BE A CHARGE TO PROVIDE THESE PLANS. NO ALTERATIONS TO THESE PLANS ARE ALLOWED. ALL ALTERATIONS MUST BE DONE UNDER A SEPARATE PERMIT ONCE THE BUILDING PERMIT FOR THE ADU HAS BEEN ISSUED AND FINAL INSPECTION COMPLETED. IF YOU DO NOT HAVE THE CONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONTRUCT THESE PLANS WITHOUT FURTHER DETAILS, IT IS RECOMMENDED YOU HIRE A CONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS AND BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.

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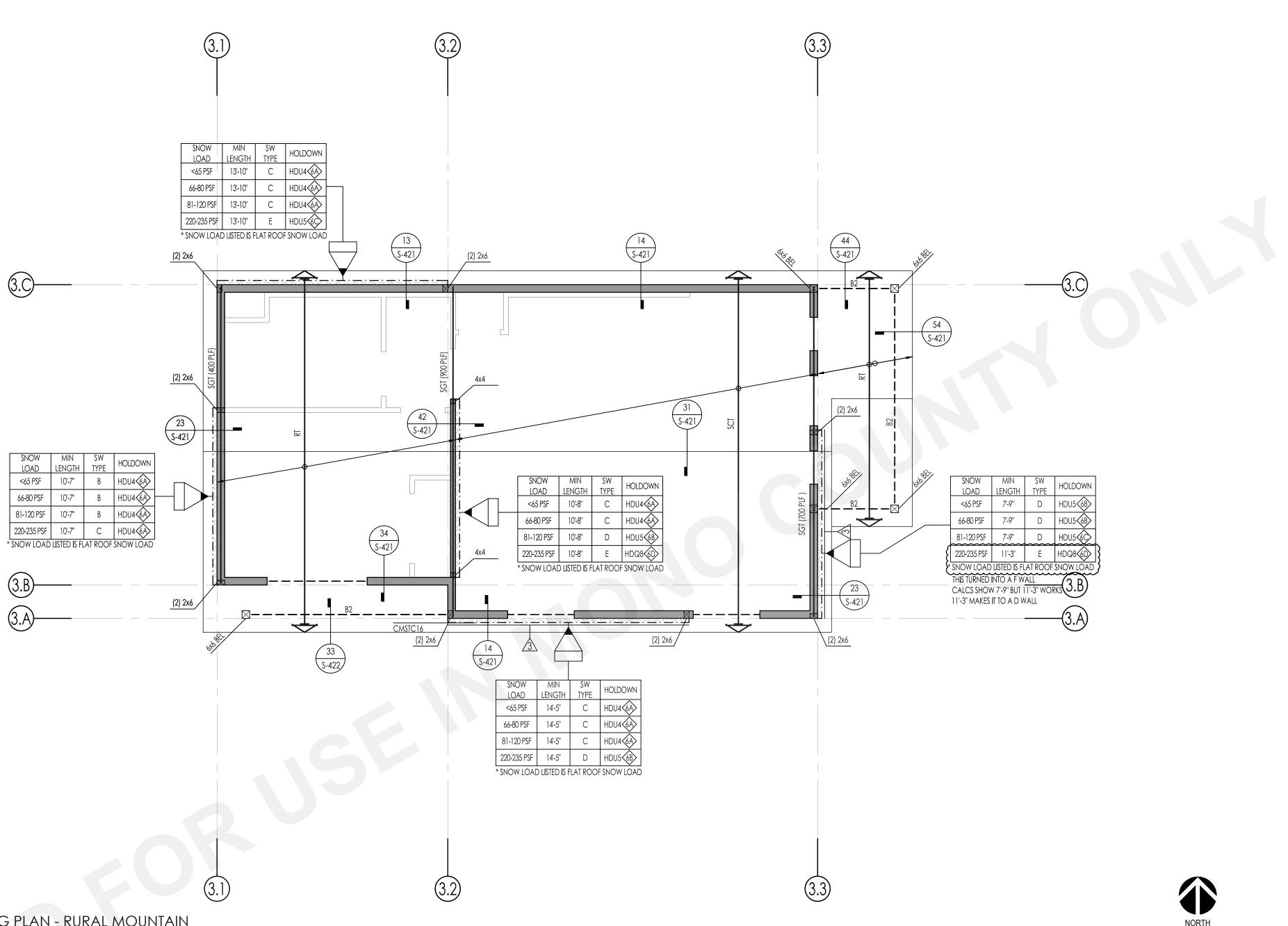
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DATE NOVEMBER 20, 2023





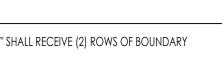
ROOF FRAMING PLAN - RURAL MOUNTAIN

SCALE: 1/4" = 1'-0"

REFER TO 12/-403

ROOF FRAMING PLAN NOTES

1.		DIMENSIONS TO BE	IS AND ELEVATIONS INCLUDING, BUT NOT VERIFIED PRIOR TO CONSTRUCTION:	8.	ALL LINES AND/OR MEMBERS INDICATED AS "STRUT" SH NAILING (BN), STGR.
		NS, FINISH SURFAC	e, slopes, drains, slab depressions, etc	9.	TRUSS MEMBERS AND COMPONENTS SHALL NOT BE C ALTERED IN ANY WAY WTHOUT WRITTEN CONCURREN DESIGN PROFESSIONAL.
2.	REFER TO THE FOLLOWING SHEETS	FOR TYPICAL DETA	ILS:	10.	
	DESCRIPTION	SHEET (S)]		WATER HEATER) SHALL NOT BE PERMITTED WITHOUT VE SUPPORTING SUCH ADDITIONAL LOADING.
	SYMBOLS AND ABBREVIATIONS	S-101			
	STRUCTURAL GENERAL NOTES	S-102 - S-103		11.	TRUSSES ARE TO BE DESIGNED FOR THE PROPER SITE SI
	TESTING AND INSPECTION	S-103			SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT F
	TYPICAL CONCRETE DETAILS	S-301			FABRICATION. FOR OTHER TRUSSES DESIGN CRITERIA I WOOD TRUSSES 1.B.a.
	TYPICAL WOOD DETAILS	S-401 - S-404	-		
			I EATHING AND TOP OF WALL ELEVATIONS.	12.	TRUSSES SHALL INCLUDED PROPER ICE DAMN LOADIN DRIFTS PER ASCE 7-16 WHERE APPLICABLE BASED ON
	SHOWN ON ROOF FRAMING PLAN		IRATIONS. FOR ROOF PENETRATIONS NOT 103 FOR TYPICAL OPENINGS, UNO.		STRUCTURALLY ACCEPTABLE. THESE TRUSSES SHALL BE BUILDING DEPARTMENT.
5.	ALL POSTS IN 4" WALLS SHALL BE 4) ALL POSTS IN 6" WALLS SHALL BE 6)			14.	AL LUMBER EXPOSED TO THE ELEMENTS SHALL BE SELE
	TYPICAL WALL FRAMING SHALL BE 2x6 @ 16'' OC @ ALL EXTERIOR WA	:: .LLS, UNO		15.	SHEARWALL CONSTRUCTION, HOLDOWNS, RAFTERS A TABLES BASED ON THE SNOW LOADING FOR THE SPEC
	2x6 @ 16" OC @ ALL INTERIOR BEA 2x4 @ 16" @ ALL INTERIOR NON-BE.		D	16.	SHEARWALL LENGTHS LISTED IN THE TABLES ABOVE AR SHEARWALL CAN BE PLACED ANYWHERE ALONG THE
).	ARCHIECTURAL DRAWINGS SHALL		AL FRAMING PLANS BUT SHOWN ON THE PER NON-BEARING PARTION WALL DETAIL	17	INTERRUPTED BY A DOORWAY OR WINDOW.
	43/S-401, UNO.			17.	FOLLOW THIS EQUATION: FLAT ROOF SNOW = $0.77 \times C$
7.	DIAPHRAGM TYPES: < 65 PSF SNOW LOAD, ROOF DIAP				





DS TO ANY MEMBER (E.G. HVAC EQUIPMENT, I VERIFICATION THAT THE TRUSS IS CAPABLE OF

E SPECIFIC SNOW LOAD. TRUSS DRAWINGS T FOR REVIEW AND APPROVAL PRIOR TO A REFER TO SHEET S-103 PRE-FABRICATED

DING AT EAVES, SLIDING SNOW AND SNOW ON THE ROOF CONFIGURATION.

ISSES IN PLACE OF SPECIFIED RAFTERS THAT IS BE INCLUDED IN THE SUBMITTAL TO THE

ELECT STRUCTURAL GRADE.

s and headers shall be selected from the PECIFIC SITE.

ARE CONSIDERED THE MINIMUMS. THE THE BUILDING LINE AS LONG AS IT IS NOT

W LOAD. TO FIND THE FLAT ROOF SNOW LOAD, x GROUND SNOW LOAD.

SYMBOL LEGEND

XX'-X''

X /

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—(X)

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INDICATES SHEAR WALL TYPE AND LENGTH, SEE SCHEDULE ON 13/S-402

INDICATES BLOCKING & STRAPPING ABOVE & BELOW WINDOW OPENINGS PER DETAIL 44/S-402

INDICATES HEADER @ OPENING. REFER TO 32/S-401 FOR HEADER SIZE, UNO ON PLANS

INDICATES TOP PLATE SPLICE NAILING PER 33/S-403 NOTE THAT NAILING APPLIES TO ENTIRE LENGTH OF TOP PLATE. PROVIDE TYPE C SPLICE, UNO

INDICATES CONT BLK & STRAP PER 24/S-405 @ ROOF, UNO

INDICATES STRAP PER 34/S-405, UNO

INDICATES DRAG TRUSS CONNECTOR PER 31/S-405, UNO

	HOLDOWN SCHEDULE							
SPECIFIES HOLD	SPECIFIES HOLDOWN/							
<6x>	INDICATES SIMPSON SSTB HOLDOWN TO: CONC FOUNDATION: CONC STEM WALL:	12/S-311 22/S-311						
<7x>	INDICATES SIMPSON SB HOLDOWN TO: CONC FOUNDATION: CONC STEM WALL:	14/S-311 24/S-311						

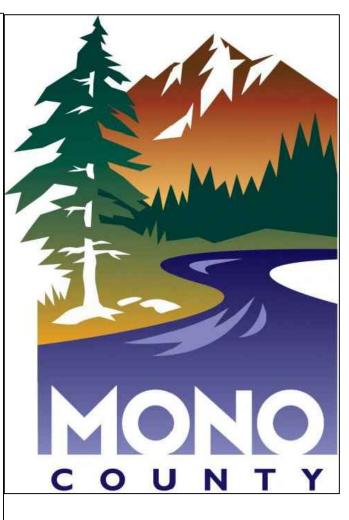
SCHEDULES

PREFABRICATED ROOF TRUSS

1. FOR PREFABRICATED ROOF TRUSS NOTES SEE NOTES ON SHEET S-103

	ROOF TRUSS SCHEDU	IF	
MARK	DESCRIPTION	REMARKS	
RT	ROOF TRUSS (COMMON) 24" OC M,		
SGT	STRUCTURAL GABLE TRUSS	STRUCTURAL GABLE TRUSS	
SCT	SCISSOR TRUSS		
MT	MONO PITCH TRUSS	24" OC MAX	
JT	JACK TRUSS	24" OC MAX	
VJT	VALLEY JACK TRUSS 24" OC M		
CJT	CORNER JACK TRUSS		
GT	GIRDER TRUSS		
MGT	MONO PITCH GIRDER TRUSS		
DT (#*)	DRAG TRUSS		
CGT	CALIFORNIA GIRDER TRUSS		
HR	HIP RAFTER / JACK RAFTER		
CHT	CALIFORNIA HIP TRUSS	24" OC MAX	

(#*) - EQUALS DRAG FORCE IN LBS, DRAG FORCE IS AT A FACTORED LEVEL (0.7E) DRAG FORCES CALCULATED IN ACCORDANCE WITH ASCE 7-16 12.10.1.1. IN STRUCTURES ENTIRELY BRACED BY LIGHT FRAME SHEAR WALLS, OR PORTIONS THEREOF, DRAG MEMBERS SHALL BE DESIGNED TO RESIST FORCES USING THE LOAD COMBINATIONS OF ASCE 7-16 SECTION 12.4.2.3 IN ALL OTHER STRUCTURES DRAGS SHALL INCLUDE THE EFFECT OF OVER STRENGTH PER ASCE 7-16 12.4.3.2



THESE PLANS ARE PROVIDED BY MONO COUNTY AS PART OF THE PRE-APPROVED ADU PROGRAM AND ARE PUBLIC DOMAIN. THERE CANNOT BE A CHARGE TO PROVIDE THESE PLANS. NO ALTERATIONS TO THESE PLANS ARE ALLOWED. ALL ALTERATIONS MUST BE DONE UNDER A SEPARATE PERMIT ONCE THE BUILDING PERMIT FOR THE ADU HAS BEEN ISSUED AND FINAL INSPECTION COMPLETED. IF YOU DO NOT HAVE THE CONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONTRUCT THESE PLANS WITHOUT FURTHER DETAILS, IT IS RECOMMENDED YOU HIRE A CONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS AND BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.

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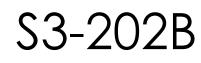
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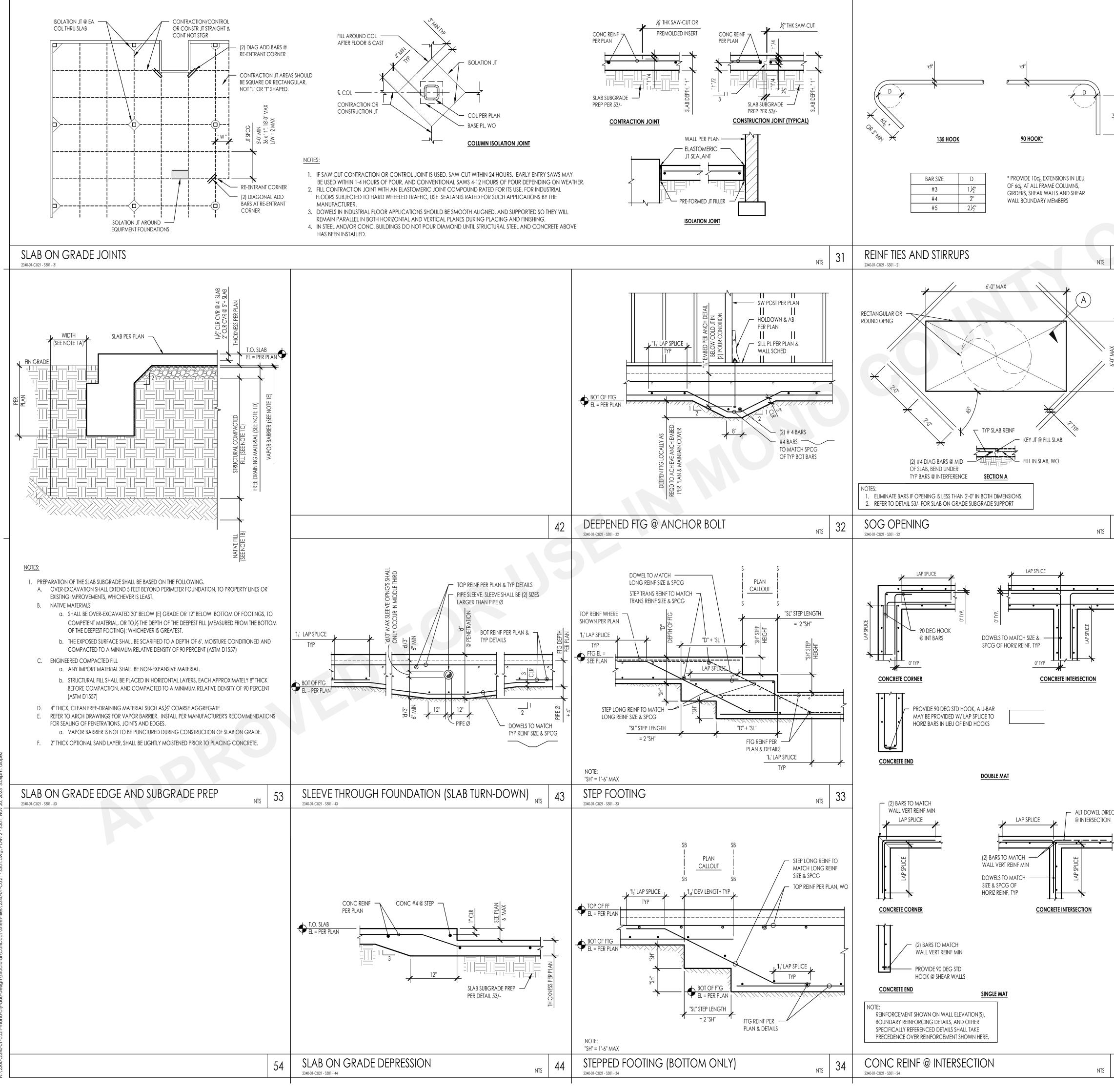
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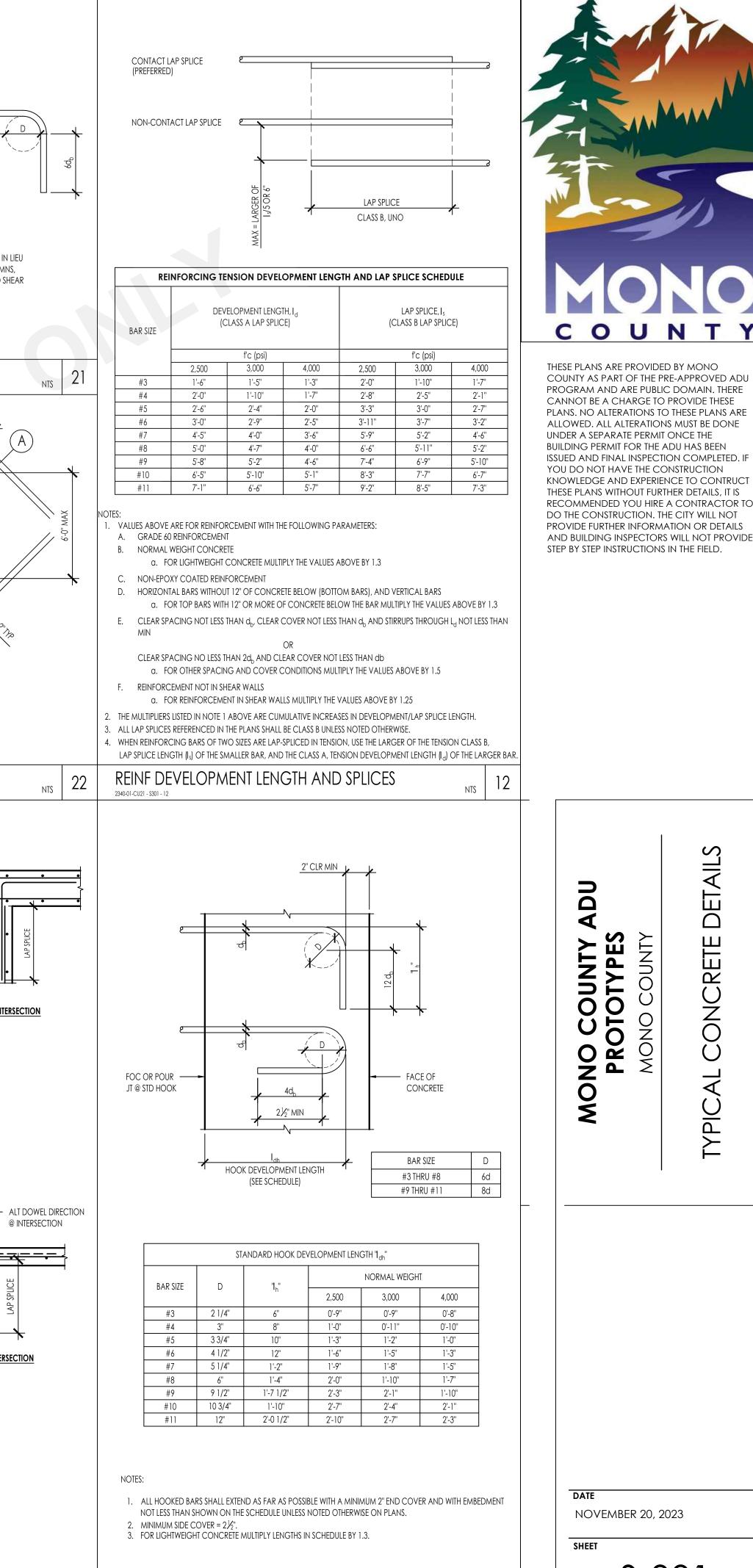
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DATE

NOVEMBER 20, 2023







BUILDING PERMIT FOR THE ADU HAS BEEN ISSUED AND FINAL INSPECTION COMPLETED. IF YOU DO NOT HAVE THE CONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONTRUCT THESE PLANS WITHOUT FURTHER DETAILS, IT IS RECOMMENDED YOU HIRE A CONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS AND BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.

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REINF HOOK DEVELOPMENT LENGTH AND BENDS 2340-01-CU21 - S301 - 14

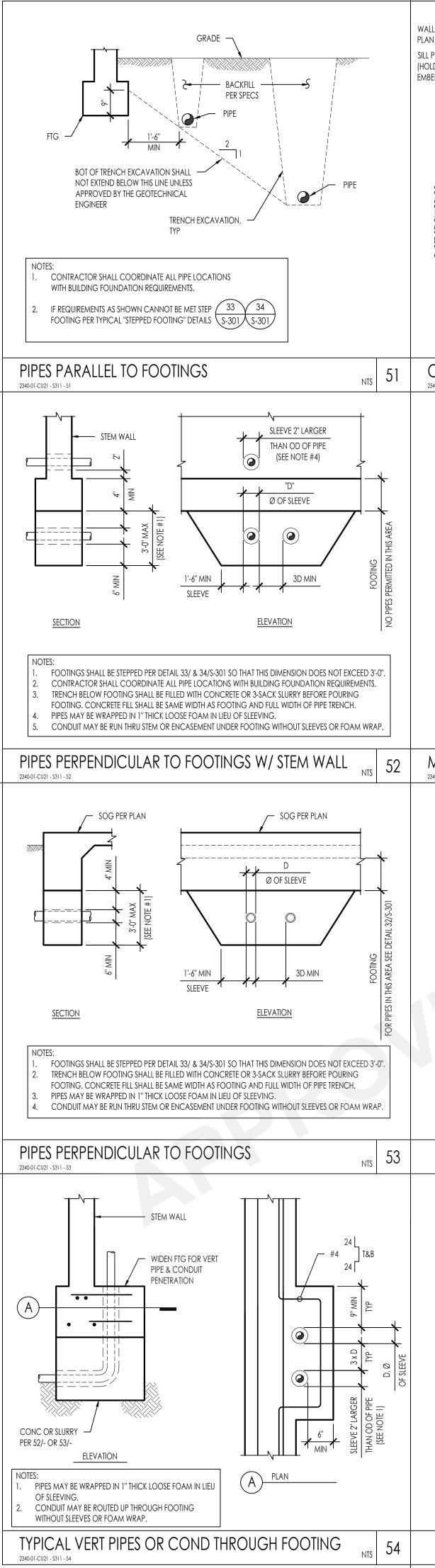
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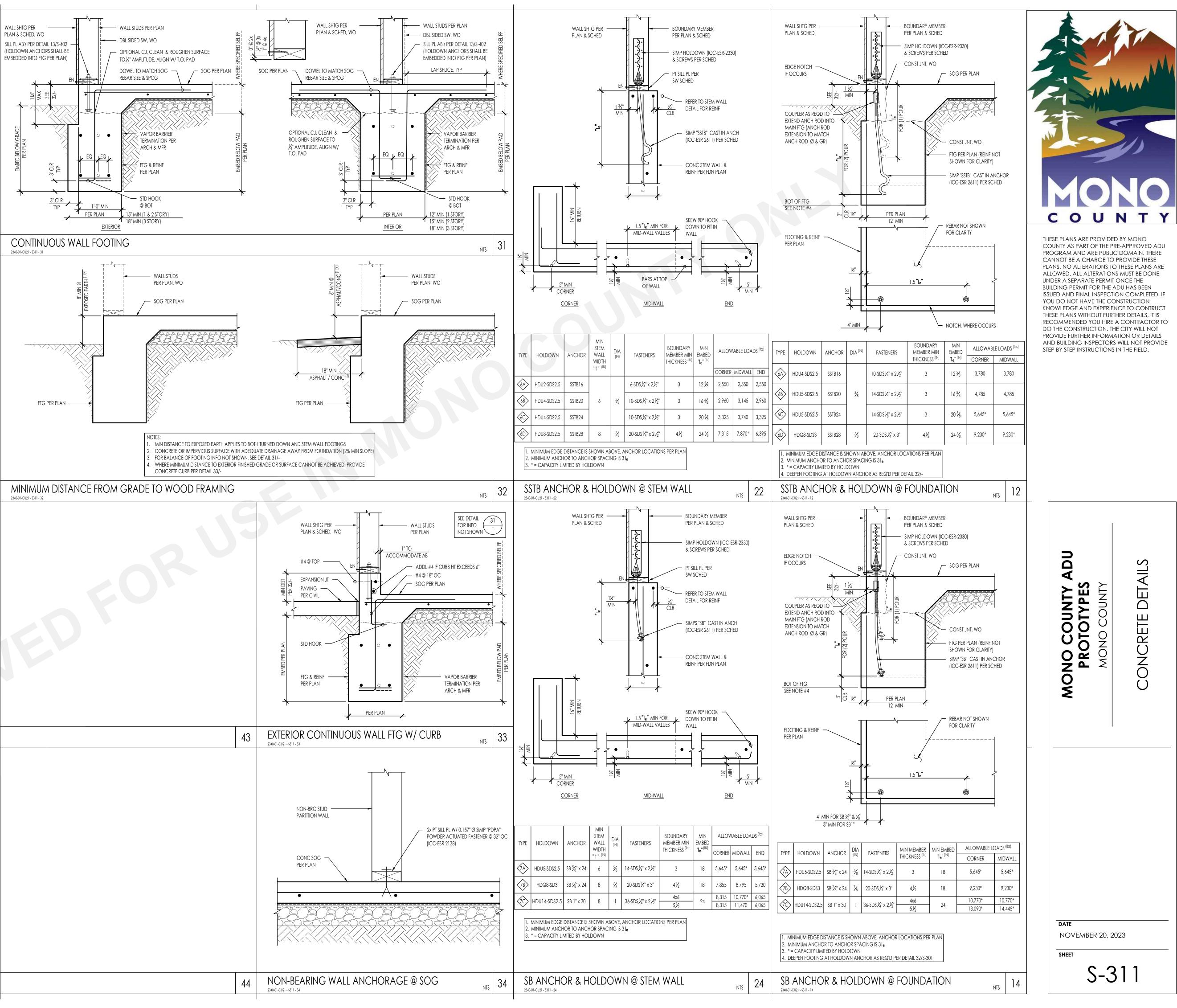
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S-301

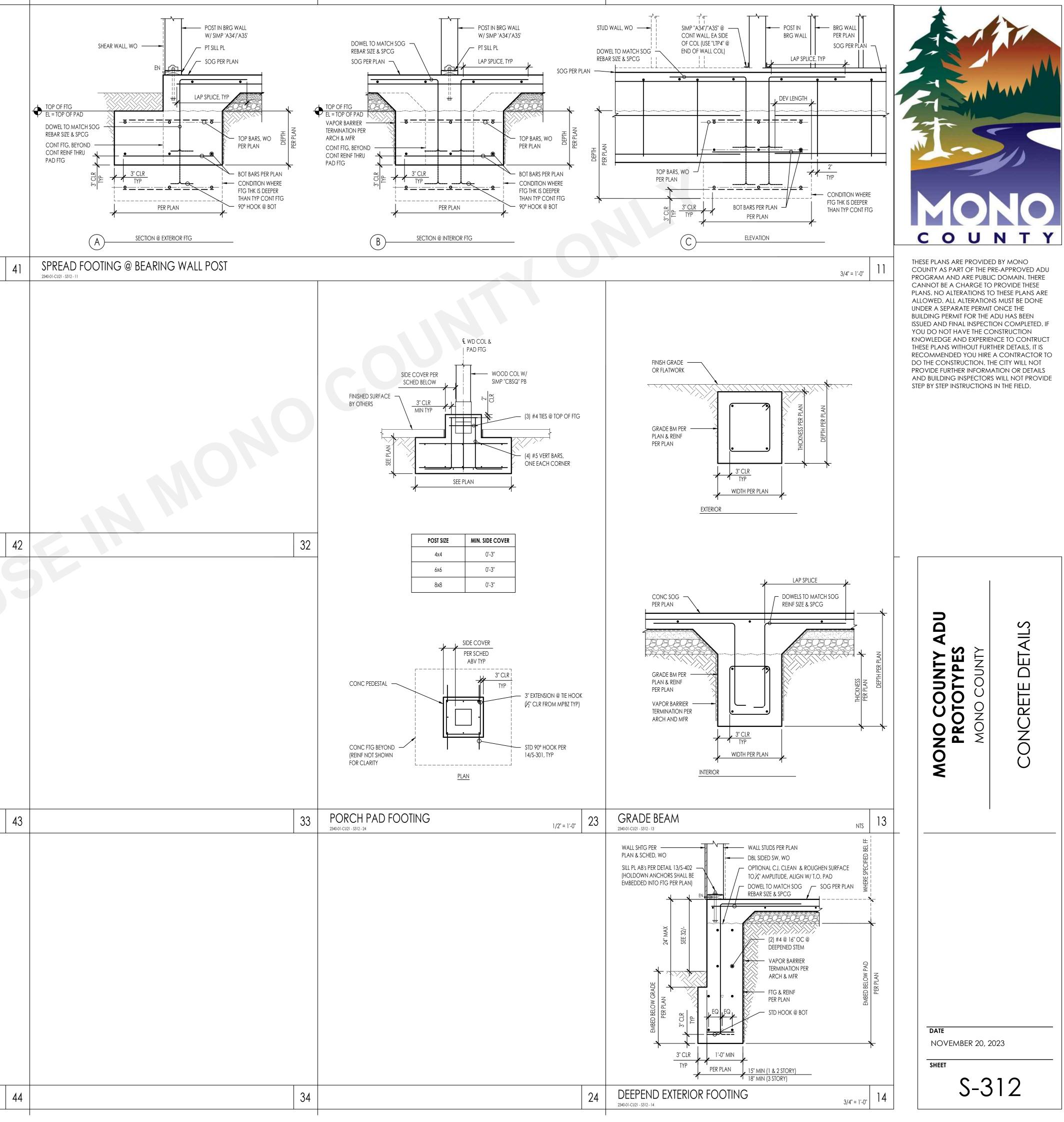
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DATE

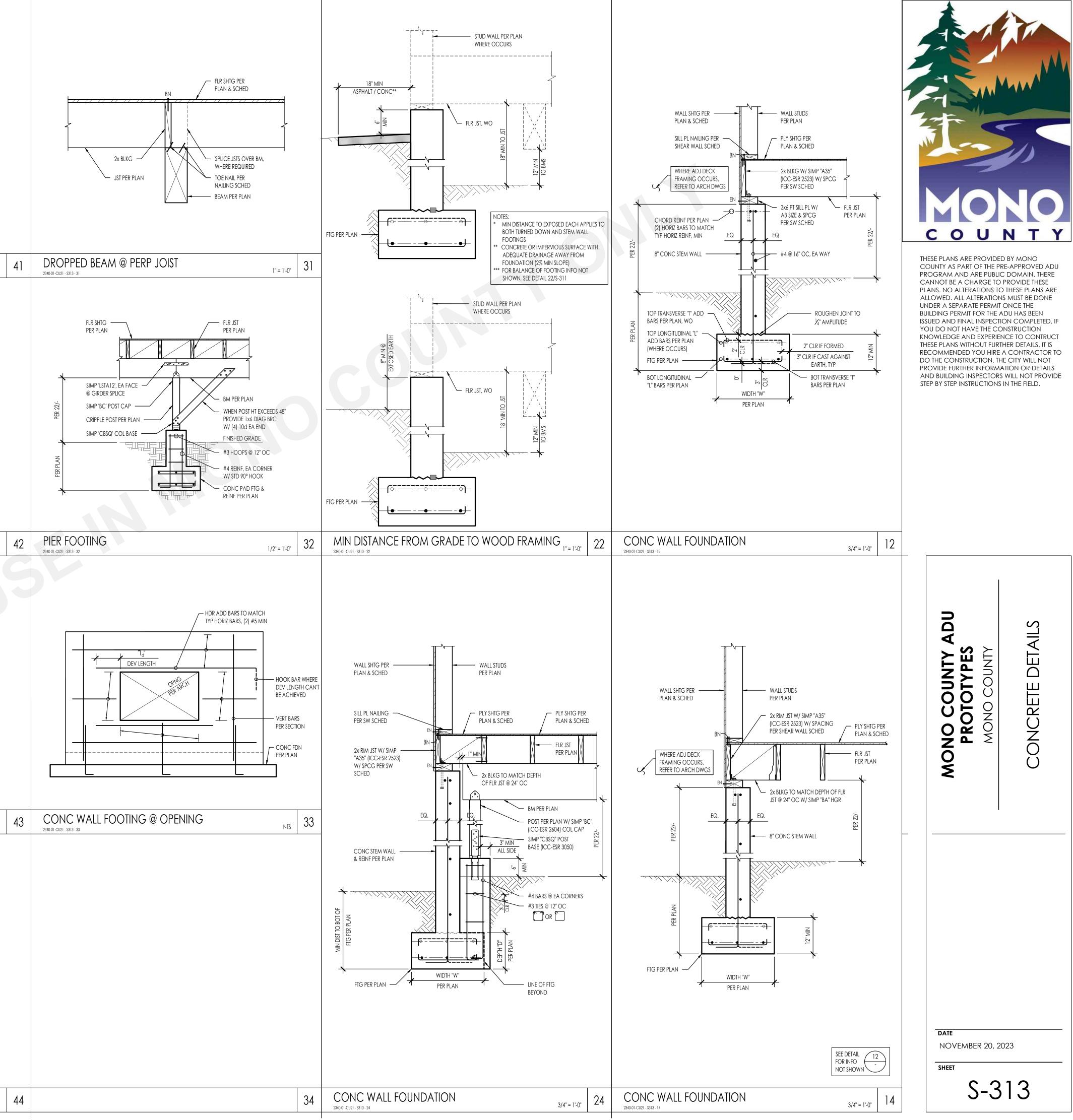




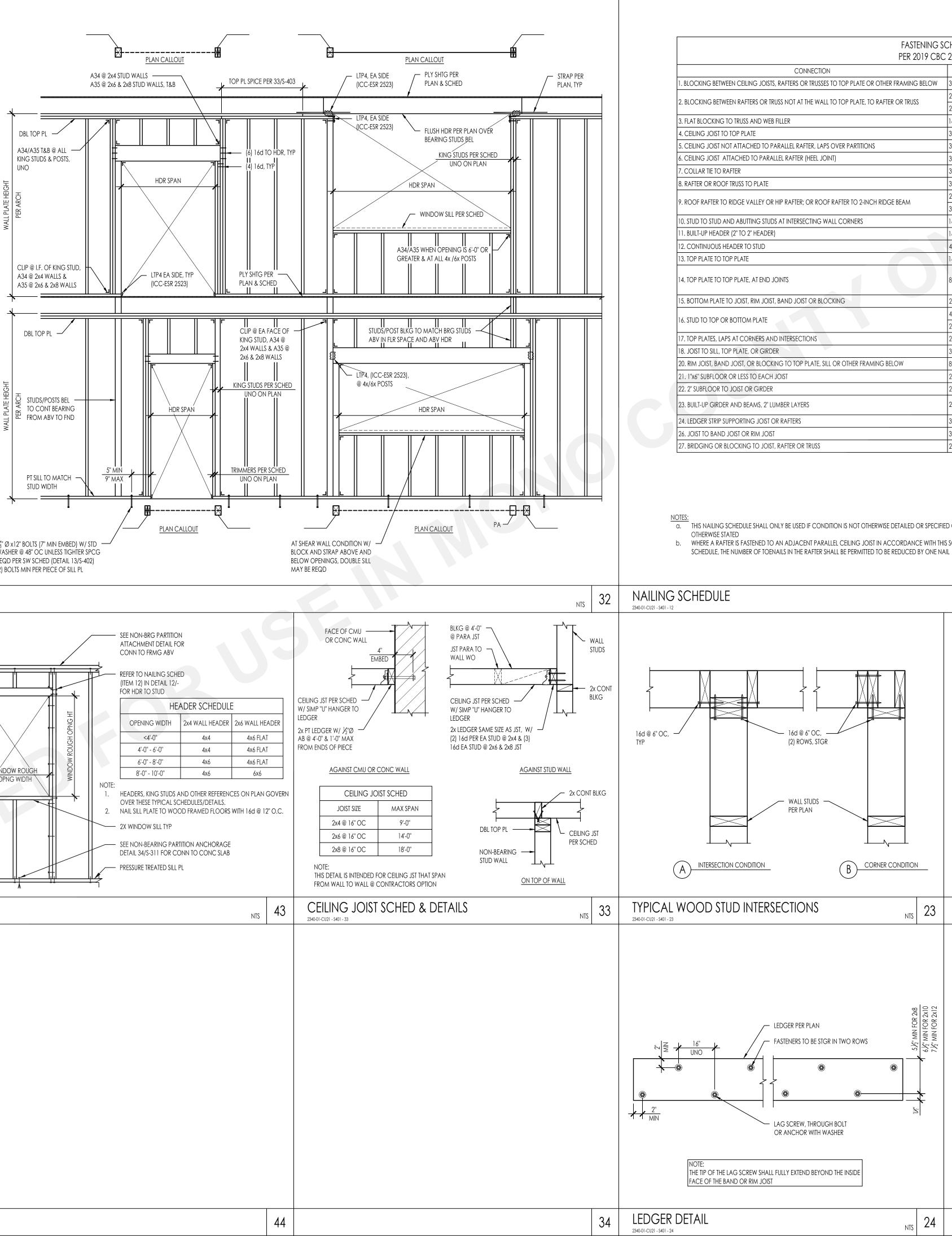




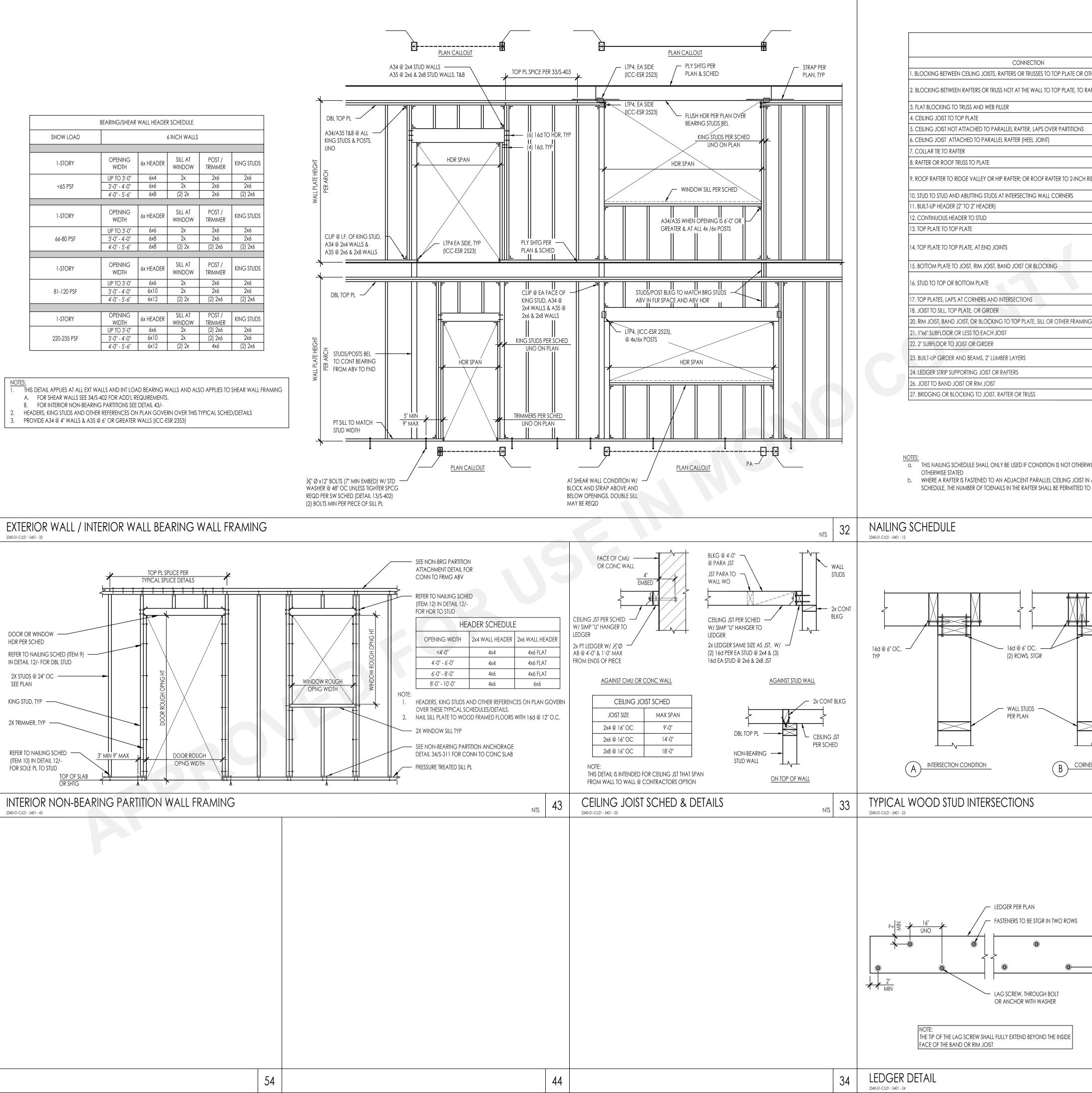




	BEARING/SHEAR	WALL HEADER	R SCHEDULE		
snow load			6 INCH WALLS		
1-STORY	OPENING WIDTH	6x HEADER	SILL AT WINDOW	POST / TRIMMER	
	UP TO 3'-0"	6x4	2x	2x6	2x6
<65 PSF	3'-0'' - 4'-0''	6x6	2x	2x6	2x6
	4'-0" - 5'-6"	6x8	(2) 2x	2x6	(2) 2x6
					1
1-STORY	OPENING WIDTH	6x HEADER	SILL AT WINDOW	POST / TRIMMER	KING STUD
	UP TO 3'-0"	6x6	2x	2x6	2x6
66-80 PSF	3'-0'' - 4'-0''	6x8	2x	2x6	2x6
	4'-0" - 5'-6"	6x8	(2) 2x	(2) 2x6	(2) 2x6
		1			1
1-STORY	OPENING WIDTH	6x HEADER	SILL AT WINDOW	POST / TRIMMER	KING STUD
	UP TO 3'-0"	6x6	2x	2x6	2x6
81-120 PSF	3'-0'' - 4'-0''	6x10	2x	2x6	2x6
	4'-0" - 5'-6"	6x12	(2) 2x	(2) 2x6	(2) 2x6
1-STORY	OPENING WIDTH	6x HEADER	SILL AT WINDOW	POST / TRIMMER	KING STUDS
	UP TO 3'-0"	6x6	2x	(2) 2x6	2x6
220-235 PSF	3'-0" - 4'-0"	6x10	2x	(2) 2x6	2x6
	4'-0" - 5'-6"	6x12	(2) 2x	4x6	(2) 2x6



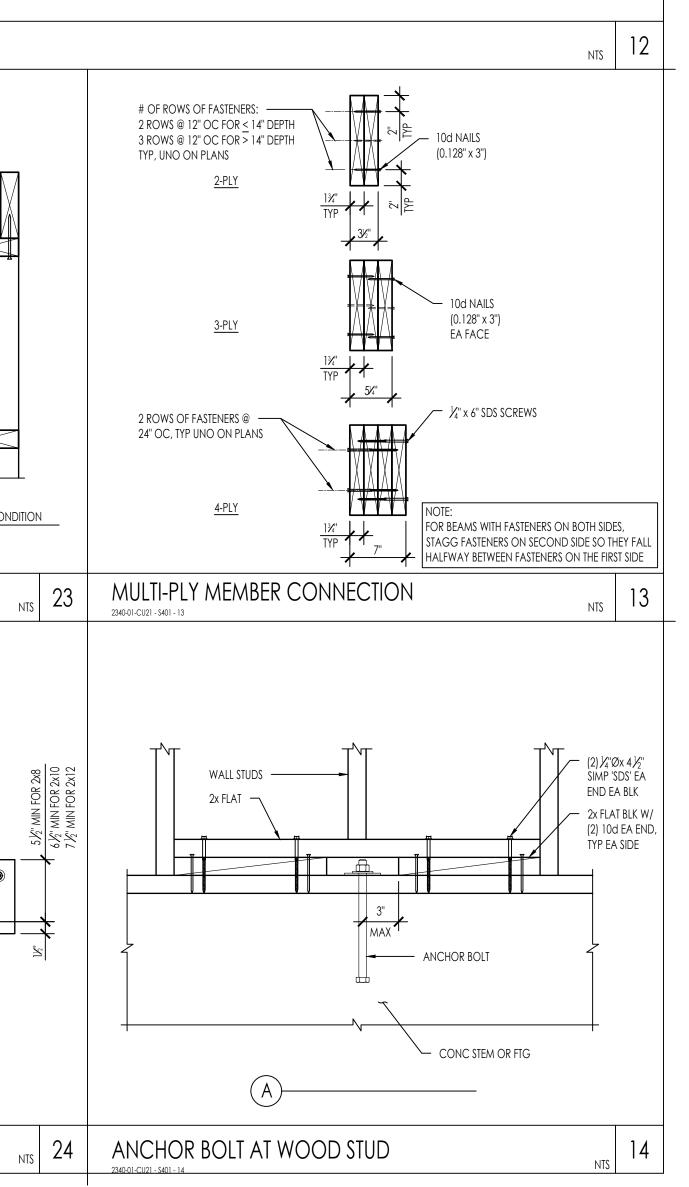
A. FOR SHEAR WALLS SEE 34/S-402 FOR ADD'L REQUIREMENTS.



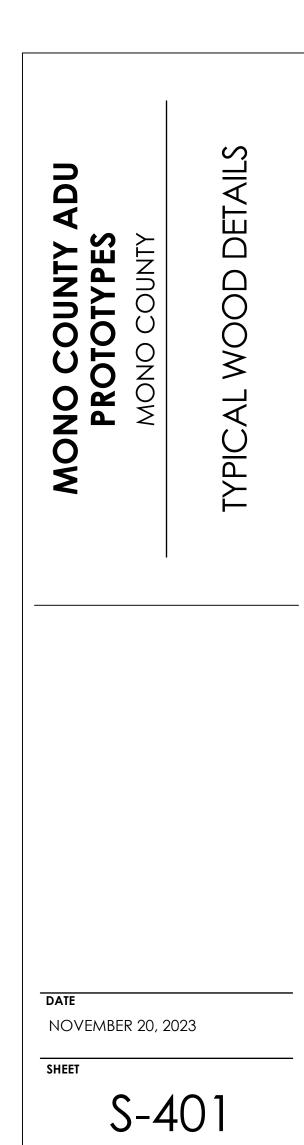


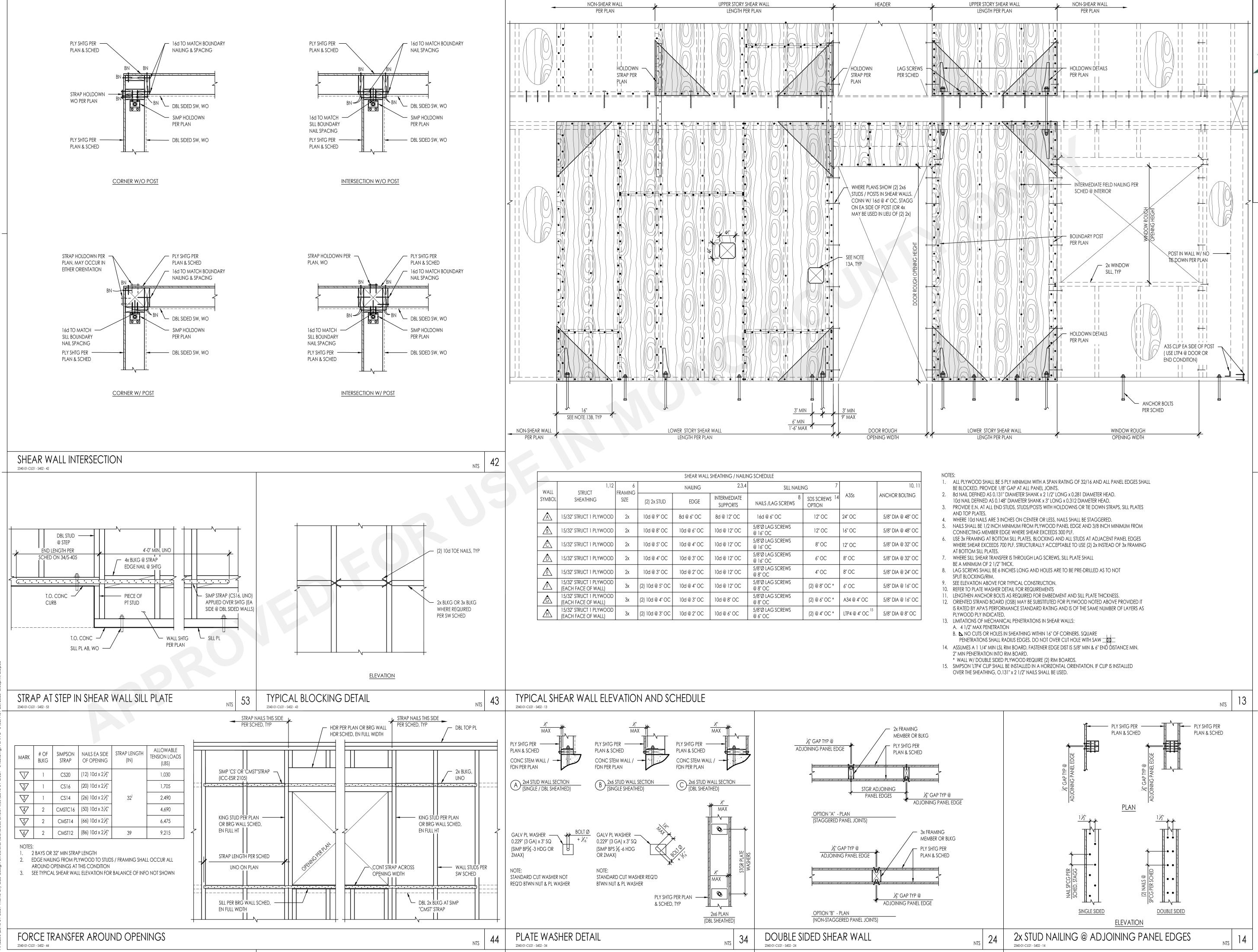
FASTENING S PER 2019 CBC		
	FASTENING	LOCATION
R FRAMING BELOW	3-8d COMMON	EACH END, TOENAIL
	2-8d COMMON	EACH END, TOENAIL
R OR TRUSS	2-16d COMMON	END NAIL
	16d COMMON @ 6" OC	FACE NAIL
	3-8d COMMON	EACH JOIST, TOENAIL
	3-16d COMMON	FACE NAIL
	3-16d COMMON	FACE NAIL
	3-10d COMMON	FACE NAIL
	3-10d COMMON	TOENAIL ^b
	2-16d COMMON	END NAIL
E BEAM	3-10d COMMON	TOENAIL
	16d COMMON	16" OC FACE NAIL
	16d COMMON	16" OC EACH EDGE, FACE NAIL
	4-10d COMMON	TOENAIL
	16d COMMON	16" OC FACE NAIL
	8-16d COMMON	EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
	2-16d COMMON	16" OC FACE NAIL
	4-8d COMMON	TOENAIL
	2-16d COMMON	END NAIL
	2-16d COMMON	FACE NAIL
	3-8d COMMON	TOENAIL
LOW	8d COMMON	6" OC, TOENAIL
	2-8d COMMON	FACE NAIL
	2-16d COMMON	FACE NAIL
	20d COMMON (4" x 0.192")	32" OC FACE NAIL AT TOP AND BOTTOM STAGGERED ON APPOSITE SIDE
	3-16d COMMON	EACH JOIST OR RAFTER, FACE NAIL
	3-16d COMMON	END NAIL
	2-8d COMMON	EACH END, TOENAIL

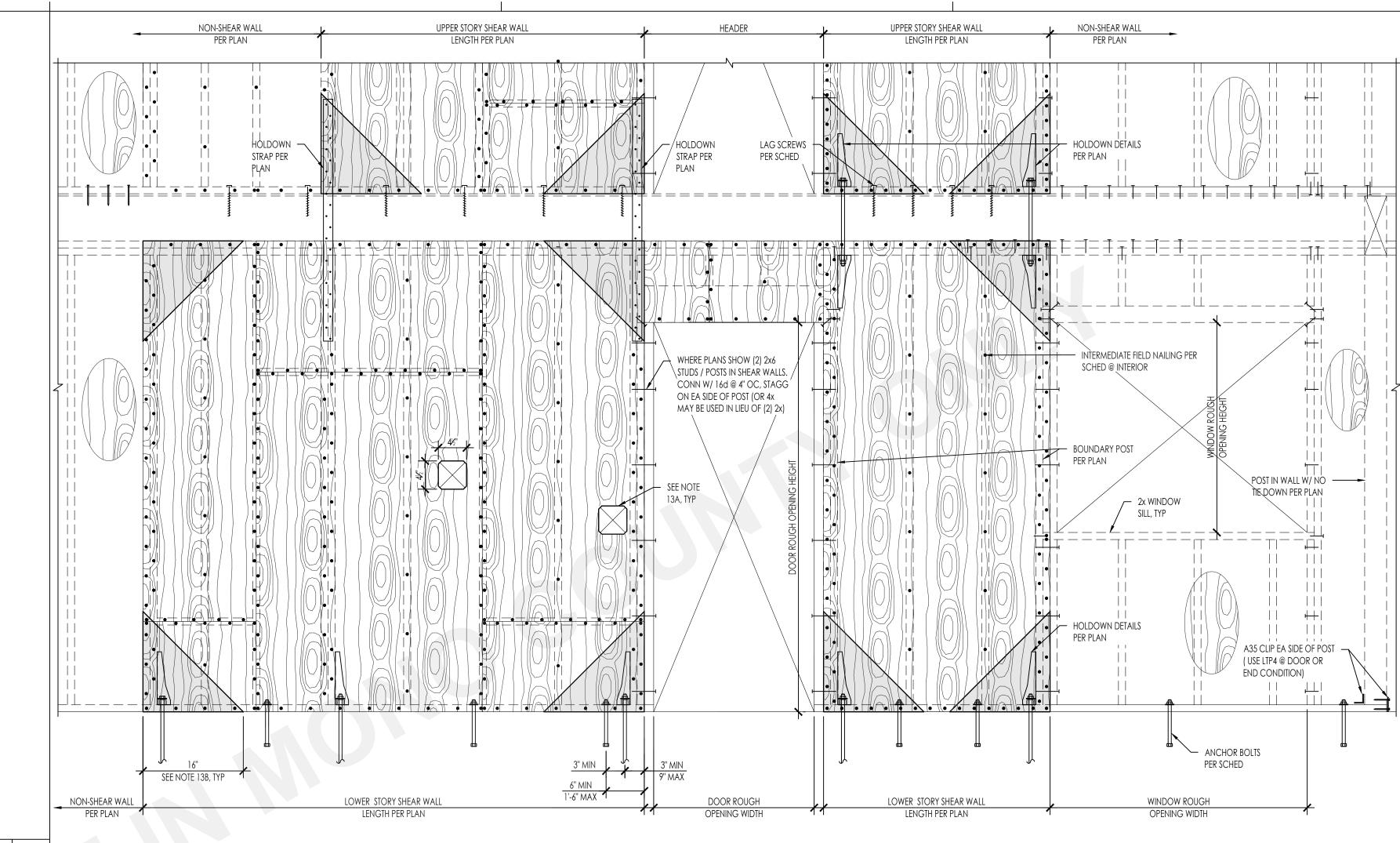
a. THIS NAILING SCHEDULE SHALL ONLY BE USED IF CONDITION IS NOT OTHERWISE DETAILED OR SPECIFIED ON THE CONSTRUCTION DOCUMENTS. COMMON NAILS SHALL BE USED EXCEPT WHERE b. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS



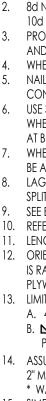






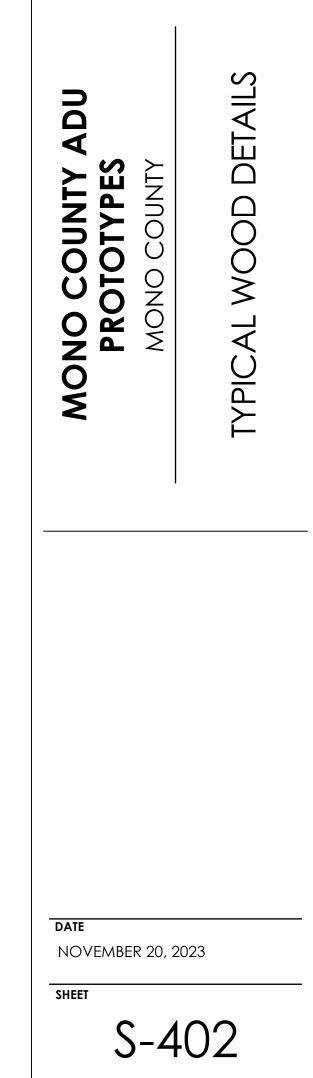


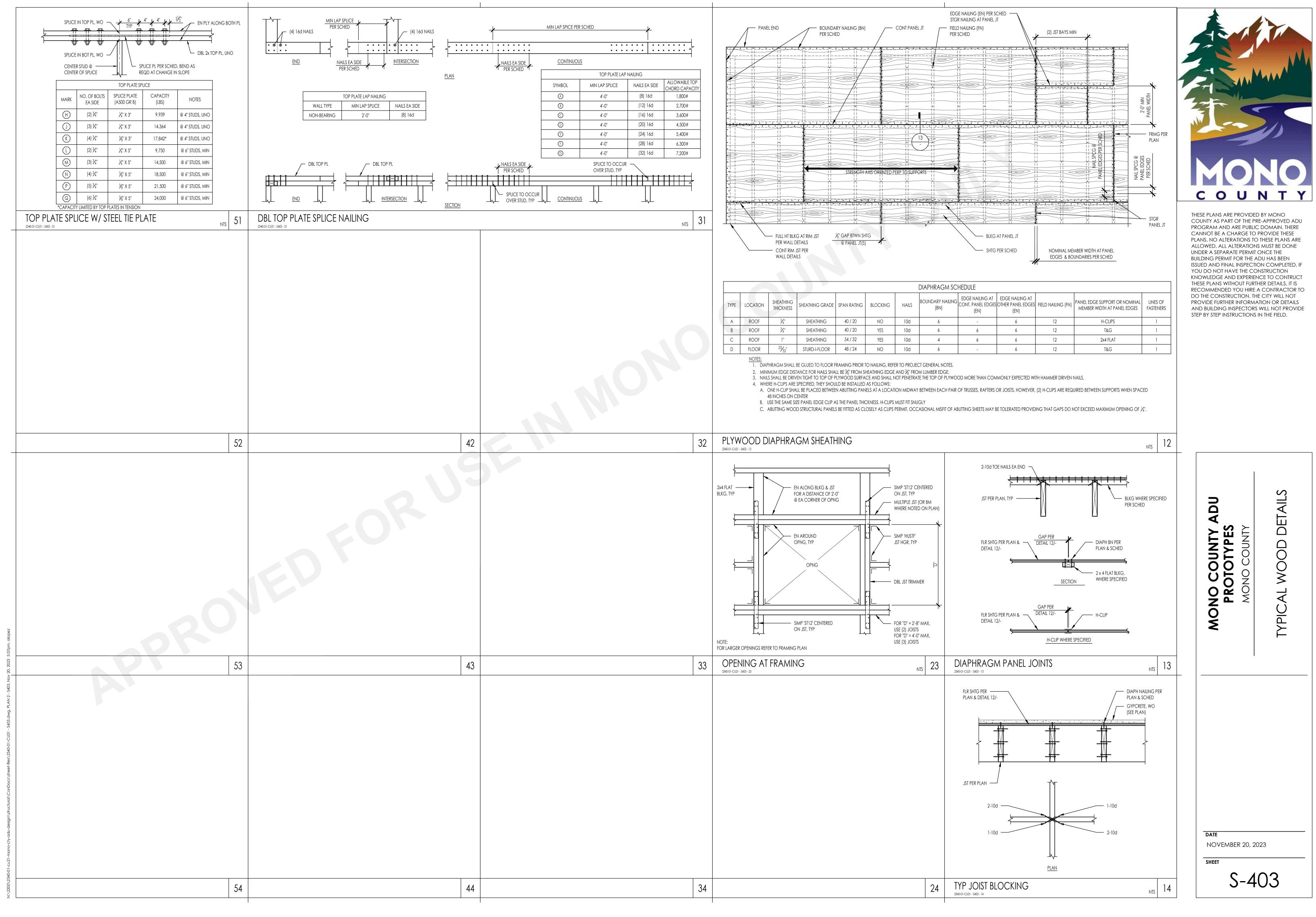




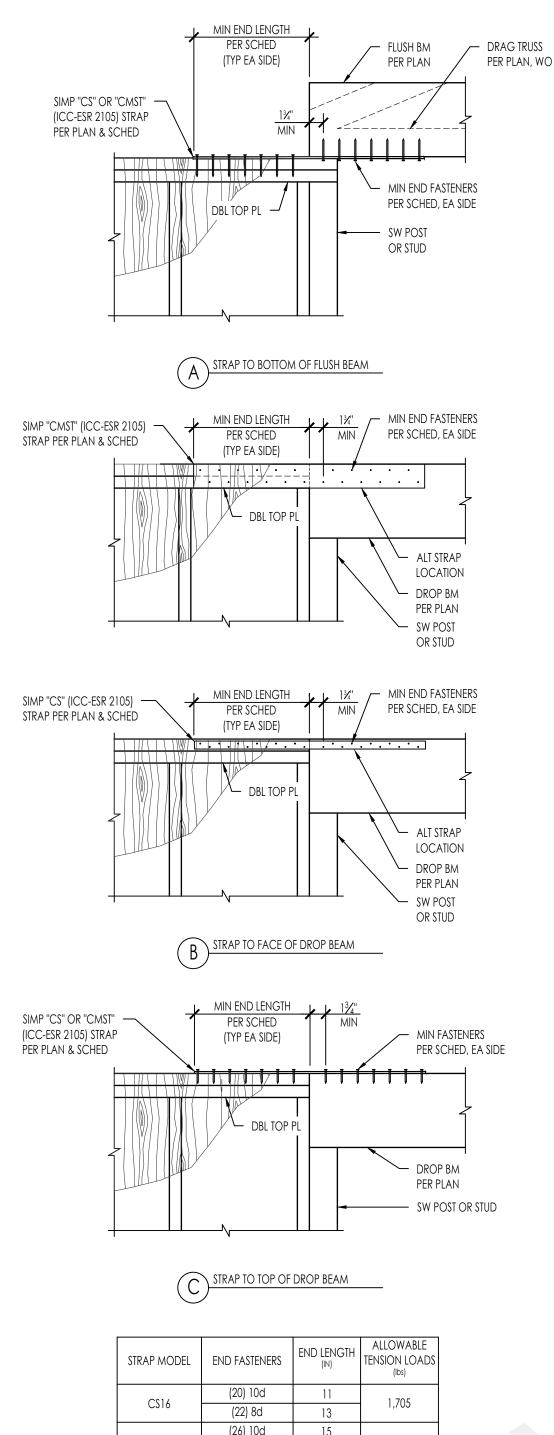








	DIAPHRAGM SCI	HEDULE				
NAILS	BOUNDARY NAILING (BN)	EDGE NAILING AT CONT. PANEL EDGES (EN)	EDGE NAILING AT OTHER PANEL EDGES (EN)	FIELD NAILING (FN)	PANEL EDGE SUPPORT OR NOMINAL MEMBER WIDTH AT PANEL EDGES	LINES OF FASTENERS
10d	6	-	6	12	H-CLIPS	1
10d	6	6	6	12	T&G	1
10d	4	6	6	12	2x4 FLAT	1
10d	6	-	6	12	T&G	1



STRAP MODEL	end fasteners	END LENGTH	ALLOWABLE TENSION LOADS (Ibs)	
C\$16	(20) 10d	11	1 705	
	(22) 8d	13	1,705	
C\$14	(26) 10d	15	2,490	
	(30) 8d	16		
CMSTC16	(50) 16d	20	4,690	
CMST14	(56) 16d	26	/ 475	
	(66) 10d	30	6,475	
C145110	(74) 16d	33	9,215	
CMST12	(86) 10d	39		



BLOCK & STRAP PERP TO FRMG 2340-01-CU21 - S404 - 43

LENGTH OF STRAPPING

PER PLAN

LENGTH OF STRAPPING

PER PLAN

LENGTH OF STRAPPING

PER PLAN

STRAP PER PLAN, T&B, SPLICE -

AS REQ'D WITH LAP LENGTH

& FASTENERS PER SCHEDULE

FULL LENGTH OF STRAP W/

WIDTH PER SCHEDULE

FULL DEPTH TRUSS PANEL BLKG

STRAP PER PLAN, T&B, SPLICE -

AS REQ'D WITH LAP LENGTH

& FASTENERS PER SCHEDULE

OF STRAP W/ WIDTH PER

SCHEDULE

FULL DEPTH BLKG FULL LENGTH

STRAP PER PLAN, T&B, SPLICE

AS REQ'D WITH LAP LENGTH

& FASTENERS PER SCHEDULE

OF STRAP W/ WIDTH PER

SCHEDULE

C\$16

CS14

CMSTC16

CMST14

CMST12

FULL DEPTH BLKG FULL LENGTH -

STRAP MODEL END FASTENERS

(20) 10d

(22) 8d

(26) 10d

(30) 8d

(50) 16d

(56) 16d

(66) 10d

(74) 16d

(50) 16d 20

(86) 10d 39

END LENGTH

PER SCHED

END LENGTH

PER SCHED

END LENGTH

PER SCHED

B) SOLID SAWN FRAMING

TJI FRAMING

FASTENERS

PER SPLICE

(5) 10d

(6) 8d

(6) 10d

(7) 8d

(11) 16d

(11) 16d

(13) 16d

(15) 10d

(18) 16d

9

10

END LENGTH ^{(IN}

11

13

15

16

20

26

30

33

wood truss framing

DRAG STRAP AT BEAM-TO-WALL 2340-01-CU21 - S404 - 53

