

MONO COUNTY PROTOTYPE ACCESSORY DWELLING UNIT - PLAN 5 MONO COUNTY, CA

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Grand total:	
2.2	

SUPPORTING DOCUMENTS

DEFERRED SUBMITTALS

SLAB ON GRADE PROJECT REQUIRES A 2.01 kWdc PV SYSTEM.

RAISED FOUNDATION PROJECT REQUIRES A 2.11 kWdc PV

SYSTEM SHALL BE COMPLETED PRIOR TO FINAL INSPECTION.

TRUSS DESIGN AND CALCULATIONS.

CARSTAIRS ENERGY INC.

08/04/2022

22-051011

PROJECT DIRECTORY

APPLICANT

(TO BE PROVIDED E

CONTACT:	
EMAIL:	
PHONE:	

ARCHITECT

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

> CONTACT PHONE: P:(805) 543-1794

PROJECT INFORMATION

PROJECT SCOPE:

- 1. CONSTRUCTION OF A NEW DETACHED 1 STORY 1033 SF ACCESSORY
- PRIMARY DWELLING UNIT WITH 2 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 OP TOWN OF MAMMOTH LAKES)

STREET ADDRESS:		
APN:		
ZONING:		
LOT SIZE:		
LAND USE:		
EXISTING USE:		
PROPOSED USE:		
FLOOR AREA RATIO		
(TO BE PROVIDED BY COUNT)	OF MONO OR TOWN OF MAMMOT	HLAKES
MAXIMUM FAR:		
PROPOSED FAR:		
LOT COVERAGE		
(TO BE PROVIDED BY OWNER))	
BUILDING:		
BUILDING:		
BUILDING: HARDSACPE/PAVING:		
BUILDING: HARDSACPE/PAVING: LANDSCAPE: SETBACKS	OF MONO OR TOWN OF MAMMOT	'H LAKES
BUILDING: HARDSACPE/PAVING: LANDSCAPE: SETBACKS (TO BE PROVIDED BY COUNTY	OF MONO OR TOWN OF MAMMOT	
BUILDING: HARDSACPE/PAVING: LANDSCAPE: SETBACKS (TO BE PROVIDED BY COUNTY FRONT:	REQUIRED	H LAKES , PRO
BUILDING: HARDSACPE/PAVING: LANDSCAPE: SETBACKS (TO BE PROVIDED BY COUNTY FRONT: REAR:	4' - 0" (A.B. NO. 68)	
BUILDING: HARDSACPE/PAVING: LANDSCAPE: SETBACKS (TO BE PROVIDED BY COUNTY FRONT:	REQUIRED	

- NUMBER OF STORIES: OCCUPANCY GROUP:
- CONSTRUCTION TYPE:
- SPRINKLERED:
- MAX. HEIGHT ALLOWED: (PER 2019 CBC TABLE 504.3) / (ASSEMBLY BILL 68)
- MAX. HEIGHT ALLOWED: (PER COUNTY OF MONO)
- MAX. HEIGHT PROPOSED: REFER TO ELEVATIONS. VARIES BY STYLE.
- **ROOF RATING:** HIGH FIRE ZONE:

REFER TO 'WILDLAND-URBAN INTERFACE FIRE AREA' AND 'VERY-HIGH FIRE SEVERITY ZONE'

ENERGY COMPLIANCE

PREPARED BY:

JOB NUMBER:

DATE PREPARED:

PV SYSTEM DESIGN.

SYSTEM

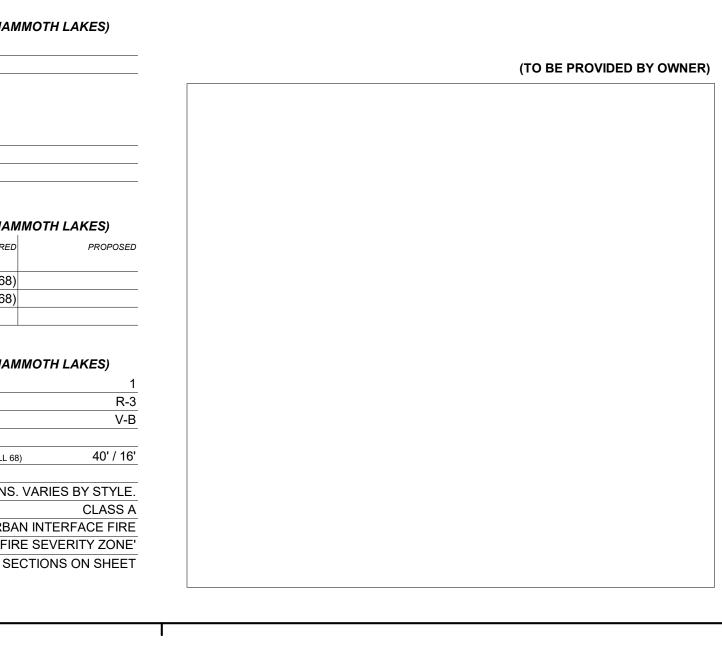
BUILDING AREAS

BY OWNER)	AREAS - PLAN 5	
	- CONDITIONED	
	PLAN 5 FLOOR	1033 SF
	_ PLAN 5 FRONT PORCH - RM	186 SF
	PLAN 5 FRONT PORCH - HD	79 SF

FIRE-RESISTANCE REQ.

	SELE	CT THE APPROPRIATE BOX BELOW (ONLY 1): NOTE: EXTERIOR WALLS SHALL HAVE A MIN DISTANCE OF 4'-0" FROM PROPERTY LINE. A	
		NON-SPRINKLERED	
		FIRE SEPARATION DISTANCE: ≥5'-0" (EXTERIOR WALLS, PROJECTIONS, OPENINGS, AND PENETRATIONS)	NO FIRE-RESISTANCE RATING REQUIRED
	_	FIRE SEPARATION DISTANCE: 4'-0" - 5'-0"	
		(EXTERIOR WALLS, OPENINGS, AND PENETRATIONS) PROJECTION SEPARATION DIST.: ≥3'-0"	
OR		OPENINGS, AND PENETRATIONS	NO FIRE-RESISTANCE RATING REQUIRED
		EXTERIOR WALLS AND PROJECTIONS	1-HR FIRE-RESISTANCE REFER TO EAVE AND RAKE DETAILS FOR MORE INFO
		SPRINKLERED	
		FIRE SEPARATION DISTANCE: ≥4'-0" (EXTERIOR WALLS, OPENINGS, AND PENETRATIONS)	NO FIRE-RESISTANCE RATING REQUIRED

VICINITY MAP



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
- RAISED FOUNDATION

WASTE WATER

- SEWER
- SEPTIC (REQUIRES APPROVAL)

FIRE SPRINKLERS

DOES THE PRIMARY RESIDENCE HAVE NFPA 13D SPRINKLERS?

🗆 NO

🗌 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

- 1. IF FIRE SPRINKLERS ARE REQUIRED AT PROPOSED ADU THEN THE FOLLOWING NOTES APPLY.
- AUTOMATIC FIRE SPRINKLER SYSTEM AN AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE INSTALLED AS PER NFPA 13D THE MOST CURRENT EDITION. DETAILED SPRINKLER PLANS SHALL BE SUBMITTED TO THE FIRE PREVENTION BUREAU AND APPROVED PRIOR TO INSTALLATION. PLANS AND INSTALLATION MUST BE BY A C16 LICENSED SPRINKLER CONTRACTOR.
- SECTION 903.2.1 GROUP R AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 9033 SHALL BE PROVIDED THROUGHOUT ALL BUILDINGS WITH A GROUP R FIRE AREA. THIS INCLUDES SINGLE FAMILY DWELLINGS, MULTI-FAMILY DWELLINGS AND ALL RESIDENTIAL CARE FACILITIES REGARDLESS OF OCCUPANT LOAD.
- SECTION 903.2.1.1 ADDITIONS AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH 903.3 MAY BE REQUIRED TO BE INSTALLED THROUGHOUT STRUCTURES WHEN THE ADDITION IS MORE THAN 50% OF THE EXISTING BUILDING OR WHEN THE ALTERED BUILDING WILL EXCEED A FIRE FLOW OF 1,500 GALLONS PER MINUTE AS CALCULATED PER SECTION 507.3. THE FIRE CODE OFFICIAL MAY REQUIRE AN AUTOMATIC SPRINKLER SYSTEM BE INSTALLED IN BUILDINGS WHERE NO WATER MAIN EXISTS TO PROVIDE THE REQUIRED FIRE FLOW OR WHERE A SPECIAL HAZARD EXISTS SUCH AS: POOR ACCESS ROADS GRADE, BLUFFS AND CANYON RIMS, HAZARDOUS BRUSH AND RESPONSE TIMES GREATER THAN 5 MINUTES BY A FIRE DEPARTMENT.
- 5. SECTION 903.2.1.2 REMODELS OR RECONSTRUCTION AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3 MAY BE REQUIRED IF THE SCOPE OF WORK INCLUDES SIGNIFICANT MODIFICATION TO THE INTERIOR AND/OR ROOF OF THE BUILDING, AND THE COST OF THE INSTALLATION DOES NOT EXCEED 15 PERCENT OF THE CONSTRUCTION COSTS OF THE REMODEL.
- 6. 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.
- 7. A FIRE UNDERGROUND FLUSH CERTIFICATION SHALL BE REQUIRED AT FINAL INSPECTION.
- 8. 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)
- П
- TWO PARKING SPACES (2-BEDROOM ADU)

USER LICENSE AGREEMENT

DOCUMENTS THE USER AGREES TO RELEASE HOLD HARMLESS AND INDEMNIE THE COUNTY OF MONO. ITS ELECTED OFFICIALS AND EMPLOYEES. RRM DESIGN GROUP AND THE ARCHITECT OR ENGINEER WHO PREPARED THES CONSTRUCTION DOCUMENTS FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS AN DEMANDS ON ACCOUNT OF ANY INJURY. DAMAGE OR LOSS TO PERSONS OR PROPERTY, INCLUDING INJURY OR DEATH, OR ECONOMIC LOSSES, ARISING OU OF THE USE OF THESE CONSTRUCTION DOCUMENT

THE PLANS ATTACHED HERE ARE APPROVED FOR ONLY USE IN MONO COUNTY NO DEVIATIONS, ALTERATIONS, OR OPTIONS BEYOND THOSE SPECIFICALLY INDICATED IN THE PLANS ARE ALLOWED WITHOUT PRIOR APPROVAL BY THE ISSUING 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 2019 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 2019 CRC SECTION R337.
- THIS PROTOTYPE PLAN IS DESIGNED TO COMPLY WITH THE PROVISIONS REQUIRED BY THE 2019 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

🗌 YES

- 🗆 NO
- 1. IN ACCORDANCE WITH THE 2019 CFC SECTION 4906, 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.
- HOMEOWNER TO PROVIDE COMPLIANT VENTS/ICC REPORT IF IN A HIGH FIRE ZONE

ROOF MATERIAL

COMPOSITION SHINGLES

CLAY ROOF TILES

STANDING SEAM METAL ROOF

EXTERIOR WALL MATERIAL

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

WINDOW MATERIAL

- FIBERGLASS
- WOOD
- ALUMINUM CLAD WOOD
- **SNOW LOADING CATEGORIES**
- 65 PSF
- 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: A1-122, A1-202, AD-904

HIGH DESERT

*STRIKE THROUGH RURAL MOUNTAIN SHEETS: A1-121, A1-201, AD-903

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CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WIT

CONSULTANT

AGENCY

MONO COUNTY ADU PROTOTYPES MONO COUNTY	TITLE SHEET - PLAN 5
	DATE
PROJECT MANAGER RR DRAWN BY	CHECKED BY
DATE 6/30/2022 PROJECT NUMBER 2340-01	I-CU21
SHEET	005

а.	IRS AND HANDRAILS HANDRAIL: SHALL NOT BE LESS THAN 34" AND NOT MORE THAN 38" ABOVE
	THE SLOPED PLANE ADJOINING STAIR TREAD NOSING. (2019 CRC R311.7.8.1)
b.	THE HAND GRIP PORTION OF THE HANDRAIL SHALL BE A MINIMUM DIAMETER OF 1-1/4" AND A MAXIMUM DIAMETER OF 2" IN CROSS SECTION
0	(2019 CRC R311.7.8.5) AND SHALL HAVE A SPACE OF NOT LESS THAN 1-1/2" CLEAR FROM THE WALL. (2019 CRC R311.7.8.3) ALL HANDRAILS SHALL RETURN OR TERMINATE IN A NEWEL OR SAFETY
	POST. (2019 CRC R311.7.8.4) HEADROOM: PROVIDE A MINIMUM OF 6'-8" CLEAR ABOVE ALL PORTIONS OF
	THE STAIRS AND LANDINGS. THIS DIMENSION SHALL BE MEASURED FROM A PLANE TANGENT TO THE STAIRWAY TREAD NOSING. (2019 CRC R311.7.2)
e.	GUARDS ON THE OPEN SIDES OF STAIRS ALSO SERVING AS A HANDRAIL SHALL BE NOT LESS THAN 34" OR MORE THAN 38". (2019 CRC R312.1.2 EXC
f.	#2) USABLE SPACE UNDER STAIRS SHALL BE PROTECTED ON THE ENCLOSED SIDE WITH 1/2" GYPSUM BOARD. (2019 CRC R302.7)
g.	GUARDS ON THE SIDE OF STAIRS SHALL BE SPACED SUCH THAT A SPHERE 4 3/8" DIA CANNOT PASS THROUGH. (2019 CRC R312.1.3 EXC #2)
h.	MINIMUM TREAD DEPTH SHALL BE 10". 3/8" MAXIMUM VARIATION CRC (2019 CRC R311.7.5.2) THE MINIMUM WINDER DEPTH AT THE WALK LINE
	(MEASURED AT A RIGHT ANGLE TO THE TREAD'S LEADING EDGE AT A POINT 12" FROM WHERE THE TREAD ARE NORROWEST) SHALL BE 10",
i.	MINIMUM WINDER TREAD DEPTH SHALL BE 6". (2019 CRC R311.7.5.2.1) MAXIMUM RISE SHALL BE 7.75". 3/8" MAXIMUM VARIATION (2019 CRC R311.7.5.1)
j.	STAIRS SHALL BE NOT LESS THAN 36" CLEAR WIDTH AT ALL POINTS ABOVE THE PERMITTED HANDRAIL HEIGHT AND BELOW THE REQUIRED
	HEADROOM HEIGHT. MINIMUM CLEAR WIDTH OF THE STAIRWAY AT AND BELOW THE HANDRAIL HEIGHT IS 31 1-1/2" WHERE A HANDRAIL IS
	INSTALLED ON ONE SIDE, AND 27" WHERE HANDRAILS ARE INSTALLED ON BOTH SIDES. (2019 CRC R311.7.1)
k.	RADUIS OF NOSING SHALL NOT BE LESS THAN 3/4" BUT NOT GREATER THAN 1 1/4". (2019 CRC R311.7.5.3)
I. m	SPACE BETWEEN HANDGRIP AND WALL SHALL BE NOT LESS THAN 1 1/2". (2019 CRC R311.7.8.3) HANDRAILS ARE REQUIRED ON AT LEAST ONE SIDE OF EACH CONTINUOUS
	RUN OF TREADS WITH FOUR OR MORE RISERS. (2019 CRC R311.7.8) TER HEATER: (REFER TO BUILDING ANALYSIS REPORT)
a.	HOT WATER INLET AND OUTLET PIPES INSULATED: EXTERNALLY WRAPPED WITH R-4 OR GREATER (FIRST 5 FEET IN UNCONDITIONED SPACES).
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.
	COMBUSTION AIR PER MANUFACTURE REQUIREMENTS. CLEARANCES PER MANUFACTURE REQUIREMENTS.
e.	THE BURNERS AND BURNER IGNITION DEVICES SHALL BE LOCATED 18" ABOVE THE GARAGE FLOOR UNLESS LISTED AS FLAMABLE VAPOR
f.	IGNITION RESISTANT (<i>NFPA54:9.1.10.2</i>) (<i>CPC 508.14</i>) WHEN INSTALLED IN A GARAGE THE WATER HEATER SHALL BE GUARDED
	AGAINST DAMAGE. <i>(CPC 508.14.)</i> DVIDE (2) LAYERS OF GRADE D PAPER OR EQUAL WHEN PLASTER IS TALLED OVER WOOD BASED SHEATHING. <i>(2019 CRC R703.7.3</i>)
CL	DTHES DRYER MOISTURE EXHAUST DUCTS SHALL TERMINATE OUTSIDE THE LDING AND HAVE A BACK-DRAFT DAMPER. EXHAUST DUCT IS LIMITED TO
14'	D" W/ TWO ELBOWS. THIS SHALL BE REDUCED 2'-0" FOR EVERY ELBOW IN CESS OF TWO. MIN. DIA. 4", SMOOTH, METAL DUCT.(<i>CMC 504.3</i>)
MA	MANUFACTURED EQUIPMENT SHALL BE INSTALLED AS PER NUFACTURER'S SPECIFICATION AND DIMENSIONS VERIFIED WITH
SH	TALLATION REQUIREMENTS. DWERS AND TUB-SHOWER COMBINATIONS: CONTROL VALVES MUST BE ESSURE BALANCED OR THERMOSTATIC MIXING VALVES. (CPC 418.0.)
PR	DVIDE TEMPERED GLAZING IN DOORS AND ENCLOSURES FOR SHOWERS, "HTUBS, SAUNAS, STEAM ROOMS, HOT TUBS & SIMILAR USES WHERE THE
BC SU	TOM EXPOSED EDGE IS LESS THAN 60-INCHES ABOVE A STANDING RFACE. (2019 CRC R308.4.5)
CA	TING AND AIR-CONDITIONING SYSTEM DESIGN SHALL CONFORM TO GREEN SEC. 4.507, ENVIRONMENTAL COMFORT.
CC	RCED AIR UNITS: REFER TO BUILDING ENERGY ANALYSIS REPORT. /ERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL
SE	JIIPMENT DURING CONSTRUCTION SHALL BE REQUIRED PER CALGREEN 2. 4.504.1. ALL DUCTS AND OTHER RELATED AIR DISTRIBUTION COMPONEN ⁻ ENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER
ME	THODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE DUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM.
	PROVIDE WORKING EQUIPMENT PLATFORM PER CMC 904.11.1. NIGHT SETBACK THERMOSTAT REQUIRED (MINIMUM 2 PERIODS PER 24
	HOURS). CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS. THE BURNERS AND BURNER IGNITION DEVICES SHALL BE LOCATED 18"
a.	ABOVE THE GARAGE FLOOR UNLESS LISTED AS FLAMABLE VAPOR IGNITION RESISTANT (NFPA54:9.1.10.2) CPC 508.14 .
e.	PROVIDE MIN. 30" DEEP AND 30" HIGH, UNOBSTRUCTED WORKING SPACE IN FRONT OF FAU.
f.	FAU OR ALCOVE SHALL BE 12" WIDER ON ALL SIDES AND REAR THAN THE FURNACE BEING INSTALLED, CMC TABLE 3-1. REQUIRED CLEARANCES MAY
g.	BE REDUCED PER CMC TABLE 3-2. USE MIN. 0.019-INCH THICK SHEET METAL DUCTS IN GARAGE AND DUCTS
h	PENETRATING WALLS AND CEILINGS OF GARAGE, CBC EXCEPTIONS SEC 406.1.4 ITEM 2. PASSAGEWAY TO THE ATTIC FURNACE SHALL BE UNOBSTRUCTED AND
	HAVE CONTINUOUS SOLID FLOORING NOT LESS THAN 24" WIDE, NOT MORE THAN 20' IN LENGTH. CMC, SEC. 904.11.2 & 904.11.3.
i.	SOURCE OF COMBUSTION AIR TO FURNACE SHALL COME FROM OUTSIDE AIR.
j.	WHEN INSTALLED IN A GARAGE THE APPLIANCE SHALL BE GUARDED AGAINST DAMAGE.
CE	OVIDE 5/8" TYPE "X" GYPSUM BOARD AT GARAGE SIDE OF WALLS AND LINGS COMMON TO DWELLING AND COVER ALL BEAMS & POSTS, AS WELL SOFFITS & FURRED SPACES. ALSO AT UNDERSIDE OF ACCESSIBLE UNDER
ST	IR AREAS. ONE HOUR CONSTRUCTION FOR ALL WALLS & SOFFITS. TER CLOSETS.
a.	CLEARANCES: 24" MIN. FRONT, 30" MIN COMPARTMENT WIDTH. 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. (2019 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).
	TH ACCESSORIES: PROVIDE MINIMUM 1 TOILET PAPER HOLDER AND 1 VEL BAR PER BATHROOM. PROVIDE NECESSARY BLOCKNG FOR TOILET
	'ER HOLDER AND TOWEL BARS. OLE-BUILDING MECHANICAL VENTILATION SYSTEM PER ASHRAE STANDARE
BE	2. PROVIDE THE COUNTY INSPECTOR THE FOLLOWING INFORMATION AT OR FORE THE TIME OF INSPECTION:
b.	CALCULATIONS FOR REQUIRED VENTING RATES. CALCULATION ADJUSTMENTS FOR INTERMITTENT SYSTEMS IF APPLICABLE 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. FANS SHALL BE A MAXIMUM OF 1 SONE.
f. . AT	FANS SHALL BE PROVIDED A COVER OF R-4.2 WHEN OFF. IC ACCESS:
a.	PROVIDE 30" MIN. HEADROOM IN THE ATTIC SPACE (2019 CRC R807.1) 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.
C.	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.
d	THE ROUGH-FRAMED OPENING SHALL NOT BE LESS THAN 22" X 30" AND
u.	SHALL BE LOCATED NOT OVER 20 FEET FROM THE EQUIPMENT. (2019 CRC R807.1)

LIGHT SWITCH LOCATED AT THE ATTIC ACCESS.

ELECTRICAL NOTES

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.

- METER: "SQUARE D", 120 VOLT/ 240 VOLT, 1 AND 3 WIRE GROUND OR EQUAL. MAIN PANEL: FLUSH MOUNT, 30" CLEARANCE. 200 AMP SIZED TO PROVIDE FOUR
- FULL SIZE SPARE CIRCUIT SPACES FOR FUTURE EXPANSION CONDUCTORS: TW, THW, COPPER, MINIMUM 14 AT LIGHTING, 12 AT OTHER
- CIRCUITS. LAMPS: FOR GENERAL LIGHTING IN KITCHENS AND BATH SHALL HAVE AN EFFICIENCY OF NOT LESS THAN 40 LUMENS/ WATT. ALL SOCKETS FILLED WITH
- INCANDESCENT: SOFT-WHITE, 55 WATT FLUORESCENT: COOL WHITE, RS, SOUND RATING "A", 40 WATT (U.O.N.). ALL ELECTRICAL OUTLETS INSTALLED IN BATHROOMS, GARAGES, 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. ALL BATHROOM RECEPTACLE OUTLETS SHALL BE SUPPLIED BY A MINIMUM OF ONE 20-AMPERE BRANCH CIRCUIT. SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS. THIS DEDICATED CIRCUIT MAY SERVE MORE THAN ONE BATHROOM. NEC ART.
- 210-52(d). RECEPTACLES SHALL BE ADJACENT TO AND WITHIN 36" OF THE OUTSIDE EDGE OF EACH BASIN. 10. PROVIDE ELECTRIC OUTLET AND PUSH-BUTTON WIRE FOR GARAGE
- OPENER.(INCLUDE OPENER). THERMOSTAT SHALL BE A PROGRAMMABLE TYPE, HONEYWELL TH8320 OR EQUAL. 12. RECESSED LUMINAIRES INSTALLED IN AREAS TO RECEIVE INSULATION SHALL BE
- "IC" LUMINAIRES AND ARE CERTIFIED AND LABELED AS AIRTIGHT TO THE STANDARDS PRESCRIBED BY THE RESIDENTIAL ENERGY CODE. 13. RECESSED LIGHT FIXTURES INSTALLED IN A FIRE RATED ASSEMBLY SHALL BE
- INSTALLED PER THE APPROVED LISTING OR PROCTECTED BY AN APPROVED METHOD. 14. BATHROOM RECEPTACLES MUST BE ON A 20 AMP. CIRCUIT (OR CIRCUITS) WITH NO
- OTHER OUTLETS. 15. 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 CEC 314-27(D). CEC 422-18. 16. ALL LUMINARIES AND LAMPHOLDERS SHALL BE LISTED CEC 410-6. 7. ALL 120-VOLT, SINGLE PHASE 15- AND 20- AMPERE BRANCH CIRCUITS SUPPLYING
- EXHAUST FANS SHALL PROVIDE 5 AIR CHANGES PER HOUR (50 CFM MIN.). OUTLETS INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, LIVING ROOMS, DINING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION 10. PER CGBC 4.506.1- BATHROOM EXHAUST FANS. EACH BATHROOM SHALL BE ROOMS, CLOSETS, HALLWAYS OR SIMILAR ROOMS OR AREAS SHALL BE MECHANICALLY VENTILATED AND SHALL COMPLY WITH THE FOLLOWING: 1. FANS SHALL BE ENERY STAR COMPLIANT AND BE DUCTED TO TERMINATE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE, OUTSIDE THE BUILDING. 2. UNLESS FUNCTIONING AS A COMPONENT OF A INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT. CEC 210-12(B). 18. ALL NON-LOCKING TYPE 125-VOLT, 15 AND 20 AMPERE RECEPTACLES IN A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A DWELLING UNIT SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES. EXCEPTIONS: HUMIDITY CONTROL. A. HUMIDITY CONTROLS SHALL BE CAPABLE OF (1) RECEPTACLES MORE THAN 5'6" ABOVE THE FLOOR, (2) RECEPTACLES PART OF A ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF </= 50 PERCENT TO A MAXIMUM OF 80 PERCENT. A HUMIDITY CONTROL MAY UTILIZE MANUAL OR LÚMINAIRE OR APPLIANCE, (3) A SINGLE RECEPTACLE OR A DUPLEX RECEPTACLE AUTOMATIC MEANS OF ADJUSTMENT. B. A HUMIDITY CONTROL MAY BE A FOR TWO APPLIANCES THAT ARE NOT EASILY MOVED AND LOCATED WITHIN DEDICATED SPACE AND ARE CHORD-AND-PLUG CONNECTED AS PER CEC 400.7, SEPARATE COMPONENT TO EXHAUST FAN AND IS NOT REQUIRED TO BE INTEGRAL(I.E. BUILT IN) AND (4) NON-GROUNDING RECEPTACLES USED FOR REPLACEMNETS AS PERMITTED IN CEC 406.4(D)(2)(A).
- 19. 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.
- 20. BALLAST FOR LAMPS 13 WATTS OR GREATER SHALL BE ELECTRONIC AND HAVE AN OUTPUT FREQUENCY NO LESS THAT 20 kHz.
- 21. 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. 22. 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. 23. OMITTED
- 24. LIGHTS IN OTHER THAN KITCHENS, BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS MUST BE CONTROLLED BY A DIMMER OR CONTROLLED BY A MANUAL-ON OCCUPANT SENSOR. SUCH SENSORS SHALL BE CAPABLE OF AUTOMATICALLY TURNING OFF THE LIGHTS NO MORE THAN 30 MINUTES AFTER THE AREA HAS BEEN VACATED.
- 25. ALL OUTDOOR LIGHTING ATTACHED TO BUILDINGS MUST BE HIGH EFFICACY, CONTROLLED BY A MOTION SENSOR WITH PHOTO-CONTROL. OR PHOTO CONTROL AND AUTOMATIC TIME SWITCH CONTROL. PHOTO-CONTROL IS AN ELECTRIC DEVICE THAT DETECTS CHANGE IN ILLUMINATION AND THEN CONTROLS ITS ELECTRIC LOAD AT PREDETERMINED ILLUMINATION LEVELS. 26. EXHAUST FANS WILL BE CONTROLLED BY A HUMIDISTAT PER THE GREEN BUILDING
- STANDARDS CODE SECTION 4.506. 27. BRANCH SUPPLYING GARAGE RECEPTACLE(S) SHALL NOT SUPPLY OUTLETS
- OUTSIDE OF THE GARAGE. 28. FOR EACH DWELLING UNIT, INSTALL A MINIMUM 1" INSIDE DIAMETER LISTED RACEWAY TO ACCOMMODATE A DEDICATED 208/240V BRANCH CIRCUIT. RACEWAY SHALL ORIGINATE AT MAIN OR SUB PANEL AND TERMINATE IN A LISTED BOX IN CLOSE PROXIMITY TO THE PROPOSED EV CHARGER LOCATION. RACEWAYS MUST BE CONTINUOUS AT ENCLOSED, INACCESSIBLE, OR CONCEALED SPACES. SERVICE PANEL SHALL PROVIDE CAPACITY TO INSTALL 40 AMP MINIMUM DEDICATED BRANCH CIRCUIT AND SPACES RESERVED TO PERMIT INSTALLATION OF A BRANCH CIRCUIT OVERCURRENT DEVICE, IDENTIFY THE RESERVED SPACE AND RACEWAY
- TERMINATION FOR FUTURE EV AS "EV CAPABLE." 29. OUTDOOR LIGHTING PERMANENTLY MOUNTED TO A SINGLE FAMILY DWELLING OR OTHER BUILDINGS IN THE SAME LOT SHALL BE HIGH EFFICACY AND MUST BE CONTROLLED BY AN ON/OFF SWITCH THAT DOES TO OVERRIDE TO ON THE ITEMS LISTED BELOW. ALSO, THE LIGHING MUST BY ONE OF THE FOLLOWING METHODS: i) CONTROLLED BY PHOTOCELL AND MOTION SENSOR. CONTROLS THAT OVERRIDE TO ON SHALL NOT BE ALLOWED UNLESS THE OVERRIDE
- AUTOMATICALLY REACTIVATES THE MOTION SENSOR WITHIN 6 HOURS, OR • ii) CONTROLLED BY ANY OF THE FOLLOWING: PHOTOCELL AND AUTOMATIC TIME SWITCH CONTROL, CONTROLS THAT
- OVERRIDE TO ON SHALL NOT BE ALLOWED UNLESS THE OVERRIDE AUTOMATICALLY RETURN THE PHOTOCONTROL AND AUTOMATIC TIME
- SWITCH CONTROL TO ITS NORMAL OPERATION WITHIN 6 HOURS, OR 2. ASTRONOMICAL TIME CLOCK. CONTROLS THAT OVERRIDE TO ON SHALL NOT BE ALLOWED UNLESS THE OVERRIDE AUTOMATICALLY RETURN THE ASTRONOMICAL CLOCK TO ITS NORMAL OPERATION WITHIN 6 HOURS AND LIGHTING OFF DURING DAYLIGHT HOURS, OR
- WHICH IS PROGRAMMED TO AUTOMATICALLY TURN THE OUTDOOR 3. ENERGY MANAGEMENT CONTROL SYSTEMS WHICH MEETS ALL OF THE SOLAR READY REQUIREMENTS PER CeNC 110.10(b) THROUGH 110.10(d) FOLLOWING REQUIREMENTS. AT A MINIMUM PROVIDES THE FUNCTIONALITY OF AN ASTRONOMICAL CLOCK IN ACCORDANCE WITH SECTION 110.9 OF THE SOLAR ZONE: STANDARDS; MEETS THE INSTALLATION CERTIFICATION REQUIREMENTS IN 1. MINIMUM AREA. THE SOLAR ZONE SHALL HAVE A MINIMUM TOTAL AREA AS SECTION 130.4 OF THE STANDARDS; MEETS THE REQUIREMENTS FOR AN DESCRIBED BELOW. THE SOLAR ZONE SHALL COMPLY WITH ACCESS, EMCS IN SECTION 130.5 OF THE STANDARDS; DOES NOT HAVE AN OVERRIDE PATHWAY, SMOKE VENTILATION, AND SPACING REQUIREMENTS AS SPECIFIED OR BYPASS SWITCH THAT ALLOWS THE LUMINAIRE TO BE ALWAYS ON; AND, IN TITLE 24, PART 9 OR OTHER PARTS OF TITLE 24 OR IN ANY REQUIREMENTS IS PROGRAMMED TO AUTOMATICALLY TURN THE OUTDOOR LIGHTING OFF ADOPTED BY A LOCAL JURISDICTION.
- DURING THE DAYLIGHT HOURS. 2. THE SOLAR ZONE TOTAL AREA SHALL BE COMPRISED OF AREAS THAT HAVE 30. AT LEAST ONE LUMINAIRE EACH BATHROOM, GARAGE, LAUNDRY ROOM, AND NO DIMENSION LESS THAN FIVE FEET AND ARE NO LESS THAN 80 SQUARE UTILITY ROOM SHALL BE CONTROLLED BY A MANUAL ON/AUTOMATIC-OFF VACANCY FEET EACH FOR BUILDINGS WITH ROOF AREAS LESS THAN OR EQUAL TO SENSOR. 10,000 SQUARE FEET OR NO LESS THAN 160 SQUARE FEET EACH FOR 31. EXCEPT FOR CLOSETS LESS THAN 70 SQUARE FEET AND HALLWAYS, ALL BUILDINGS WITH ROOF AREAS GREATER THAN 10,000 SQUARE FEET.
- LUMINAIRES THAT ARE INSTALLED WITH JA8-CERTIFIED LIGHT SOURCES ARE REQUIRED TO BE CONTROLLED BY EITHER A DIMMER, VACANCY SENSOR OR FAN SPEED CONTROL
- 32. THE NUMBER OF ELECTRICAL BOXES LOCATED MORE THAN 5 FEET ABOVE FINISHED FLOOR THAT DOES NOT CONTAIN A LUMINAIRE OR OTHER DEVICE SHALL NOT EXCEED THE NUMBER OF BEDROOMS. THESE BOXES MUST BE SERVED BY A DIMMER, VACANCY SENSOR, OR FAN SPEED CONTROL.

MECHANICAL NOTES

1. CONFORM WITH CURRENT ADOPTED CRC, CMC, SMACCNA, NFPA AND

- LOCALREQUIREMENTS.
- 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.). THE RETURN AIR PLENUM SERVING THE MECHANICAL EQUIPMENT MUST BE FULLY DUCTED FROM THE EQUIPMENT TO THE CONDITIONED SPACE. DROP CEILINGS, WALL CAVITIES AND EQUIPMENT PLATFORMS MAY NOT BE USED AS PLENUMS.
- 5. PROVIDE COMBUSTION AIR OPENINGS WITHIN 12" OF THE FLOOR AND CEILING FOR GAS BURNING EQUIPMENT, DIRECT TO OUTSIDE. HEIGHT TO COMBUSTIBLE MATERIAL ABOVE KITCHEN RANGES: 30" - UNPROTECTED, 24" - PROTECTED
- 6. LAUNDRY DRYER VENT TO EXTERIOR TO BE 14 FEET MAXIMUM, LESS 2 FEET PER 90 DEGREE TURN PER CMC 504.3.2.2. IF VENT IS OVER 14' AN APPROVED POWER ASSISTED DEVICE.
- 7. BATHS: PROVIDE A MINIMUM OF 5 AIR CHANGES PER HOUR MASTER BATH: 2 SONES MAXIMUM OTHER BATHS & LAUNDRY: 3 SONES MAXIMUM. 8. BATHROOM EXHAUST FANS (BATHROOM APPLIES TO ROOMS CONTAINING BATHTUB, SHOWER, SPA OR SIMILAR SOURCE OF MOISTURE) WHICH EXHAUST DIRECTLY FROM BATHROOMS SHALL COMPLY WITH THE
- FOLLOWING 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 HUMIDISTAT WHICH SHALL BE READILY ACCESSIBLE. CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN RELATIVE HUMIDITY RANGE OF 50 TO 80 PERCENT. (2016 CBC SEC. 4.506.1)
- 11. PER CEnC 150(m) PORTIONS OF SUPPLY-AIR AND RETURN-AIR DUCTS AND PLENUMS SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-4.3 (OR ANY LEVEL HIGHER LEVEL REQUIRED BY CMC SECTION 605) OR BE ENCLOSED ENTIRELY IN CONDITIONED SPACE.

PLUMBING NOTES

- 1. CONFORM WITH CURRENT CPC AND LOCAL REQUIREMENTS.
- 2. PIPING: a. DOMESTIC WATER (WITHIN BUILDING): COPPER OR PEX PIPE OR APPROVED EQUAL
- b. GAS, EXPOSED TO WEATHER: GALVANIZED c. AIR CHAMBERS: 12" LONG CAPPED NIPPLE AT END OF EACH BRANCH TO
- EACH FIXTURE d. DIELECTRIC UNIONS "F.P.C.O." REQUIREMENT AT ALL DISSIMILAR MATERIAL CONNECTIONS. e. WHEN "OPTIONAL" SOFT-WATER LOOP INTALLED, PROVIDE WITH 2 GATE
- VAI VES 3. WATER SERVICE PIPE SHALL BE PER CIVIL PLANS OR AS REQUIRED BY THE JURISDICTION
- 4. WATER METER: 1" U.O.N. (REFER SIZE W/FIRE SPRINKLER PLANS)
- SHOWER HEADS AND FAUCETS: CEC CERTIFIED. 6. PIPE INSULATION: REFER TO TITLE 24- MANDATORY MEASURES - "SPACE
- CONDITIONING, WATER HEATING & PLUMBING SYSTEM MEASURES" 7. STRAPS AND HANGERS: PROVIDE AS NECESSARY TO INSURE A STABLE 8. INSTALLATION.
- SEE TITLE-24 FOR WATER HEATER REQUIREMENTS.
- 9. ALL HOSE BIBS AND LAWN SPRINKLER SYSTEMS SHALL HAVE APPROVED BACK FLOW PREVENTION DEVICES
- 10. PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL MEET THE STANDARDS REFERENCED IN CALGREEN TABLE 4.303.3
- 11. WATER HEATER SHALL BE PROVIDED WITH A TEMPERATURE AND PRESSURE RELIEF VALVE. PER [505.4.505.5 CPC] THE RELIEF VALVE SHALL BE PROVIDED WITH A DRAIN LINE WHICH EXTENDS FROM THE VALVES TO THE OUTSIDE OF THE BUILDING. PER [608.5 CPC]
- 12. PER CPC 603.4.7 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.

SOLAR READY NOTES

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

EXCEPTION 1 TO SECTION 110.10(B)1A: SINGLE FAMILY RESIDENCES WITH A PERMANENTLY INSTALLED DOMESTIC SOLAR WATER-HEATING SYSTEM MEETING THE INSTALLATION CRITERIA SPECIFIED IN THE REFERENCE RESIDENTIAL APPENDIX RA4 AND WITH A MINIMUM SOLAR SAVINGS FRACTION OF 0.50.

EXCEPTION 3 TO SECTION 110.10(B)1A: SINGLE FAMILY RESIDENCES LOCATED IN THE WILDLAND-URBAN INTERFACE FIRE AREA AS DEFINED IN TITLE 24, PART 2 AND HAVING A WHOLE HOUSE FAN AND HAVING A SOLAR ZONE TOTAL AREA NO LESS THAN 150 SQUARE FEET.

EXCEPTION 5 TO SECTION 110.10(B)1A: SINGLE FAMILY RESIDENCES HAVING A SOLAR ZONE TOTAL AREA NO LESS THAN 150 SQUARE FEET AND WHERE ALL THERMOSTATS ARE DEMAND RESPONSIVE CONTROLS AND COMPLY WITH SECTION 110.12(A), AND ARE CAPABLE OF RECEIVING AND RESPONDING TO DEMAND RESPONSE SIGNALS PRIOR TO GRANTING OF AN OCCUPANCY PERMIT BY THE ENFORCING AGENCY.

TITLE 24 COMPLIANCE

- 1. ALL INTERIOR RESIDENTIAL LIGHTING IS TO BE HIGH EFFICACY. 2. THE FOLLOWING LIGHTING IS HIGH EFFICACY: PIN BASED LINEAR FLUORESCENT, PIN BASED COMPACT FLUORESCENT, PULSE-START METAL HALIDE, HIGH PRESSURE SODIUM, GU-24 (OTHER THAN LED'S), INSEPARABLE SOLID STATE LUMINAIRES (SSL'S) INSTALLED OUTDOORS OR INSEPARABLE SSL LUMINAIRES WITH COLORED LIGHT SOURCES FOR DECORATIVE LIGHTING PURPOSES.
- 3. THE FOLLOWING LAMPS AND LIGHT SOURCES ARE HIGH EFFICACY IF THEY ARE JOINT APPENDIX JA8-CERTIFIED. JA-8 CERTIFIED LAMPS AND LIGHT SOURCES ARE MARKED AS "JA8-2016" OR "JA8-2016-E". THESE FIXTURES INCLUDE: LED LUMINAIRES WITH INTEGRAL SOURCES THAT ARE CERRTIFIED TO THE ENERGY COMMISION, SCREW-BASED LED LAMPS (A-LAMPS, PAR LAMPS, ETC.), PIN BASED LED LAMPS (MR-16.AR-111, ETC.), GU-24 BASED LED LIGHT SOURCES AND OTHER LUMINAIRES. LISTING OF CA CERTIFIED FIXTURES IS LOCATED ON THE CALIFORNIA
- ENERGY COMMISSION WEBSITE AT: HTTP://APPLIANCES.ENERGY.CA.GOV/ADVANCEDSEARCH/ASPX
- RECESSED LUMINAIRES INSTALLED IN AREAS TO RECEIVE INSULATION SHALL BE "IC" LUMINAIRES AND ARE CERTIFIED AND LABELED AS AIRTIGHT TO THE STANDARDS PRESCRIBED BY THE RESIDENTIAL ENERGY CODE. ADDITIONAL REQUIREMENTS FOR ANY RECESSED DOWNLIGHTS IN CEILINGS
- ARE AS FOLLOWS. THEY a. SHALL NOT HAVE SCREW BASED SOCKETS,
- b. SHALL CONTAIN JA8-CERTIFIED LIGHT SOURCES AND c. SHALL MEET PERFORMANCE REQUIREMENTS OF CEC SECTION
- 150.0(K)1C 6. THE NUMBER OF ELECTRICAL BOXES LOCATED MORE THAN 5 FEET ABOVE FINISHED FLOOR THAT DO NOT CONTAIN ALUMINAIRE OR OTHER DEVICE SHALL NOT EXCEED THE NUMBER OF BEDROOMS. THESE BOXES MUST BE SERVED BY A DIMMER, VACANCY SENSOR OR FAN SPEED CONTROL. CECS
- 150(K)1(B) 7. UNDERCABINET LIGHTING MUST BE SWITCHED SEPARATE FROM ALL OTHER LIGHTING.
- 8. ALL LIGHTING MUST HAVE READILY ACCESSIBLE MANUAL CONTROLS 9. EXHAUST FANS MUST BE SWITCHED SEPARATE FROM LIGHTING OR UTILIZE
- A DEVICE WHERE LIGTING CAN BE TURNED OFF WHILE THE FAN IS RUNNING. 10. FOR ALL SPACE TYPES EXCEPT HALLWAYS AND CLOSETS THAT ARE 70 SF
- OR SMALLER. VANCANY SENSORS OR DIMMERS ARE REQUIRED WHEN USING A SOURCE REGULATED BY JA8. 11. IN KITCHENS, IF THE LUMINAIRE IS AN ENCLOSED OR RECESSED LUMINAIRE,
- YOU MUST USE A DIMMER OR VACANY SENSOR 12. AT LEAST ONE LUMINAIRE IN THE BATHROOM, GARAGE, LAUNDRY ROOM
- AND UTILITY ROOM MUST BE CONTROLLED BY A VACANY SENSOR. 13. OMITTED
- 14. THE BUILDER MUST PROVIDE NEW HOMEWONERS WITH A LUMINAIRE SCHEDULE THAT INCLUDES A LIST OF INSTALLED LAMPS AND LUMINARIES.

ENERGY CODE - UPDATE

- 1. ALL JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WETHER-STRIPPED OR OTHERWISE SEALED TO LIMIT INFILTRATION AND EXFILTRATION CEnC 110.7
- 2. ATTTIC ACCESS DOORS SHALL HAVE PERMENTLY ATTACHED INSULATION USING ADHESIVE OR MECHANICAL FASTENERS. THE ATTIC ACCESS SHALL BE GASKETED TO PREVENT AIR LEAKAGE CEnC 150.0(a)2
- PERMENTLY INSTALLED NIGHT LIGHTS AND NIGHT LIGHTS INTEGRAL TO INSTALLED LUMINAIRES OR EXHAUST FANS SHALL BE RATED TO CONSUME NO MORE THAN FIVE WATTS OF POWER PER LUMINAIRE OR EXHUAST FAN AS DETERMINED IN ACCORDANCE WITH SECTION 130.0(c). NIGHT LIGHTS SHALL NOT BE REQUIRED TO BE CONTROLLED BY
- VACANCY SENSORS CEnC 150(k)1E. 4. ALL INSTALLED LUMINAIRES SHALL BE HIGH EFFICACY IN ACCORDANCE WITH CEnC TABLE 150.0-A. CEnC 150(k)1A. 5. 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, OR FAN SPEED CONTROL. CEnC 150(k)1B

W.U.I. REQUIREMENT NOTES

- 1. ROOF COVERING SHALL COMPLY WITH 2019 CRC R337.5.2. UNDERLAYMENT SHALL BE ONE LAYER OF OF MINUMIM 72 POUND MINERAL-SURFACED NONPERFORATED CAP SHEET COMPLYING WITH ASTM D3909 INSTALLED OVER THE COMBUSTIBLE DECKING.
- ROOF VALLEYS SHALL COMPLY WITH 2019 CRC R337.5.3. VALLEY FLASHING SHALL BE NOT LESS THAN 26 GAGE GALVANIZED SHEET CORROSIVE RESISTANT METAL INSTALLED OVER NOT LESS THAN ONE LAYER OF MINUMIM 72 POUND MINERAL-SURFACED NONPERFORATED CAP SHEET COMPLYING WITH ASTM D3909, AT LEAST 36 INCHES WIDE RUNNING THE FULL LENGTH OF THE VALLEY.
- ROOF GUTTERS SHALL COMPLY WITH 2019 CRC R337.5.4. ROOF GUTTERS SHALL BE PROVIDE WITH THE MEANS TO PREVENT THE ACCUMULATION OF LEAVES AND DEBRIS IN THE GUTTER
- 4. VENTILATION OPENINGS SHALL COMPLY WITH 2019 CRC R337.6 -VENTILATION OPENINGS FOR ENCLOSED ATTICS, ENCLOSED EAVE SOFFIT SPACES, ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS, AND UNDERFLOOR VENTILATION OPENINGS SHALL BE FULLY COVERED WITH
- METAL WIRE MESH, VENTS, OTHER MATEIALS, OR OTHER DEVICES. REFER TO SECTIONS R337.6.1 THROUGH R337.6.3 FOR ADDITIONAL INFORMATION. EXTERIOR COVERINGS SHALL COMPLY WITH 2019 CRC R337.7 EXTERIOR WALL COVERINGS OR WALL ASSEMBLIES SHALL COMPLY WITH ONE OF THE FOLLOWING REQUIREMENTS: BE OF NONCOMBUSTIBLE MATERIAL, IGNITION-RESISTANT MATERIAL, HEAVY TIMBER EXTERIOR WALL ASSEMBLY, LOG WALL CONSTRUCTION ASSEMBLY, OR WALL ASSEMBLIES THAT MEET THE PERFORMANCE CRITERIA IN ACCORDANCE WITH THE TEST PROCEDURES FOR A 10-MINUTE DIRECT FLAME CONTACT EXPOSURE TEST SET FORTH IN SFM STANDARD 12-7A-1. REFER TO SECTIONS R337.7.1 THROUGH R337.7.9 FOR ADDITIONAL INFORMATION.

UNDER-FLOOR VENTING NOTES

- 1. 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 (CBC 2019 1202.4)
- VENTILATION OPENINGS THROUGH FOUNDATION WALLS SHALL BE PROVIDED. THE OPENINGS SHALL BE PLACED SO AS TO PROVIDE CROSS VENTILATION OF THE UNDER-FLOOR SPACE. THE NET AREA OF VENTILATION OPENINGS SHALL BE IN ACCORDANCE WITH SECTION 1202.4.1.1 OR 1202.4.1.2. VENTILATION OPENINGS SHALL BE COVERED FOR THEIR HEIGHT AND WIDTH WITH ANY OF THE FOLLOWING MATERIALS, PROVIDED THAT THE LEAST DIMENSION OF THE COVERING SHALL BE NOT GREATER THAN 1/4 INCH.
- PERFORATED SHEET METAL PLATES NOT LESS THAN 0.070 INCH THICK. EXPANDED SHEET METAL PLATES NOT LESS THAN 0.047 INCH THICK.
- CAST-IRON GRILL OR GRATING. EXTRUDED LOAD-BEARING VENTS

SPACE AREA. (CBC 2019 1202.4.1.2)

2019 1208.1)

ACCORDANCE WITH SECTION 1202.4.1.2.

- HARDWARE CLOTH OF 0.035 INCH WIRE OR HEAVIER.
- 6. CORROSION-RESISTANT WIRE MESH, WITH THE LEAST DIMENSION NOT GREATER THAN ¹/₈ INCH. . OPERABLE LOUVERS, WHERE VENTILATION IS PROVIDED IN

UNCOVERED EARTH FLOORS SHALL BE NOT LESS THAN 1 SQUARE FOOT

CRAWL SPACES SHALL BE PROVIDED WITH NOT LESS THAN ONE ACCESS OPENING THAT SHALL BE NOT LESS THAN 18 INCHES BY 24 INCHES. (CBC

FOR EACH 150 SQUARE FEET OF CRAWL SPACE AREA. (CBC 2019 1202.4.1.1) 4. THE NET AREA OF VENTILATION OPENINGS FOR CRAWL SPACES WITH THE GROUND SURFACE COVERED WITH A CLASS I VAPOR RETARDER SHALL BE NOT LESS THAN 1 SQUARE FOOT FOR EACH 1,500 SQUARE FEET OF CRAWL

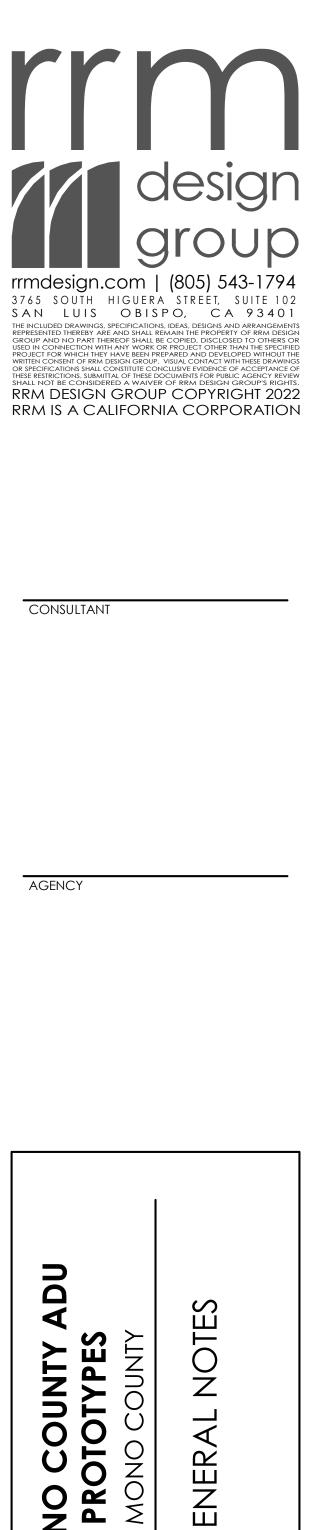
3. THE NET AREA OF VENTILATION OPENINGS FOR CRAWL SPACES WITH

PROJECT GENERAL NOTES

USE OF PLANS: THESE PLANS ARE THE PROPERTY OF RRM AND MAY NOT BE USED WITHOUT THE EXPRESS, WRITTEN CONSENT.

THESE NOTES APPLY TO ALL PORTIONS, PHASES AND SUBCONTRACTORS OF THIS PROJECT. APPLICABLE CODES AND STANDARDS:

- 2019 CALIFORNIA RESIDENTIAL CODE AND ITS APPENDICES AND STANDARDS.
- 2019 CALIFORNIA BUILDING CODE AND ITS APPENDICES AND STANDARDS.
- 2019 CALIFORNIA PLUMBING CODE AND ITS APPENDICES AND
- STANDARDS. 2019 CALIFORNIA MECHANICAL CODE AND ITS APPENDICES AND
- STANDARDS 2019 CALIFORNIA FIRE CODE AND ITS APPENDICES AND STANDARDS. 2019 CALIFORNIA ELECTRICAL CODE AND ITS APPENDICES AND
- STANDARDS 2019 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS. 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE AND ITS
- APPENDICIES AND STANDARDS. CURRENT MONO COUNTY MUNICIPAL CODE.
- CALIFORNIA ASSEMBLY BILL NO. 86 (ACCESSORY DWELLING UNITS).
- 1. 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 PRECEDING 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. ALL DIMENSIONS ARE ROUGH AND TO FACE OF FRAMING GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS
- REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES. 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 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. CONTRACTOR TO REVIEW CALIFORNIA GREEN CODE REQUIREMENTS FOR
- CONTRACTOR REQUIREMENTS. TEMPORARY FACILITIES: CONTRACTOR SHALL PAY FOR, PROVIDE AND MAINTAIN TEMPORARY FACILITIES FOR PROJECT PROTECTION AND CONSTRUCTION, AND AS REQUIRED BY LOCAL REGULATION AND THESE DOCUMENTS. SUCH FACILITIES INCLUDE, BUT ARE NOT LIMITED TO: TOILETS, LIGHTS, HEATERS, POWER, GAS, FANS, WATER, PHONES, FENCES, SIGNS, SHEDS, ETC. REMOVE FROM SITE UPON COMPLETION OF WORK. OBTAIN BUILDING OFFICIAL OR FIRE MARTIAL APPROVAL PRIOR TO USE OF ANY TEMPORARY HEATING DEVICE.
- 8. CONTRACTOR SHALL PROVIDE FOR PROTECTION AND SAFETY: RESPONSIBLE FOR ALL ITEMS (SIGNS, LIGHTS, FENCES, BRACING, ANCHOR-AGE, FIRE-EXTINGUISHERS, ETC.) NECESSARY FOR THE PROTECTION OF THE PUBLIC, WORKERS, MATERIALS, CONSTRUCTION AND PROPERTY PER LOCAL, STATE AND FEDERAL REQUIREMENTS (INCLUDING EARTHQUAKES, FIRES, SPILLS, ACCIDENTS, EROSION, MUD, DUST, ETC.).
- 9. CONTRACTOR TO PROVIDE COMPLETE DETAILS OF ENGINEERED TEMPORARY SHORING OR SLOT CUTTING PROCEDURES ON PLANS. CALL FOR INSPECTION BEFORE EXCAVATION BEGINS.
- 10. 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.
- 11. A SEPERATE OFFICER, ACCESS EASEMENT/AGREEMENT, AND/OR RECIPRICAL ACCESS EASEMENT/AGREEMENT MAY BE REQUIRED TO ENSURE THAT THE PROPOSED PRIVATE ACCESS ROADWAY WILL REMAIN OPEN TO THROUGH TRAFFIC AND EMERGENCY VEHICLES PRIOR TO FINAL OF BUILDING PERMIT 12. SHOP WELDS MUST BE PERFORMED BY A LICENSED FABRICATOR'S SHOP.
- 13. OSHA PERMITS REQUIRED FOR VERTICAL CUTS 5' OR OVER. 14. FIRE SPRINKLER SHOP DRAWINGS & CALCULATIONS SHALL BE SUBMITTED TO BUILDING DEPT. & APPROVED BY FIRE DEPT. PRIOR TO INSTALLATION.



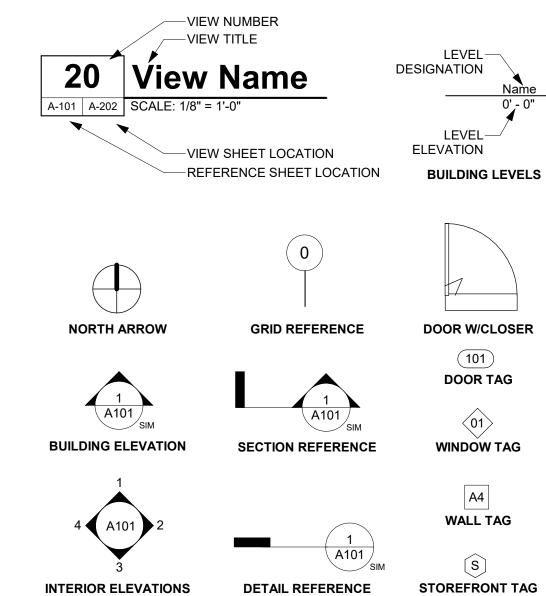
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ABBREVIATIONS

AFV ABOVE CONTRACTOR ACQUB ACOUSTCAL FOM FACE OF STUD ADA AMERICANS WITH DISABILITIES ACT FOR FOR ECO TO REFET AFCI ARC FAULT CIRCUIT INTERRUPTER FT FOOT OR FEET AFCI ARC FINISH FLOOR FG FOOT OR FEET ALL ALLEMANE GAI GAUCE, GAGE ALT ALTERNATE GAI GAUCE, GAGE ARCH ARCHAUTCOTAL) GB GARD BORD BORD GC GROUND FAULT CIRCUIT IN BORD BEDROOM GC GROUND FAULT CIRCUIT IN BORD BEDROOM GC GROUND FAULT CIRCUIT IN BORD BEDROOM GC GROUND FAULT CIRCUIT IN BURD BULDING BIT BITUMINOUS GVP BURD BULDING HOR HORDE BIB BURG BURDNO HOR HARDWARE BURD BURDNO HOR HARDWARE BURD BUILT UP ROOF HM HOLDW METAL CIC CALFERNINE HM HOLDW METAL CIC CALFERNINE HIN HOLDW METAL CIC CALFERNINE HIN HORDWARE CIC <				
COUSTICAL FOM FACE OF MASONRY ACT ADDISTICAL ELLING TILE FOM FACE OF STUD ADA AMERICANS WITH DISABILITES ACT FRP FIBERICASS REINFORCED AFF ARCHARCANS WITH DISABILITES ACT FRP FIBERICASS REINFORCED ACH ARCHARCANS WITH DISABILITES ACT FRP FIBERICASS REINFORCED ARCH ARCHARCANS WITH DISABILITES ACT FRB FOR CARES BRIT BORDED GR GR ABB BAR BRIT BORDED GR GR ABB BAR BLD BUTOMINOUS GR GR ABB BAR BLD BUTOMINOUS HD HORDON GR BLD BUTOMINOUS HD HD HD BLD BUTOMINOUS HD HD HD BLD BUTOMINOUS	A/C	AIR CONDITIONING	FOIC	FURNISHED BY OWNER INSTA
ACT ACQUISTICAL CELLING TILE FOS FACE OF STUD ACQUISTICAL CELLING TILE ACQUISTICAL CELLING TILE ACQUISTICAL CELLING TILE ACQUISTICAL CELLING TILE ACQUISTICAL CELLING TILE ACQUISTICAL CELLING TILE ACQUISTICAL CONTROL TORY ACQUISTICAL CELLING TILE ACQUISTICAL CELLING ACQUISTICAL CELING ACQUISTICAL CELLING ACQUISTICAL CELLING	ABV	ABOVE		CONTRACTOR
ADA MEERICANE WITH DISABILITES ACT FRP FIBERICANE SYNCHRONCOLD AFCI ARCY AULT CIRCUIT INTERRUPTER FTG FOOT OR PEET AFCI ARCY AULT CIRCUIT INTERRUPTER FTG FOOT OR PEET AFT ALIU CIRCUIT INTERRUPTER FTG FOOT OR PEET AFT ALT MUNUM GAL CALLEG, GACE ALT ALTERNATE GAL CALLEG, GACE ALT ALTERNATE GAL CALLAL CALLED BER BER GAL CALLAL CALLED BER BEROROM GCC GROUND CONTAL BET BETURINOUS GYP CYPSUM BOARD BET BETURINOUS GYP CYPSUM BOARD BET BULTUROCHALCONTAL HOLDON CORE BUR BULTUROCHAL HOLDON CORE BUR BULTURROCHAL HOLDON METAL BUR BULTURROCHAL HOLDON METAL BUR BULTURROCHAL HOLDON WERAL BUR BULTURROCHAL HOLDON METAL CALCHAL HOLDON METAL HOLDON METAL BUR BULTURROCHAL </td <td>ACOUS</td> <td>ACOUSTICAL</td> <td>FOM</td> <td>FACE OF MASONRY</td>	ACOUS	ACOUSTICAL	FOM	FACE OF MASONRY
ADA AMERICANS WITH DISABILITIES ACT FRP FIBERCLASS REINFORCED ACCI ARCILL CIRCUIT INTERRUPTER FTG FOOTOR PRET ALT ALUTICIRCUIT INTERRUPTER FTG FOOTOR PRET ARCH ARCHURNUM GA GAUCE, GACE ALT ALTERNATE GAU GAUVANIZED BARCH ARCHHTET(TURAL) GB GRAB BAR BD BOARD GC GRAB BAR BD BOARD GC GRAD BAR BT BTUMINOUS GY OYPSUM BOARD BLT BUILDING COME HB HOSE BIBB BLR BUT BOTOM HGT HEIGHT BLR BOTTOM HGT HEIGHT HEIGHT BLR BOTTOM HGT HORIZONTAL AGUE BLR BOTOM HGT HORIZON	ACT	ACOUSTICAL CEILING TILE	FOS	FACE OF STUD
AFCI APC FLAUT. CIRCUIT INTERRUPTER FT FOOT OR FEET FF APCOT OR FEET FOOT OR FEET ALL ALTERNATE GAL GAUGE, GAGE ALL ALTERNATE GAL GAUGE, CAGE ARCH ARCHTECTURAL) GB GARD GC BORM BCR GRUND FAULT. CIRCUIT IN BUE BETWEEN GW GV GUND FAULT. CIRCUIT IN BUT BTUMENOUS GY GYPSUM BOARD BUG BULDONG HB HOSE BIBB BUG BULDONG HB HOSE BIBB BUG BULDONG HD HARDWARE BUT BUTWEEN HOW HARDWARE BUT BUTOR HOW		AMERICANS WITH DISABILITIES ACT	FRP	FIBERGLASS REINFORCED PA
AFF ABOVE FINISH FLOOR FTG FOOTING ALL ALININUM GA GAUGE GAGE ARCH ARCHMINUM GALV GALVANIZED BARCH ARCHMITECTURAL) GE GRAB BAR BD BOARD GC GENERAL CONTRACTOR BD BOARD GC GENERAL CONTRACTOR BD BET BETWEEN GVB GYPSUM BOARD BIT BITUMINOUS GVB GYPSUM BIT BITUMINOUS GVD HEIGHT BIT BITUMINOUS HEIGHT HEIGHT			FT	FOOT OR FEET
ALL ALUMINUM GA GAUGE, GACE ATT ALTENATE GAUGE, GACE ARCH ARCHATECTURAL) GB GRAB BAR BD BOAD GC GENERAL CONTRACTOR BDR BET BETWEEN GFCI GRUM BOARD BLT BITUMINOUS GP GYPSUM BOARD BLG BULDNG HE HOWN BADWOOP BLK BLOCKINC HC HOUNN BADWOOP BLK BLOCKINC HC HOUNN BADWOOP BUM BELOW HOWN HADWOOP BUR BULT UP ROOF HM HOUNN HADWOOP BUR BULT UP ROOF HM HOUNN HADWOOP CALFORNA BULLING CODE HNAC HEATINO, VENTUATION, AC CEM CLECRENT LD INPLACE CL CONTOL JOINT INC INCL INCL CL CENTELINE INCL INCL INCL CL CELR ACOME INCL INCL CL CELSTIN PLACE IN INCL INCL CL <td></td> <td></td> <td>FTG</td> <td>FOOTING</td>			FTG	FOOTING
ALT ALTERNATE GALV GALVANIZED ARCH				
ARCH ARCHTECT(URAL) GB GRAB BAR BD BOARD GC CRABRAL CONTRACTOR BDRM BERROOM GFCI GROUND FALLT CIRCUIT IN BET BETUMINOUS GYP GYPSUM BOARD BLG BLOCKINS HB HOWE OYPSUM BOARD BLKG BLOCKINS HC HOLLOW CORE BLW BELOW HOWE HARDWOOD BLW BLCOW ICKINS HC HOLLOW CORE BUR BULT UP ROOF HM HOLLOW METAL BUR BULT UP ROOF HM HOLLOW METAL CBC CATCH BASIN HORIZ HORIZ HORIZONTAL CBC CATCH BASIN HORIZ HORIZ HORIZONTAL CBC CATCH BASIN HORIZ HORIZ HORIZONTAL CBC CATCH BASIN HORIZ HORIZONTAL CBC CATCH BASIN HORIZ HORIZONTAL CBC CATCH BASIN HORIZONTAL INSIDE DIAMETER CCM CUBCETET PER INNUTE ID INSIDE DIAMETER CL CATCH BASIN HORIZONTAL INSIDE TANDUCTON LADES CL CONTOL_JOINT INCAH INSIDE DIAMETER CL CONTOL_JOINT INCAH INSIDE DIAMETER				
BD BOARD GC GENAL CONTRACTOR BDRM BEDROOM GYU GYUND FAULT CIRCUIT IN BET BETWEEN GYB GYPSUM BOARD BIT BITUMINOUS GYP GYPSUM BOARD BUG BULDING HB H03E BIBB BLKS BLOCKINS HC HOUWD HARDWOOD BM BEAM HDWH HARDWOOD BM BEAM HDWH HARDWOOD BM BULT UP ROOF HM HOUWH HARDWOOD BW BELOW HDWH HARDWOOD BUR BULT UP ROOF HM HOUWH HARDWOOD CR CALH BANN HORZ HORZONTAL CR CALE DANN HORZ HORZONTAL CR CALH BANN HORZ HORZONTAL CR CALE DANN HD INSUE INSULATION CLASS CR CALENTRALTOR INT INT INT CL CONTON LANDRS LANDRATE CL				
BORM BEDROM GFCI GROUND FAULT CIRCUIT IN BET BIT MININOUS GYP GYPSUM BOARD BLOB BULDING HB HOSE BURDING HC BLOB BULCING HB HOSE BURDING HC BLOB BULCING HC HOULOW CORE BLW BULCOW HDWH HARDWOOD BW FELAM HDWH HARDWORD BUR BULTUP ROOF HM HOLLOW METAL CC CALFORNIA BULLING CODE HVAC HEATINO, AC CC CAST IN PLACE IN INCAPD INSULTION, INSULATION, INSULATION, INSULATION, CLASS CJ CONTROL_JOINT INCAPD INSULTION, INSULATION, INSULATION, INSULATED CLO CONTECL_TEET PER INIVITE IN INTERIOR INTERIOR CLO CONTOL_JOINT INSUL INSULATION, INSULATED INSULATION, INSULATED CLO CONTOL_JOINT INSUL INSULATION, INSULATED INSULATION, INSULATED CLO CONTOL_OUNTA LAW AVATORY<				
THE BUTUMINOUS GVPS UM BOARD BIT BITUMINOUS GVPS UM BOARD BIG BULLING HB HOSE BIBB BLGS BULCING HB HOSE BIBB BIK BLCOW HDWD HARDWODD BUK BELOW HDWD HARDWORD BUR BULT UP ROOF HM HOUZ HORZONTAL CB CATCH BASIN HORZ HORZONTAL CB CONTROLJOINT INCAND INCAND CL CONTROLJOINT INCAND INCAND CL CONTROLJOINT LAWATORY JONT CL CONTROLJOINT LAWATORY INT				
BIT BITUMINOUS BILOS GYP GYPSUM BLDG BUILDING CONS BLG BLOCKING HG HG HOLLOW CORE BLKG BLOCKING HG HG HOLLOW CORE BLW BELOW HDWD HARDWOOD BLKG BLOCKING HG HG HGUN HARDWOOD BLW BELOW HDWD HARDWOOD BLW BELOW HDWD HARDWOOD BLW BELOW HDWD HARDWOOD BLW BELOW HDWD HARDWOOD BLW HDWD HARDWOOD BLW HGUN HGT HEIGHT BUT UP ROOF HM HGT HEIGHT CS CALTOPANA BULLONG CODE HVAC HCATING, VENTLATION, AC CS CALFORNA BULLONG CODE IN INSIDE DIAMETER CJ CONTROLJOINT IL INSIDE DIAMETER CJ CONTROCTORETE ASONRY UNIT IL INSIDE TOWNERS IN PLACE CONST CONSTRUCTION CONT CONTINUOUS CJ LEAD CUT ILE INSIDE POINTS CONST CONSTRUCTION CONT CONTINUOUS LF LINEAR LEED LEADERSHIP IN ENERGY AN ENVIRONMENTAL DESCH CJ CARPET CJ CARPET LING LING TILE CJ CERR ILING INT INTERIOR CONT CONTINUOUS LF LING LING LINGELY CJ CARPET CJ CARPET LING LING FOUNTAIN LW LIGHTWEIGHT DIA DIAMETER, DIAPHRAGM MAX MAXIMUM DIG IDMENSION DOWN MCCH MECHANICAL LEET LING LINGELY WINT TILE DF DRINKIG FOUNTAIN LW LIGHTWEIGHT DIA DIAMETER, DIAPHRAGM MAX MAXIMUM DIG MANASHER DOWN SPOUT MECH MECHANICAL LECTRICAL DW DIGHWASHER DW DIGHWASHER MIN MINIMUM DWG DRAVING CONTAIN LW LIGHTWEIGHT DIA DIAMETER, DIAPHRAGM MOX MAXOMUM MOX MAXOMUM MECH MECHANICAL LECTRICAL DW DIGHWASHER DW DIGHWASHER MIN MINIMUM DWG DRAVING CONTAIN LW LIGHTWEIGHT DIA DIAMETER, DIAPHRAGM MAX MAXIMUM MINIMUM DWG DRAVING CONTAIN MINIMUM DIGHER, DIAPHRAGM MOX MAXOMUM MCCH MECHANICAL DEF PRINCIPACINER LUNG LINGLEAR EXPERSION DOWN SPOUT MECHANICAL LECTRICAL DY LUXUACTURER EXPANSION DOT MORE MECHANICAL EXPERSION DOWN SPOUT MECHANICAL LECTRICAL DY LUXUACTURER EXPANSION DOT MORE MECHANICAL EXPERSION DOWN SPOUT MINIMUM ADVENTY FIBERBO. DY DIGNUMERER CANDER EXTENCIONECTION FERSION DY DYNON SPOUT M				
BLDG DILDING HB HOSE BIB BLKG BLOCKING HC HOLLOW CORE BLW BELOW HDWD HARDWOOD BM BELOW HDWD HARDWOOD BM BELOW HDWR HARDWOOD BM BELOW HDWR HARDWOOD BM BELOW HDWR HARDWOOD BM BULT UP ROOF HM HOLLOW KETAL CB CATLFORNIA BUILDING CODE HVAC HEATING, VENTILATION, AC CB CATLFORNIA BUILDING CODE HVAC HEATING, VENTILATION, AC CB CATLFORNIA BUILDING CODE HVAC HEATING, VENTILATION, AC CB CATLFORNIA IONIT IONITAL IONITAL CB CONTROLJOINT INAUTINTORS CLOSET ICLOS CLAST CL CONTER LINEANONTY UNIT LAW LAWINTORS CLOSET ICL CL COLEAN OUT LAWINATER EDUNES IED LED LEDDENSHIP IN ENERGY AN CONT CONTRACTOR LIN	BET	BETWEEN		
BLGG BLGOKING HC HOLLOW CORE BLW BELOW HDWD HARDWARE BUR BLILT UP ROOF HM HOLLOW METAL BOT BOTTOM HGT HEIGHT BUR BUILIDING CODE HVAC HEATING, VENTILATION, AC CBC CALTORNIA BUILDING CODE HVAC HEATING, VENTILATION, AC CBC CALTORNIA BUILDING CODE HVAC HEATING, VENTILATION, AC CP CAST IN FLACE IN INCAH INCANDESCENT CL CONTEOL JOINT INCAND INCAND INCAND CLO CORTEQLING JIT JOINT INCAND CLO COSET JC JANITORS CLOSET JC CLO COSET JC JANITORS CLOSET JC CLO COSET JC JANITORS CLOSET JC CLO COSET JT JOINT LED LED LED DENSIDIATION CONC CORGETE MASONRY UNIT LAWINATED LAWINATED LES	BIT	BITUMINOUS		
BLW BELOW HOW HARDWOOD BM BEAM HOWR HARDWOOD BM BEAM HOWR HARDWORRE BUR BUILT UP ROOF HM HOLLOW METAL BUR BUILT UP ROOF HM HOLLOW METAL CBC CALIFORNIA BUILDING CODE HVAC HEATING, VENTILATION, AC CGL COLEMENT ILO INSUL INSULATION INSUL	BLDG	BUILDNG		
BAM BEAM HOW HARDWARE BOT BOTTOM HGT HEIGHT BUR BUILUP ROOF HM HOLLOW METAL CB CATCH BASIN HORZ HORZATING, VENTLATION, AC CB CATCH BASIN HORZ HORZATING, VENTLATION, AC CB CATCH BASIN HORZ HATING, VENTLATION, AC CB CATCH BASIN IN INCH CB CATCH BASIN IN INCH CB CATCH BASIN IN INCH CI CONTROLJOINT IN INCAND INCAND CL CENTER LINE INSUL INSUL INSULATION, INSULATED CL CONTECCORFTE MASONRY UNIT LAW LAMINATE CONT CO COLON LEF LIAMINATE CONT CONTRACTOR CONT CONTRACTOR LIN LINEAP RET LOND LOND CONT CONTRACTOR LIN LINEAP RET LUNEAP RET CONT CONTRACTOR L	BLKG	BLOCKING		HOLLOW CORE
BOT BUT BUR BUR BUR BUR BUR BUR BUR BUR BUR BUR	BLW	BELOW	HDWD	HARDWOOD
BUR BULTUP ROOF HM HOLLOW METAL CB CATCH BASIN HORIZ HORIZ MORZONTAL CB CATCH BASIN HORIZ HORIZ MORZONTAL CB CATCH BASIN ID INSIDE DAMETER CFM CUBIC FEET PER MINUTE ID INSULATION CLASS CJ CONTROL JOINT INCAND ISOCON INCAND ISOCON CL CLORETE MASONRY UNIT ILM INSULATION, INSULATED CLO CLOSET JC JOINT INT CONCRETE MASONRY UNIT LAW LAMINATE CO COL CLOUMN LBS POUNDS CONT CONST CONTRUCTION LF LINEAR FEET LINCINUMENTAL DESIGN CONT CONTRACTOR LIN LINCINUMENTAL DESIGN CT CERAMIC TILE LTG() LINT WINTHER DESIGN CT CERAMIC TILE LTG() LINT WINTHER DESIGN CONT CONTRACTOR LIN LINCINUMENTAL DESIGN DA DUNBLE LINCINUMENTAL DESIGN LINCINUMENTAL	BM	BEAM	HDWR	HARDWARE
CB CATCH BASIN HORIZ HORIZ HORIZ HORIZ CINTAL CBC CALIFORNIA BUILDING CODE HVAC HEATING, VENTILATION, AC CBC CALIFORNIA BUILDING CODE HVAC HEATING, VENTILATION, AC CEM CEMENT ID INSIDE DIAMETER ID CFM CUBIC FEET PER MINUTE ID INSIDE DIAMETER INCH CJ CONTROL JOINT INCAMID INCAMIDSCENT CL CENTER LINE IN INSULATION, INSULATED CLG CELING INT INSULATION, INSULATED CLG CELAR JT JOINT CMU CONCRETE MASONRY UNIT LAW LAWATORY COL COLUMN LBS POUNDS CONC CONCRETE LEED LEDED EXIPIP IN ENERGY AN CONST CONTRUCTION LF LINCENTRACTOR CONT CONTRACTOR LIN LINCELUMETER CONT CONTRACTOR LIN LINCELUM CT CARPET LINU LUNURY VINUT TILE DBL DOUNTAN MAX MAXIMUM DBL DOUNTAN MAX MAXIMUM DA DAMETER, DIAPHRAGM MAX MAXIMUM DIA </td <td>BOT</td> <td>BOTTOM</td> <td>HGT</td> <td>HEIGHT</td>	BOT	BOTTOM	HGT	HEIGHT
CB CALIFORNIA BUILDING CODE HVAC HeATING, VENTLATION, AC CBC CALIFORNIA BUILDING CODE HVAC HEATING, VENTLATION, AC CP CAST IN PLACE ID INSIDE DIAMETER CJ CONTROL JOINT INCAND INCANDESCENT CL CENTER LINE IN INSULATION, INSULATED CLG CELING INT INSULATION, INSULATED CLG CELING JT JOINT CLG CLEAR JT JOINT CMU CONCRETE MASONRY UNIT LAW LAWATORY COL COLUMN LBS POUNDS CONC CONCRETE LEED LEADERSHIP IN ENERGY AN CONC CONCRETE LIND LINDENTIAL CONT CONTRACTOR LIN LINCENTAR CONT CONTRACTOR LIN LINCENTAR CONT CONTRACTOR LIN LINDELUM CT CARPET LINO LUXURY VINUT CT CARPET LINU LUXURY VINUT CONT CONTRACTOR LIN LINCELUM CONT CONTRACTOR LIN LINCELUM CONT CONTRACTOR LINU LUXURY VINUT DIA <	BUR	BUILT UP ROOF	HM	HOLLOW METAL
CBC CALIFORNIA BUILDING CODE HVAC HEATING, VENTILATION, AG CEM CUBIC FEET PER MINUTE ID INSIDE DIAMETER CIP CAST IN PLACE IN INCH CI CONTROL JOINT INCANDESCENT IC CL CENTER LINE INSUL INSUL INSULATION, INSULATED CLG CELING INT INTERIA INT CLG CELING INT INTERIA JANITORS CLOSET CLG CELEAR JT JOINT CANTORS CLOSET CLR CLEAR JT JOINT CANTORS CLOSET CON CONCRETE MASONRY UNIT LAM LAMIATE CONST CONST CONTRACTOR LIN LINEN CLOSET CONST CONTRACTOR LIN LINENTAL DESIGN CONT CONTRACTOR LIN LINCELWARTAL DESIGN CONTR CONTRACTOR LIN LINCELWARTAL DESIGN CONT CONTRACTOR LIN LINCELWARTAL DESIGN CONTR CONTRACTOR LINC LINCELWARTAL DESIGN CONTRACTOR <td></td> <td></td> <td>HORIZ</td> <td>HORIZONTAL</td>			HORIZ	HORIZONTAL
CEM CEMENT ID INSIDE DIAMETER CFM CUBIC FEET PER MINUTE IIC IMPACT INSULATION CLASS CJP CAST IN PLACE IN INCAND CJ CONTROL JOINT INCAND INCANDESCENT CL CENTER LINE INSULATION INSULATED CLG CELING INT INSULATION INSULATED CLO CLOSET JC JANITORS CLOSET CLO CLOSET JC JANITORS CLOSET CLO COLOSET JC JANITORS CLOSET CONC CONCRETE MASONRY UNIT LAW LAWITORY CONC CONCRETE LEED LEADERSHIP IN ENERGY AN CONC CONCRETE LEED LIND LINDUS CONT CONTRACTOR LIND LINDUELUM CONT CONTRACTOR LIND LINDUELUM CONT CONTRACTOR LIND LUNDUELUM CONT CONTRACTOR LINDUELUM LINDUELUM CONT CONTRACTOR LINDUNULUNY TILE LINDUNULUNY TILE			HVAC	HEATING, VENTILATION, A/C
CHM CUBIC FEET PER MINUTE IIC IMPACT INSULATION CLASS CIP CAST IN PLACE IN INCAMBESCENT CL CONTROL JOINT INCANDESCENT CL CENTER LINE INSUL INSULATION, INSULATED CLG CELING INT INTERIOR CLG CELING INT INTERIOR CLG CELING JT JOINT CLG CELING JT JOINT CONCRETE MASONRY UNIT LAM LAMINATE CO COLUMN LBS POUNDS CONC CONCRETE LEED LEADERSHIP IN ENERGY AN CONT CONTRUCTION ENVIRONMENTAL DESIGN CONT CONTRACTOR LIN LINCELIM CONT CONTRACTOR LIN LINCELIM CTR CERAMIC TILE LIQ LIGHT(ING) CTR CERAMIC TILE LIN LINCELIM DBL DOUBLE LVT LUXIEL AMINATED VENEER LUMBE DBL DOUBLE LVT LUXIEL AMINATED VENEER LUMBE DBL DOUBLE LVT LUXIELY VINVL TILE DF DRINKING FOUNTAIN MAX MAXIMUM DML DIMENSION MDF MEDIMMECAL			ID	
CIP GAST IN PLACE IN INCH CJ CONTROL JOINT INCAND INCANDESCENT CL CENTER LINE INSULATION, INSULATED CLG CLOSET JC JANITORS CLOSET CLO CLOSET JC JANITORS CLOSET CLR CLEAR JT JOINT CMU CONCRETE MASONRY UNIT LAW LAWITARS CLOSET CO CLEAN OUT LAV LAVATORY COL COLUMN LBS POUNDS CONC CONCRETE LEED LEADERSHIP IN ENERGY AN ENVROMMENTAL DESIGN CONT CONTRACTOR LIN LINEAR FEET CONT CONTRACTOR LIN LINCELUME CONT CONTRACTOR LIN LINCELUME CONT CONTRACTOR LIN LINCELUME CT CARPET LINO LINOLEUM CT CARPET LINO LINUERY FEET DOUNTROCTOR LY LAMINTED VENERLUME DE DOUNTRACTOR LY LAMINTED VENERLUME DE DOUNTANTAIN LW LIGHT(ING) DIM DIMESTER JUAPHRAGM MAX MAXIMUM DA DAWENG MAX MAXIMUM DA		-	IIC	
CANTROLIONT INCAND INCAND CL CONTROLIONT INCAND INSUL INSULATION, INSULATED CLG CELING INT INTERIOR CLO CLOSET JC JANITORS CLOSET CLR CLEAR JT JOINT CMU CONCRETE MASONRY UNIT LAW LAMINATE CO CLEAN OUT LAW LAWINATE CO CLEAN OUT LAW LAWINATE CO COLUMN LBB POUNDS CONTROLTION ENVRONMENTAL DESIGN CONTR CONTRACTOR LIN LINCE LASET CONTR CONTRACTOR LIN LINCE LASET CONTR CONTRACTOR LIN LINCE LUSSET CT CERAMIC TILE LTG LIGHT(ING) CT CERAMIC TILE LTG LIGHT(ING) CT CERAMIC TILE LVL LAMINATED VENEER LUMBE DBL DOUBLE LVL LAMINATED VENEER LUMBE DA DAMETER, DIAPHRAGM MAX MAXIMUM DI DIMENSION MDF MEDIUM DENSITY FIBERDO. DN DOWN MECHANICAL, ELECTRICAL, DR DN DOWN MECHANICAL, ELECTRICAL DN				
CL CENTER LINE INSUL INSULATION, INSULATED CLG CELING INT INTERIOR CLG CLOSET JC JOINT CRMU CONCRETE MASONRY UNIT LAM LAMINATE CO CLEAR JT JOINT COL CONCRETE LEAD LAV LAVATORY CO CLEAN OUT LAV LAVATORY CO COLUMN LBS POUNDS CONC CONCRETE LED EADERSHIP IN ENERGY AN CONST CONSTRUCTION LIN LINEAR FEET CONT CONTRACTOR LIN LINENCLOSET CONTR CONTRACTOR LIN LINEND VERER LUME CONT CONTRACTOR LIN LINEND VENER LUME CONT CONTRACTOR LIN LINEND VENER LUME CONT CONTRACTOR LIN LINEAR FEET DBL DOUBLE LYUL LAMINATED VENEER LUME DA DAMINTRO MAX MAX				
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FO FACE OF PSL PARALLEL STRAND LUMBER				
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FOF FACE OF FINISH PTD PAINTED	FOF	FACE OF FINISH	PTD	PAINTED

SYMBOLS



REVISION TAG

£ CENTERLINE

(P1) MATERIAL TAG

RNISHED BY OWNER INSTALLED BY NTRACTOR E OF MASONRY E OF STUD ERGLASS REINFORCED PANELS OT OR FEET JGE, GAGE VANIZED AB BAR NERAL CONTRACTOR OUND FAULT CIRCUIT INTERRUPTER PSUM BOARD SE BIBB LOW CORE RDWOOD RDWARE LOW METAL RIZONTAL ATING, VENTILATION, A/C IDE DIAMETER ACT INSULATION CLASS ANDESCENT ULATION, INSULATED IITORS CLOSET **IINATE** ATORY DERSHIP IN ENERGY AND /IRONMENTAL DESIGN EAR FEET EN CLOSET OLEUM HT(ING) INATED VENEER LUMBER URY VINYL TILE HTWEIGHT XIMUM DIUM DENSITY FIBERBOARD CHANICAL MBRANE CHANICAL, ELECTRICAL, PLUMBING NUFACTURER CELLANEOUS SONRY OPENING UNTED T IN CONTRACT T TO SCALE ERFLOW PIPE CENTER ERFLOW DRAIN POSITE HAND POSITE OPOSED RIMETER RPENDICULAR NT GRADE TE, PROPERTY LINE STIC LAMINATE JMBING WOOD **NER POLE** RTITION JNDS PER SQUARE FOOT

PHOTO VOLTAIC PV PVC POLYVINYL CHLORIDE PVMT PAVEMENT QTY QUANTITY RADIUS, RISER R RUBBER BASE RB RCP REFLECTED CEILING PLAN RD ROOF DRAIN REF REFRIGERATOR REINF REINFORCED REQD REQUIRED RH RIGHT HAND RM ROOM RO ROUGH OPENING ROOF TOP UNIT (MECH) RTU 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 WINDOW WDW WATER HEATER WH WROUGHT IRON WIN WINDOW WP WATERPROOF(ING) WR WEATHER RESISTIVE WATER RESISTIVE BARRIER WRB WAINSCOT WSCT WT WEIGHT WWF WELDED WIRE FABRIC YD YARD

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CONSULTANT

AGENCY

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2019 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 REGULATIONS, TITLE 24, ALSO REFERRED TO AS THE CALIFORNIA BUILDING STANDARDS CODE.

101.2 PURPOSE.

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:

- 1. 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.

NOTE:ON AND AFTER JANUARY 1, 2014, RESIDENTIAL BUILDINGS UNDERGOING PERMITTED ALTERATIONS, ADDITIONS OR IMPROVEMENTS SHALL REPLACE NONCOMPLIANT PLUMBING FIXTURES WITH WATER-CONSERVING PLUMBING FIXTURES. PLUMBING FIXTURE REPLACEMENT IS REQUIRED PRIOR TO ISSUANCE OF A CERTIFICATE OF FINAL COMPLETION, CERTIFICATE OF OCCUPANCY OR FINAL PERMIT APPROVAL BY THE LOCAL BUILDING DEPARTMENT. SEE CIVIL CODE SECTION 1101.1, ET SEQ., FOR THE DEFINITION OF A NONCOMPLIANT PLUMBING FIXTURE, TYPES OF RESIDENTIAL BUILDINGS AFFECTED AND OTHER IMPORTANT ENACTMENT DATES.

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

- SWALES 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: 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. WHERE THERE IS NO COMMERCIAL POWER SUPPLY. 2. WHERE THERE IS EVIDENCE SUBSTANTIATING THAT MEETING THE REQUIREMENTS WILL ALTER THE LOCAL UTILITY INFRANSTRUCTURE DESIGN REQUIREMENTS ON THE UTILITY SIDE OF THE METER SO AS TO INCREASE THE UTILITY SIDE COST TO THE HOMEOWNER OR THE DEVELOPER BY MORE THAN \$400.00 PER DWELLING UNIT.

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.

WHERE 17 OR MORE MULTIFAMILY DWELLING UNITS ARE CONSTRUCTED ON A BUILDING SITE, 3 PERCENT OF THE TOTAL NUMBER OF PARKING SPACES PROVIDED FOR ALL TYPES OF PARKING FACILITIES, BUT IN NO CASE LESS THAN ONE, SHALL BE ELECTRIC VEHICLE CHARGING STATIONS (EV SPACES) CAPABLE OF SUPPORTING FUTURE EVSE. CALCULATIONS FOR THE NUMBER OF EV SPACES SHALL BE ROUNDED UP TO THE NEAREST WHOLE NUMBER.

NOTE: CONSTRUCTION DOCUMENTS ARE INTENDED TO DEMONSTRATE THE PROJECT'S CAPABILITY AND CAPACITY FOR FACILITATING FUTURE EV CHARGING. THERE IS NO REQUIREMENT FOR EV SPACES TO BE CONSTRUCTED OR AVAILABLE UNTIL EV CHARGERS ARE INSTALLED FOR USE

4.106.4.2.1 ELECTRIC VEHICLE CHARGING SPACE (EV SPACE) LOCATIONS. CONSTRUCTION DOCUMENTS SHALL INDICATE THE LOCATION OF PROPOSED EV SPACES. AT LEAST ONE EV SPACE SHALL BE LOCATED IN COMMON USE AREAS AND AVAILABLE FOR USE BY ALL RESIDENTS

WHEN EV CHARGERS ARE INSTALLED, EV SPACES REQUIRED BY SECTION 4.106.2.2, ITEM 3, SHALL COMPLY WITH AT LEAST ONE OF THE FOLLOWING OPTIONS:

- 1. THE EV SPACE SHALL BE LOCATED ADJACENT TO AN ACCESSIBLE PARKING SPACE MEETING THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, CHAPTER 11A, TO ALLOW USE OF THE EV CHARGER FROM THE ACCESSIBLE PARKING SPACE.
- 2. THE EV SPACE SHALL BE LOCATED ON AN ACCESSIBLE ROUTE, AS DEFINED IN THE CALIFORNIA BUILDING CODE, CHAPTER 2, TO THE BUILDING.

4.106.4.2.2 ELECTRIC VEHICLE CHARGING SPACE (EV SPACE) DIMENSIONS. THE EV 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 EV 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.

4.106.4.2.3 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 PROPOSED LOCATION OF THE EV SPACES. CONSTRUCTION DOCUMENTS SHALL IDENTIFY THE RACEWAY TERMINATION POINT. 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 PROTECTIVE DEVICE.

4.106.4.2.4 MULTIPLE EV SPACES REQUIRED.

CONSTRUCTION DOCUMENTS SHALL INDICATE THE RACEWAY TERMINATION POINT AND PROPOSED LOCATION OF FUTURE EV SPACES AND EV CHARGERS. CONSTRUCTION DOCUMENTS SHALL ALSO PROVIDE INFORMATION ON AMPERAGE OF FUTURE EVSE, RACEWAY METHOD(S), WIRING SCHEMATICS AND ELECTRICAL LOAD CALCULATIONS TO VERIFY 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 THE FULL RATED AMPERAGE OF THE EVSE. PLAN DESIGN SHALL BE BASED UPON A 40-AMPERE MINIMUM BRANCH CIRCUIT. RACEWAYS AND RELATED COMPONENTS THAT ARE PLANNED TO BE INSTALLED UNDERGROUND, ENCLOSED, INACCESSIBLE OR IN CONCEALED AREAS AND SPACES SHALL BE INSTALLED AT THE TIME OF ORIGINAL CONSTRUCTION.

4.106.4.2.5 IDENTIFICATION. 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.

NOTES:

- 1. THE CALIFORNIA DEPARTMENT OF TRANSPORTATION ADOPTS AND PUBLISHES THE "CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CALIFORNIA MUTCD)" TO PROVIDE UNIFORM STANDARDS AND SPECIFICATIONS FOR ALL OFFICIAL TRAFFIC CONTROL DEVICES IN CALIFORNIA. ZERO EMISSION VEHICLE SIGNS AND PAVEMENT MARKINGS CAN BE FOUND IN THE NEW POLICIES & DIRECTIVES NUMBER 13-01. WEBSITE:
- HTTP://WWW.DOT.CA.GOV/TRAFFICOPS/POLICY/13-01.PDF 2. SEE VEHICLE CODE SECTION 22511 FOR EV CHARGING SPACE SIGNAGE IN OFF-STREET PARKING FACILITIES AND FOR USE OF EV
- CHARGING SPACES. 3. THE GOVERNOR'S OFFICE OF PLANNING AND RESEARCH (OPR) PUBLISHED A "ZERO-EMISSION VEHICLE COMMUNITY READINESS GUIDEBOOK" WHICH PROVIDES HELPFUL INFORMATION FOR LOCAL GOVERNMENTS, RESIDENTS AND BUSINESSES, WEBSITE: HTTP://OPR.CA.GOV/DOCS/ZEV_GUIDEBOOK.PDF.

4.106.4.3 NEW HOTELS AND MOTELS

ALL NEWLY CONSTRUCTED HOTELS AND MOTELS SHALL PROVIDE EV SPACES CAPABLE OF SUPPORTING FUTURE INSTALLATION OF EVSE. THE CONSTRUCTION DOCUMENTS SHALL IDENTITY THE LOCATION OF THE EV SPACES.

NOTES:

- 1. CONSTRUCTION DOCUMENTS ARE INTENDED TO DEMONSTRATE THE PROJECT'S CAPABILITY AND CAPACITY OR FACILITATING FUTURE EV CHARGING.
- 2. THERE IS NO REQUIREMENT FOR EV SPACES TO BE CONSTRUCTED OR AVAILABLE UNTIL EV CHARGERS ARE INSTALLED FOR USE.

4.106.4.3.1 NUMBER OF REQUIRED EV SPACES

THE NUMBER OF REQUIRED EV SPACES SHALL BE BASED ON THE TOTAL NUMBER OF PARKING SPACES PROVIDED FOR ALL TYPES OF PARKING FACILITIES IN ACCORDANCE WITH TABLE 4.106.4.3.1.

CALCULATIONS FOR THE REQUIRED NUMBER OF EV SPACES SHALL BE ROUNDED UP TO THE NEAREST WHOLE NUMBER.

TABLE 4.106.4.3.1

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED EV SPACES
0-9	0
10-25	1
26-50	2
51-75	4
75-100	5
101-150	7
151-200	10
201 AND OVER	6% OF TOTAL

4.106.4.3.2 ELECTRIC VEHICLE CHARGING SPACE (EV SPACE) **DIMENSIONS** THE EV 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.

4.106.4.3.3 SINGLE EV SPACE REQUIRED WHEN A SINGLE EV SPACE IS REQUIRED, THE EV SPACE SHALL BE

DESIGNED IN ACCORDANCE WITH SECTION 4.106.4.2.3.

4.106.4.3.4 MULTIPLE EV SPACES REQUIRED

WHEN MULTIPLE EV SPACES ARE REQUIRED, THE EV SPACES SHALL BE DESIGNED IN ACCORDANCE WITH SECTION 4.106.4.2.4

4.106.4.3.5 IDENTIFICATION. THE SERVICE PANELS OR SUB-PANELS SHALL BE IDENTIFIED IN ACCORDANCE WITH SECTION 4.106.4.2.5.

4.106.4.3.6 ACCESSIBLE EV SPACES.

IN ADDITION TO THE REQUIREMENTS IN SECTION 4.106.4.3, EV SPACES FOR HOTELS/MOTELS AND ALL EVSE, WHEN INSTALLED, SHALL COMPLY WITH THE ACCESSIBILITY PROVISIONS FOR THE EV CHARGING STATIONS IN THE CALIFORNIA BUILDING CODE, CHAPTER 11B.

NOTES:

- 1. THE CALIFORNIA DEPARTMENT OF TRANSPORTATION ADOPTS AND PUBLISHES THE "CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVISES (CALIFORNIA MUTCD)" TO PROVIDE UNIFORM STANDARDS AND SPECIFICATIONS FOR ALL OFFICIAL TRAFFIC CONTROL DEVISES IN CALIFORNIA. ZERO EMISSION VEHICLE SIGNS AND PAVEMENT MARKINGS CAN BE FOUND IN THE NEW POLICIES & DIRECTIVES NUMBER 13.01. WEBSITE: HTTP://WWW. DOT. CA .GOV/TRAFFICOPS/POLICY/HTML.
- 2. SEE VEHICLE CODE SECTION 22511 FOR EV CHARGING SPACE SIGNAGE IN OFF-STREET PARKING FACILITIES AND FOR USE OF EV CHARGING SPACES.
- 3. THE GOVERNOR'S OFFICE OF PLANNING AND RESEARCH (OPR) PUBLISHED A "ZERO-EMISSION VEHICLE COMMUNITY READINESS GUIDEBOOK" WHICH PROVIDES HELPFUL INFORMATION FOR LOCAL GOVERNMENTS, RESIDENTS AND BUSINESSES. WEBSITE HTTPS://OPR.CA.GOV/DOCS/ZEV GUIDEBOOK.PDF.
- 4. THE GOVERNOR'S LNTERAGENCY WORKING GROUP ON ZERO-EMISSION VEHICLES. 2016, "2016 ZEV ACTION PLAN, AN UPDATED ROADMAP TOWARD 1.5 MILLION ZERO-EMISSION VEHIDES ON CALIFORNIA ROADWAYS BY 2025." HTTPS://WWW.GOV.CA.GOV/DOCS/2016 ZEV ACTION PLAN.PDF.

DIVISION 4.2 ENERGY EFFICIENCY

4.201 GENERAL

MANDATORY STANDARDS.

4.201.1 SCOPE. FOR THE PURPOSES OF MANDATORY ENERGY EFFICIENCY STANDARDS IN THIS CODE, THE CALIFORNIA ENERGY COMMISSION WILL CONTINUE TO ADOPT

DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION

4.303 INDOOR WATER USE

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

4.303.1.1 WATER CLOSETS

THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK TYPE TOILET. NOTE: THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS THE COMPOSITE. AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH.

4.303.1.2 URINALS

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

4.303.1.3 SHOWERHEADS 4.303.1.3.1 SINGLE SHOWERHEAD

SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 2.0 GALLONS PER MINUTE AT 80M PSI. SHOWERHEADS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS.

4.303.1.3.2 MULTIPLE SHOWERHEADS SERVING ONE SHOWER WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD. THE COMBINED FLOW RATE OF ALL SHOWERHEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 2.0 GALLONS PER MINUTE AT 80 PSI, OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME.

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

NOT BE LESS THAN 0.8 GALLONS PER MINUTE AT 20 PSI.

4.303.1.4 FAUCETS

4.303.1.4.1 RESIDENTIAL LAVATORY FAUCETS THE MAXIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT EXCEED 1.2 GALLONS PER MINUTE AT 60 PSI. THE MINIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL

- 4.303.1.4.2 LAVATORY FAUCETS IN COMMON AND PUBLIC USE AREAS THE MAXIMUM FLOW RATE OF LAVATORY FAUCETS INSTALLED IN COMMON AND PUBLIC USE AREAS (OUTSIDE OF DWELLINGS OR SLEEPING UNITS) IN RESIDENTIAL BUILDINGS SHALL NOT EXCEED 0.5 GALLONS PER MINUTE AT 60 PSI.
- 4.303.1.4.3 METERING FAUCETS METERING FAUCETS WHEN INSTALLED IN RESIDENTIAL BUILDINGS SHALL NOT DELIVER MORE THAN 0.25 GALLONS PER CYCLE.

4.303.1.4.4 KITCHEN FAUCETS

THE MAXIMUM FLOW RATE OF KITCHEN FAUCETS SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE. BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI.

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

4.303.2 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS

PLUMBING FIXTURES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, AND SHALL MEET THE APPLICABLE STANDARDS REFERENCED IN TABLE 1701.1 OF THE CALIFORNIA PLUMBING CODE.

NOTE: THIS TABLE COMPILES THE DATA IN SECTION 4.303.1 AND IS INCLUDED AS A CONVENIENCE FOR THE USER.

TABLE - MAXIMUM FIXTURE WATER USE

FIXTURE TYPE	FLOW RATE
SHOWER HEADS (RESIDENTIAL)	1.8 GMP @ 80 PSI
LAVATORY FAUCETS (RESIDENTIAL)	MAX. 1.2 GPM @ 60 PSI MIN. 0.8 GPM @ 20 PSI
LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS	0.5 GPM @ 60 PSI
KITCHEN FAUCETS	1.8 GPM @ 60 PSI
METERING FAUCETS	0.25 GAL/CYCLE
WATER CLOSET	1.28 GAL/FLUSH
URINALS	0.125 GAL/FLUSH

4.304 OUTDOOR WATER USE

4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS AFTER DECMEBER 1, 2015, NEW RESIDENTIAL DEVELOPMENTS WITH AN AGGREGATE LANDSCAPE AREA EQUAL TO OR GREATER THAN 500 SQUARE

- FEET SHALL COMPLY WITH ONE OF THE FOLLOWING OPTIONS: 1. A LOCAL WATER EFFICIENT LANDSCAPE ORDINANCE OR THE CURRENT CALIFORNIA DEPARTMENT OF WATER RESOURCES'
- MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) WHICHEVER IS MORE STRINGENT; OR
- 2. PROJECTS WITH AGGREGATE LANDSCAPE AREAS LESS THAN 2,500 SQUARE FEET MAY COMPLY WITH THE MWELO'S APPENDIX D PRESCRIPTIVE COMPLIANCE OPTION.
- NOTES: 1. THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) AND SUPPORTING DOCUMENTS ARE AVAILABLE AT: HTTP://WWW.WATER.CA.GOV/WATERUSEEFFICIENCY/LANDSCAPEOR
- DINANCE/ 2. A WATER BUDGETY CALCULATOR IS AVAILABLE AT:
- HTTP://WWW.WATER.CA.GOV/WATERUSEEFFICIENCY/LANDSCAPEOR DINANCE/

DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE 4.406.1 RODENT PROOFING

ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENINGS IN SOLE/BOTTOM PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY LCOSING SUCH OPENINGS WITH CEMENT MORTAR. CONCRETE MASONRY OR A SIMILAR METHOD ACCEPTABLE TO THE ENFORCING AGENCY.

4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

4.408.1 CONSTRUCTION WASTE MANAGEMENT

RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65 PERCENT OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH EITHER SECTION 4.408.2, 4.408.3, OR 4.408.4, OR MEET A MORE STRINGENT LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE.

EXCEPTIONS:

- 1. EXCAVATED SOIL AND LAND-CLEARING DEBRIS. 2. ALTERNATE WASTE REDUCTION METHODS DEVELOPED BY WORKING WITH LOCAL AGENCIES IF DIVERSION OR RECYCLE
- FACILITIES CAPABLE OF COMPLIANCE WITH THIS ITEM DO NOT EXIST OR ARE NOT LOCATED REASONABLY CLOSE TO THE JOBSITE. 3. THE ENFORCING AGENCY MAY MAKE ACCEPTIONS TO THE
- REQUIREMENTS OF THIS SECTION WHEN ISOLATED JOBSITES ARE LOCATED IN AREAS BEYOND THE HAUL BOUNDARIES OF THE DIVERSION FACILITY.

4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN

- SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN IN COMFORMANCE WITH ITEMS 1 THROUGH 5. THE CONSTRUCTION WASTE MANAGEMENT PLAN SHALL BE UPDATED AS NECESSARY AND SHALL BE AVAILABLE DURING CONSTRUCTION FOR EXAMINATION BY THE ENFORCING AGENCY. 1. IDENTIFY THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS
- TO BE DIVERTED FROM DISPOSAL BY RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE. 2. SPECIFY IF CONSTRUCTION AND DEMOLITION WASTE MATERIALS
- WILL BE SORTED ON-SITE (SOURCE-SEPARATED) OR BULK MIXED (SINGLE STREAM). 3. IDENTIFY DIVERSION FACILITIES WHERE THE CONSTRUCTION AND
- DEMOLITION WASTE MATERIAL WILL BE TAKEN.
- 4. IDENTIFY CONSTRUCTION METHODS EMPLOYED TO REDUCE THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE GENERATED. 5. SPECIFY THAT THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE MATERIAL DIVERTED SHALL BE CALCULATED BY WEIGHT OR
- VOLUME, BUT NOT BY BOTH.

4.408.3 WASTE MANAGEMENT COMPANY. UTILIZE A WASTE MANAGEMENT COMPANY, APPROVED BY THE ENFORCING AGENCY, WHICH CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERCENTAGE OF CONSTRUCTION AND DEMOLITION WASTE MATERIAL DIVERTED FROM THE LANDFILL COMPLIES WITH SECTION 4.408.1.

NOTE: THE OWNER OR CONTRACTOR MAY MAKE THE DETERMINATION IF THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE DIVERTED BY A WASTE MANAGEMENT COMPANY.

4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR].

PROJECTS THAT GENERATE A TOTAL COMBINED WEIGHT OF CONSTRUCTION AND DEMOLITION WASTE DISPOSED OF IN LANDFILLS. WHICH DO NOT EXCEED 3.4 POUNDS PER SQUARE FOOT OF THE BUILDING AREA SHALL MEET THE MINIMUM 65 PERCENT CONSTRUCTION WASTE **REDUCTION REQUIREMENT IN SECTION 4.408.1.**

4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE.

PROJECTS THAT GENERATE A TOTAL COMBINED WEIGHT OF CONSTRUCTION AND DEMOLITION WASTE DISPOSED OF IN LANDFILLS, WHICH DO NOT EXCEED 2 POUNDS PER SQUARE FOOT OF THE BUILDING AREA, SHALL MEET THE MINIMUM 65-PERCENT CONSTRUCTION WASTE **REDUCTION REQUIREMENT IN SECTION 4.408.1.**

4.408.5 DOCUMENTATION

DOCUMENTATION SHALL BE PROVIDED TO THE ENFORCING AGENCY WHICH DEMONSTRATES COMPLIANCE WITH SECTION 4.408.2, ITEMS 1 THOUGH 5, SECTION 4.408.3 OR SECTION 4.408.4

NOTES:

- 1. SAMPLE FORMS FOUND IN "A GUIDE TO THE CALIFORNIA GREEN BUILDING STANDARDS CODE (RESIDENTIAL)" LOCATED AT WWW.HCD.CA.GOV/CALGREEN.HTML MAY BE USED TO ASSIST IN DOCUMENTING COMPLIANCE WITH THIS SECTION.
- . MIXED CONSTRUCTION AND DEMOLITION DEBRIS (C&D) PROCESSORS CAN BE LOCATED AT THE CALIFORNIA DEPARTMENT OF RESOURCES RECYCLING AND RECOVERY (CALRECYCLE).

4.410 BUILDING MAINTENANCE AND OPERATION

4.410.1 OPERATION AND MAINTENANCE MANUAL AT THE TIME OF FINAL INSPECTION, A MANUAL, COMPACT DISC, WEB-BASED REFERENCE OR OTHER MEDIA ACCEPTABLE TO THE ENFORCING AGENCY WHICH INCLUDES ALL OF THE FOLLOWING SHALL BE PLACED IN THE BUILDING

- 1. DIRECTIONS TO THE OWNER OR OCCUPANT THAT THE MANUAL SHALL REMAIN WITH THE BUILDING THROUGHOUT THE LIFE CYCLE OF THE STRUCTURE.
- 2. OPERATION AND MAINTENANCE INSTRUCTIONS FOR THE FOLLOWING: a. EQUIPMENT AND APPLIANCES, INCLUDING WATER-SAVING
- DEVICES AND SYSTEMS, HVAC SYSTEMS, PHOTOVOLTAIC SYSTEMS, ELECTRIC VEHICLE CHARGERS, WATER-HEATING SYSTEMS AND OTHER MAJOR APPLIANCES AND EQUIPMENT. b. ROOF AND YARD DRAINAGE, INCLUDING GUTTERS AND DOWNSPOUTS.
- c. SPACE CONDITIONING SYSTEMS, INCLUDING CONDENSERS AND AIR FILTERS.
- d. LANDSCAPE IRRIGATION SYSTEMS. e. WATER REUSE SYSTEMS.
- 3. INFORMATION FROM LOCAL UTILITY, WATER AND WASTE RECOVERY PROVIDERS ON METHODS TO FURTHER REDUCE RESOURCE CONSUMPTION, INCLUDING RECYCLE PROGRAMS AND LOCATIONS.
- 4. PUBLIC TRANSPORTATION AND/OR CARPOOL OPTIONS AVAILABLE IN THF ARFA 5. EDUCATIONAL MATERIAL ON THE POSITIVE IMPACTS OF AN INTERIOR
- RELATIVE HUMIDITY BETWEEN 30–60 PERCENT AND WHAT METHODS AN OCCUPANT MAY USE TO MAINTAIN THE RELATIVE HUMIDITY LEVEL IN THAT RANGE. 6. INFORMATION ABOUT WATER-CONSERVING LANDSCAPE AND
- IRRIGATION DESIGN AND CONTROLLERS WHICH CONSERVE WATER. INSTRUCTIONS FOR MAINTAINING GUTTERS AND DOWNSPOUTS AND THE IMPORTANCE OF DIVERTING WATER AT LEAST 5 FEET AWAY FROM THE FOUNDATION.
- 8. INFORMATION ON REQUIRED ROUTINE MAINTENANCE MEASURES, INCLUDING, BUT NOT LIMITED TO, CAULKING, PAINTING, GRADING AROUND THE BUILDING, ETC.
- 9. INFORMATION ABOUT STATE SOLAR ENERGY AND INCENTIVE PROGRAMS AVAILABLE.
- 10. A COPY OF ALL SPECIAL INSPECTION VERIFICATIONS REQUIRED BY THE ENFORCING AGENCY OR THIS CODE.



CONSULTANT

AGENCY

MONO COUNTY ADU PROTOTYPES MONO COUNTY	CAL GREEN RESIDENTIAL	
NO. REVISION		DATE
PROJECT MANAGER RR DRAWN BY		RY
DATE 6/30/2022		
project number 2340-0	1-CU2	1
SHEET G-2		

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES (SHEET 2)

4.410.2 RECYCLING BY OCCUPANTS.

WHERE 5 OR MORE MULTIFAMILY DWELLING UNITS ARE CONSTRUCTED ON A BUILDING SITE, PROVIDE READILY ACCESSIBLE AREA(S) THAT SERVES ALL BUILDINGS ON THE SITE AND IS IDENTIFIED FOR THE DEPOSITING, STORAGE AND COLLECTION OF NON-HAZARDOUS MATERIALS FOR RECYCLING, INCLUDING (AT A MINIMUM) PAPER. CORRUGATED CARDBOARD, GLASS. PLASTICS, ORGANIC WASTE, AND METALS, OR MEEL A LAWFULLY ENACTED LOCAL RECYCLING ORDINANCE, IF MORE RESTRICTIVE.

EXCEPTION: RURAL JURISDICTIONS THAT MEET AND APPLY FOR THE EXEMPTION IN PUBLIC RESOURCES CODE SECTION 42649.82 (A)(2)(A) ET SEQ. ARE NOT REQUIRED TO COMPLY WITH THE ORGANIC WASTE PORTION OF THIS SECTION.

DIVISION 4.5 ENVIROMENTAL QUALITY

4.501 GENERAL

4.501.1 SCOPE THE PROVISIONS OF THIS CHAPTER SHALL OUTLINE MEANS OF REDUCING THE QUANTITY OF AIR CONTAMINANTS THAT ARE ODOROUS, IRRITATING AND/OR HARMFUL TO THE COMFORT AND WELL-BEING OF A BUILDING'S INSTALLERS, OCCUPANTS AND NEIGHBORS.

4.503 FIREPLACES

4.503.1 GENERAL ANY INSTALLED GAS FIREPLACE SHALL BE A DIRECT-VENT SEALED-COMBUSTION TYPE. ANY INSTALLED WOODSTOVE OR PELLET STOVE SHALL COMPLY WITH U.S. EPA NEW SOURCE PERFORMANCE STANDARDS (NSPS) EMISSION LIMITS AS APPLICABLE. AND SHALL HAVE A PERMANENT LABEL INDICATING THEY ARE CERTIFIED TO MEET THE EMISSION LIMITS. WOODSTOVES, PELLET STOVES AND FIREPLACES SHALL ALSO COMPLY WITH APPLICABLE LOCAL ORDINANCES.

4.504 POLLUTANT CONTROL

4.504.1 COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION

AT THE TIME OF ROUGH INSTALLATION, DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF WATER, DUST AND DEBRIS, WHICH MAY ENTER THE SYSTEM.

4.504.2 FINISH MATERIAL POLLUTANT CONTROL FINISH MATERIALS SHALL COMPLY WITH THIS SECTION.

4.504.2.1 ADHESIVES, SEALANTS AND CAULKS

ADHESIVES. SEALANTS AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS UNLESS MORE STRINGENT LOCAL OR REGIONAL AIR POLLUTION OR AIR QUALITY MANAGEMENT DISTRICT RULES APPLY: 1. ADHESIVES, ADHESIVE BONDING PRIMERS, ADHESIVE PRIMERS,

SEALANTS, SEALANT PRIMERS, AND CAULKS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE OR SCAQMD RULE 1168 VOC LIMITS, AS SHOWN IN TABLE 4.504.1 OR 4.504.2, AS APPLICABLE. SUCH PRODUCTS ALSO SHALL COMPLY WITH THE RULE 1168 PROHIBITION ON THE USE OF CERTAIN TOXIC COMPOUNDS (CHLOROFORM, ETHYLENE DICHLORIDE, METHYLENE CHLORIDE. PERCHLOROETHYLENE AN TRICHLOROETHYLENE), EXCEPT FOR AEROSOL PRODUCTS, AS SPECIFIED IN SUBSECTION 2 BELOW.

2. AEROSOL ADHESIVES, AND SMALLER UNIT SIZES OF ADHESIVES, AND SEALANT OR CAULKING COMPOUNDS (IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGH MORE THAN 1 POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS. OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94507.

4.504.2.2 PAINTS AND COATINGS

ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH VOC LIMITS IN TABLE 1 OF THE ARB ARCHITECTURAL SUGGESTED CONTROL MEASURE, AS SHOWN IN TABLE 4.504.3, UNLESS MORE STRINGENT LOCAL LIMITS APPLY. THE VOC CONTENT LIMIT FOR COATINGS THAT DO NOT MEET THE DEFINITIONS FOR THE SPECIALTY COATINGS CATEGORIES LISTED IN TABLE 4.504.3 SHALL BE DETERMINED BY CLASSIFYING THE COATING AS A FLAT, NONFLAT OR NONFLAT-HIGH GLOSS COATING, BASED ON ITS GLOSS, AS DEFINED IN SUBSECTIONS 4.21, 4.36, AND 4.37 OF THE 2007 CALIFORNIA AIR RESOURCES BOARD, SUGGESTED CONTROL MEASURE, AND THE CORRESPONDING FLAT. NONFLAT OR NONFLAT-HIGH GLOSS VOC LIMIT IN TABLE 4.504.3 SHALL APPLY.

4.504.2.3 AEROSOL PAINTS AND COATINGS

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

ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE

- TESTING AND PRODUCT REQUIREMENTS OF ONE OF THE FOLLOWING: CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM. 2. CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING
- ENVIRONMENTAL CHAMBERS," VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350.) 3. NSF/ANSI 140 AT THE GOLD LEVEL.
- 4. SCIENTIFIC CERTIFICATIONS SYSTEMS INDOOR ADVANTAGE™ GOLD.

4.504.3.1 CARPET CUSHION ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CARPET AND RUG INSTITUTE'S GREEN LABEL PROGRAM. UNDEFINED

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 COMPLY WITH ONE OR MORE OF THE FOLLOWING.

- 1. PRODUCTS COMPLIANT WITH 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 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350), CERTIFIED AS A CHPS LOW-EMITTING MATERIAL IN THE COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CHPS) HIGH PERFORMANCE PRODUCTS DATABASE.
- 2. PRODUCTS CERTIFIED UNDER UL GREENGUARD GOLD (FORMERLY THE GREENGUARD CHILDREN & SCHOOLS PROGRAM). 3. CERTIFICATION UNDER THE RESILIENT FLOOR COVERING INSTITUTE
- (RFCI) FLOORSCORE PROGRAM. 4. MEET 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 1.1, FEBRUARY 2010

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.), BY OR BEFORE THE DATES SPECIFIED IN THOSE SECTIONS, AS SHOWN IN TABLE 4.504.5.

(ALSO KNOWN AS SPECIFICATION 01350).

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:

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

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

ARCHITECTURAL APPLICATIONS	CURRENT VOC LI
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOORING ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT AND ASPHALT TILE ADHESIVES	50
DRYWALL AND PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	CURRENT VOC LI
PVC WELDING	510
	400
CPVC WELDING	490
ABD WELDING	325
ABD WELDING	325
ABD WELDING PLASTIC CEMENT WELDING	325 250
ABD WELDING PLASTIC CEMENT WELDING ADHESIVE PRIMER FOR PLASTIC	325 250 550
ABD WELDING PLASTIC CEMENT WELDING ADHESIVE PRIMER FOR PLASTIC CONTACT ADHESIVE	325 250 550 80
ABD WELDING PLASTIC CEMENT WELDING ADHESIVE PRIMER FOR PLASTIC CONTACT ADHESIVE SPECIAL PURPOSE CONTACT ADHESIVE	325 250 550 80 250
ABD WELDING PLASTIC CEMENT WELDING ADHESIVE PRIMER FOR PLASTIC CONTACT ADHESIVE SPECIAL PURPOSE CONTACT ADHESIVE STRUCTURAL WOOD MEMBER ADHESIVE	325 250 550 80 250 140
ABD WELDING PLASTIC CEMENT WELDING ADHESIVE PRIMER FOR PLASTIC CONTACT ADHESIVE SPECIAL PURPOSE CONTACT ADHESIVE STRUCTURAL WOOD MEMBER ADHESIVE TOP AND TRIM ADHESIVES	325 250 550 80 250 140 250
ABD WELDING PLASTIC CEMENT WELDING ADHESIVE PRIMER FOR PLASTIC CONTACT ADHESIVE SPECIAL PURPOSE CONTACT ADHESIVE STRUCTURAL WOOD MEMBER ADHESIVE TOP AND TRIM ADHESIVES SUBSTRATE SPECIFIC APPLICATIONS	325 250 550 80 250 140 250 CURRENT VOC LI
ABD WELDING PLASTIC CEMENT WELDING ADHESIVE PRIMER FOR PLASTIC CONTACT ADHESIVE SPECIAL PURPOSE CONTACT ADHESIVE STRUCTURAL WOOD MEMBER ADHESIVE TOP AND TRIM ADHESIVES SUBSTRATE SPECIFIC APPLICATIONS METAL TO METAL	325 250 550 80 250 140 250 CURRENT VOC LI 30
ABD WELDING PLASTIC CEMENT WELDING ADHESIVE PRIMER FOR PLASTIC CONTACT ADHESIVE SPECIAL PURPOSE CONTACT ADHESIVE STRUCTURAL WOOD MEMBER ADHESIVE TOP AND TRIM ADHESIVES SUBSTRATE SPECIFIC APPLICATIONS METAL TO METAL PLASTIC FOAMS	325 250 550 80 250 140 250 CURRENT VOC LI 30 50
ABD WELDING PLASTIC CEMENT WELDING ADHESIVE PRIMER FOR PLASTIC CONTACT ADHESIVE SPECIAL PURPOSE CONTACT ADHESIVE STRUCTURAL WOOD MEMBER ADHESIVE TOP AND TRIM ADHESIVES SUBSTRATE SPECIFIC APPLICATIONS METAL TO METAL PLASTIC FOAMS POROUS MATERIAL (EXCEPT WOOD)	325 250 550 80 250 140 250 CURRENT VOC LI 30 50 50

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.

TABLE 4.504.1 - SEALANT VOC LIMIT (LESS WATER AND LESS EXEMPT COMPOUNDS IN GRAMS PER 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 COMPOUNE COATING CATEGORY CURRENT VOC LIMIT FLAT COATINGS 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 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 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 CLEAR 730 OPAQUE 550 100 SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS 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

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

INCLUDING EXEMPT COMPOUNDS. 2. 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

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

Ρ	R	0	D	U	C.

BOARD.

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 SCOPE

- THE PROVISIONS OF THIS CHAPTER SHALL OUTLINE MEANS OF REDUCING THE QUANTITY OF AIR CONTAMINANTS THAT ARE ODOROUS, IRRITATING AND/OR HARMFUL TO THE COMFORT AND WELL-BEING OF A BUILDING'S INSTALLERS, OCCUPANTS AND NEIGHBORS.
- 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:

- 1. MOISTURE CONTENT SHALL BE DETERMINED WITH EITHER A PROBE TYPE OR CONTACT-TYPE MOISTURE METER. EQUIVALENT MOISTURE VERIFICATION METHODS MAY BE APPROVED BY THE ENFORCING AGENCY AND SHALL SATISFY REQUIREMENTS FOUND IN SECTION 101.8 OF THIS CODE.
- 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-2011 (RESIDENTIAL LOAD CALCULATION), ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
- 2. DUCT SYSTEMS ARE SIZED ACCORDING TO ANSI/ACCA 1 MANUAL D-2014 (RESIDENTIAL DUCT SYSTEMS), ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
- 3. SELECT HEATING AND COOLING EQUIPMENT ACCORDING TO ANSI/ACCA 3 MANUAL S-2014 (RESIDENTIAL EQUIPMENT SELECTION) OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.

EXCEPTION: USE OF ALTERNATE DESIGN TEMPERATURES NECESSARY TO ENSURE THE 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.

NOTE:

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

703 VERIFICATIONS

703.1 DOCUMENTATION.

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

rrmdesian.com | (805) 3765 SOUTH HIGUERA STREET, SUITE 102 SAN LUIS OBISPO, CA 93401 THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGE REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM L GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHE USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHC

RRM DESIGN GROUP COPYRIGHT 2022 **RRM IS A CALIFORNIA CORPORATION**

CONSULTANT

AGENCY

NO. REVISION DATE		MONO COUNTY ADU PROTOTYPES	MONO COUNTY	CAL GREEN RESIDENTIAL	
$\begin{array}{c c} & & \\ \hline \\ \hline$	RR		ON		DATE
	RR				

22/2022 2:13:19 PM \2200\2340-01-CU2



TECHNICAL BULLETIN

ALL O'HAGIN'S ATTIC VENTILATION PRODUCTS ARE IN FULL COMPLIANCE WITH THE 2019 CBC WILDLAND-URBAN INTERFACE (WUI) CHAPTER 7A

This Technical Bulletin is set forth to advise Architects, Builders, Contractors, and all state/local officials that all O'Hagin's Attic Ventilation Products comply with the 2019 California Building Code, Chapter 7A Materials and Construction Methods for Exterior Wildfire Exposure, Section - 706A Vents when fitted with 1/8-inch wire mesh.

BACKGROUND:

Effective January 1, 2017, all new buildings located in any Fire Hazard Severity (State), Very-High Fire Hazard Severity Zone (Local), or Wildland-Urban Interface Fire Area shall comply with all sections of 2019 CBC, Chapter 7A, which states, in pertinent part, as follows:

"706A2. Requirements. Ventilation openings for enclosed attics, enclosed eave soffit spaces, enclosed rafter spaces formed where ceilings are applied directly to the underside of the roof rafters, and underfloor ventilation openings shall be fully covered with metal wire mesh, vents, other materials or other devices that meet the following requirements:

- 1. Vents shall be listed to ASTM E2886 and comply with all of the following:
- 1.1. There shall be no flaming ignition of the cotton material during the Ember Intrusion Test.
- 1.2. There shall be no flaming ignition during the Integrity Test portion of the Flame
- Intrusion Test. 1.3 The maximum temperature of the unexposed side of the vent shall not exceed
- 662°F (350°C).
 Vents Shall comply with all of the following:
- 2.1. The dimensions of the openings therein shall be a minimum of 1/16-inch (1.6 mm) and shall not exceed 1/8-inch (3.2 mm).
- 2.2. The materials used shall be noncombustible.

Exception: Vents located under the roof covering, along the ridge of roofs, with the exposed surface of the vent covered by noncombustible wire mesh, may be of combustible materials.

(2019 California Building Code, California Code of Regulations, Title 24, Part 2, Volume 1 of 2, Section 706A.2, p.299)

> 210 Classic Court, Suite 100 A Rohnert Park, CA 94928 Phone: 707/872-3620 A Fax: 707/588-9187

Page 1 of 3

With regard to attic ventilation products that utilize wire mesh in either 1/8-inch or 1/16-inch dimensions, the ICC-ES, Acceptance Criteria for Attic Vents, AC132, effective March 1, 2010, states, in pertinent part, as follows:

"3.0 TEST AND PERFORMANCE REOUIREMENTS

3.1 Ventilation openings in the attic shall be protected by mesh, by a vent incorporating an opening cover other than mesh, or by a fibrous-mesh-type vent as defined in Section 1.4.1, 1.4.2 or 1.4.3. The attic vent shall be corrosion-resistant and shall prevent the entry of vermin into the attic.

3.2 Net Free Ventilation Area (NFVA): NFVA shall be determined in accordance with Section 4.1. Openings shall be covered with mesh, except as noted in Sections 3.2.1 and 3.2.2.

3.2.1 2009 IBC and 2009 IRC: For vents incorporating a corrosion-resistant metal mesh with mesh openings having a least dimension of 1/16 inch (1.6 mm) minimum and 1/4 inch (6.4 mm) maximum in one dimension, the ventilation area reported in the evaluation report shall be the NFVA determined in accordance with Section 4.1, reduced by 10 percent to address the effects of clogging.

3.2.2 2006 IBC and 2006 IRC: For vents incorporating a corrosion-resistant metal mesh with mesh openings less than 1/4 inch (6.4 mm) but no less than 1/8 inch (3.2 mm) in one dimension, the ventilation area reported in the evaluation report shall be the NFVA determined in accordance with Section 4.1, reduced by 10 percent to address the effects of clogging."

(Acceptance Criteria For Attic Vents, AC132, effective March 1, 2010, ICC-ES)

COMPLIANCE ISSUES:

Generally, the California Building Code serves as a minimum requirement for best building practices. As such, please contact your local building authority to see what requirements there are for that specific jurisdiction. For example, some may allow O'Hagin's attic vents with 1/8-inch wire mesh. For attic vents using 1/8-inch wire mesh, the NFVA rating of that vent, per AC132, above, is reduced by 10 percent. However, some jurisdictions may have other requirements including the use of O'Hagin's FIRE & ICE® attic ventilation products. In any event, as explained more fully below, O'Hagin's attic ventilation products can help meet the requirements of most jurisdictions.

O'HAGIN'S VENTILATION PRODUCTS ARE IN FULL COMPLIANCE WITH THE 2019 CBC, CHAPTER 7A:

- · All O'Hagin's FIRE & ICE" attic ventilation products were accepted for use by the Office of the State Fire Marshal (OSFM) for plan and construction review projects under OSFM jurisdiction under the OSFM's prior program. (CBC Ch7A Compliance Policy #09-06, Effective 07-05-09).
- Many local jurisdictions have approved for use all O'Hagin's FIRE & ICE[®] attic ventilation products. All O'Hagin's FIRE & ICE[®] attic ventilation products may be protected by corrosion-resistant 23-27
- gauge galvanized or stainless steel non-combustible wire mesh with 1/4-inch (6 mm) openings. · For O'Hagin's FIRE & ICE" attic ventilation products with 1/4-inch wire mesh, the Net Free Ventilation
- Area (NFVA) of those products, as calculated by an independent third-party, are, as follows:

O'Hagin's FIRE & ICE Attic Vents for Clay and Concrete Tile;

All Model Flat (Low-Profile) NFVA: 98.75 sq. in. per vent All Model "M" (Medium-Profile) NFVA: 86.25 sq. in, per vent All Model "S" (High-Profile) NFVA: 97.50 sq. in. per vent

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All Model Flat (Low-Profile) with 1/8-inch mesh NFVA: 88.875 sq. in. per vent All Model "M" (Medium-Profile) with 1/8-inch mesh NFVA: 77.625 sq. in. per vent

- structure.

TESTING STANDARDS INFORMATION:

Currently, there is no test for resistance of ember and flame intrusion for ridge, or off-ridge, attic vents that is recognized by the American Society for Testing and Materials (ASTM) or the California Department of Forestry and Fire Protection (Cal Fire). However, there is a proposed test standard for such vents currently under consideration, at the sub-committee level, with ASTM.

IMPLEMENTATION:

Check: http://www.fire.ca.gov/fire prevention/fire prevention wildland zones.php or, call O'Hagin's Architectural Services Team at (877) 324-0444 to determine whether, or not, your specific project is within an effected zone or region.

OTHER FACTORS:

There remain many factors in addition to the specification of O'Hagin's attic ventilation products that should be considered when designing to minimize risk due to wildfire danger, including, but not limited to, the following: the use of appropriate construction materials for exterior walls, non-combustible valley flashings/gutters/downspouts, tempered windows (window walls and skylights), debris-resistant gutters, Class A roof coverings, non-combustible exterior doors, no under-eave or soffit venting, fire-resistant landscaping and appropriate vegetation setbacks. Always check local ordinance and building practice.

Effective: January 1, 2011 Rev. October, 2017 Rev. January 1, 2020

O'Hagin's FIRE & ICE® Tapered Low-Profile Vents for Slate. Shake and Composition Roofs:

Tapered Low-Profile 72" NFVA: 72 sq. in. per vent

· All O'Hagin's FIRE & ICE® attic ventilation products are available with corrosion-resistant, noncombustible 1/8-inch (3.2 mm) mesh upon request.

· For those O'Hagin's attic ventilation products that use 1/8-inch wire mesh, the Net Free Ventilation Area (NFVA) of those products, as calculated by an independent third-party, is reduced by 10 percent. As such, the NFVA of those products is, as follows:

O'Hagin's Attic Vents for Clay and Concrete Tile:

All Model "S" (High-Profile) with 1/8-inch mesh NFVA: 87.75 sq. in. per vent

O'Hagin Mfg,'s Tapered Low-Profile Vents for Slate Shake and Composition Roofs:

Tapered Low-Profile 72" with 1/8-inch mesh NFVA: 64.80 sq. in. per vent

 All O'Hagin's FIRE & ICE[®] and O'Hagin's standard attic ventilation products carry a Class 'A' fire rating in accordance with the test standard ANSI/UL 790, "Tests for Fire Resistance of Roof covering Materials," (ASTM E-108 and NFPA 256).

 All O'Hagin's FIRE & ICE[®] and O'Hagin's standard attic vents for clay and concrete tile feature our patented two-piece design that utilizes two or more separate sections of the non-combustible wire mesh (or, flame and ember-resistant material in O'Hagin's FIRE & ICE® attic ventilation products), which provides additional resistance regarding the intrusion of flame and embers into the attic area of the

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> > Page 3 of 3

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1794 TE 10 340 RANGEMEI RRM DESIG OTHERS' O THERS' O THES' O THES' CEPTANCE ENCY REVIJ J'S' RICH
TE

RR

DATE

SHEET

DRAWN BY

6/30/2022

PROJECT NUMBER

2340-01-CU21

G-203

CHECKED BY

ATER HEATING SYSTEM	S		
01	02	03	04
Name	System Type	Distribution Type	Water Heater Name (#)

Domestic Hot Water

(DHW)

02

Surface Type

Attic Roofs

Floors Over

Crawlspace

Ceilings (below

attic)

03

Construction Type

Wood Framed

Ceiling

Wood Framed Floor

Wood Framed

Ceiling

Standard Distribution

System

Registration Number: 222-P010154880A-000-000-0000000-0000

CA Building Energy Efficiency Standards - 2019 Residential Compliance

Report Version: 2019.2.000 Schema Version: rev 20200901

05

Total Cavity

R-value

R-0

R-19

R-38

Building Envelope Air Leakage

Not Required

04

Framing

2x4 @ 24 in. O. C.

2x10 @ 16 in. O. C.

2x4 @ 24 in. O. C.

High R-value Spray Foam Insulation

Not Required

DHW Heater 1 (1)

Registration Date/Time: 2022-08-05 09:51:16

Calculation Date/Time: 2022-08-04T10:00:05-07:00

Input File Name: Mono County ADU (Plan 5)(raised foundation).ribd19x

07

U-factor

0.644

0.046

0.025

06

Interior / Exterior

Continuous R-value

None / None

None / None

None / None

05

Solar Heating System

n/a

HERS Provider: CalCERTS inc. Report Generated: 2022-08-04 10:00:26

08

Assembly Layers

Roofing: Light Roof (Asphalt Shingle)

Roof Deck: Wood

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

Floor Surface: Carpeted

Floor Deck: Wood

Siding/sheathing/decking Cavity / Frame: R-19 / 2x10 Over Ceiling Joists: R-28.9 insul.

Cavity / Frame: R-9.1 / 2x4

04

CFM50

n/a

07

n/a

HERS Verification

06

None

Compact Distribution

Inside Finish: Gypsum Board

CF1R-PRF-01E

(Page 7 of 10)

IAQ Ventilation System: supply outside air inlet, filter, and H/ERV cores accessible per RACM Reference Manual 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 the buildng tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry Building-level Verifications: Indoor air quality ventilation Kitchen range hood ooling System Verifications: Verified Refrigerant Charge Airflow in habitable rooms (SC3.1.4.1.7) ating System Verifications: 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) HVAC Distribution System Verifications: Domestic Hot Water System Verifications:

CERTIFICATE OF COMPLIANCE

Registration Number:

CERTIFICATE OF COMPLIANCE

Project Name: Mono County ADU (Plan 5)

Calculation Description: Title 24 Analysis

Project Name: Mono County ADU (Plan 5)

Calculation Description: Title 24 Analysis

02

Exception

NA

IAQ Ventilation System: as low as 0.46 W/CFM

IAQ Ventilation System Heat Recovery: minimum 80 SRE and 80 ASRE

REQUIRED PV SYSTEMS - SIMPLIFIED

01

DC System Size

(kWdc)

2.11

tali is provided

-- None --

-- None --

CERTIFICATE OF COMPLIANCE

Project Name: Mono County ADU (Plan 5)

Calculation Description: Title 24 Analysis

OPAQUE SURFACE CONSTRUCTIONS

01

Construction Name

Attic RoofLiving Area

R-19 Floor Crawlspace

R-38 Roof Attic

DHW Sys 1

w

BUILDING ENVELOPE - HERS VERIFICATION

01 Quality Insulation Installation (QII)

Not Required

REQUIRED SPECIAL FEATURES

Indoor air quality, balanced fan

CF1R-PRF-01E Calculation Date/Time: 2022-08-04T10:00:05-07:00 (Page 4 of 10) Input File Name: Mono County ADU (Plan 5)(raised foundation).ribd19x

HERS Provider:

Report Generated: 2022-08-04 10:00:26

11

(%)

96

10

12)

Tilt Array Angle Tilt: (x in Inverter Eff.

222-P010154880A-000-000-0000000-0000

03

Module Type

Standard

04

Array Type

Fixed

The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.

CA Building Energy Efficiency Standards - 2019 Residential Compliance

GENER	AL INFORMATION				
01	Project Name	Mono County ADU (Plan 5)			
02	Run Title	Title 24 Analysis			
03	Project Location	-			
04	City	Mono County	05	Standards Version	2019
06	Zip code		07	Software Version	EnergyPro 8.3
08	Climate Zone	16	09	Front Orientation (deg/ Cardinal)	AllOrientations
10	Building Type	Single family	11	Number of Dwelling Units	1
12	Project Scope	NewConstruction	13	Number of Bedrooms	2
14	Addition Cond. Floor Area (f <mark>t²)</mark>	0	15	Number of Stories	1
16	Existing Cond. Floor Area <mark>(ft²)</mark>	n/a	17	Fenestration Average U-factor	0.3
18	Total Con <mark>d. Floor</mark> Area (ft ²)	1033	19	Glazing Percentage (%)	11.71%
20	ADU Bedroom Count	n/a	21	ADU Conditioned Floor Area	n/a
22	Is Natural Gas Available?	No	K	IN INC	
				<i>S, .</i>	
COMPL	LIANCE RESULTS	HERS P	R		
	01 Building Complies with Computer	Performance			
	02 This building incorporates feature	s that require field testing and/or verification	by a ce	rtified 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:

05

Power Electronics

none

Report Version: 2019.2.000

Schema Version: rev 20200901

2022-08-05 09:51:16

07

Azimuth

08

(deg) Input (deg)

true 150-270 n/a n/a <=7:12

Calculation Date/Time: 2022-08-04T10:00:05-07:00

Input File Name: Mono County ADU (Plan 5)(raised foundation).ribd19x

Registration Number: 222-P010154880A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2019 Residential Compliance



CalCERTS inc.

12

Annual

Solar Access

(%)

98

CERTIFICATE OF COMPLIANCE Project Name: Mono County ADU (Plan 5)

Calculation Description: Title 24 Analysis

Calculation Date/Time: 2022-08-04T10:00:05-07:00 Input File Name: Mono County ADU (Plan 5)(raised foundation).ribd19x

	Energy De	sign Ratings		
	Efficiency ¹ (EDR)	Total ² (EDR)	Efficiency ¹ (EDR)	Total ² (EDR)
Standard Design	64.8	42.3		
Proposed Designs		•		
North Facing	59.1	36.5	5.7	5.8
East Facing	59	36.4	5.8	5.9
South Facing	59	36.4	5.8	5.9
West Facing	58.9	36.3	5.9	6
	RESULT: ³	COMPLIES		
ency EDR includes improvements to the building en EDR includes efficiency and demand response me ling complies when efficiency and total compliance	asures such as photovoltaic (PV) systems		nc.	

Registration Number: 222-P010154880A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2019 Residential Compliance Registration Date/Time: 2022-08-05 09:51:16 Report Version: 2019.2.000 Schema Version: rev 20200901

HERS Provider: CalCERTS inc. Report Generated: 2022-08-04 10:00:26

CERTIFICATE OF COMPLIANCE

Project Name: Mono County ADU (Plan 5) Calculation Description: Title 24 Analysis

CF1R-PRF-01E Calculation Date/Time: 2022-08-04T10:00:05-07:00 (Page 5 of 10) Input File Name: Mono County ADU (Plan 5)(raised foundation).ribd19x

01		02		03			04		05		06	07
Project Name		Conditioned Flo	or Area (ft ²)	Number of Dv Units	velling	Number o	of Bedrooms	Nu	umber of Zones		mber of Ventilation Cooling Systems	Number of Water Heating Systems
Mono County ADU (F	lan 5)	1033	}	1			2		1		0	1
ONE INFORMATION												
01		02		03		04			05		06	07
Zone Name	Zone Name Zone Type		HVA	AC System Name	Zo	ne Floor A	rea (ft ²)	Avg.	Ceiling Height	Wate	er Heating System 1	Water Heating System 2
Living Area		Conditioned	ŀ	HVAC System1		1033			8		DHW Sys 1	N/A
PAQUE SURFACES												
01		02		03	0)4	05		06		07	08
Name		Zone	Cons	onstruction Azin		nuth	th Orientation		Gross Area (ft ²)		Window and Door Area (ft2)	Tilt (deg)
Front Wall	1	iving Area	R-2	21 Wall		0	Front	<i>,</i>	224	•	52	90
Left Wall	l i	iving Area	R-2	1 Wall	R S 9	90 P	R Left	VI	304		25	90
Rear Wall	1	iving Area	R-2	21 Wall	18	80	Back		224		30	90
Right Wall	l I	iving Area	R-2	21 Wall	2	70	Right		304		34	90
Roof	l ı	iving Area	R-38 F	Roof Attic	n	/a	n/a		1033		n/a	n/a
Raised Floor	l	iving Area	R-19 Floo	r Crawlspace	n	/a	n/a		1033		n/a	n/a
лтіс												
01		02		03	0)4	05		06		07	08
Name	C	onstruction	1	Гуре	Roof Rise	e (x in 12)	Roof Reflec	tance	Roof Emittance	e	Radiant Barrier	Cool Roof
Attic Living Area	Attic	RoofLiving Area	Vor	ntilated		8	0.1		0.85		No	No

Registration Number: 222-P010154880A-000-000-0000000-0000 Registration Date/Time: 2022-08-05 09:51:16 HERS Provider: CalCERTS inc. CA Building Energy Efficiency Standards - 2019 Residential Compliance Report Version: 2019.2.000 Report Generated: 2022-08-04 10:00:26 Schema Version: rev 20200901

CERTIFICATE OF COMPLIANCE

Calculation Date/Time: 2022-08-04T10:00:05-07:00 Project Name: Mono County ADU (Plan 5) Calculation Description: Title 24 Analysis Input File Name: Mono County ADU (Plan 5)(raised foundation).ribd19x WATER HEATERS 01 02 03 04 05 06 09 11 Tank Heating

Name	Heating Element Type	Та	ank Ty	уре	# of Units	Tank Vol. (gal)	Energy Factor or Efficiency		Pilot	nsulation R-value (Int/Ext)	Standby Loss or Recovery Eff	1st Hr. R or Flow	~	NEEA Heat Brand or N			Location or ent Condition
DHW Heater 1	Heat Pump		n/a		1	50	NEEA Rated	<= 1	2 kW	n/a	n/a	n/a	1	Rheem\XE50 2U0 (50		Co	onditioned
WATER HEATING - HER		DN															
01	02	2		C)3		04			05	0	6		07			08
Name	Pipe Ins	ulation		Paralle	el Piping	g	Compact Distrib	oution		Distribution ype	Recirculati	on Contro		Central DHV Distribution			r Drain Water t Recovery
DHW Sys 1 - 1/1	Not Re	quired		Not Re	equired		Not Require	ed	N	lone	Not Re	quired		Not Require	d	Not	Required
SPACE CONDITIONING	SYSTEMS		02			02		Ę.	RI	06	07	С,	08	09	1	0	11
Name		Syste		pe		03 Iting Ui Name	nit Cooling Ur Name	nit F	05 an Name	Distributi Name	on Requi	ostat S	tatus	Verified Existing Condition	Hea Equip	ting ment unt	Cooling Equipment Count
HVAC System1	Hea	it pump h	heatir	ng cooling		at Pum /stem 1	·	·	n/a	n/a	Setba	ick I	New	NA		L	1
01	02			03		04	05		06	07	08		09	10	D		11
HVAC - HEAT PUMPS																	
Name	System T	vpe	Num	ber of Uni	ts 📙		Heating			Co	oling		onally	Comp		HERS	Verification
	-,	··· - ·			П не		D Can 47		an 17	SEED	FER/CEER	Cor	ntrolled	I Typ	be		

HSPF/COP Cap 47 Cap 17

12000

8.2

1

Registration Number: 222-P010154880A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2019 Residential Compliance

VCHP-ductless

Heat Pump System 1

Registration Date/Time: 2022-08-05 09:51:16 Report Version: 2019.2.000 Schema Version: rev 20200901

8000

SEER EER/CEER

11.7

14

HERS Provider: CalCERTS inc. Report Generated: 2022-08-04 10:00:26

Heat Pump System

1-hers-htpump

Controlled

Not Zonal

Туре

Single

Speed

CF1R-PRF-01E

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12

CERTIFICATE OF COMPLIANCE Project Name: Mono County ADU (Plan 5)

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Energy Use (kTDV/ft²-yr)Standard DesignSpace Heating72.86Space Cooling7.46IAQ Ventilation8.27Water Heating22.47Self Utilization Creditn/aNorth Facing Compliance Total111.06Space Cooling7.46Space Cooling7.46IAQ Ventilation8.27Water Heating72.86Space Cooling7.46IAQ Ventilation8.27Water Heating22.47Self Utilization Creditn/aEast Facing Compliance Total111.06Space Heating72.86Space Cooling7.46IAQ Ventilation8.27Water Heating72.86Space Cooling7.46IAQ Ventilation8.27Water Heating22.47Self Utilization Creditn/aSpace Cooling7.46IAQ Ventilation8.27Water Heating72.86Space Cooling7.46IAQ Ventilation8.27Water Heating72.86Space Cooling7.46IAQ Ventilation8.27Water Heating22.47Self Utilization Creditn/aIAQ Ventilation8.27Water Heating22.47Self Utilization Creditn/aWater Heating22.47Self Utilization Creditn/aWater Heating22.47Self Utilization Creditn/aWater Heating22.47Self Utilization Credit <t< th=""><th>62 4. 5. 19 91 62 4. 5. 19 91 61 61 4. 5. 19 91 61 61 4. 5. 19</th><th>91.34 :one Total Co 23 :</th><th>Compliance 10. 3.1 2.2 3.1 0 19. 10. 3.1 0 19. 10. 3.1 0 19. 10. 3.1 0 19. 10. 3.1 0 19. 10. 3.1 0 19. 10. 3.1 0 19. 11. 3.2 2.2 3.1 0 19. 11.1. 3.2 2.20 2.3.1 0 11.1. 3.2 2.20 2.3.1 3.20</th><th></th><th>Improvement 14.4 42 27.7 14.1 n/a 17.2 14.3 45.6 27.7 14 n/a 17.4 14.9 41.8 27.7 14.1 n/a 17.4</th><th></th></t<>	62 4. 5. 19 91 62 4. 5. 19 91 61 61 4. 5. 19 91 61 61 4. 5. 19	91.34 :one Total Co 23 :	Compliance 10. 3.1 2.2 3.1 0 19. 10. 3.1 0 19. 10. 3.1 0 19. 10. 3.1 0 19. 10. 3.1 0 19. 10. 3.1 0 19. 10. 3.1 0 19. 11. 3.2 2.2 3.1 0 19. 11.1. 3.2 2.20 2.3.1 0 11.1. 3.2 2.20 2.3.1 3.20		Improvement 14.4 42 27.7 14.1 n/a 17.2 14.3 45.6 27.7 14 n/a 17.4 14.9 41.8 27.7 14.1 n/a 17.4	
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B Window Front Wall Front	0 (ft)	Height (ft)	Setback	IGC Set Status .23	HGC ourc e IFRC Bug Screen	
B Window Front Wall Front B2 Window Front Wall Front	0 (ft) 0	Height (ft)	Setback Duct R-Value 6.0	Altered IGC Second	HGC ourc e IFRC Bug Screen IFRC Bug Screen	Ω
B Window Front Wall Front	0 (ft)	Height (ft)	Setback Duct R-Value 6.0	Allered IGC Second Status	HGC ourc e IFRC Bug Screen IFRC Bug Screen IFRC Bug Screen	Ω
BWindowFront WallFrontB 2WindowFront WallFrontB.1WindowLeft WallLeft	Azimuth (ft) 0 0 0 90	Height (ft)	Setback Duct R-Value 6.0	Altered IGC Second Status Altered 23 N Status 23 N .23 N .23 N .23 N .23 N	HGC ourc e IFRC Bug Screen IFRC Bug Screen IFRC Bug Screen	Ω
BWindowFront WallFrontB 2WindowFront WallFrontB.1WindowLeft WallLeftB 3WindowLeft WallLeft	Azimuth (ft) 0 0 0 0 90 0 90 180	Height (ft)	Setback Duct R-Value 6.0	IGC Set Allered .23 N .23 N .23 N	HGC ourc e IFRC Bug Screen IFRC Bug Screen IFRC Bug Screen IFRC Bug Screen	Ω
BWindowFront WallFrontB2WindowFront WallFrontB1WindowLeft WallLeftB3WindowLeft WallLeftB.3WindowRear WallBackA.1WindowRear WallBackA.12WindowRear WallBack	Azimuth (ft) 0 0 0 0 90 0 90 0 180 180 180 0	Height (ft) Stribution	Setback Duct R-Value 6.0	IGC Second status Allered .23 N .23 N .23 N	HGC ourc e IFRC Bug Screen IFRC Bug Screen IFRC Bug Screen IFRC Bug Screen IFRC Bug Screen IFRC Bug Screen IFRC Bug Screen	Plan 5
BWindowFront WallFrontB 2WindowFront WallFrontB 1WindowLeft WallLeftB 3WindowLeft WallLeftB.3WindowRear WallBackA.1WindowRear WallBackA.12WindowRear WallBackB.32WindowRear WallBack	Azimuth (ft) 0 0 0 0 90 0 90 0 180 0 180 0 270 0	Height (ft)	Setback Duct R-Value 6.0 n 10. 22-020416 18 0.3	IGC Set Allered .23 N	HGC ourc e IFRC Bug Screen IFRC Bug Screen	Plan 5
BWindowFront WallFrontB2WindowFront WallFrontB1WindowLeft WallLeftB3WindowLeft WallLeftB.3WindowRear WallBackA.1WindowRear WallBackA.12WindowRear WallBack	Azimuth (ft) 0 0 0 0 90 0 90 0 180 0 180 0 270 0	Height (ft)	Setback Duct R-Value 6.0	IGC Set Allered .23 N	HGC ourc e IFRC Bug Screen IFRC Bug Screen IFRC Bug Screen IFRC Bug Screen IFRC Bug Screen IFRC Bug Screen IFRC Bug Screen	Plan 5
BWindowFront WallFrontB 2WindowFront WallFrontB 1WindowLeft WallLeftB 3WindowLeft WallLeftB.3WindowRear WallBackA.1WindowRear WallBackA.12WindowRear WallBackB.32WindowRear WallBackB.34WindowRight WallRight	Azimuth (ft) 0 0 0 0 90 0 90 0 180 0 180 0 270 0	Height (ft)	Setback Duct R-Value 6.0 n 10. 22-020416 18 0.3	IGC Set Allered .23 N	HGC ourc e IFRC Bug Screen IFRC Bug Screen	Plan 5
BWindowFront WallFrontB 2WindowFront WallFrontB 1WindowLeft WallLeftB 3WindowLeft WallLeftB.3WindowRear WallBackA.1WindowRear WallBackA.12WindowRear WallBackB.32WindowRear WallBackB.34WindowRight WallRight	Azimuth (ft) 0 0 0 0 90 0 90 0 180 0 180 0 270 0	Height (ft) 14.0 SEER Height (ft) ocation	Setback Duct R-Value 6.0 In ID: 22-020416 18 0.3 16 0.3	IGC Set Allered .23 N	HGC ourc e IFRC Bug Screen IFRC Bug Screen	Plan 5
B Window Front Wall Front B 2 Window Front Wall Front B 1 Window Left Wall Left B 3 Window Left Wall Left B 3 Window Rear Wall Back A.1 Window Rear Wall Back A.1.2 Window Rear Wall Back B 32 Window Rear Wall Back A.1.2 Window Rear Wall Back B 4 Window Right Wall Right	Azimuth (ft) 0 0 0 0 90 0 90 0 180 0 180 0 270 0	Height (ft) 14.0 SEER Height (ft) ocation	Setback Duct R-Value 6.0 In ID: 22-020416 18 0.3 16 0.3	IGC Sa Allered .23 N .23 N .23 N .23 .23 .23 .23 .24 .23 .23 .23 .25 .26 .23 .23 <tr< td=""><td>HGC ourc e IFRC Bug Screen IFRC Bug Screen</td><td>y Plan 5</td></tr<>	HGC ourc e IFRC Bug Screen IFRC Bug Screen	y Plan 5
B Window Front Wall Front B 2 Window Front Wall Front B 1 Window Left Wall Left B 3 Window Left Wall Left B 3 Window Rear Wall Back A.1 Window Rear Wall Back A.12 Window Rear Wall Back B.32 Window Rear Wall Back B.32 Window Right Wall Right B 4 Window Right Wall Right	Azimuth (ft) 0 0 0 0 90 0 90 0 180 0 180 0 270 0	Height (ft) 14.0 SEER Height (ft) ocation	Setback Duct R-Value 6.0 In ID: 22-020416 18 0.3 16 0.3	IGC Set Allered .23 N .23 N .23 N .23 .23 .23 .23 .23 .23 .23 .23 .23 .23 .23 .23 <t< td=""><td>HGC ourc e IFRC Bug Screen IFRC Bug Screen</td><td>County Plan 5</td></t<>	HGC ourc e IFRC Bug Screen IFRC Bug Screen	County Plan 5
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VARIABLE CAPACITY HEAT I	PUMP COMPLIANCE OPTI	ON - HERS VERIFI	CATION										
01	02	03	04		05		06	07	08	0	9	10	
Name	Certified Low-Static VCHP System	Airflow to Habitable Rooms	Ductless Ui in Condition Space		Wall Mount Thermostat	&an	Filter Sizing np; Pressure rop Rating	Low Leakage Ducts in Conditioned Space	Minimum Airflow per RA3.3 and SC3.3.3.4.1	non-cor	ified ntinuous an	Indoor Fan not Running Continuously	
Heat Pump System 1	Heat Pump System 1 Not required		Required Required		Required		Not required Not require		Not required	Not required		Not required	
IAQ (INDOOR AIR QUALITY) FANS	. (510		ED-			nc					
01	02	03			04) ,	05	06			07	
Dwelling Unit	IAQ CFM	IAQ Watts/CFM		S	IAQ Fan Type	0		ecovery eness - SRE	IAQ Recovery Effectiveness - ASRE		Verification		
SFam IAQVentRpt 1-1	50	0.4	6		Balanced			80	80			Yes	

CERTIFICATE OF COMPLIANCE	CF1R-PRF-01E
Project Name: Mono County ADU (Plan 5)	Calculation Date/Time: 2022-08-04T10:00:05-07:00 (Page 10 of 10)
Calculation Description: Title 24 Analysis	Input File Name: Mono County ADU (Plan 5)(raised foundation).ribd19x
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.	2022-08-05 09:28:45
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	
	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,
Responsible Designer Name: Randy Russom	Responsible Designer Signature: RAM
RRM Design Group	Date Signed: 2022-08-05 09:51:16
Address: 3765 S. Higuera Street, Suite 102	License: C24410
^{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.

Registration Number: 222-P010154880A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2019 Residential Compliance Registration Date/Time: 2022-08-05 09:51:16 Report Version: 2019.2.000 Schema Version: rev 20200901

CalCERTS inc. Report Generated: 2022-08-04 10:00:26

HERS Provider:

	2019 Low-Rise Residential Mandatory Measures Summary
§ 150.0(h)3A:	Clearances. Air conditioner and heat pump outdoor condensing units must have a clearance of at least five feet from the outlet of any dryer
§ 150.0(h)3B:	Liquid Line Drier. Air conditioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the manufacturer's instructions.
§ 150.0(j)1:	Storage Tank Insulation. Unfired hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have a minimum of R-12 external insulation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank.
§ 150.0(j)2A:	Water Piping, Solar Water-heating System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must be insulated as specified in Section 609.11 of the California Plumbing Code. In addition, the following piping conditions must have a minimum insulation wall thickness of one inch or a minimum insulation R-value of 7.7: the first five feet of cold water pipes from the storage tank; all hot water piping with a nominal diameter equal to or greater than 3/4 inch and less than one inch; all hot water piping with a nominal diameter less than 3/4 inch that is: associated with a domestic hot water reinculation system, from the heating source to storage tank or between tanks, buried below grade, and from the heating source to kitchen fixtures.*
§ 150.0(j)3:	Insulation Protection. Piping insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind as required by Section 120.3(b). Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes). Insulation covering childed 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 include all of the following: A dedicated 125 volt, 20 amp electrical receptacle connected to the electric panel with a 120/240 volt 3 conductor, 10 AWG copper branch circuit, within three feet of the water heater without obstruction. Both ends of the unused conductor must be labeled with the word "spare" and be electrically isolated. Have a reserved single pole circuit breaker space in the electrical panel adjacent to the circuit breaker for the branch circuit, and labeled with the words "Future 240V Use", a Category III or IV vent, or a Type B vent with straight pipe between the outside termination and the space where the water heater is installed; a condensate drain that is no more than two inches higher than the base of the water heater, and allows natural draining without pump assistance; and a gas supply line with a capacity of at least 200,000 Btu per hour.
§ 150.0(n)2:	Recirculating Loops. Recirculating loops serving multiple dwelling units must meet the requirements of § 110.3(c)5.
§ 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	Measures:
§ 110.8(d)3:	Ducts. Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC). If a contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement.
§ 150.0(m)1:	CMC Compliance. All air-distribution system ducts and plenums must meet the requirements of the CMC §§ 601.0, 602.0, 603.0, 604.0, 605.0 and ANSJ/SMACNA-006-2006 HVAC Duct Construction Standards Metal and Flexible Ard Edition. Portions of supply-air and return-air ducts and plenums must be insulated to a minimum installed level of R-6.0 or a minimum installed level of R-4.2 when ducts are entirely in conditioned space as confirmed through field verification and diagnostic testing (RA3.14.3.8). Portions of the duct system completely exposed and surrounded by directly conditioned space are not required to be insulated. 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 requirements of UL 181, UL 181A, or UL 181B or aerosol sealant that meets the requirements of UL 723. If mastic or tape is used to seal openings greater than 'X inch, the combination of mastic and either mesh or tape must be used. Building cavities, support platforms for air handlers, and plenums designed or constructed with materials other than sealed sheet metal, duct board or flexible duct must not be used to convey conditioned air. Building cavities and support platforms may contain ducts. Ducts installed in cavities and support platforms must not be compressed to cause reductions in the cross-sectional area.
§ 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.
§ 150.0(m)8:	Gravity Ventilation Dampers. Gravity ventilating systems serving conditioned space must have either automatic or readily accessible, manually operated dampers in all openings to the outside, except combustion inlet and outlet air openings and elevator shaft vents.
§ 150.0(m)9:	Protection of Insulation. Insulation must be protected from damage, sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather must be suitable for outdoor service. For example, protected by aluminum, sheet metal, painted canvas, or plastic cover. Cellular foam insulation must be protected as above or painted with a coating that is water retardant and provides shielding from solar radiation.
§ 150.0(m)10:	Porcus Inner Core Flex Duct. Porcus inner core flex ducts must have a non-porcus layer 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 § 150.0(m)11 and Reference Residential Appendix RA3.
§ 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. Pressure drops and labeling must meet the requirements in §150.0(m)12. Filters must be accessible for regular service.*
§ 150.0(m)13:	Space Conditioning System Airflow Rate and Fan Efficacy. Space conditioning systems that use ducts to supply cooling must have a hole for the placement of a static pressure probe, or a permanently installed static pressure probe in the supply plenum. Airflow must be ≥ 350 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.45 watts per CFM for gas furnace air handlers and ≤ 0.58 watts per CFM for all others. Small duct high velocity systems must provide an airflow ≥ 250 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.62 watts per CFM. Field verification testing is required in accordance with Reference Residential Appendix RA3.3.*

Project Name Mono County AD System Name	U (Plan 5)							Date	8/4/20	22
HVAC System								Floor	Area	2
ROOM LOAD SUN									1,03	3
TICOW LOAD SON			DOO			001		DEAK		
7 11							COOLING			TG. PEA
Zone Name Living Area	Room Name 1st Floor ADU	Mult.	CFM 415	Sensible 7,069	Latent -105	415	Sensible 7,069	Latent -105	CFM 528	Sensibl 16,63
living Area	TSt Floor ADU	1	415	7,069	-105	415	7,069	-105	528	70,0
			-							
				PAGE TOT	AL	415	7,069	-105	528	16,6

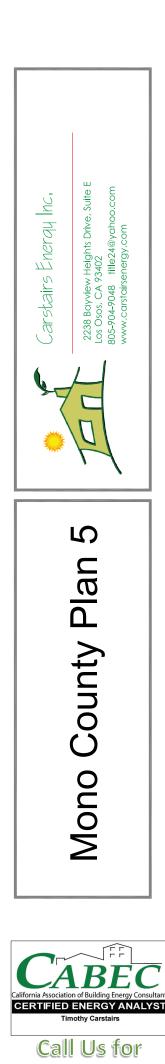
Project Na	DENTIAL N	IEAS	URES S	SUMM	ARY					RMS-
Nono C	^{ame} County ADU (P	lan 5)		Build	ling Type	☑ Single I □ Multi Fa		Addition Alone Existing+ Addition	on/Alteration	Date 8/4/202
Project Ad						rgy Climate Z		l Cond. Floor Area	Addition	# of Unit
	o County			C.	A Clima	ate Zone 1	6	1,033	n/a	1
	ATION	е		Cav	ity	Area (ft ²)	Spec	ial Features		Status
Vall	Wood Framed			R 21		915				New
Door	Opaque Door			R-5		20				New
Roof	Wood Framed Att	lic		R 38		1,033				New
Slab	Unheated Slab-or	n-Grade		- no ins	sulation	1,033 P	erim = 106'			New
	STRATION	0	Total Area:	121	Glazing	Percentage:	11.7 %			0.30
Orient	tation Area	(<i>ft</i> ²) ।	U-Fac	SHGC	Overh	nang Si	defins	Exterior Sh	nades	Status
Front (N)		32.0	0.300	0.23	none	nor	ne	N/A		New
.eft (E)	2	25.0	0.300	0.23	none	nor	ne	N/A		New
Rear (S)	3	30.0	0.300	0.23	none	nor	ne	N/A		New
Right (W)	3	34.0	0.300	0.23	none	nor	ne	N/A		New
	SYSTEMS Heating		Min Ff	ff Co	oling		Min Ff	f The	ermostat	Status
Qty.	SYSTEMS Heating Split Heat Pump		Min. E1		oling t Heat Pu		Min. Ef		ermostat	Status New
Qty.	Heating Split Heat Pump							R Setbac	k	
Qty.	Heating Split Heat Pump DISTRIBUTI	Heat	8.20 HSP.	F Spli		тр		R Setbac		
Qty. 1 HVAC Locati	Heating Split Heat Pump DISTRIBUTI	Heat	8.20 HSP	F Spli	t Heat Pui	тр	14.0 SEEF	R Setbac	k Duct	New
Qty. 1 HVAC Locati HVAC Sys WATE	Heating Split Heat Pump DISTRIBUTI ion stem	Heat	8.20 HSPA	F Spli	t Heat Pui	mp Duct L n/a	14.0 SEEF	R Setbac	k Duct R-Value	New Status
Qty. 1 HVAC Locati HVAC Sys WATE	Heating Split Heat Pump DISTRIBUTI ion stem R HEATING	Heat	8.20 HSPA	F Spli	t Heat Pui oling less	mp Duct L n/a	ocatio	R Setbac	k Duct R-Value	New Statu New
Qty. 1 HVAC Locati IVAC System	Heating Split Heat Pump DISTRIBUTI ion stem	Heat	8.20 HSPA	F Spli	t Heat Pui oling less	mp Duct L n/a Eff Dis	ocatio	R Setbac	k Duct R-Value	New Status New

Requirements for	or Ventilation and Indoor Air Quality:
§ 150.0(o)1:	Requirements for Ventilation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(o)1.
§ 150.0(o)1C:	Single Family Detached Dwelling Units. 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 provided at rates determined by ASHRAE 62.2 Sections 4.1.1 and 4.1.2 and as specified in § 150.0(o)1C.
§ 150.0(o)1E:	Multifamily Attached Dwelling Units. Multifamily attached dwelling units must have mechanical ventilation airflow provided at rates in accordance with Equation 150.0-B and must be either a balanced system or continuous supply or continuous exhaust system. If a balanced system is not used, all units in the building must use the same system type and the dwelling-unit envelope leakage must be < 0.3 CFM at 50 I (0.2 inch water) per square foot of dwelling unit envelope surface area and verified in accordance with Reference Residential Appendix RA3.8
§ 150.0(o)1F:	Multifamily Building Central Ventilation Systems. Central ventilation systems that serve multiple dwelling units must be balanced to provid ventilation airflow for each dwelling unit served at a rate equal to or greater than the rate specified by Equation 150.0-B. All unit airflows must within 20 percent of the unit with the lowest airflow rate as it relates to the individual unit's minimum required airflow rate needed for compliance
§ 150.0(o)1G:	Kitchen Range Hoods. Kitchen range hoods must be rated for sound in accordance with Section 7.2 of ASHRAE 62.2.
§ 150.0(o)2:	Field Verification and Diagnostic Testing. Dwelling unit ventilation airflow must be verified in accordance with Reference Residential Appendix RA3.7. A kitchen range hood must be verified in accordance with Reference Residential Appendix RA3.7.4.3 to confirm it is rated by HVI to comply with the airflow rates and sound requirements as specified in Section 5 and 7.2 of ASHRAE 62.2.
Pool and Spa S	ystems and Equipment Measures:
§ 110.4(a):	Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following: a thermal efficienc that complies with the Appliance Efficiency Regulations; an on-off switch mounted outside of the heater that allows shutting off the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric resistance heating.
§ 110.4(b)1:	Piping. Any pool or spa heating system or equipment must be installed with at least 36 inches of pipe between the filter and the heater, or dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating.
§ 110.4(b)2:	Covers. Outdoor pools or spas that have a heat pump or gas heater must have a cover.
§ 110.4(b)3:	Directional Inlets and Time Switches for Pools. Pools must have directional inlets that adequately mix the pool water, and a time switch the 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, fil rate, piping, filters, and valves."
Lighting Measu	
§ 110.9:	Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable requiremen of § 110.9.*
§ 150.0(k)1A:	Luminaire Efficacy. All installed luminaires must meet the requirements in Table 150.0-A.
§ 150.0(k)1B:	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 must be no greater than the number of bedrooms. These electrical boxes must be served by a dimmer, vacancy sensor control, of fan speed control.
§ 150.0(k)1C:	Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must meet all of the requirements for: insulation contact (IC labeling; air leakage; sealing; maintenance; and socket and light source as described in § 150.0(k)1C.
§ 150.0(k)1D:	Electronic Ballasts for Fluorescent Lamps. Ballasts for fluorescent lamps rated 13 watts or greater must be electronic and must have an output frequency no less than 20 kHz.
§ 150.0(k)1E:	Night Lights, Step Lights, and Path Lights. Night lights, step lights and path lights are not required to comply with Table 150.0-A or be controlled by vacancy sensors provided they are rated to consume no more than 5 watts of power and emit no more than 150 lumens.
§ 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)."
§ 150.0(k)1G:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8.
§ 150.0(k)1H:	Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)11:	Light Sources in Drawers, Cabinets, and Linen Closets. Light sources internal to drawers, cabinetry or linen closets are not required to comply with Table 150.0-A or be controlled by vacancy sensors provided that they are rated to consume no more than 5 watts of power, emit more than 150 lumens, and are equipped with controls that automatically turn the lighting off when the drawer, cabinet or linen closet is closed
§ 150.0(k)2A:	Interior Switches and Controls. All forward phase cut dimmers used with LED light sources must comply with NEMA SSL 7A.
§ 150.0(k)2B:	Interior Switches and Controls. Exhaust fans must be controlled separately from lighting systems."
§ 150.0(k)2C:	Interior Switches and Controls. Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned ON and OFF.*
§ 150.0(k)2D:	Interior Switches and Controls. Controls and equipment must be installed in accordance with manufacturer's instructions.
§ 150.0(k)2E:	Interior Switches and Controls. Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the control is installed t comply with § 150.0(k).
	Interior Switches and Controls. Lighting controls must comply with the applicable requirements of § 110.9.



2019 Low-Rise Residential Mandatory Measures Summary

useu. Review (Nê l	esidential buildings subject to the Energy Standards must comply with all applicable mandatory measures, regardless of the compliance approach respective section for more information. *Excentions may apply
(01/2020) Building Envelop	respective section for more information. *Exceptions may apply.
§ 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). Field fabricated exterior doors and fenestration products must use U-factors and solar heat gain coefficient (SHGC) values from Tables
110.6(b):	Air Leakage . All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be caulked,
110.7:	gasketed, or weather stripped. Insulation Certification by Manufacturers. Insulation must be certified by the Department of Consumer Affairs, Bureau of Household Goods
3 110.8(a): 3 110.8(g):	and Services (BHGS). 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): § 150.0(a):	Radiant Barrier. When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Consumer Affairs. Ceiling and Rafter Roof Insulation. Minimum R-22 insulation in wood-frame ceiling; or the weighted average U-factor must not exceed 0.043. Minimum R-19 or weighted average U-factor of 0.054 or less in a rafter roof alteration. 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 earther with exercising and the participation of the part of the first earth of the fi
3 150.0(b):	direct contact with a continuous 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.* 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): 150.0(f):	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).
§ 150.0(g)1: § 150.0(g)2:	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-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 0.58; or the weighted average U-factor of all fenestration must not exceed 0.58. ^o
Fireplaces, Decores 110.5(e)	rative Gas Appliances, and Gas Log Measures: 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: 150.0(e)3:	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.*
	ing, Water Heating, and Plumbing System Measures: Certification. Heating, ventilation and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other regulated
110.0-§ 110.3: 110.2(a):	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-K." 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 th
110.2(b):	cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating. Compression heating is higher than the cut-off temperature for supplementary heating. R R R R R R R R R R R R R R R R R R
110.2(c): 110.3(c)4:	SetDack Internosatic
110.3(c)6:	§ 110.3(c)4. Isolation Valves. Instantaneous water heaters with an input rating greater than 6.8 kBtu per hour (2 kW, bibbs or other fittings on both cold and hot water lines to allow for flushing the water heater when the val Exist
110.5:	Pilot Lights. Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces; hr Exist appliances without an electrical supply voltage connection with pilot lights that consume less than 150 B Exists
150.0(h)1:	Building Cooling and Heating Loads. Heating and/or cooling loads are calculated in accordance with f Exist Equipment Volume, Applications Volume, and Fundamentals Volume; the SMACNA Residential Comfort Exist
	Manual; or the ACCA Manual J using design conditions specified in § 150.0(h)2.
	2019 Low-Rise Residential Mandatory Measures Sta
T ENLIGY COMPLETED	
450.041100	Interior Switches and Controls. An energy management control system (EMCS) may be used to compre N/A Exis
3 150.0(k)2G:	Interior Switches and Controls. An energy management control system (EMCS) may be used to compre N/A Exit provides functionality of the specified control according to § 110.9; meets the Installation Certificate require N/A Arte EMCS requirements of § 130.0(e); and meets all other requirements in § 150.0(k)2. ne N/A Arte Interior Switches and Controls. A nultiscene programmable controller may be used to comply with din N/A Arte
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150.0(k)2H: 150.0(k)2I: 150.0(k)2J: 150.0(k)2X: 150.0(k)2K: 150.0(k)3A:	re N/A Exit Interior Switches and Controls. An energy management control system (EMCS) may be used to compre N/A Exit provides functionality of the specified control according to § 110.9; meets the Installation Certificate require N/A Attention EMCS requirements of § 130.0(e); and meets all other requirements in § 150.0(k)2. ne N/A Attention Interior Switches and Controls. A multiscene programmable controller may be used to comply with dim ne N/A Attention Interior Switches and Controls. In bathrooms, garages, laundry rooms, and utility rooms, at least one I be controlled by an occupant sensor or a vacancy sensor providing automatic-off functionality. If an occu- initially configured to manual-on operation using the manual control required under Section 150.0(k)2C. Interior Switches and Controls. Luminaires that are or contain light sources that meet Reference Joint dimming, and that are not controlled by occupancy or vacancy sensors, must have dimming controls. Interior Switches and Controls. Luminaires that are or contain light sources that meet Reference Joint dimming, instal Section 150.0(k)2C. Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mou Section 150.0(k)3Ai (ON and OF switch) and the Min. Eff Thermostat Section 2 Beliacki Lighting. For on-rise residential buildings with four or more dwelling units, outdor
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150.0(k)2H: 150.0(k)2J: 150.0(k)2J: 150.0(k)2A: 150.0(k)3A: 150.0(k)3B: 150.0(k)3B: 150.0(k)3B: 150.0(k)3B: 150.0(k)3C: 150.0(k)6A: 150.0(k)6B: iolar Ready Build 110.10(a)1: 110.10(a)2: 110.10(b)1: 110.10(b)2: 110.10(b)3A: 110.10(b)3B:	Interior Switches and Controls. An energy management control system (EMCS) may be used to compo- movides functionality of the specified control according to § 110.9, meets the installation Certificate requi- meters functionality of a dimense al other equirements in § 150.0(k). Main Main EMCS requirements of § 130.0(c). mess and benergy management controls may be used to comply with dim provides the functionality of a dimense according to § 110.9, and congles with all other applicable require provides the functionality of a dimense according to § 110.9, and congles with all other applicable require initiaries Switches and Controls. In bathrooms, garage, laundry rooms, and utility rooms, at least one i be controlled by an occupant same room a vacancy sensor, must have dimming controls. Thermostat State (Maining, and that are not controlled by occupancy or vacancy sensors, must have dimming controls. Initiarios Switches and Controls. Lundra cabine lighting must be controlled by Cocupancy or vacancy sensors, must have dimming controls. Thermostat State (Maining, and that are not controlled by occupancy or vacancy sensors, must have dimming controls. Paided State Controls. Undre cabine lighting must be controlled by Cocupancy or vacancy sensors, must have dimming controls. Thermostat State (Maining, and that are not controls and and controls with four or more dwelling units, outdor state on the spicable requirements in Sections 110.9, 130.0, 130.2, 130.4, 140.7 and 141.0. Thermostat State (Maining) Residential Outdoor Lighting. For low-rise residential buildings with four or more dwelling units, outdor or caprots with a total or light or more wellices units are units are unit to thanote state and are units are units and the spicable se
150.0(k)2H: 150.0(k)2J: 150.0(k)2J: 150.0(k)2X: 150.0(k)3A: 150.0(k)3B: 150.0(k)3B: 150.0(k)3C: 150.0(k)4: 150.0(k)6A: 150.0(k)6B: 110.10(a)1: 110.10(a)2: 110.10(b)1:	Interior Switches and Controls. An energy management control system (EMCS) may be used to compower and the specified control according to § 110.8, meets the installation Cartificate requirements of \$120.0(c). MA MA EMCS: requirements of § 130.0(c). meso MA MA provides the functionality of a dimmeso and other supports the functionality of a dimmeson according to § 110.0(c). meion MA provides the functionality of a dimmeson according to § 110.0(c). meion MA MA provides the functionality of a dimmeson according to § 110.0(c). meion MA Ma provides the functionality of a dimmeson according to § 110.0(c). meion Ma Ma the controlled by an occupant assets or a vacancy sensors, must be accintol is donored. meion Ma Ma that are not controlled by occupancy or vacancy sensors, must be accintol is donored. Interior Switches and Controls. Under cabinet lighting must be controlled by dock/All (M and OFF switch) and th Mijn. Eff Thermostat State S10.0(k)&All (Moco Lighting. For low-rise residential buildings. With our or more dwelling units, outdor meion Ma
150.0(k)2H: 150.0(k)2J: 150.0(k)2J: 150.0(k)2A: 150.0(k)3A: 150.0(k)3A: 150.0(k)3A: 150.0(k)3B: 150.0(k)3C: 150.0(k)3C: 150.0(k)6A: 150.0(k)6B: 0lar Ready Built 110.10(a)1: 110.10(b)1: 110.10(b)2: 110.10(b)3B: 110.10(b)3B: 110.10(b)4:	Interior Switches and Controls. An energy management control system (EMCS) may be used to comport of the specified control according to § 110.9, meets the installation Cartificate require MAA Mean EMCS requirements of § 13.00(c). ne NAA Mean Amean provides the functionality of a dimmers and there quariments in § 150.00(c). ne NAA Amean provides the functionality of a dimmers and there or a vacancy sensor providing automatical of fluctionality. NAA Amean provides the functionality of a dimmers chart are or or avacancy sensor providing automatical of fluctionality. NAA Amean Interior Switches and Controls. In bathrooms, garages, laundry rooms, and utility rooms, at least one1 Dee controlled by an occupant sensor or avacancy sensors, must have dimming controls. Interior Switches and Controls. Int



HERS Testing

Serving San Luis Obispo and Santa Barbara Counti

Calcula	tion Description: Title 24 Analysis		Input	File Name: Mono County ADU (Plan 5).rib	od19x
GENER	AL INFORMATION				
01	Project Name	Mono County ADU (Plan 5)			
02	Run Title	Title 24 Analysis			
03	Project Location	-			
04	City	Mono County	05	Standards Version	2019
06	Zip code		07	Software Version	EnergyPro 8.3
08	Climate Zone	16	09	Front Orientation (deg/ Cardinal)	AllOrientations
10	Building Type	Single family	11	Number of Dwelling Units	1
12	Project Scope	NewConstruction	13	Number of Bedrooms	2
14	Addition Cond. Floor Area (f <mark>t²)</mark>	0	15	Number of Stories	1
16	Existing Cond. Floor Area <mark>(ft²)</mark>	n/a	17	Fenestration Average U-factor	0.3
18	Total Con <mark>d. Floor</mark> Area (ft ²)	1033	19	Glazing Percentage (%)	11.71%
20	ADU Bedroom Count	n/a	21	ADU Conditioned Floor Area	n/a
22	Is Natural Gas Available?	No	K	IS INC	
				1 <i>3</i> , 111C.	
COMPL		HERS P	R	OVIDER	
	01 Building Complies with Computer	Performance			
	02 This building incorporates feature	s that require field testing and/or verification	by a ce	rtified HERS rater under the supervision of a	CEC-approved HERS provider.

Registration Number: 222-P010154881A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2019 Residential Compliance

03 This building incorporates one or more Special Features shown below

Registration Date/Time: 2022-08-05 09:51:33 Report Version: 2019.2.000 Schema Version: rev 20200901

HERS Provider: CalCERTS inc. Report Generated: 2022-08-04 09:58:06

CERTIFICATE OF	COMPLIANCE Iono County ADU (Pl	an 5)		Calcula	tion Date	/Time: 202	2-08-04T	09:57:45-07:(00		F1R-PRF-01E Page 4 of 10)
•	ription: Title 24 Ana					•		(Plan 5).ribd1		(rage 4 01 10)
REQUIRED PV SYS	TEMS - SIMPLIFIED										
01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception	Module Type	Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Access (%)
2.01	NA	Standard	Fixed	none	true	150-270	n/a	n/a	<=7:12	96	98
REQUIRED SPECIA				eled energy performance	- (11-1-		1				
IAQ Ventilat Variable cap Northwest I HERS FEATURE SU The following is a second	ion System: supply out pacity heat pump comp Energy Efficiency Allian MMARY summary of the feature	pliance option (verificati ce (NEEA) rated heat pu es that must be field-ve	H/ERV cores acces on details from VCI imp water heater; s rified by a certified	sible per RACM Referen HP Staff report, Appendi specific brand/model, or HERS Rater as a conditio	x B, and F equivale	RA3) nt, must be in eting the moc	10		e for this com	nputer analysis	. Additional
Building-level Veri Indoor air q Kitchen ran Cooling System Ve Verified Ref Airflow in h Heating System Ve Verified hea Wall-mount Ductless inc HVAC Distribution None	fications: uality ventilation ge hood rifications: rifgerant Charge abitable rooms (SC3.1. rifications: t pump rated heating o ed thermostat in zones	4.1.7) capacity s greater than 150 ft2 (S ely in conditioned space	5C3.4.5)	ired to be completed in	<u>the HERS</u>	Registry	EK				

Registration Number: 222-P010154881A-000-000-000000-0000 HERS Provider: Registration Date/Time: 2022-08-05 09:51:33 CalCERTS inc. CA Building Energy Efficiency Standards - 2019 Residential Compliance Report Version: 2019.2.000 Report Generated: 2022-08-04 09:58:06 Schema Version: rev 20200901

CF1R-PRF-01E CERTIFICATE OF COMPLIANCE Project Name: Mono County ADU (Plan 5) Calculation Date/Time: 2022-08-04T09:57:45-07:00 (Page 7 of 10) Calculation Description: Title 24 Analysis Input File Name: Mono County ADU (Plan 5).ribd19x OPAQUE SURFACE CONSTRUCTIONS 02 03 04 08 01 05 06 07 Interior / Exterior Total Cavity Surface Type Assembly Layers Construction Name Construction Type Framing Continuous U-factor R-value R-value Inside Finish: Gypsum Board R-21 Wall 2x6 @ 16 in. O. C. R-21 Cavity / Frame: R-21 / 2x6 None / None 0.069 Exterior Walls Wood Framed Wall Exterior Finish: 3 Coat Stucco Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Wood Framed Attic RoofLiving Area Attic Roofs 2x4 @ 24 in. O. C. R-0 None / None 0.644 Ceiling Siding/sheathing/decking Cavity / Frame: no insul. / 2x4 Over Ceiling Joists: R-28.9 insul. Ceilings (below Wood Framed R-38 Roof Attic 2x4 @ 24 in. O. C. R-38 0.025 None / None Cavity / Frame: R-9.1 / 2x4 attic) Ceiling Inside Finish: Gypsum Board I CAICENTS, III BUILDING ENVELOPE - HERS VERIFICATION 01 02 03 04 Quality Insulation Installation (QII) High R-value Spray Foam Insulation Building Envelope Air Leakage CFM50 Not Required Not Required Not Required n/a WATER HEATING SYSTEMS 01 02 03 04 05 06 07 Distribution Type Water Heater Name (#) Solar Heating System Compact Distribution HERS Verification Name System Type Domestic Hot Water Standard Distributior

DHW Heater 1 (1)

(DHW)

System

DHW Sys 1

n/a

n/a

None

CERTIFICATE OF COMPLIANCE Project Name: Mono County ADU (Plan 5)

Calculation Description: Title 24 Analysis

Calculation Date/Time: 2022-08-04T09:57:45-07:00 Input File Name: Mono County ADU (Plan 5).ribd19x CF1R-PRF-01E (Page 2 of 10)

	Energy Desi	gn Ratings		
	Efficiency ¹ (EDR)	Total ² (EDR)	Efficiency ¹ (EDR)	Total ² (EDR)
Standard Design	65.1	43.6		
Proposed Designs				
North Facing	60.9	39.3	4.2	4.3
East Facing	60.8	39.3	4.3	4.3
South Facing	60.7	39.2	4.4	4.4
West Facing	60.7	39.2	4.4	4.4
Efficiency EDR includes improvements to the building enve Total EDR includes efficiency and demand response measu Building complies when efficiency and total compliance ma Standard Design PV Capacity: 2.01 kWdc	res such as photovoltaic (PV) systems a	nd batteries	IC.	

Registration Number: 222-P010154881A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2019 Residential Compliance Registration Date/Time: 2022-08-05 09:51:33 Report Version: 2019.2.000 Schema Version: rev 20200901

HERS Provider: CalCERTS inc. Report Generated: 2022-08-04 09:58:06

Name	Construction	T	ype	Roof Rise (x in 12)	Roof Reflect	ance	Roof Emittance	Radiant Barrier	Cool Roof
01	02		03	04	05		06	07	08
гтіс									
Roof	Living Area	R-38 R	oof Attic	n/a	n/a		1033	n/a	n/a
Right Wall	Living Area		1 Wall	270	Right		304	34	90
Rear Wall	Living Area		1 Wall	180	Back		224	30	90
Left Wall	Living Area		1 Wall	K 5 90 P	R Left		304	25	90
Front Wall	Living Area		1 Wall	0	Front	1	224		90
Name	Zone		ruction	Azimuth	Orientatio	on	Gross Area (ft ²)	Area (Itz)	Tilt (deg)
01	02		03	04	05		06	07	08
PAQUE SURFACES									
Living Area	Conditioned		VAC System1	1033			8	DHW Sys 1	N/A
Zone Name	Zone Type	HVA	C System Name	Zone Floor A	(ft ²)	Avg. (Ceiling Height	Water Heating System 1	Water Heating System 2
01	02		03	04			05	06	07
ONE INFORMATION									
Mono County ADU (Pl	lan 5) 1033	3	1		2		1	0	1
Project Name	Conditioned Flo	or Area (ft ²)	Number of Dw Units	velling Number of	of Bedrooms	Nur	mber of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
01	02		03		04		05	06	07
JILDING - FEATURES IN	NFORMATION								
alculation Description	on: Title 24 Analysis			Ir	nput File Nam	ne: Mor	no County ADU (F	Plan 5).ribd19x	
oject Name: Mono	County ADU (Plan 5)			С	alculation Da	te/Tim	ne: 2022-08-04T0	9:57:45-07:00	(Page 5 of 10
RTIFICATE OF COM	FLIANCE								CF1R-PRF-01

8

Registration Number: 222-P010154881A-000-000-0000000-0000 Registration Date/Time: 2022-08-05 09:51:33 HERS Provider: CalCERTS inc. CA Building Energy Efficiency Standards - 2019 Residential Compliance Report Generated: 2022-08-04 09:58:06 Report Version: 2019.2.000 Schema Version: rev 20200901

0.1

CERTIFICATE OF COMPLIANCE

Project Name: Mono County ADU (Plan 5) Calculation Description: Title 24 Analysis

Attic Living Area Attic RoofLiving Area

Ventilated

Calculation Date/Time: 2022-08-04T09:57:45-07:00 Input File Name: Mono County ADU (Plan 5).ribd19x

0.85

No

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No

WATER HEATERS

HVAC - HEAT PUMPS

Name

Heat Pump System 1

WATER TEATERS													,					
01	02		03		04	05	06	C)7	08	09	1	0		11			12
Name	Heating Element Type	Та	nk T	уре	# of Units	Tank Vol. (gal)	Energy Factor or Efficiency		Rating Pilot	Tank Insulation R-value (Int/Ext)	Standby Loss or Recovery Eff	1st Hr. or Flov	-		A Heat P nd or M	•		Location or ent Conditio
DHW Heater 1	Heat Pump		n/a	1	1	50	NEEA Rated	<= 1	2 kW	n/a	n/a	n	/a		n\XE50 ⁻ J0 (50 g		Co	onditioned
WATER HEATING - HER	RS VERIFICATI	ON	-															
01	0)2		(03		04			05	0	6			07			08
Name	Pipe In	sulation		Paralle	el Pipin	g	Compact Distri	bution	1	Distribution Type	Recirculati	on Contr	rol		al DHW			Drain Wate Recovery
DHW Sys 1 - 1/1	Not Re	equired		Not R	equired		Not Requir	ed	1	None	Not Re	quired		Not R	equired		Not	Required
SPACE CONDITIONING	SYSTEMS	-7			-(alC		RT	S	In	C						
01			02	V		03	04	P	05	06	07	R	08	0	09	1(D	11
Name		Syste	m Ty	/pe		ating U Name	nit Cooling U Name	nit F	an Name	Distributi Name	I Thermo	ostat	Status	Exis	ified sting dition	Heat Equip Cou	ment	Cooling Equipmen Count
HVAC System1	He	at pump h	neati	ng cooling		at Pum ystem 1	·	· I	n/a	n/a	Setba	ck	New	Ν	NA	1		1
01	02			03		04	05		06	07	08		09		10			11

Heating

12000

HSPF/COP Cap 47

8.2

Registration Number: 222-P010154881A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2019 Residential Compliance

System Type

VCHP-ductless

Number of Units

1

Registration Date/Time: 2022-08-05 09:51:33 Report Version: 2019.2.000 Schema Version: rev 20200901

Cap 17

8000

Cooling

14

SEER EER/CEER

11.7

Zonally

Controlled

Not Zonal

HERS Provider: CalCERTS inc. Report Generated: 2022-08-04 09:58:06

HERS Verification

Heat Pump System

1-hers-htpump

Compressor

Туре

Single

Speed

CERTIFICATE OF COMPLIANCE

Project Name: Mono County ADU (Plan 5) Calculation Description: Title 24 Analysis

CF1R-PRF-01E (Page 3 of 10)

	ENERGY U	SE SUMMARY		
Energy Use (kTDV/ft ² -yr)	Standard Design	Proposed Design	Compliance Margin	Percent Improvemen
Space Heating	82.2	73.95	8.25	10
Space Cooling	0.74	0.26	0.48	64.9
IAQ Ventilation	8.27	5.98	2.29	27.7
Water Heating	22.58	19.51	3.07	13.6
Self Utilization Credit	n/a	0	0	n/a
North Facing Compliance Total	113.79	99.7	14.09	12.4
Space Heating	82.2	74.01	8.19	10
Space Cooling	0.74	0.18	0.56	75.7
IAQ Ventilation	8.27	5.98	2.29	27.7
Water Heating	22.58	19.52	3.06	13.6
Self Utilization Credit	n/a	0	0	n/a
East Facing Compliance Total	113.79	99.69	14.1	12.4
Space Heating	82.2	73.54	8.66	10.5
Space Cooling	0.74 R S F		0.48	64.9
IAQ Ventilation	8.27	5.98	2.29	27.7
Water Heating	22.58	19.51	3.07	13.6
Self Utilization Credit	n/a	0	0	n/a
South Facing Compliance Total	113.79	99.29	14.5	12.7
Space Heating	82.2	73.42	8.78	10.7
Space Cooling	0.74	0.21	0.53	71.6
IAQ Ventilation	8.27	5.98	2.29	27.7
Water Heating	22.58	19.51	3.07	13.6
Self Utilization Credit	n/a	0	0	n/a
West Facing Compliance Total	113.79	99.12	14.67	12.9

	22-P010154881A-000-000- ciency Standards - 2019	000000-0000 Residential Compliance	Repo	stration Dat ort Version: ma Version:	202 2019.2.0		Family D Addition Alone amily D Existing+ Addition/Alteration Cone Total Cond. Floor Area Additio 23 3,906 11 9: Special Features		l: 202	2-08-04	CalCERTS inc. 09:58:06	arstairs Energy Inc.	2238 Bayview Heights Drive, Suite E Los Osos, CA 93402 805-904-9048 title24@yahoo.com
CERTIFICATE OF COM	PLIANCE						16.3 % New/A tered Average ∪-Facto idefins Exterior Shades	or: 0.30 Status Existing			CF1R-PRF-01E	<u>.</u>	iew H 2A 93 48 +
Project Name: Mono	County ADU (Plan 5)			Calcula	ation Da	ate/Tim	e ^{rne} N/A	Existing			(Page 6 of 10)	to to	3ayv os, C 4-90
Calculation Descriptio	on: Title 24 Analysis			Input F	File Nar	ne: Mor	ne N/A One N/A ne N/A 	Existing Existing Altered Altered				Carg	2238 E Los Os 805-90
FENESTRATION / GLAZI	NG 02	03	04	05	06	07			12	13	14	6	1
Name	Туре	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	- <u></u>		нос	SHGC Sourc e	Exterior Shading		E
В	Window	Front Wall	Front	0).23	NFRC	Bug Screen	- 1	1U/
B 2	Window	Front Wall	Front	0			-Min. Eff Thermostat	Existing).23	NFRC	Bug Screen	July .	\square
B.1	Window	Left Wall	Left	90).23	NFRC	Bug Screen		
В 3	Window	Left Wall	Left	90			Duct _ocation R-Value	Status).23	NFRC	Bug Screen		
B.3	Window	Rear Wall	Back	180			6.0	Altered).23	NFRC	Bug Screen		
A.1	Window	Rear Wall	Back	180).23	NFRC	Bug Screen	L	n
A.1 2	Window	Rear Wall	Back	180			stribution	Status).23	NFRC	Bug Screen		- C
B.3 2	Window	Right Wall	Right	270).23	NFRC	Bug Screen		ΠŌ
B 4	Window	Right Wall	Right	270	FC		ID: 22-020416	Page 14 of 21).23	NFRC	Bug Screen		ation
	1 me	02 Side of Bui	- N - D	P R		0 Area			-	94 Actor			ounty Plan Foundation
Doo	r A1	Front W	all			2	0		0	.2			
SLAB FLOORS													
01	02	03	04		05		06	07			08		
Name	Zone	Area (ft ²)	Perimeter (ft)		Insul. R- and Dept		Edge Insul. R-value and Depth	Carpeted Fra	action		Heated		Raised
Slab	Living Area	1033	106		none		0	80%			No		₹ æ

Registration Number: 222-P010154881A-000-000-0000000-0000	Registration Date/Time: 2022-08-05 09:51:33	HERS Provider:	CalCERTS inc.
CA Building Energy Efficiency Standards - 2019 Residential Compliance	Report Version: 2019.2.000 Schema Version: rev 20200901	Report Generated: 2022-08-04	09:58:06

CERTIFICATE OF COMPLIANCE

Project Name: Mono County ADU (Plan 5) Calculation Description: Title 24 Analysis

Calculation Date/Time: 2022-08-04T09:57:45-07:00 Input File Name: Mono County ADU (Plan 5).ribd19x

HVAC HEAT PUMPS -	HERS VERIFICATION								HERS Testing
01	02	03	04	05	06	07	08	09	Serving San Luis Obispo and Santa Barbara Counties
Name	Verified Airflow	Airflow Target	Verified EER	Verified SEER	Verified Refrigerant Charge	Verified HSPF	Verified Heating Cap 47	Verified Heating Cap 17	
Heat Pump System 1-hers-htpump	Not Required	0	Not Required	Not Required	Yes	No	Yes	Yes	

VARIABLE CAPACITY HEAT F	PUMP COMPLIANCE OPTIO	N - HERS VERIFI	CATION									
01	02	03	04		05		06	07	08	0	9	10
Name	Certified Low-Static VCHP System	Airflow to Habitable Rooms	Ductless Ur in Condition Space		Wall Mount Thermostat	&an	Filter Sizing np; Pressure rop Rating	Low Leakage Ducts in Conditioned Space	Minimum Airflow per RA3.3 and SC3.3.3.4.1		ified ntinuous an	Indoor Fan not Running Continuously
Heat Pump System 1	Not required	Required	Required	1	Required	No	ot required	Not required	Not required	Not re	quired	Not required
IAQ (INDOOR AIR QUALITY) FANS		510		ED-		C	nc				
01	02	03			04		D , I	05	06			07
Dwelling Unit	IAQ CFM	IAQ Wat	ts/CFM R	S	IAQ Fan Type	0		ecovery eness - SRE	IAQ Recover Effectiveness - A	· .	HERS	Verification
SFam IAQVentRpt 1-1	50	0.4	.6		Balanced			80	80			Yes

HERS Provider:

ABE

Call Us for

CF1R-PRF-01E

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CERTIFICATE OF COMPLIANCE	CF1R-PRF-01E
Project Name: Mono County ADU (Plan 5)	Calculation Date/Time: 2022-08-04T09:57:45-07:00 (Page 10 of 10)
Calculation Description: Title 24 Analysis	Input File Name: Mono County ADU (Plan 5).ribd19x
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.	2022-08-05 09:28:45
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	
	Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. The consistent with the information provided on other applicable compliance documents, worksheets,
Responsible Designer Name: Randy Russom	Responsible Designer Signature: R. R. R.
RRM Design Group	Date Signed: 2022-08-05 09:51:33
^{Address:} 3765 S. Higuera Street, Suite 102	License: C24410
^{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.

Registration Number: 222-P010154881A-000-000-000000-0000 CA Building Energy Efficiency Standards - 2019 Residential Compliance

Registration Date/Time: 2022-08-05 09:51:33 Report Version: 2019.2.000 Schema Version: rev 20200901

CalCERTS inc. Report Generated: 2022-08-04 09:58:06

HERS Provider:

A STATE OF	2019 Low-Rise Residential Mandatory Measures Summary
§ 150.0(h)3A:	Clearances. Air conditioner and heat pump outdoor condensing units must have a clearance of at least five feet from the outlet of any dryer
§ 150.0(h)3B:	Liquid Line Drier. Air conditioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the manufacturer's instructions.
§ 150.0(j)1:	Storage Tank Insulation. Unfired hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must haw a minimum of R-12 external insulation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank.
§ 150.0(j)2A:	Water Piping, Solar Water-heating System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must be insulated as specified in Section 609.11 of the California Plumbing Code. In addition, the following piping conditions must have a minimum insulation wall thickness of one inch or a minimum insulation R-value of 7.7: the first five feet of cold water pipes from the storage tank; all hot water piping with a nominal diameter equal to or greater than 3/4 inch and less than one inch; all hot water piping with a nominal diameter less than 3/4 inch that is: associated with a domestic hot water reicrulation system, from the heating source to storage tank or between tanks, buried below grade, and from the heating source to kitchen fixtures.*
§ 150.0(j)3:	Insulation Protection. Piping insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind as required by Section 10.3(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 include all of the following: A dedicated 125 volt, 20 amp electrical receptacle connected to the electric panel with a 120/240 volt 3 conductor, 10 AWG copper branch circuit, within three feet of the water heater without obstruction. Both ends of the unused conductor must be labeled with the word "spare" and be electrically isolated. Have a reserved single pole circuit breaker space in the electrical panel adjacent to the circuit breaker for the branch circuit, and labeled with the words "Future 240V Use"; a Category III or IV vent, or a Type B vent with straight pipe between the outside termination and the space where the water heater is installed; a condensate drain that is no more than two inches higher than the base of the water heater, and allows natural draining without pump assistance; and a gas supply line with a capacity of at least 200,000 Btu per hour
§ 150.0(n)2:	Recirculating Loops. Recirculating loops serving multiple dwelling units must meet the requirements of § 110.3(c)5.
§ 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	Measures:
§ 110.8(d)3:	Ducts. Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC). If a contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement.
§ 150.0(m)1:	CMC Compliance. All air-distribution system ducts and plenums must meet the requirements of the CMC §§ 601.0, 602.0, 603.0, 604.0, 605.0 and ANSI/SMACNA-006-2006 HVAC Duct Construction Standards Metal and Flexible 3rd Edition. Portions of supply-air and returm-air ducts an plenums must be insulated to a minimum installed level of R-6.0 or a minimum installed level of R-4.2 when ducts are entirely in conditioned space as confirmed through field verification and diagnostic testing (RA3.1.4.3.8). Portions of the duct system completely exposed and surrounded by directly conditioned space are not required to be insulated. 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 requirements of UL 181, UL 181A, or UL 181B or aerosol sealant that meets the requirements of UL 723. If mastic or tape is used to seal openings greater than ¹ / ₄ inch, the combination of mastic and either mesh or tape must be used. Building cavities, support platforms for air handlers, and plenums designed or constructed with materials other than sealed sheet metal, duct board or flexible duct must not be used to convey conditioned air. Building cavities and support platforms may contain ducts. Ducts installed in cavities and support platforms must not be compressed to cause reductions in the cross-sectional area."
§ 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.
§ 150.0(m)8:	Gravity Ventilation Dampers. Gravity ventilating systems serving conditioned space must have either automatic or readily accessible, manually operated dampers in all openings to the outside, except combustion inlet and outlet air openings and elevator shaft vents.
§ 150.0(m)9:	Protection of Insulation. Insulation must be protected from damage, sunlight, moisture, equipment maintenance, and wind. Insulation expose to weather must be suitable for outdoor service. For example, protected by aluminum, sheet metal, painted canvas, or plastic cover. Cellular foam insulation must be protected as above or painted with a coating that is water retardant and provides shielding from solar radiation.
§ 150.0(m)10:	Porous Inner Core Flex Duct. Porous inner core flex ducts must have a non-porous layer 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 § 150.0(m)11 and Reference Residential Appendix RA3.
§ 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. Pressure drops and labeling must meet the requirements in §150.0(m)12. Filters must be accessible for regular service.*
§ 150.0(m)13:	Space Conditioning System Airflow Rate and Fan Efficacy. Space conditioning systems that use ducts to supply cooling must have a hole for the placement of a static pressure probe, or a permanently installed static pressure probe in the supply plenum. Airflow must be ≥ 350 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.45 watts per CFM for gas furnace air handlers and ≤ 0.58 watts per CFM for all others. Small duct high velocity systems must provide an airflow ≥ 250 CFM per ton of nominal cooling capacity, and an air-handlin unit fan efficacy ≤ 0.62 watts per CFM. Field verification testing is required in accordance with Reference Residential Appendix RA3.3.*

roject Name Mono County ADU system Name IVAC System	SUMMARY J (Plan 5)							Date Floor	8/4/20 Area 1,03	
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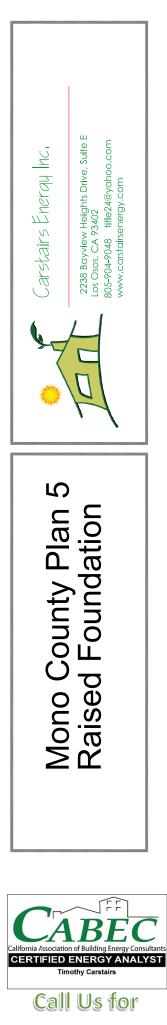
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^o roject Name Mono County	ADU (Plan 5,)	Build	ding Type	☑ Single Far □ Multi Fam		Addition Alone Existing+ Additio	n/Alteration	Date 8/4/202
Project Address					rgy Climate Zone	Total (Cond. Floor Area	Addition	# of Unit
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INSULATIO			Cav	vity	Area (ft ²)	Specia	al Features		Status
Vall Wood	l Framed		R 21		915				New
Door Opaq	ue Door		R-5		20				New
Roof Wood	l Framed Attic		R 38		1,033				New
Floor Wood	I Framed w/Crawl S	Space	R 19		1,033				New
FENESTRA	-	Total Area:	121	Oldzing			New/Altered Avera		0.30
Orientation	()		SHGC	Overh		tins	Exterior Sh	ades	Status
ront (N)	32.0	0.300	0.23	none	none		N/A		New
eft (E)	25.0	0.300	0.23	none	none		N/A		New
Rear (S) Right (W)	30.0 34.0	0.300	0.23	none none	none		N/A N/A		New
HVAC SYS Qty. Heat		Min. Ef	f Co	oling	Mi	n. Eff	The	rmostat	Status
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Requirements for	or Ventilation and Indoor Air Quality:
§ 150.0(o)1:	Requirements for Ventilation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(o)1.
§ 150.0(o)1C:	Single Family Detached Dwelling Units. Single family detached dwelling units, and attached dwelling units not sharing ceilings or floors wit other dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical ventilation airflow provided at rates determined by ASHRAE 62.2 Sections 4.1.1 and 4.1.2 and as specified in § 150.0(o)1C.
§ 150.0(o)1E:	Multifamily Attached Dwelling Units. Multifamily attached dwelling units must have mechanical ventilation airflow provided at rates in accordance with Equation 150.0-B and must be either a balanced system or continuous supply or continuous exhaust system. If a balanced system is not used, all units in the building must use the same system type and the dwelling-unit envelope leakage must be s 0.3 CFM at 50 (0.2 inch water) per square foot of dwelling unit envelope surface area and verified in accordance with Reference Residential Appendix RA3.
§ 150.0(o)1F:	Multifamily Building Central Ventilation Systems. Central ventilation systems that serve multiple dwelling units must be balanced to provic ventilation airflow for each dwelling unit served at a rate equal to or greater than the rate specified by Equation 150.0-B. All unit airflows must within 20 percent of the unit with the lowest airflow rate as it relates to the individual unit's minimum required airflow rate needed for complian
§ 150.0(o)1G:	Kitchen Range Hoods. Kitchen range hoods must be rated for sound in accordance with Section 7.2 of ASHRAE 62.2.
§ 150.0(o)2:	Field Verification and Diagnostic Testing. Dwelling unit ventilation airflow must be verified in accordance with Reference Residential Appendix RA3.7. A kitchen range hood must be verified in accordance with Reference Residential Appendix RA3.7.4.3 to confirm it is rated by HVI to comply with the airflow rates and sound requirements as specified in Section 5 and 7.2 of ASHRAE 62.2.
Pool and Spa Sy	/stems and Equipment Measures:
§ 110.4(a):	Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following: a thermal efficient that complies with the Appliance Efficiency Regulations; an on-off switch mounted outside of the heater that allows shutting off the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric resistance heating.
§ 110.4(b)1:	Piping. Any pool or spa heating system or equipment must be installed with at least 36 inches of pipe between the filter and the heater, or dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating.
§ 110.4(b)2:	Covers. Outdoor pools or spas that have a heat pump or gas heater must have a cover.
§ 110.4(b)3:	Directional Inlets and Time Switches for Pools. Pools must have directional inlets that adequately mix the pool water, and a time switch th 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, first, and valves."
Lighting Measu	
§ 110.9:	Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirement of § 110.9.*
§ 150.0(k)1A:	Luminaire Efficacy. All installed luminaires must meet the requirements in Table 150.0-A.
§ 150.0(k)1B:	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 must be no greater than the number of bedrooms. These electrical boxes must be served by a dimmer, vacancy sensor control, fan speed control.
§ 150.0(k)1C:	Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must meet all of the requirements for: insulation contact (IC labeling; air leakage; sealing; maintenance; and socket and light source as described in § 150.0(k)1C.
§ 150.0(k)1D:	Electronic Ballasts for Fluorescent Lamps. Ballasts for fluorescent lamps rated 13 watts or greater must be electronic and must have an output frequency no less than 20 kHz.
§ 150.0(k)1E:	Night Lights, Step Lights, and Path Lights. Night lights, step lights and path lights are not required to comply with Table 150.0-A or be controlled by vacancy sensors provided they are rated to consume no more than 5 watts of power and emit no more than 150 lumens.
§ 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)."
§ 150.0(k)1G:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8.*
§ 150.0(k)1H:	Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8 elevate temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)11:	Light Sources in Drawers, Cabinets, and Linen Closets. Light sources internal to drawers, cabinetry or linen closets are not required to comply with Table 150.0-A or be controlled by vacancy sensors provided that they are rated to consume no more than 5 watts of power, emit more than 150 lumens, and are equipped with controls that automatically turn the lighting off when the drawer, cabinet or linen closet is close
§ 150.0(k)2A:	Interior Switches and Controls. All forward phase cut dimmers used with LED light sources must comply with NEMA SSL 7A.
§ 150.0(k)2B:	Interior Switches and Controls. Exhaust fans must be controlled separately from lighting systems.
§ 150.0(k)2C:	Interior Switches and Controls. Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned ON and OFF.*
§ 150.0(k)2D:	Interior Switches and Controls. Controls and equipment must be installed in accordance with manufacturer's instructions.
§ 150.0(k)2E:	Interior Switches and Controls. Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the control is installed comply with § 150.0(k).
§ 150.0(k)2F:	Interior Switches and Controls. Lighting controls must comply with the applicable requirements of § 110.9.



2019 Low-Rise Residential Mandatory Measures Summary

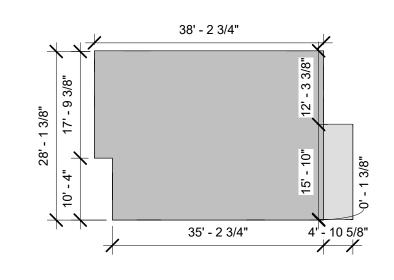
(01/2020) Building Envelop		
§ 110.6(a)1:	Air Leakage. Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 CFM per square foot or less when tested per NFRC-400, ASTM E283 or AAMA/WDMA/CSA 101/I.S.2/A440-2011.	
§ 110.6(a)5:	Labeling. Fenestration products and exterior doors must have a label meeting the requirements of § 10-111(a). Field fabricated exterior doors and fenestration products must use U-factors and solar heat gain coefficient (SHGC) values from Tables	_
§ 110.6(b):	110.6-A, 110.6-B, or JA4.5 for exterior doors. They must be caulked and/or weather-stripped. Air Leakage. All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be caulked,	_
§ 110.7:	gasketed, or weather stripped. Insulation Certification by Manufacturers. Insulation must be certified by the Department of Consumer Affairs, Bureau of Household Goods	-
§ 110.8(a): § 110.8(g):	and Services (BHGS). 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):	Ceiling and Rafter Roof Insulation. Minimum R-22 insulation in wood-frame ceiling; or the weighted average U-factor must not exceed 0.043. Minimum R-19 or weighted average U-factor of 0.054 or less in a rafter roof alteration. 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 continuous roof or ceiling which is sealed to limit infiltration and exfiltration as specified in § 110.7, including but not limited the prevent which exists a continuous roof or ceiling which is sealed to limit infiltration and exfiltration as specified in § 110.7, including but not limited	
§ 150.0(b):	to placing insulation either above or below the roof deck or on top of a drywall ceiling.* 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 on 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.*	r
§ 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 withou 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).	
3 150.0(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 0.58; or the weighted average U-factor of all fenestration must not exceed 0.58.*	
	rative Gas Appliances, and Gas Log Measures:	4
§ 110.5(e) § 150.0(e)1:	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.	-
§ 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.	1
§ 150.0(e)3:	Flue Damper. Masonry or factory-built fireplaces must have a flue damper with a readily accessible control.	
Space Condition	ing, Water Heating, and Plumbing System Measures: Certification. Heating, ventilation and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other regulated	4
§ 110.0-§ 110.3: § 110.2(a):	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-K."	_
§ 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. ¹	-
§ 110.2(c):	Thermostats. All heating or cooling systems not controlled by a central energy management control s	RMS
§ 110.3(c)4:	Family L Addition Alone D	ate 2/4/2 # of
§ 110.3(c)6:	Isolation Valves. Instantaneous water heaters with an input rating greater than 6.8 kBtu per hour (2 k ¹ bibbs or other fittings on both cold and hot water lines to allow for flushing the water heater when the v Distribution Configuration of the period of the batter of the period	tatus
110.5:	appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Ex	kisting kisting
150.0(h)1:	Equipment Volume, Applications Volume, and Fundamentals Volume; the SMACNA Residential Comfiner and Example of the ACCA Manual Lyring design appditions ap	kisting
	Ex	kisting kisting
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150 0/4/201	Interior owneries and controls. An energy management control system (Ewoo) may be used to con	xisting
§ 150.0(k)2G:	provides functionality of the specified control according to § 110.9; meets the installation Certificate rer ^{ee} N/A EV EMCS requirements of § 130.0(e); and meets all other requirements in § 150.0(k)2. re N/A All	xisting xisting Itered
	provides functionality of the specified control according to § 110.9; meets the Installation Certificate refree N/A ES EMCS requirements of § 130.0(e); and meets all other requirements in § 150.0(k)2. reference N/A All Interior Switches and Controls. A multiscene programmable controller may be used to comply with (reference) N/A All provides the functionality of a dimmer according to § 110.9, and complies with all other applicable requirements	xisting xisting
§ 150.0(k)2H:	Interior Switches and Controls. A multiscence programmable control lector may be used to comply with (<i>ne</i> N/A A/A) Interior Switches and Controls. A multiscence programmable controller may be used to comply with (<i>ne</i> N/A A/A) provides the functionality of a dimmer according to § 110.9, and complies with all other applicable requ	xisting xisting Itered
§ 150.0(k)2H: § 150.0(k)2I:	Interior Switches and Controls. Luminaires that are or contain light sources that meet Reference Joi	xisting xisting Itered
§ 150.0(k)2H: § 150.0(k)2I: § 150.0(k)2J:	Interior Switches and Controls. Under gainers of source	xisting xisting Itered
§ 150.0(k)2H: § 150.0(k)2I: § 150.0(k)2J: § 150.0(k)2K:	Interior Switches and Controls. In bathrooms, garages, laundry rooms, and utility rooms, at least on be controlled by an occupant sensor or a vacancy sensor providing automatic-off functionality. If an oc initially controls. Under cabinet lighting means that are or contain light sources that meet Reference Joi dimming, and that are not controlled by occupancy or vacancy sensors, must have dimming controls. Interior Switches and Controls. Under cabinet lighting must be controlled separately from celling-ins mining, and that are not controlled by occupancy or vacancy sensors, must have dimming controls. Interior Switches and Controls. Under cabinet lighting must be controlled separately from celling-ins Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently m buildings on the same lot, must meet the requirement in item § 150.0(k)3Ai (ON and OFF switch) and I § 150.0(k)3Ai (potocell and either a motion sensor or automatic time switch control) or § 150.0(k)3AiMinn. Eff	xisting xisting Itered Itered
\$ 150.0(k)2H: \$ 150.0(k)2I: \$ 150.0(k)2J: \$ 150.0(k)2J: \$ 150.0(k)2K: \$ 150.0(k)3A:	Interior Switches and Controls. Luminaires that are or contain light sources that meet Reference Joi dimming, and that are not controlled by occupancy or vacancy sensors, must have dimming controls. N/A A/A Interior Switches and Controls. Luminaires that are or contain light sources that meet Reference Joi dimming, and that are not controlled by occupancy or vacancy sensors, must have dimming controls. N/A A/A Interior Switches and Controls. In bathrooms, garages, laundry rooms, and utility rooms, at least on be controlled by an occupant sensor or a vacancy sensor providing automatic-off functionality. If an oc N/A A/A Interior Switches and Controls. Luminaires that are or contain light sources that meet Reference Joi dimming, and that are not controlled by occupancy or vacancy sensors, must have dimming controls. Interior Switches and Controls. Under cabinet lighting must be controlled separately from ceiling-ins Thermostat St Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently m buildings on the same lot, must meet the requirement in item § 150.0(k)3Ai (ON and OFF switch) and light. Eff Thermostat St	xisting xisting llered ltered
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\$ 150.0(k)2H: \$ 150.0(k)2I: \$ 150.0(k)2J: \$ 150.0(k)2J: \$ 150.0(k)2K: \$ 150.0(k)3A: \$ 150.0(k)3B: \$ 150.0(k)3C: \$ 150.0(k)4: \$ 150.0(k)5: \$ 150.0(k)5: }	Interior Switches and Controls. A multiscene programmable control system (Lindo / Michael Field Control according to § 110.9, meets the installation Certificate rere N/A A/A Interior Switches and Controls. A multiscene programmable controller may be used to comply with (ne N/A A/A Interior Switches and Controls. In bathrooms, garages, laundry rooms, and utility rooms, at least on N/A A/A Interior Switches and Controls. In bathrooms, garages, laundry rooms, and utility rooms, at least on be controlled by an occupant sensor or a vacancy sensor providing automatic-off functionality. If an oc nitially configured to manual-on operation using the manual control required under Section 150.0(k)2C Interior Switches and Controls. Luminaires that are or contain light sources that meet Reference Joi dimming, and that are not controlled by occupancy or vacancy sensors, must have dimming controls. Interior Switches and Controls. Under cabinet lighting must be controlled separately from ceiling-ins Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently m buildings on the same lot, must meet the requirement in item § 150.0(k)3Ai (ON and OFF switch) and [\$ 150.0(k)3Aii (photocell and either a motion sensor or a utamatic time switch control) or § 150.0(k)3Aii (Min. Eff Thermostat Setteack E Balconies, and porches; and residential parking lots and carports with hese than eight vehicles per site with the applicable requirements in Sections 110.9, 130.2, 130.4, 140.7 and 141.0. Setteack E <td< td=""><td>xisting kisting (tered ttered tatu: ixisting tatu:</td></td<>	xisting kisting (tered ttered tatu: ixisting tatu:
\$ 150.0(k)2H: \$ 150.0(k)2I: \$ 150.0(k)2J: \$ 150.0(k)2J: \$ 150.0(k)2K: \$ 150.0(k)3A: \$ 150.0(k)3B: \$ 150.0(k)3C: \$ 150.0(k)4: \$ 150.0(k)5: \$ 150.0(k)5: }	Interior Switches and Controls. Undergoing the specified control according to § 110.9, meets the installation Certificate rere NA EMESS requirements of § 130.0(e); and meets all other requirements in § 150.0(k)2. re N/A AI Interior Switches and Controls. A multiscene programmable controller may be used to comply with (ree N/A AI Interior Switches and Controls. In bathrooms, garages, laundry rooms, and utility rooms, at least on be controlled by an occupant sensor or a vacancy sensor providing automatic-off functionality. If an oc initially configured to manual-on operation using the manual control required under Section 150.0(k)2C Interior Switches and Controls. Luminaires that are or contain light sources that meet Reference Joi dimming, and that are not controlled by occupancy or vacancy sensors, must have dimming controls. Interior Switches and Controls. Under cabinet lighting must be controlled separately from ceiling-ins Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently m buildings on the same lot, must meet the requirement in tem § 150.0(k)3Ai (DN and OFF switch) and 140.0 SEER Setback Extended the applicable requirements in Sections 110.9, 130.2, 130.4, 140.7 and 141.0. Setback Residential Outdoor Lighting. For low-rise residential buildings with four or more dwelling units, any or carports with a total of eight or more vehicles per site and any outdoor lighting not regulated by § 15_coction Buct Residential Outdoor Lighting. For low-rise residential buildings with four	xisting kisting (tered ttered tatu: ixisting tatu:
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§ 150.0(k)2G: § 150.0(k)2H: § 150.0(k)2J: § 150.0(k)2J: § 150.0(k)2Z: § 150.0(k)2K: § 150.0(k)3A: § 150.0(k)3B: § 150.0(k)3B: § 150.0(k)6A: § 150.0(k)6A: § 150.0(k)6B: Solar Ready Buil § 110.10(a)1:	Interior Switches and Controls. Luminaires that are or controlled separately from celling-ins N/A A/A Residential Outdoor Lighting. For single-family residential buildings with four or more dwelling units, and provides grand existence and existence in the applicable requirements in Sections 110.9, 130., 130.2, 130.4, 140.7 and 141.0. N/A A/A Residential Outdoor Lighting. For low-rise residential buildings with all other applicable requirements in Sections 110.9, 130.0, 130.2, 130.4, 140.7 and 141.0. N/A A/A Residential Outdoor Lighting. For ow-rise residential buildings with four or more dwelling units, and required by \$15.00(k)3Ai (Minn, Eff Thermostat Sit Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently m Sentack E balconies, and porches; and residential buildings with four or more dwelling units, and residential buildings, so that nee regulates the set or more dwelling units, and regulates the applicable requirements in Sections 110.9, 130.0, 130.2, 130.4, 140.7 and 141.0. Sentack E Residential Outdoor Lighting. For low-rise residential buildings with four or more dwelling units, any or carports with a tabl of eight or more whicles per site and any outdoor lighting not regulated by §1.5 Sentack E balconies, and porches; and residential buildings with four or more dwelling units, any or carports with a tabl of eight or more whicles per site and any outdoor lighting not regulated by §1.5 Outer Sentack E coaront as anglo building equals 20 percent or less of the	xisting tered tered tered tatus tatus liered tatus
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<pre>i 150.0(k)2H: i 150.0(k)2I: i 150.0(k)2J: i 150.0(k)2X: i 150.0(k)3A: i 150.0(k)3A: i 150.0(k)3B: i 150.0(k)3B: i 150.0(k)6A: i 150.0(k)6A: i 150.0(k)6B: i 110.10(a)1: i 110.10(a)1: i 110.10(b)1: i 110.10(b)2: i 110.10(b)2: i 110.10(b)3A:</pre>	provides functionality of the specified control according to § 110.9; meets the inclaiation Certificate refer MA Extends EMCS requirements of § 130.0(a); and meets all other requirements in § 150.0(b); z ref MA AX Interior Switches and Controls. A multiscene programmable controller may be used to comply with ref NA AX Interior Switches and Controls. Luminates that are or contain light sources that meet Reference Joi Interior Switches and Controls. Luminates that are or contain light sources that meet Reference Joi Interior Switches and Controls. Under cabinet lighting must be controlled sparately from celling-ins Residential Outdoor Lighting. For single-family residentia buildings, outdoor lighting permanently in Julidings on the same to, must meet the requirement in tem § 150.0(b)(3A) (Na) AN OF Switches and Controls. Under cabinet lighting the set and eight vehicles per site of the set and the requirement in tem § 150.0(b)(3A) (Na) AN OF Switches and Controls. Under cabinet lighting inter a motion sensor or automable time switch control) or § 150.0(b)(3A) (SA) (SA) Control OF To low-isre residential buildings with four or more dwelling units, and the set and the requirements in Sections 110.9, 130.0, 130.2, 130.4, 140.7 and 141.0. Extends Extend	xisting xisting itered tatu itered tatu itered tatu itered
150.0(k)2H: 150.0(k)2J: 150.0(k)2J: 150.0(k)2X: 150.0(k)3A: 150.0(k)3A: 150.0(k)3B: 150.0(k)3B: 150.0(k)3B: 150.0(k)3B: 150.0(k)3B: 150.0(k)3B: 150.0(k)6A: 150.0(k)6B: iolar Ready Buil 110.10(a)1: 110.10(b)1: 110.10(b)2: 110.10(b)2: 110.10(b)3A:	provides functionality of the specified control according to § 1109; meets the installation Certificate prefer MA A EMCS requiments of § 130.0(g); and meets all other requirements in § 50.0(g); and meets all other applicable eq. MA A Interior Switches and Controls. A multiscene programmable controller may be used to comptly with 6x+ MA A Interior Switches and Controls. In batrooms, granges, laundry rooms, and utility computed to manual-on prelinto using the manual control required under Section 150.0(g)/2C Interior Switches and Controls. Luminaires that are or contain light sources that meet Reference Joid dimming, and that are not control do by cocupancy or vacancy sensor, sust have dimming controls. Interior Switches and Controls. Under cabinet lighting must be controlled separately from celling-ins Residential Outdoor Lighting, For low-rise residential buildings, with hour or more dvelling units, oud rouge sensor, sust have dimming controls. Interior Switches and Controls. Sustematic the sensor of a set and any duolacid lighting negative sets with the sphcial requirements in Sectors 110.9, 1300, 1302, 130, 1407 and 1410. Settematic E balconces, and porches, and residential buildings with hour or more dvelling units, oud registers. Settematic E recarpost with table origitor nore velocing as is and any duolacid lighting nor tagging and taggings. Settematic E recarpost with table origitor nore velocing as is and any duolacid lighting nor taggings.	xisting xisting itered tatu itered tatu itered tatu itered
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150.0(k)2H: 150.0(k)2I: 150.0(k)2J: 150.0(k)2X: 150.0(k)3A: 150.0(k)3A: 150.0(k)3A: 150.0(k)3A: 150.0(k)3A: 150.0(k)3A: 150.0(k)3B: 150.0(k)3C: 150.0(k)6A: 150.0(k)6B: iolar Ready Buil 110.10(a)1: 110.10(b)1: 110.10(b)1: 110.10(b)2: 110.10(b)3B: 110.10(b)3B: 110.10(b)4: 110.10(c):	provides functionality of the specified control according to § 110.9, meets the installation Certificate rever MA AV EMCS requirements of \$130.00(2) rev MA AV provides the functionality of a dimmestal olither requirements in \$150.00(2) rev MA AV provides the functionality of a dimmestal olither requirements in \$150.00(2) rev MA AV provides the functionality of a dimmestal object or avecancy sensor, much utility rooms, at least on Rev AV the controlled by a dimmestal object or avecancy sensor, much the ediming ontots. Interior Switches and Controls. Luminaires that are or controled separately from calling-ins Residential Outdoor Lighting. For low-rise residential buildings, outdoor righting permently in the adim of \$100.00(3)AU (ON and OFF switch) and 1 Stillow (SA)AU (SA)A	xisting xisting itered tatu itered tatu itered tatu itered
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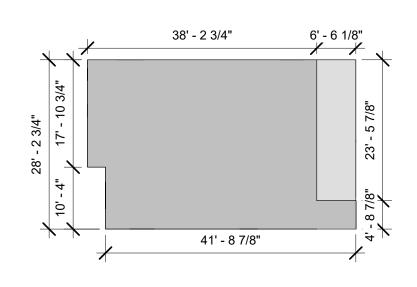
HERS Testing Serving San Luis Obispo and Santa Barbara Counties

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SITE PLAN (TO BE PROVIDED BY APPLICANT)







2 PLAN 5 - RURAL MOUNTAIN A1-201 AS-105 SCALE: 1/16" = 1'-0"

SITE PLAN GENERAL NOTES

- 1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS 2. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION. 3. CONTRACTOR TO REVIEW PLANS TO AVOID CONFLICTS WITH UTILITIES, I.E. METER LOCATIONS, ELECTRIC TRANSFORMER, BACKFLOW PREVENTERS, SEWER LINES AND ELECTRIC CONDUIT (POLE LIGHTING AT DRIVEWAY), ETC.
- 4. CONTRACTOR TO VERIFY ALL CONDITIONS AND UTILITY LOCATIONS AND IS RESPONSIBLE FOR LOCATING UTILITIES NOT SHOWN ON THE DRAWINGS.
- 5. CONTRACTOR TO AVOID DISTURBING OR DAMAGING EXISTING UTILITIES. 6. CALL BEFORE YOU DIG OR CAUSE ANY GROUND DISTURBANCES.
- 7. LIMIT CONSTRUCTION AREA TO THAT INDICATED ON THE PLANS. CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGE TO AREAS OUTSIDE OF DESIGNATED CONSTRUCTION AREA. 8. COORDINATE ELECTRICAL REQUIREMENTS WITH PG&E.
- 9. FOR PROJECT INFORMATION DATA, SEE TITLE SHEET
- 10. ENCROACHMENT PERMIT IS REQ. FOR ANY WORK DONE WITHIN THE RIGHT OF WAYS. 11. PER CRC R311.3 FLOORS OR LANDINGS AT EXTERIOR DOORS SHALL BE AT
- LEAST AS WIDE AS DOOR SERVED AND SHALL PROVIDE A LENGTH IN THE DIRECTION OF TRAVEL EQUAL TO 36 INCHES MINIMUM. SLOPE OF EXTERIOR LANDINGS SHALL NOT EXCEED 1/4" PER FOOT (2% SLOPE).

SITE	PLAN CHECKLIST	
PROPERTY	SHOULD BE DRAWN TO A MEASURABLE SCALE.	
LABEL YAR LABEL FRO DRIVEWAY	R DS DNT, REAR, SIDE YARDS, AS WELL AS 'S, PATHWAYS AND ANY OTHER HARDSCAPE.	
LINES, AS V	S N THE DISTANCE BETWEEN BUILDINGS AND PROPOERTY WELL AS BUILIDNGS TO OTHER STRUCTURES. (SETBACKS RTY LINE OR OTHER STRUCTURES SHALL BE 4' MINIMUM)	
REFER TO	IS (IF APPLICABLE) LEGEND. MAY INCLUDE UTILITY R.O.W. OF EXISTING UTILITIES	
UTILITIES, F METERS AN	POLES, SWERE DRAINS, ELECTRICAL, GAS ND LINES AND ANY PHOTOVOLTATIC.	
LABEL ADU ADU WILL H	REETS & SIDEWALKS J AND ADDRESS LOCATION HAVE SAME ADDRESS AS THE PRIMARY RESIDENCE, ETTER SHALL BE VISIBLE FROM THE STREET.	
THIS INCLU	T OF EXISTING BUILDING IDES ALL STRUCUTRES/PORCHES/GAZEBOS	
REFER TO DIMENSION	T OF PROPOSED ADU LEGEND FOR FOOTPRINT AT 10'=1" SCALE N BUILDING SEPARATION N THE DISTANCE BETWEEN THE PROPOSED ADU XISTING STRUCTURES	
↓ 	10'-0" 22'-0" 17'-0" 15'-0" 64'	
L	- ⊥	
1	EXAMPLE SITE PLAN	
A1-201 AS-105		

SITE PLAN LEGEND



PROPERTY LINE	
SETBACK	
EASTMENT	
ACCESSIBLE PATH OF TRAVEL (SHALL BE 48" MIN. CBC 11B-403.5)	
CONCRETE PAVING	

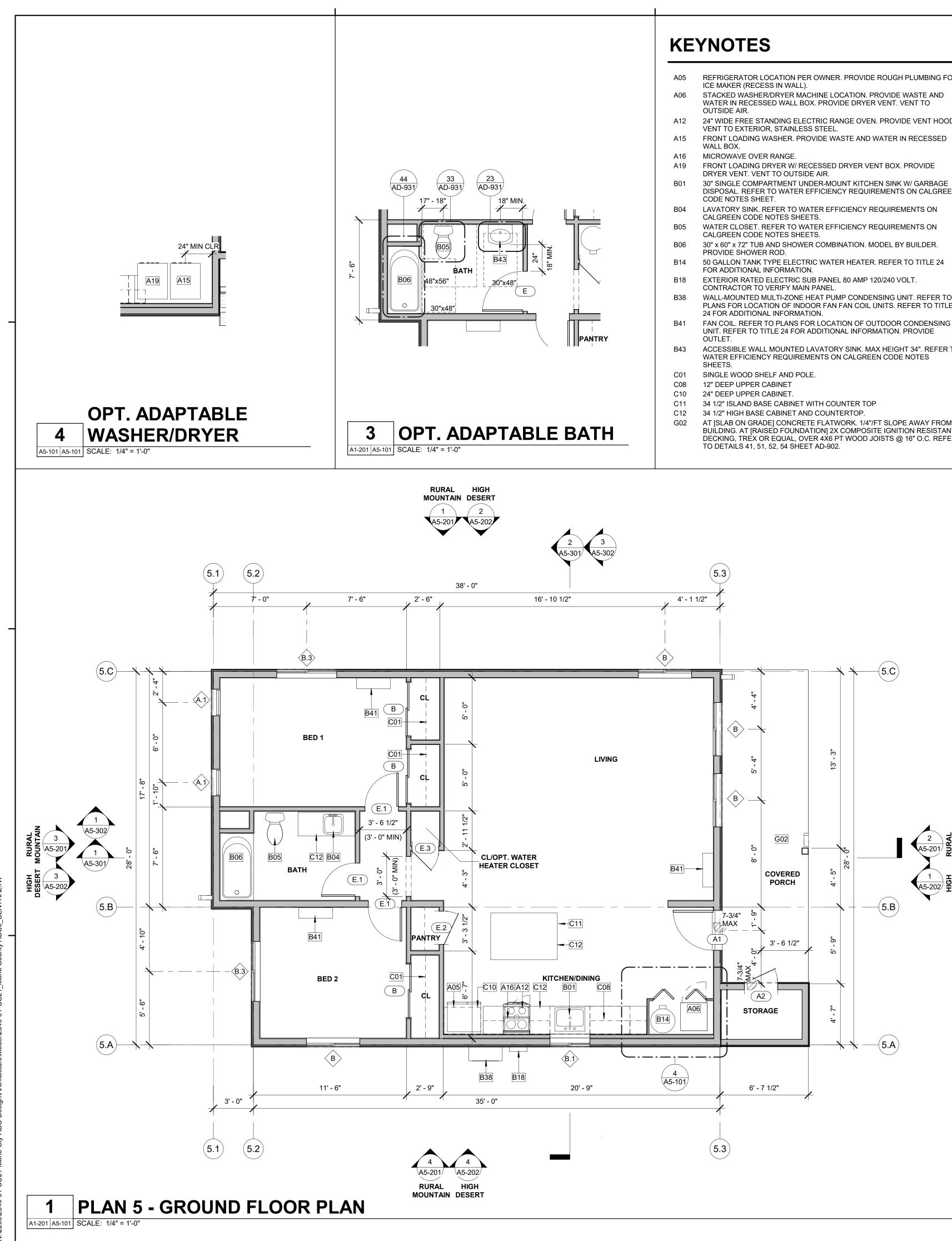
LANDSCAPE AREA, REFER TO LANDSCAPE DRAWINGS.



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CONSULTANT	
MONO COUNTY ADU PROTOTYPES MONO COUNTY	ARCHITECTURAL SITE PLAN - PLAN 5
NO. REVISION	DATE
PROJECT MANAGE RR DRAWN BY DATE 6/30/2022 PROJECT NUMBER	R CHECKED BY

AS-105



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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 AIR.	
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. 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. 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.	

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

WINDOW GENERAL NOTES

- 1. REFER TO GENERAL NOTES ON SHEET G-101 FOR ADDITIONAL
- REQUIREMENTS. REFER TO FLOOR PLANS FOR WINDOW LOCATIONS.
- 3. CONTRACTOR TO VERIFY EXACT ROUGH OPENING SIZES PRIOR TO FABRICATION OF ROUGH OPENINGS.
- 4. INSTALL PER MANUFACTURERS WRITTEN INSTRUCTIONS. 5. 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
- UNLESS OTHERWISE NOTED.
- 7. 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

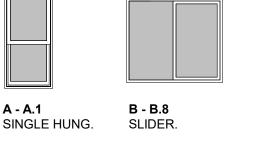
- 1. REQUIRED EGRESS WINDOW. REFER TO GENERAL NOTE #7 FOR ADDITIONAL
- INFORMATION. 2. HAZARDOUS LOCATION. WINDOW INCLUDES BOTH PANES TEMPERED
- GLAZING. 3. HIGH WINDOW. REFER TO ELEVATIONS FOR LOCATION.

WINDOW SCHEDULE

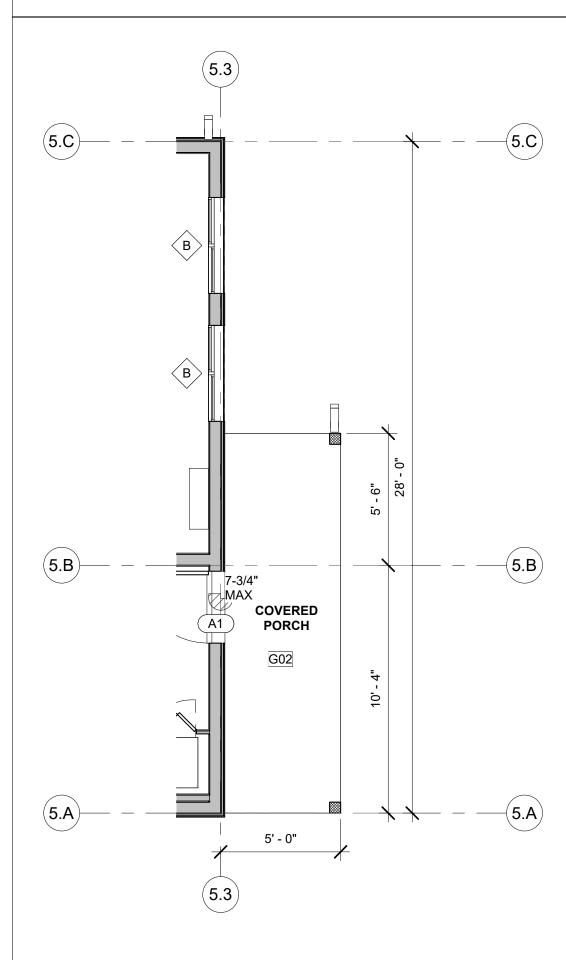
	SCHEDU	JLE-WINDO\	W PLAN 5 RU	RAL MOUNTA	IN & HIGH DE	SERT
			S	IZE	HEAD	
NO.	TYPE	COUNT	WIDTH	HEIGHT	HEIGHT	REMARKS
	·	·		·	·	·
PLAN 5	A.1	2	2' - 0"	3' - 0"	6' - 8"	
PLAN 5	В	4	4' - 0"	4' - 0"	6' - 8"	
PLAN 5	B.3	2	4' - 6"	4' - 0"	6' - 8"	1

WINDOW LEGEND

A - A.1







2 PLAN 5 HIGH DESERT OPT. A5-101 SCALE: 1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

- 1. REFER TO GENERAL NOTES SHEET G-101 AND G-102 FOR ADDITIONAL REQUIREMENTS.
- REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION. 2 REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION IF PROVIDED.
- 4. REFER TO MECHANICAL PLANS, DRAWINGS OR REPORTS FOR FURTHER INFORMATION.
- 5. ALL FURNITURE AND EQUIPMENT IS BY OWNER AND IS SHOWN FOR COORDINATION PURPOSES ONLY.
- DIMENSIONS ARE TO FACE OF FRAMING UNLESS SPECIFICALLY NOTED OTHERWISE.
- 8. PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVING AND BATHROOM FIXTURES. 9. PROVIDE FIREBLOCKING FOR WALL CAVITIES THAT EXCEED 2019 CBC
- HEIGHT LIMITATIONS 10. DOOR AND WINDOW DIMENSIONS ARE CENTERED AT OPENINGS 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 ROUGH DOOR OPENING 12. WHERE RECESSED FIXTURES OCCUR IN WALLS OR HORIZONTAL ASSEMBLIES, THE FIRE RATING OF THOSE ASSEMBLIES SHALL BE
- MAINTAINED 13. AT ALL PENETRATIONS AND INTERSECTIONS OF FIRE-RATED PARTITIONS, PROVIDE FIRE SEALANT AND/OR FIRE STOPPING TO MAINTAIN CONTINUITY OF PARTITION RATING

LEGEND

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.

EXTERIOR - 5 1/2" WOOD STUD W/ PLYWOOD SHEATHING AND

DOOR GENERAL NOTES

- REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS
- 2. REFER TO PLANS FOR LOCATION OF DOORS. 3. VERIFY ROUGH OPENING SIZE WITH DOOR MANUFACTURER SPECIFICATIONS PRIOR TO CONSTRUCTION.
- 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.
- 8. REFER TO T24 REPORT FOR GLAZING ENERGY REQUIREMENTS. 9. GLAZING IN DOORS SHALL BE TEMPERED PER SECTION R308.4.1.

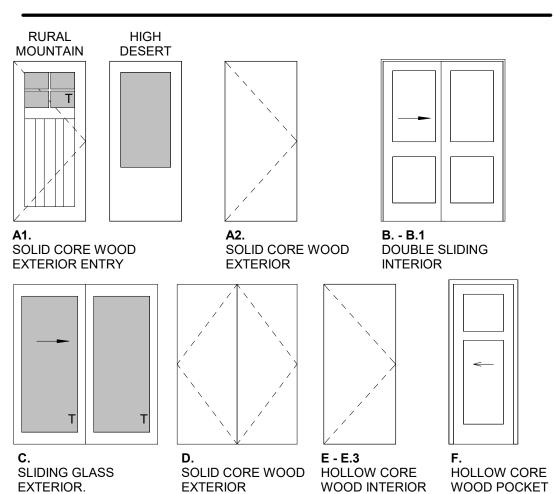
DOOR REMARKS

- 1. EXTERIOR DOOR. REFER TO GENERAL DOOR NOTE #6 2. GLAZING PER DOOR TYPES. REFER TO GENERAL DOOR NOTE #9 3. PROVIDE 100 SQ INCHES OF VENTING IN DOOR OR BY OTHER APPROVED
- MEANS.
- OPTIONAL DOOR.
 3'-0" WIDTH DOOR FOR OPTIONAL ADAPTABLE BATH.

DOOR SCHEDULE

	TYPE		OOR	DEMADIZA
NO.	TYPE	WIDTH	HEIGHT	REMARKS
		01 01		
PLAN 5	A1	3' - 0"	6' - 8"	
PLAN 5	A2	2' - 6"	6' - 8"	
PLAN 5	В	4' - 0"	6' - 8"	
PLAN 5	E.1	2' - 6"	6' - 8"	
PLAN 5	E.2	2' - 6"	6' - 8"	
		SCHEI	DULE-DOOR PLAN 5 A	
		1	DULE-DOOR PLAN 5 A	ADA
NO.	ТҮРЕ	1		ADA Remarks
NO.	ТҮРЕ	WIDTH	HEIGHT	
	TYPE	C	OOR	
PLAN 5		WIDTH	HEIGHT	
PLAN 5 PLAN 5	A1	UIDTH	000R HEIGHT 6' - 8"	
PLAN 5 PLAN 5 PLAN 5	A1 A2	UIDTH 3' - 0" 2' - 6"	000R HEIGHT 6' - 8" 6' - 8"	
NO. PLAN 5 PLAN 5 PLAN 5 PLAN 5 PLAN 5	A1 A2 B	WIDTH 3' - 0" 2' - 6" 4' - 0"	HEIGHT 6' - 8" 6' - 8" 6' - 8"	

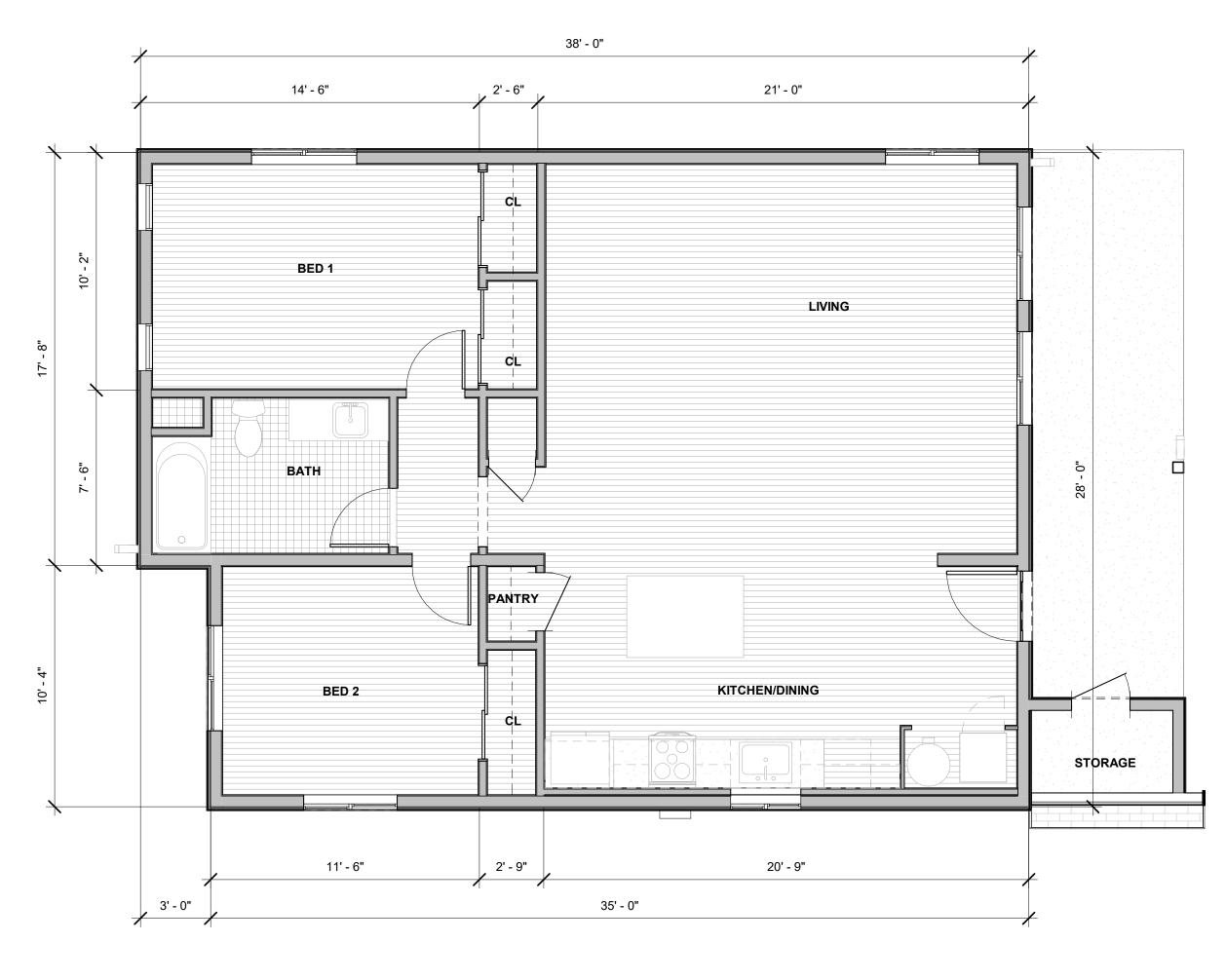
DOOR LEGEND



rrmdesign.com 3765 SOUTH HIGUE SAN LUIS OBI THE INCLIDED DRAWINGS, SPECIFICATIR REFRESENTED THEREDY ARE AND SHALL USED IN CONNECTION WITH ANY WOR PROJECT FOR WHICH THEY HAVE BEEN WRITTEN CONSENT OF RRM DESIGN GROU OR SPECIFICATIONS SHALL CONSTITUTE THESE RESTRICTIONS, SHALL CONSTITUTE THESE RESTRICTIONS, SHALL CONSTITUTE THESE RESTRICTIONS, SHALL CONSTITUTE SHALL NOT BE CONSIDERED A WAN RRM DESIGN GROU	A STREET, SUITE 102 SPOOL STREET SPOOL STRE
AGENCY	
MONO COUNTY ADU PROTOTYPES MONO COUNTY	FLOOR PLAN / DOOR WINDOW SCHEDULES
NO. REVISION	DATE
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GROUND FLOOR FINISH PLAN

1

A1-201 A5-102 SCALE: 1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

- 1. REFER TO GENERAL NOTES SHEET G-101 AND G-102 FOR ADDITIONAL REQUIREMENTS.
- 2. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION. 3. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION IF PROVIDED. 4. REFER TO MECHANICAL PLANS, DRAWINGS OR REPORTS FOR FURTHER
- INFORMATION. 5. ALL FURNITURE AND EQUIPMENT IS BY OWNER AND IS SHOWN FOR
- COORDINATION PURPOSES ONLY. 7. DIMENSIONS ARE TO FACE OF FRAMING UNLESS SPECIFICALLY NOTED
- OTHERWISE. 8. PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVING AND BATHROOM FIXTURES. 9. PROVIDE FIREBLOCKING FOR WALL CAVITIES THAT EXCEED 2019 CBC
- HEIGHT LIMITATIONS 10. DOOR AND WINDOW DIMENSIONS ARE CENTERED AT OPENINGS 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 ROUGH DOOR OPENING 12. WHERE RECESSED FIXTURES OCCUR IN WALLS OR HORIZONTAL
- ASSEMBLIES, THE FIRE RATING OF THOSE ASSEMBLIES SHALL BE MAINTAINED 13. AT ALL PENETRATIONS AND INTERSECTIONS OF FIRE-RATED PARTITIONS, PROVIDE FIRE SEALANT AND/OR FIRE STOPPING TO MAINTAIN CONTINUITY

KEYNOTES

OF PARTITION RATING

design rrmdesign.com | (805) 543-1794 3765 SOUTH HIGUERA STREET, SUITE 102 3765 SOUTH HIGUERA STREET, SUTTE 102 SAN LUTS OBJSPO, CA 93401 THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S ROMS

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AGENCY

FINISH PLAN GENERAL NOTES

- 1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS.
- 2. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION. 3. REFER TO PLUMBING PLANS FOR FURTHER INFORMATION.
- 4. REFER TO DETAILS FOR FLOOR/CEILING ASSEMBLIES AND INTERIOR FINISH DETAILS.
- 5. ALL HARD SURFACE FLOORING SHALL BE SLIP RESISTANT AND MEET THE ANSI A326.3 STANDARD FOR MEASURING THE DYNAMIC COEFFICIENT OF FRICTION (DCOF).
- 6. ALL FLOORING MATERIALS SHALL COMPLY WITH 2019 CBC SEC. 804.1. 7. ALL WALL AND CEILING FINISHES SHALL COMPLY WITH 2019 CBC TABLE 803.13 FOR MAXIMUM FLAME SPREAD AND SMOKE DENSITY.

FINISH SCHEDULE

	FI	NISH SCHE	DULE PLAN	2	
NUMBER	NAME	FLOOR	CEILING	BASE	NOTES
109	BEDROOM	CPT	GWB		
110	LIVING	LVT	GWB		
111	KITCHEN	LVT	GWB		
112	BATH	СТ	GWB		
113	W.I.C.	CPT	GWB		

FINISH LEGEND

CERAMIC TILE (CT)

LUXURY VINYL PLANK (LVP)

CONCRETE (EC)

LEGEND

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.

MONO COUNTY ADU PROTOTYPES MONO COUNTY	FINISH PLAN
NO. REVISION	DATE
PROJECT MANAGE	R
RR Drawn by	CHECKED BY
DATE 6/30/2022 PROJECT NUMBER 2340-0	1-CU21
sheet A5-	-102



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GENERAL ELECTRICAL NOTES

1. REFER TO ELECTRICAL NOTES ON SHEET G-101.

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. 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. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. PROVIDE OUTLET. B44 GFI PROTECTED RECEPTACLE TO BE LOCATED 12" BELOW THE COUNTERTOP
- WHERE COUNTERTOP DOES NOT EXTEND MORE THAN 6" BEYOND ITS SUPPORT BASE. B45 OUTLET SERVING WATER HEATER SHALL BE ACCESSIBLE TO THE WATER HEATER WITH NO OBSTRUCTION. LOCATE OUTLET AT 72" A.F.F.

VENTILATION SUMMARIES

PER ASHRAE Standard 62.2, Table 7.1 (Prescriptive Duct Sizing Requirements) (Table 7.1 Assumes no elbows. Deduct 15-feet of allowable duct length for each turn, elbow or fitting. Fan rating cfm @ 0.25 in w.g., and rated at less than one sone.)

LOCAL VENTILATION RATE SUMMARY - BATHROOM(S) Bathroom Minimum Fan Flow (cfm) = 50 cfm Per Table 7.1, Duct Size = 4" Diameter; Flex Duct Maximum Allowable Duct Length (ft) =70'

LOCAL VENTILATION RATE SUMMARY - KITCHEN Kitchen Minimum Fan Flow (cfm) = 100 cfm Per Table 7.1, Duct Size= 5" Diameter; Smooth Duct Maximum Allowable Duct Length (ft) = 85 Feet

LOCAL VENTILATION RATE SUMMARY - WHOLE BUILDING Per ASHRAE Standard 62.2 Equation 4.1(a)

> EXHAUST DUCT SIZE Qcfm = .01(floor area) + 7.5 (# of bedrooms + 1) 2-BEDROOM $\overline{\text{Qcfm}} = .01(1,033) + 7.5(2+1)$ Qcfm = 32.83

DUCT SIZE PER ASHRAE TABLE 7.1 REFER TO LEGEND FOR WHOLE HOUSE FAN (WH)

CONTINOUS FAN FLOW (CFM) = 50 CFM Per Table 7.1, Duct Size= 4" Diameter; Smooth duc Maximum Allowable Duct Length (ft) = 35' OR Per Table 7.1, Duct Size= 4" Diameter; FLEX DUCT Maximum Allowable Duct Length (ft) = 70'

LEGEND

- ELECTRICAL SWITCH • SMOKE SD DETECTOR/ALARM SWITCH-THREE WAY ⁴ ELECTRICAL SWITCH-FOUR WAY **¢**os ELECTRICAL SWITCH-VACANCY SENSOR Т SWITCH-DIMMER [↓] SWITCH-FAN TIME SWITCH EXHAUST FAN COMBINATION O PENDANT LIGHT ⊖ SURFACE ^{FL} MOUNTED HIGH-EFFICACY LIGHT ↔ WALL MOUNTED LIGHT +84 WALL MOUNTED HIGH-EFFICACY LIGHT RECESSED DOWNLIGHT ⊕ RECESSED ^{FL} HIGH- EFFICACY DOWNLIGHT
 - COMBINATION SD/MA SMOKE/CARBON MONOXIDE CHIME DOOR BELL CHIME PB DOOR BELL **BUTTON/GARAGE** DOOR OPENER
 - TELEPHONE LOCATION
 - TV CABLE TELEVISION
 - ③ ELECTRICAL JUNCTION BOX

 - CEILING FAN OPTIONAL (PRE WIRE FOR FAN ONLY)
- PANEL 120V OUTLET



CONSULTANT

AGENCY

NO. REVISION DATE

- BUTTON LOCATION
 - **CEILING**
 - - CEILING ACCESS

GROUND FAULT INTERRUPTER 120 VOLTS DUPLEX OUTLET GROUND FAULT INTERRUPTER

GFI

120V

GFI DUPLEX OUTLET WATERPROOF GROUND FAULT

DUPLEX OUTLET ARC-FAULT

INTERRUPTER

DUPLEX OUTLET

DUPLEX OUTLET

CIRCUIT

240 VOLTS

- INTERRUPTER DUPLEX OUTLET GFCI-HALF HOT
- DUPLEX OUTLET MICROWAVE
- DUPLEX OUTLET DISH WASHER
- COLD WATER CW STUB OUT
- HOT WATER STUB OUT
- ICE MACHINE
- SURFACE MOUNTED = = = = HIGH-EFFICACY LIGHT
 - HIGH-EFFICACY LIGHT 22"X30" MIN.

FAN COIL, PROVIDE DEDICATED

- EXHAUST EXHAUST FAN/LIGHT

- RECESSED DOWNLIGHT-VAPOR PROOF

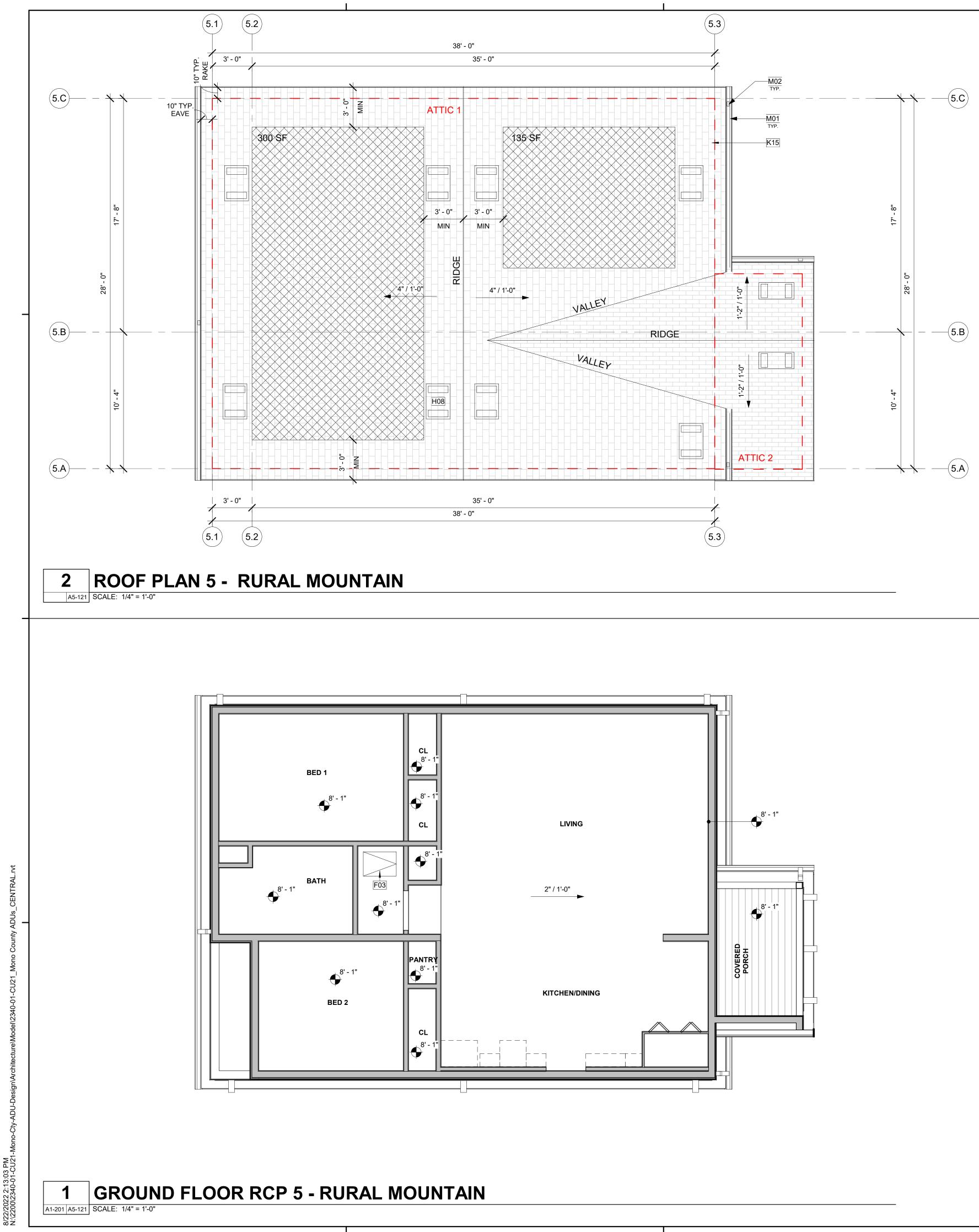
WIRING

ELECTRICAL

- - = = = =

- GAS STUB OUT

- □ □ UNDER CABINET
- HB WATER HOSE BIBB
- SOV WATER HOSE BIBB WITH SHUT OF
- VALVE
- STUB OUT



ROOF VENTING CALCULATIONS

UPPER VENTS: O'HAGIN TAPERED LOW PROFILE STANDARD LINE 72.0 SQ.IN OF AIR MOVEMENT PER VENT = 72. SQ.IN. / 144 = 0.5 SF LOWER VENTS: O'HAGIN TAPERED LOW PROFILE STANDARD LINE

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	ATTIC AREA VENTING (NF			C UPPER VEN REQUIRED		LOWER VENTING REQUIRED (NFA)	
ATTIC 1 - PLAN 5	1064 SF	3.55 SF		1.77 SF		1.77 SF	
ATTIC 2 - PLAN 5	98 SF	0.33 SF		0.16 SF		0.16 SF	
	VENT TYPE		COUNT	VENT LENGTH	ARE	FREE A PER ENT	PROVIDEI NET FREE AREA
ATTIC 1 - P LOWER O'HAGIN S	LAN 5 HINGLE ROOF	VENT	4	2' - 8"	0.50 S	F	2.00 SF
(LOWER) UPPER							
O'HAGIN S (UPPER)	HINGLE ROOF	VENT	4	2' - 8"	0.50 S	F	2.00 SF
. ,	I AN 5		1	1			4.00 SF
ATTIC 2 - P LOWER							
LOWER O'HAGIN S (LOWER)	HINGLE ROOF	VENT	1	2' - 8"	0.50 S	F	0.50 SF
LOWER O'HAGIN S (LOWER) UPPER			1	2' - 8" 2' - 8"	0.50 S		0.50 SF

KEYNOTES

F03

30" 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.

ROOF PLAN GENERAL NOTES

- 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. 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.
- 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 (2019 CBC 1507.1), AND MANUFACTURER'S INSTALLATION INSTRUCTIONS
- 12. WHERE PROVIDED, VENTILATION OPENINGS SHALL BE IN ACCORDANCE WITH (2019 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 (2019 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

- + 10'-0" HEIGHT OF TOP OF ROOFING SURFACE
- 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 SHEET G-101.

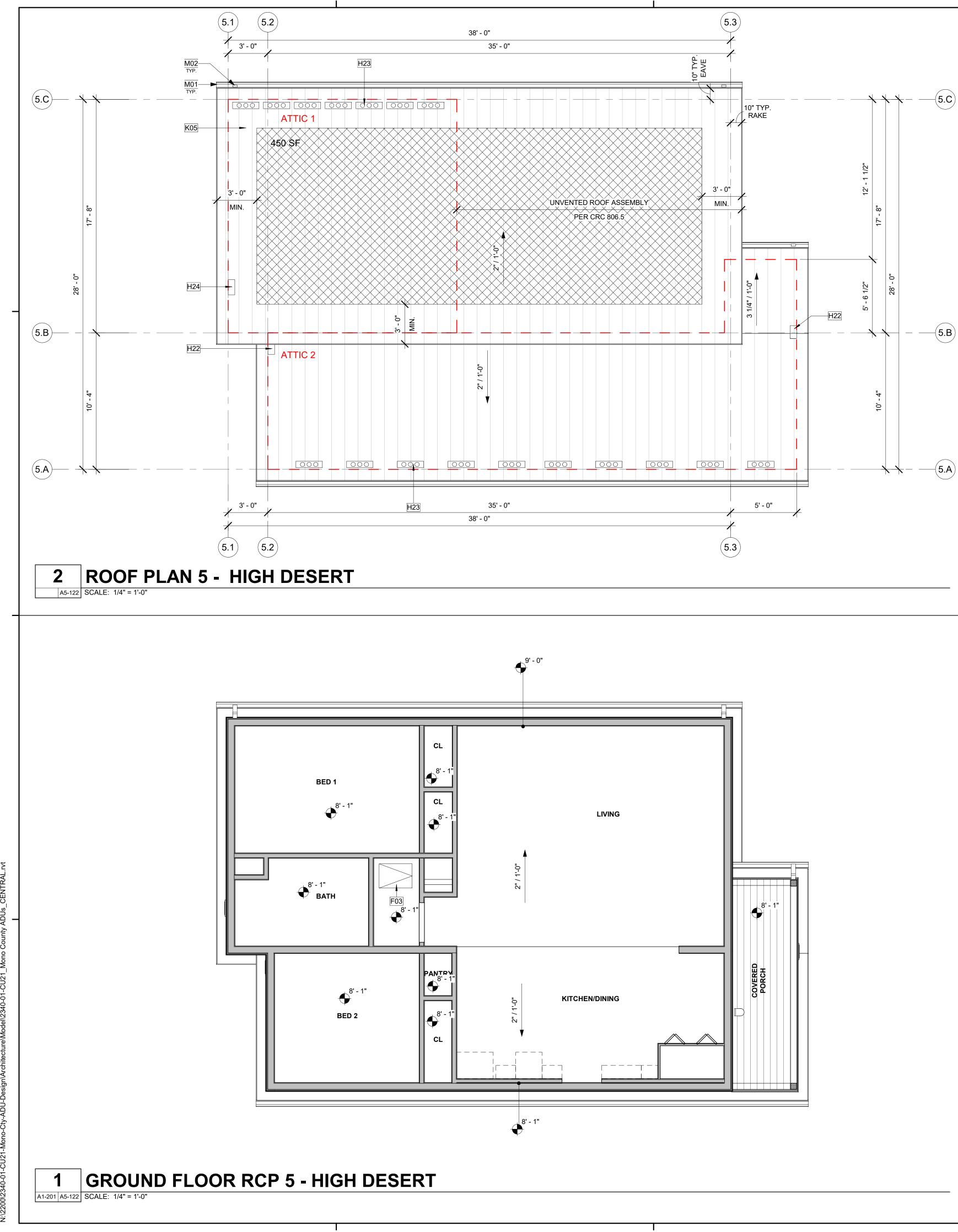
RCP GENERAL NOTES

- 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. 4. REFER TO DETAILS FOR FLOOR/CEILING ASSEMBLIES.
- 5. 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



10' - 0" HEIGHT OF CEILING SURFACE $\mathbf{\Theta}$ (REFER TO PLANS FOR ACTUAL HEIGHT) 2" / 12" CEILING SLOPE (REFER TO PLANS FOR ACTUAL SLOPE) INTERIOR CEILING FINISH. REFER TO FINISH SCHEDULE. EXTERIOR 7/8" 3-COAT CEMENT PLASTER CEILING. 1HR FIRE-RESISTANCE PER CBC TABLE 721.1(1) ITEM 1-4.1 EXTERIOR FIBER CEMENT BOARD CEILING. HARIE SOFFIT PANELS - BEADED PORCH PANEL OR EQ.

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AGENCY
ROOF PLAN & RONTY ADU PROTOTYPES MONO COUNTY ROOF PLAN & RCP - RURAL MOUNTAIN
NO. REVISION DATE
PROJECT MANAGER RR DRAWN BY CHECKED BY DATE 6/30/2022 PROJECT NUMBER 2340-01-CU21



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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" = (TOTAL ATTIC AREA/300) * (0.5) / (0.40 SF) "LOWER VENTS PROVIDED" = (TOTAL ATTIC AREA/300) * (0.5) / (0.08 SE)

ATTIC	AREA		RED ATTIC NG (NFA)	UPPER VEN REQUIRED			R VENTING JIRED (NFA)
ATTIC 1 - PLAN 5	305 SF	1.02 SF		0.51 SF		0.51 SF	
ATTIC 2 - PLAN 5	444 SF	1.48 SF		0.74 SF		0.74 SF	
	VENT TYPE		COUNT	VENT LENGTH	ARE	FREE A PER ENT	PROVIDEI NET FREE AREA
					-		/ (1 ()=/ (
LOWER			7				
()	ELAN 5		7	2' - 0"	0.08 S		0.56 SF
LOWER (3) 3" HOLE UPPER		VENT				F	
LOWER (3) 3" HOLE UPPER 14X17.5 VU	ES (LOWER)	VENT		2' - 0"	0.08 SI	F	0.56 SF
LOWER (3) 3" HOLE UPPER 14X17.5 VL (UPPER) ATTIC 2 - P LOWER (3) 3" HOLE	ES (LOWER)	VENT	1	2' - 0"	0.08 SI	F	0.56 SF
LOWER (3) 3" HOLE UPPER 14X17.5 VL (UPPER) ATTIC 2 - P LOWER (3) 3" HOLE UPPER	ES (LOWER) JLCAN GABLE PLAN 5		1	2' - 0" 1' - 2"	0.08 SI	F F F	0.56 SF 0.60 SF 1.16 SF

KEYNOTES

F03

30" 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.

ROOF PLAN GENERAL NOTES

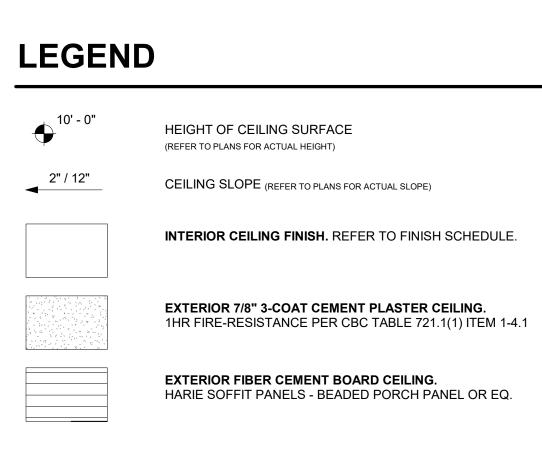
- REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS
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 REFER TO MECHANICAL PLANS FOR ROOF MOUNTED EQUIPMENT
- LOCATIONS AND TYPES. 4. REFER TO ELECTRICAL PLANS FOR POWER DISTRIBUTION TO ROOF
- MOUNTED EQUIPMENT. 5. REFER TO PLUMBING PLANS ROOF VENT DENETRATIONS
- 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.
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- 11. ROOF COVERINGS AND UNDERLAYMENT SHALL BE APPLIED IN ACCORDANCE WITH (**2019 CBC 1507.1**), AND MANUFACTURER'S INSTALLATION INSTRUCTIONS
- 12. WHERE PROVIDED, VENTILATION OPENINGS SHALL BE IN ACCORDANCE WITH (**2019 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 (**2019 CBC 1202.2.2**.)
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LEGEND

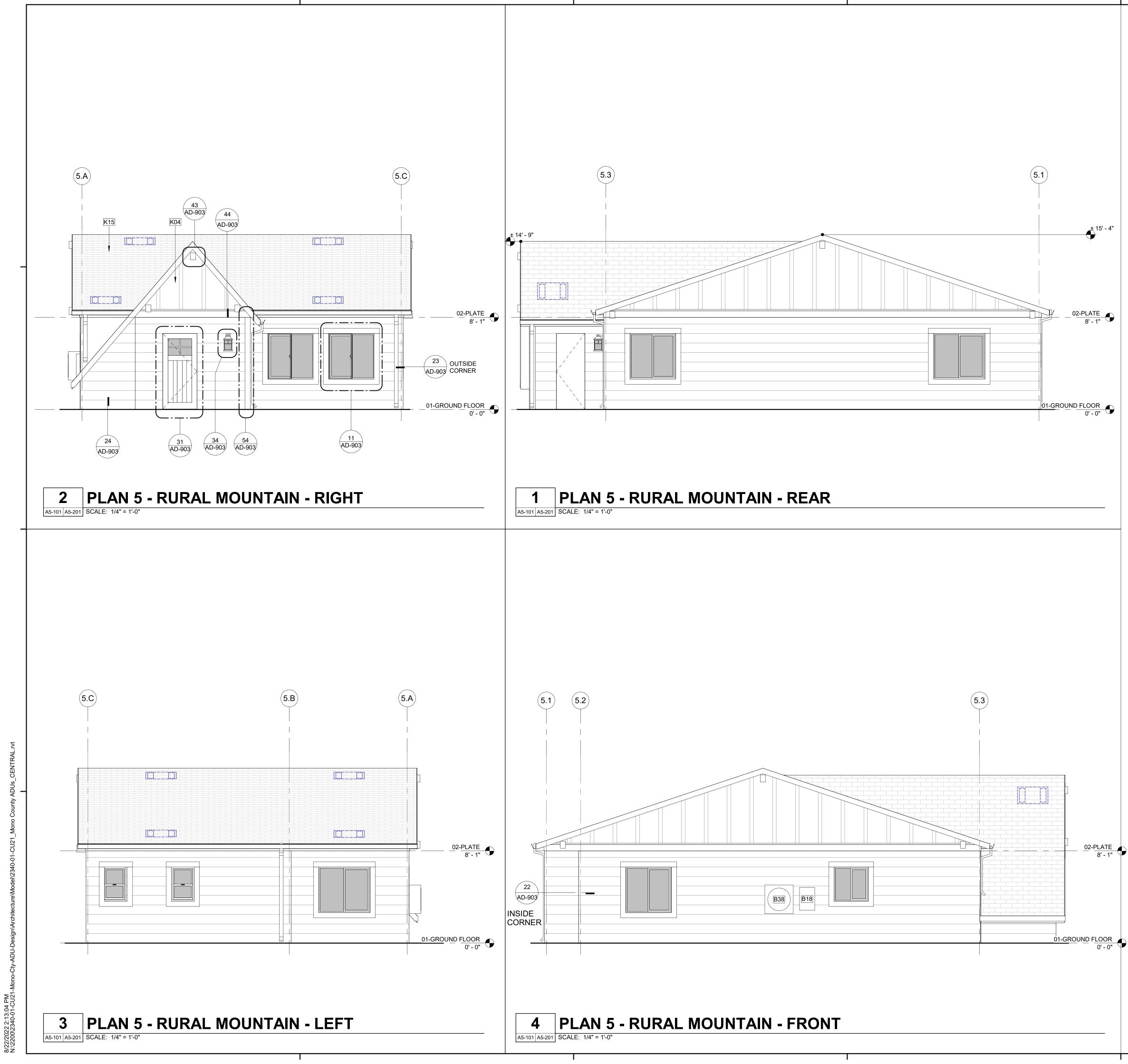
- HEIGHT OF TOP OF ROOFING SURFACE
- 2" / 12" ROOF SLOPE (REFER TO PLANS FOR ACTUAL SLOPE)
- O'HAG
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- - GUTTER, CONNECT TO DOWNSPOUT —DOWNSPOUT, TO ROOF OR SPLASHBLOCK BELOW U.N.O.
- SOLAR ZONE. REFER TO SOLAR READY NOTES ON SHEET G-101.

RCP GENERAL NOTES

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DATE 6/30/2022 PROJECT NUMBER 2340-01	I-CU21	
sheet A5-	122	



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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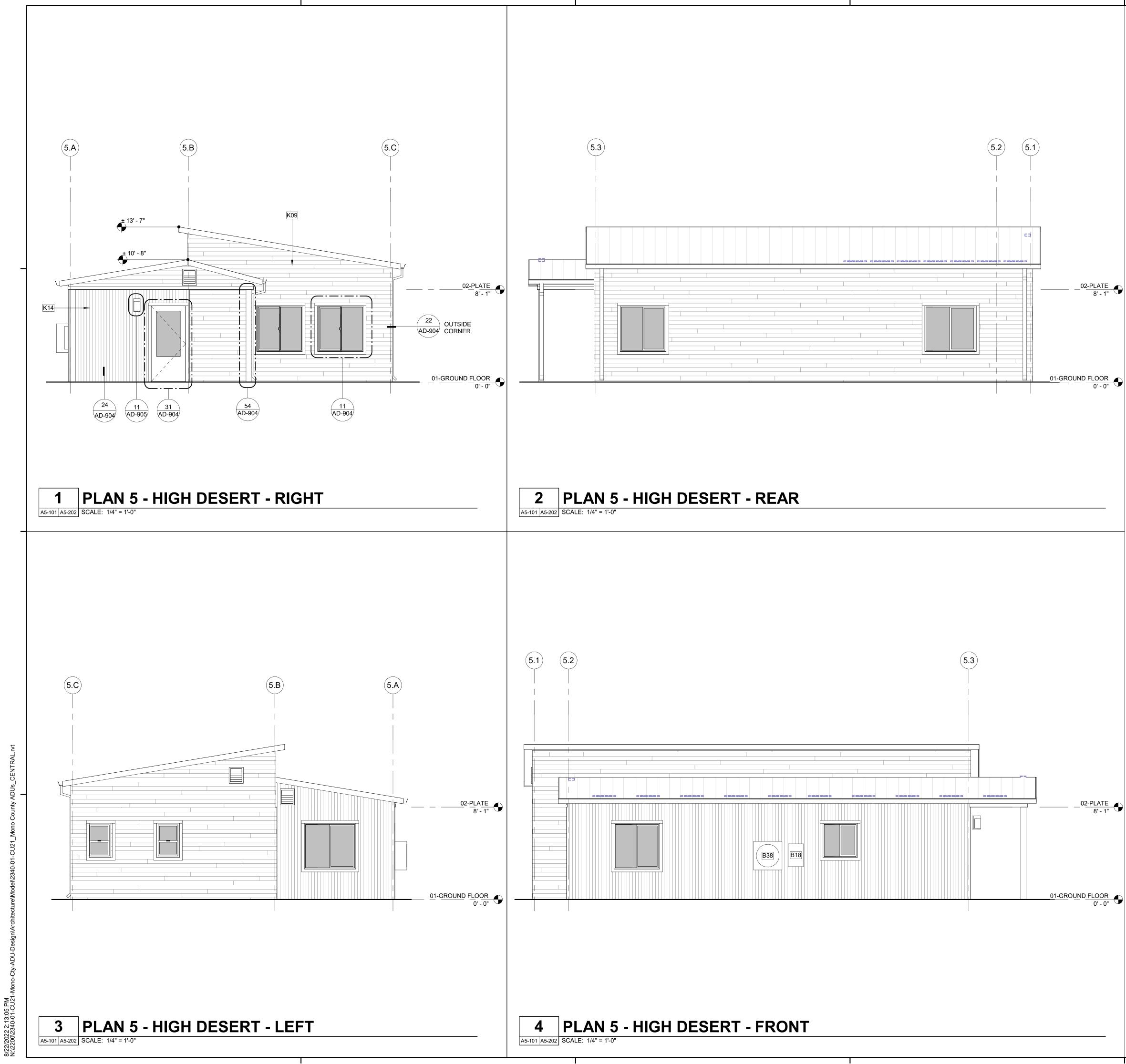
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KEYNOTES

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

MONO COUNTY ADU PROTOTYPES MONO COUNTY	EXTERIOR ELEVATION - RURAL MOUNTAIN
NO. REVISION	DATE
PROJECT MANAGER RR DRAWN BY	
DATE	
6/30/2022	
project number 2340-01	-CU21
SHEET A 5-	201



ELEVATION GENERAL NOTES

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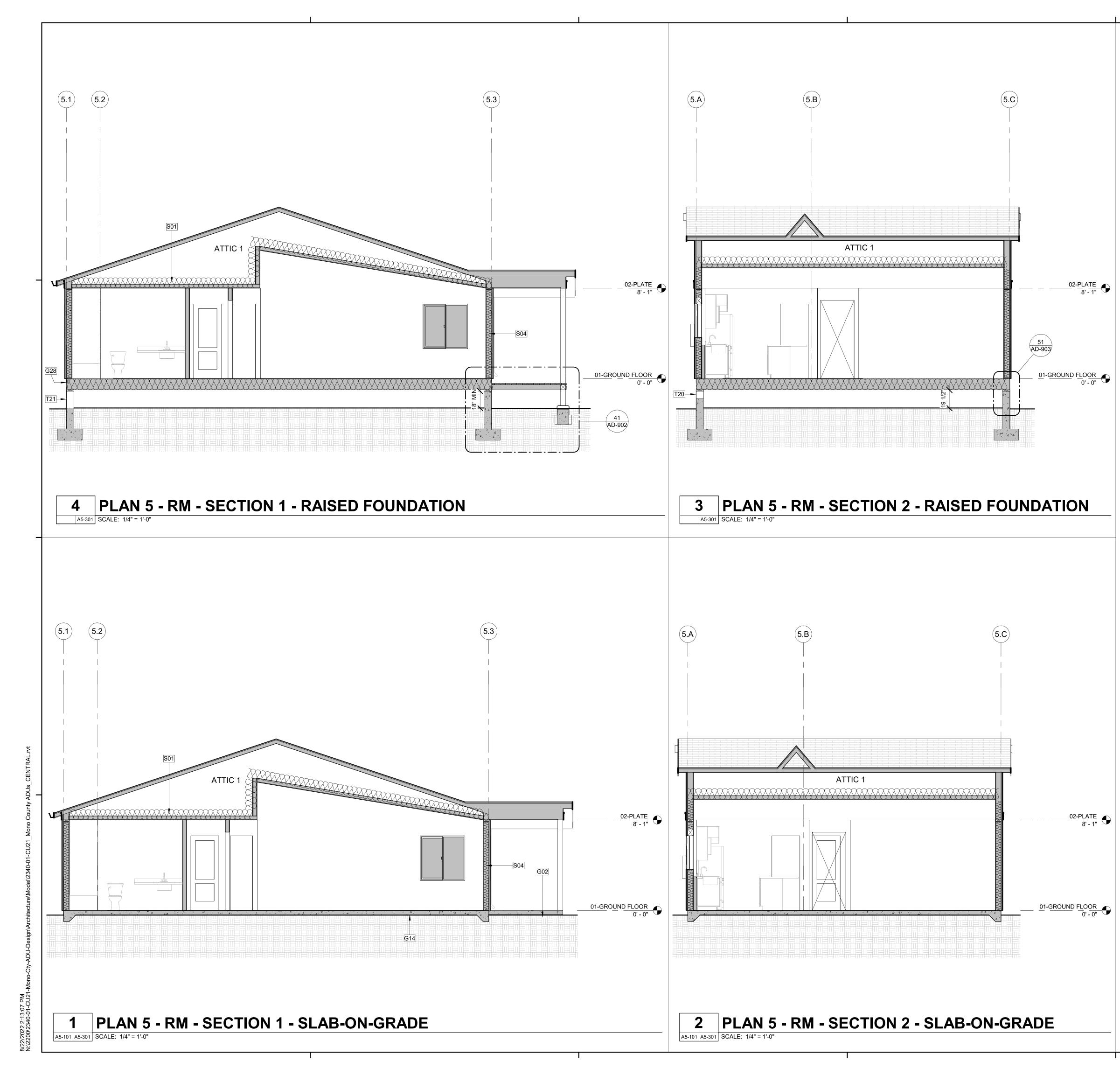
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AGENCY

KEYNOTES

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MONO COUNTY ADU PROTOTYPES MONO COUNTY	EXTERIOR ELEVATION - HIGH	
NO. REVISION		DATE
PROJECT MANAGER	2	
DRAWN BY	CHECKED I	BY
6/30/2022 PROJECT NUMBER		
2340-0	1-CU2	1
sheet A5-	202	2



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.
- WALL ASSEMBLIES TO BE PER FLOOR PLAN.
 DOORS AND WINDOWS TO BE PER APPLICABLE SCHEDULE. REFER TO
- FLOOR PLANS FOR IDENTIFICATION.
- 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 2019
- CRC SECTION R302.11:
- A. SECTINON 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
- VERTICALLY AT CEILING AND FLOOR LEVELS
 HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET.
 AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND
- HORIZONTAL SPACES SUCH AS SOFFITS, DROP CEILINGS AND COVE CEILINGS.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.
- FOR THE FIREBLOCKING OF CHIMNEYS AND FIREPLACES, SEE SECTION R1003.19.
 EIDERLOCKING OF CORNICES OF A TWO FAMILY DWELLING IS
- FIREBLOCKING OF CORNICES OF A TWO-FAMILY DWELLING IS REQUIRED AT THE LINE OF DWELLING-UNIT SEPARATION.
 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
- ONE-HALF-INCH GYPSUM BOARD
 ONE-FOURTH-INCH CEMENT-BASED MILLBOARD
- ONE-FOURTH-INCH CEMENT-BASED MILLBOARD
 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 F119 OR UIL 263 FOR THE SPECIFIC APPLICATION

WITH ASTM E119 OR UL 263, FOR THE SPECIFIC APPLICATION. PER **2019 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 BURABLE OR PRESERVATIVE-TREATED WOOD.

KEYNOTES

AT [SLAB ON GRADE] CONCRETE FLATWORK. 1/4"/FT SLOPE AWAY G02 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. G14 4" CONCRETE SLAB ON GRADE, REFER TO STUCTURAL PLANS RAISED FLOOR FOUNDATION. REFER TO STRUCTURAL. G28 S01 CEILING INSULATION. REFER TO TITLE 24 (R-38 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 1208.1 LOCATION DETERMINED ON SITE PER CONTRACTOR.

FOUNDATION VENTING CALCS

NOTE:

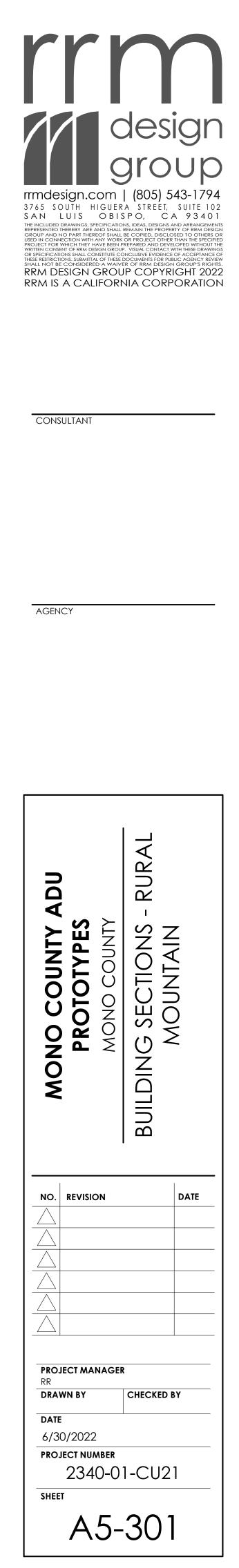
PER **2019 CBC 1202.4**, THE SPACE BETWEEN THE BOTTOM OF THE FLOOR JOISTS AND THE EARTH UNDER ANY BUILDING EXCEPT SPACES OCCUPIED BY BASEMENTS OR CELLARS SHALL BE PROVIDED WITH VENTILATION. REFER TO UNDER-FLOOR VENTING NOTES ON SHEET G-101 FOR ADDITIONAL INFORMATION.

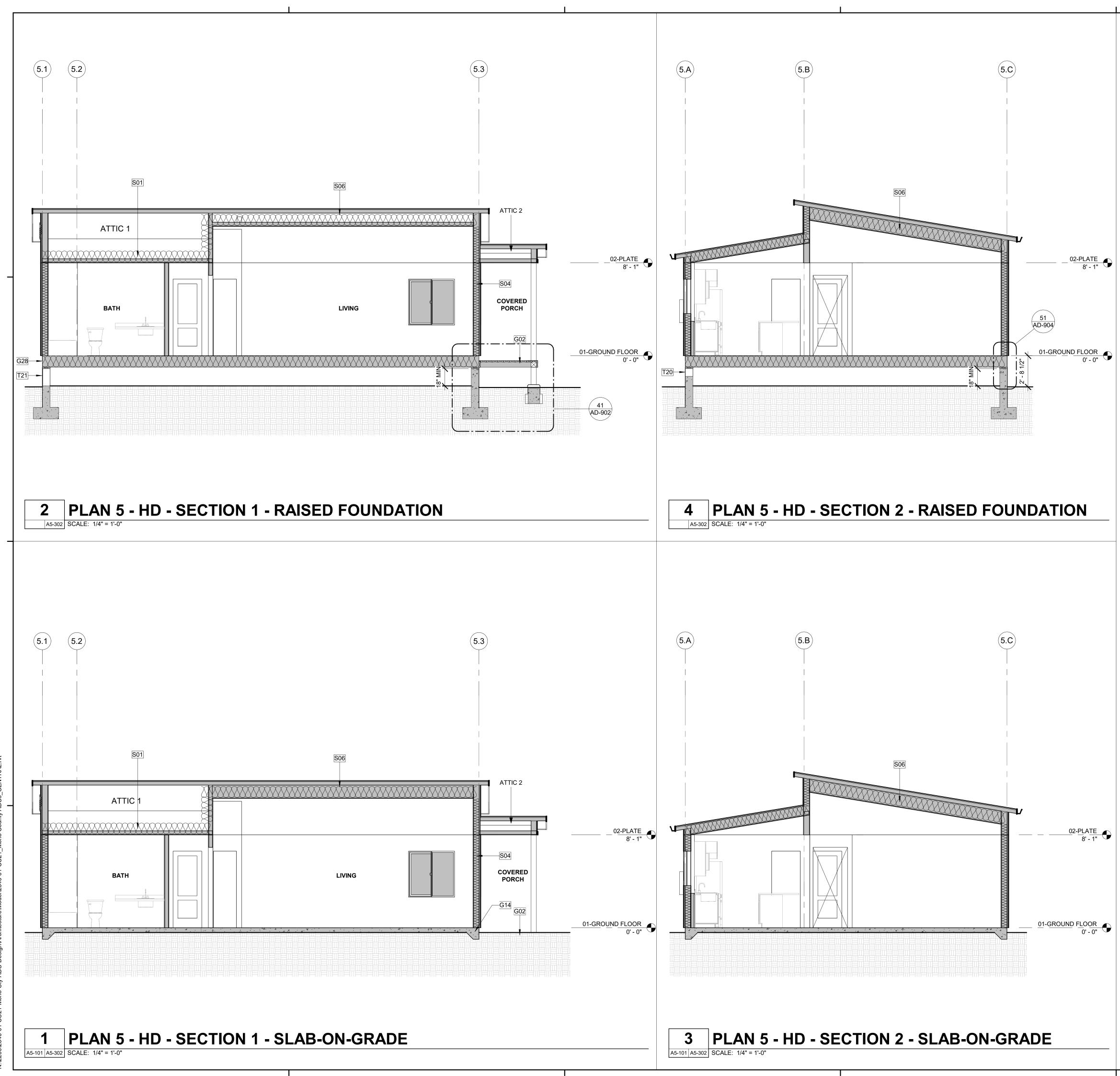
UNDER-FLOOR CALCULATION FORMULA NFA OF AIR MOVEMENT PER VENT = 62 SQ.IN./144 IN./FT = 0.430 SF "VENTS PROVIDED" = (451/150) / 0.430 SF

VENT PRODUCT INFO

VENT MANUFACTURER: *VULCAN VENTS* PRODUCT: 8" X 14" FLANGE FRONT OR APPROVED EQUAL <u>WWW.VULCANVENTS.COM</u>

UNDER-FLOOR AREA (SF)	FOUN	QUIRED IDATION IG @ 1/150		IDATION REQUIRED	-	OUNDATION
1033 SF	6.886667		17			
LOCATION	BALCONY AREA (SF)	REQUIRED E	BALCONY		STH	VENT LENGH PROPOSED
ENTRY	186 SF	1.241727		3		3





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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.
- WALL ASSEMBLIES TO BE PER FLOOR PLAN.
 DOORS AND WINDOWS TO BE PER APPLICABLE SCHEDULE. REFER TO
- FLOOR PLANS FOR IDENTIFICATION.INSULATION: REFER TO TITLE 24 REPORT AND "INSULATION" NOTES ON
- 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 2019
- CRC SECTION R302.11: A. SECTINON R302.11 -
- 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:
 VERTICALLY AT CEILING AND FLOOR LEVELS
 HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET.
- 2. AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS SOFFITS, DROP CEILINGS AND COVE CEILINGS.
- IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. ENCLOSED SPACES UNDER STAIRS SHALL COMPLY WITH SECTION R302.7.
- AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES AND WIRES AT CEILINGS AND FLOOR LEVEL, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME PRODUCTS OF COMBUSTION. THE MATERIAL FILLING THIS ANNULAR SPACE SHALL NOT BE REQUIRED TO MEET THE ASTM E136 REQUIREMENTS.
- FOR THE FIREBLOCKING OF CHIMNEYS AND FIREPLACES, SEE SECTION R1003.19.
 FIREBLOCKING OF CORNICES OF A TWO-FAMILY DWELLING IS
- REQUIRED AT THE LINE OF DWELLING-UNIT SEPARATION. SECTION R302.11.1 - FIREBLOCKING MATERIALS SHALL CONSIST OF
- FOLLOWING MATERIALS: 1. TWO-INCH NOMINAL LUMBER 2. TWO THICKNESSES OF ONE-INCH NOMINAL LUMBER WIT
- 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
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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 1208.1. LOCATION DETERMINED ON SITE PER CONTRACTOR.

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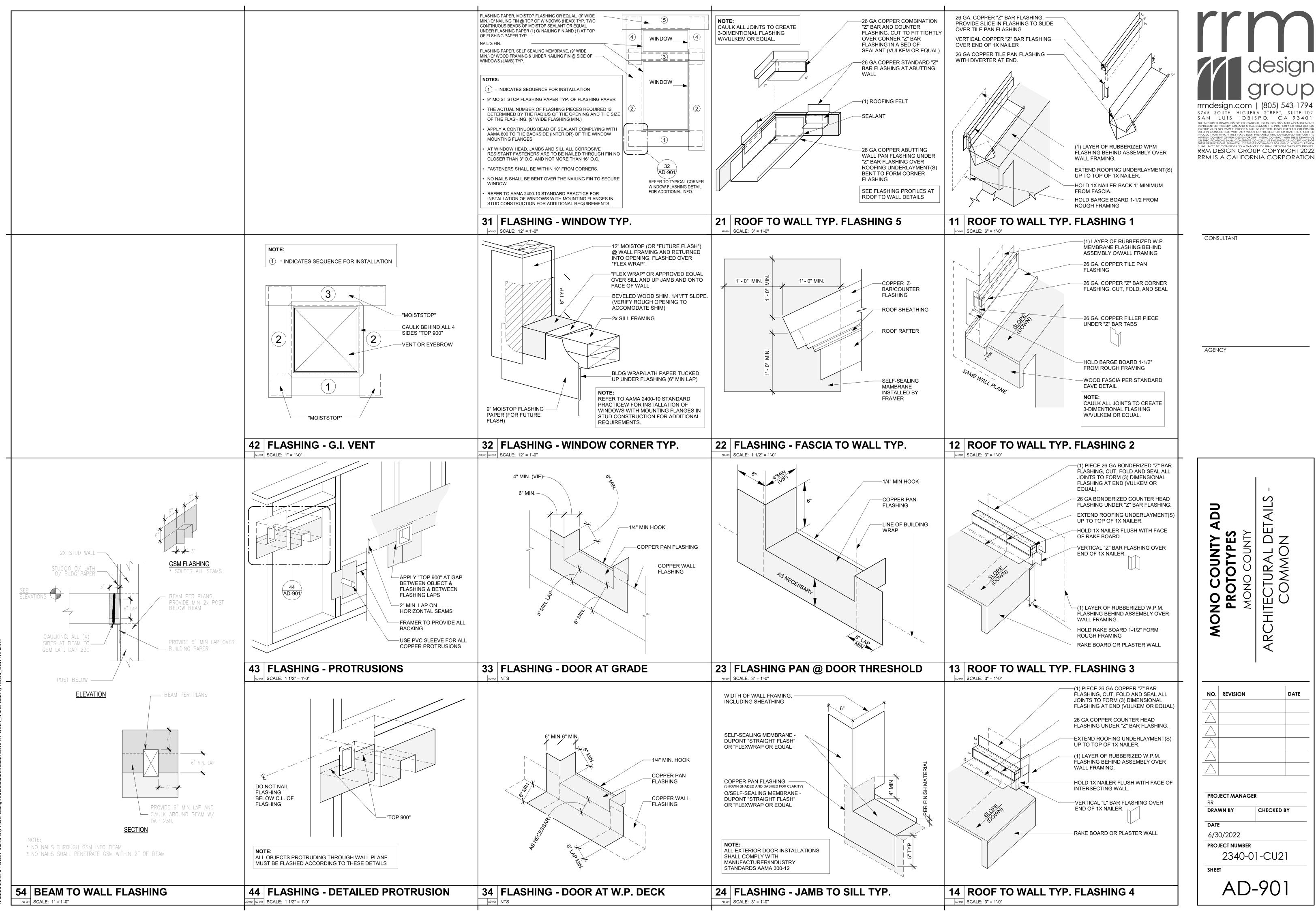
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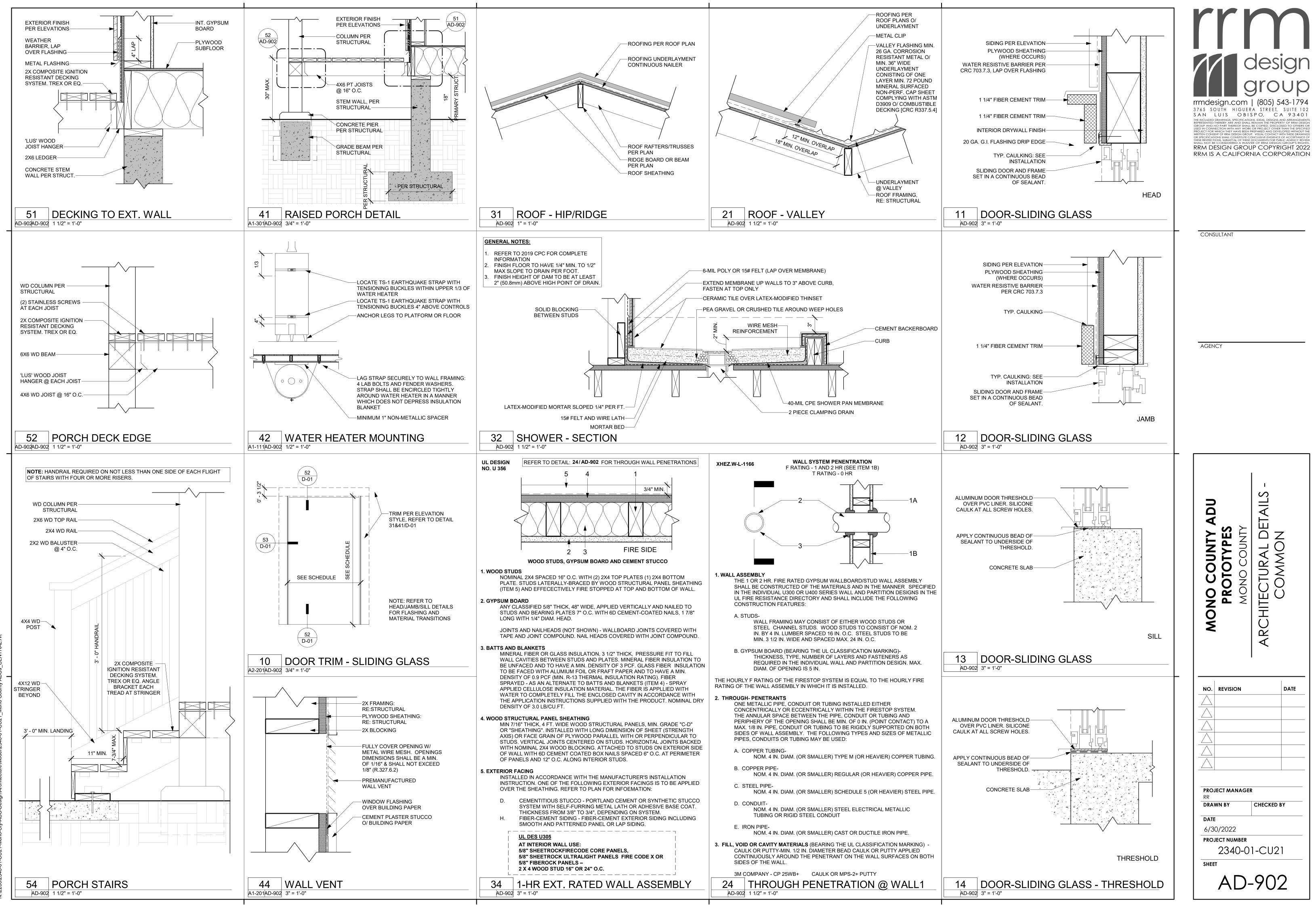
UNDER-FLOOF AREA (SF)	R FOUN	QUIRED NDATION IG @ 1/150		IDATION REQUIRED	-	OUNDATIO
1033 SF	6.886667		17			
VE	NTING-POR	CH- CALCULA	ATION - PL/	AN 5 - HIGH I	DESE	RT
LOCATION	BALCONY AREA (SF)	REQUIRED VENTING		VENT LENG	-	VENT LEN PROPOS
ENTRY	79 SF	0.527778		2		2

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MONO COUNTY ADU PROTOTYPES MONO COUNTY	Building Sections - High Desert
	DATE
PROJECT MANAGER RR DRAWN BY DATE 6/30/2022 PROJECT NUMBER 2340-0 SHEET	CHECKED BY

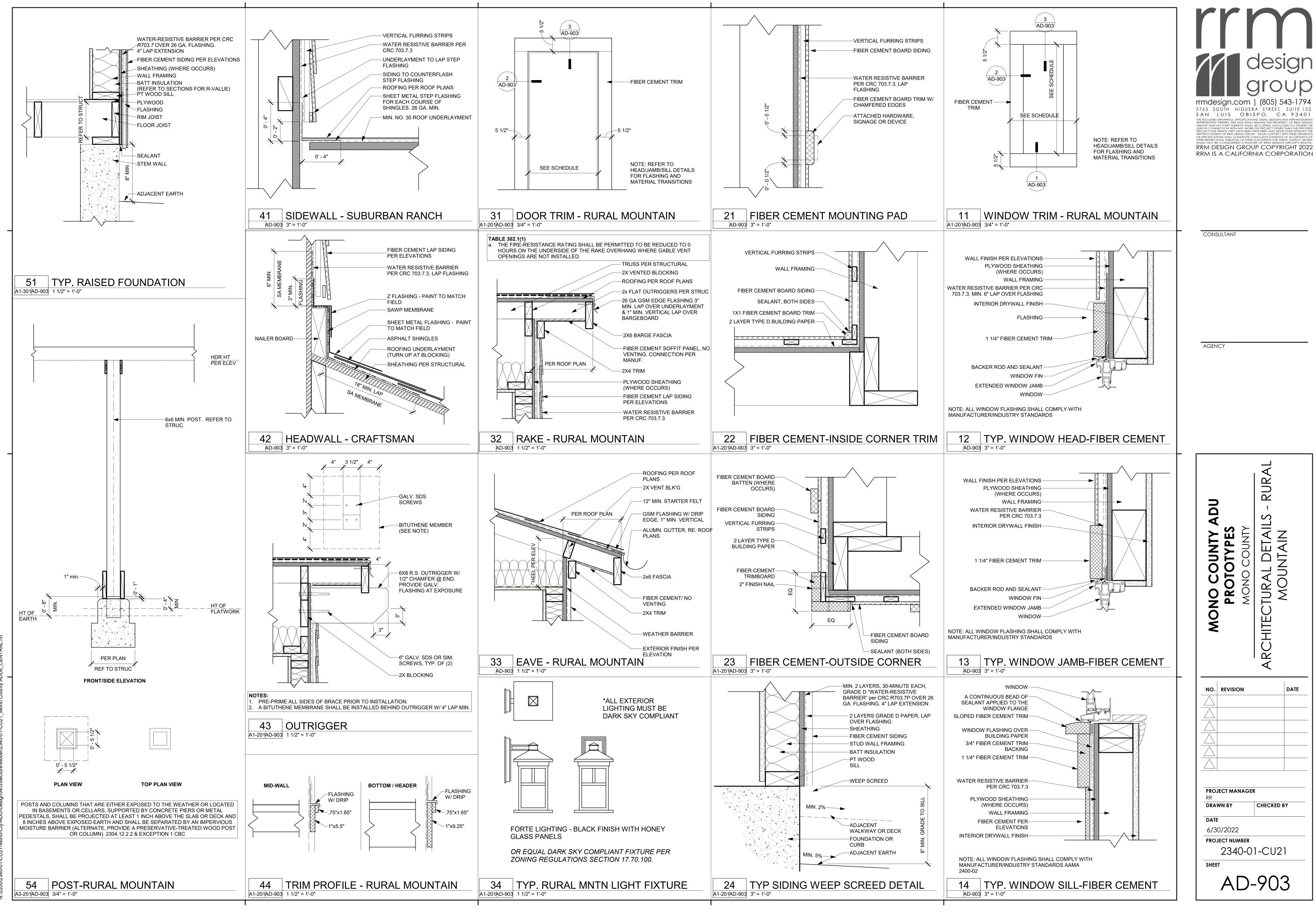
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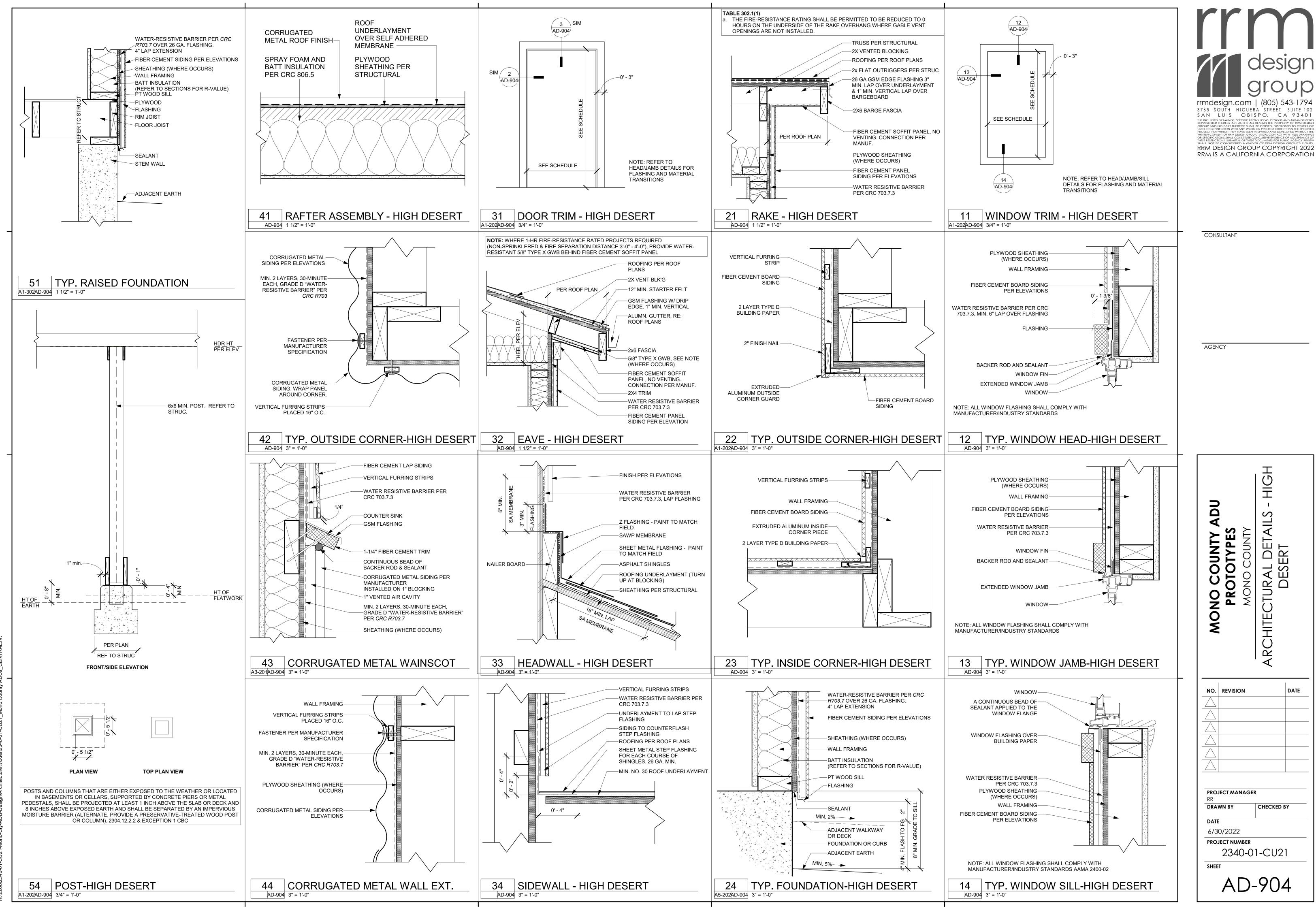
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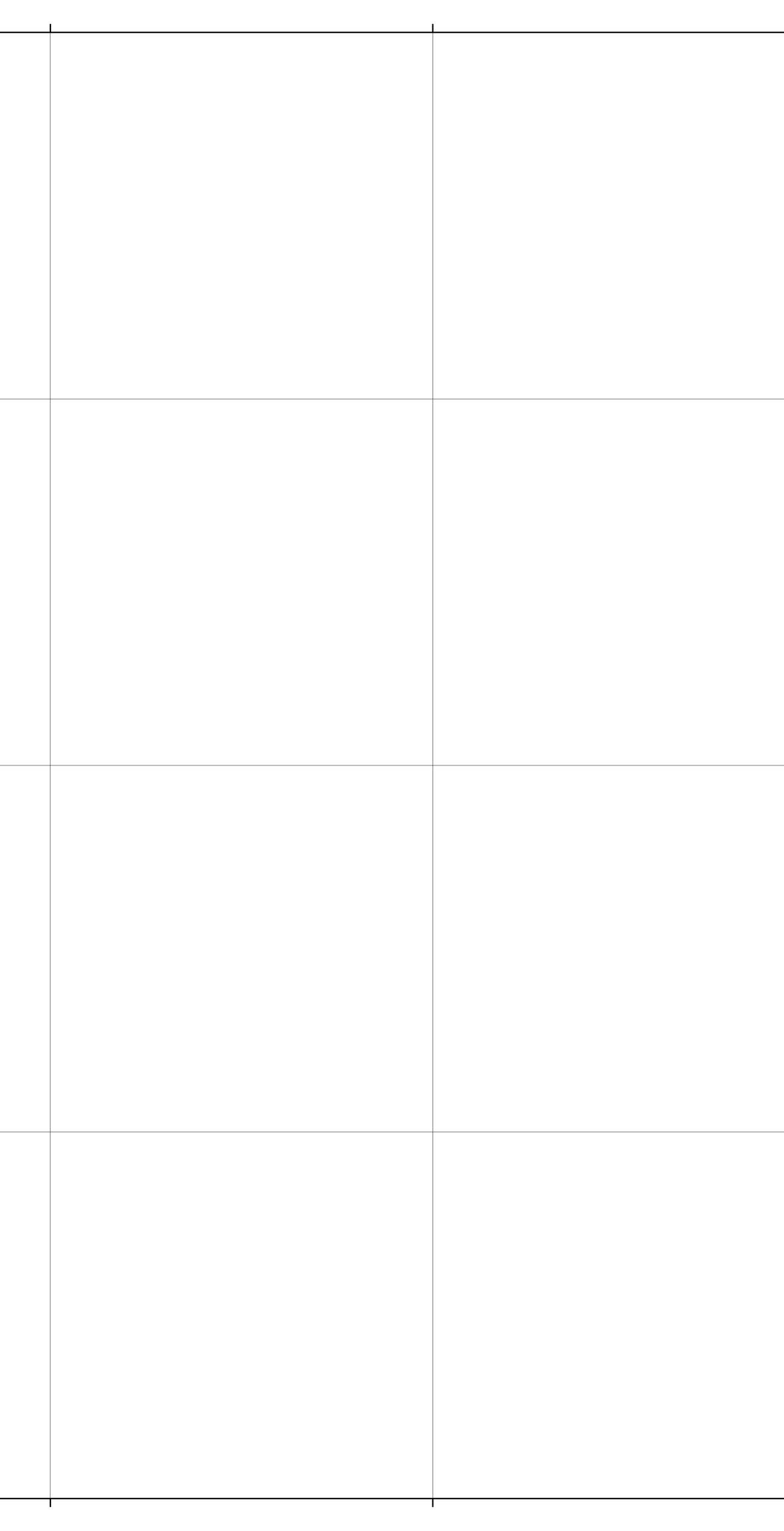


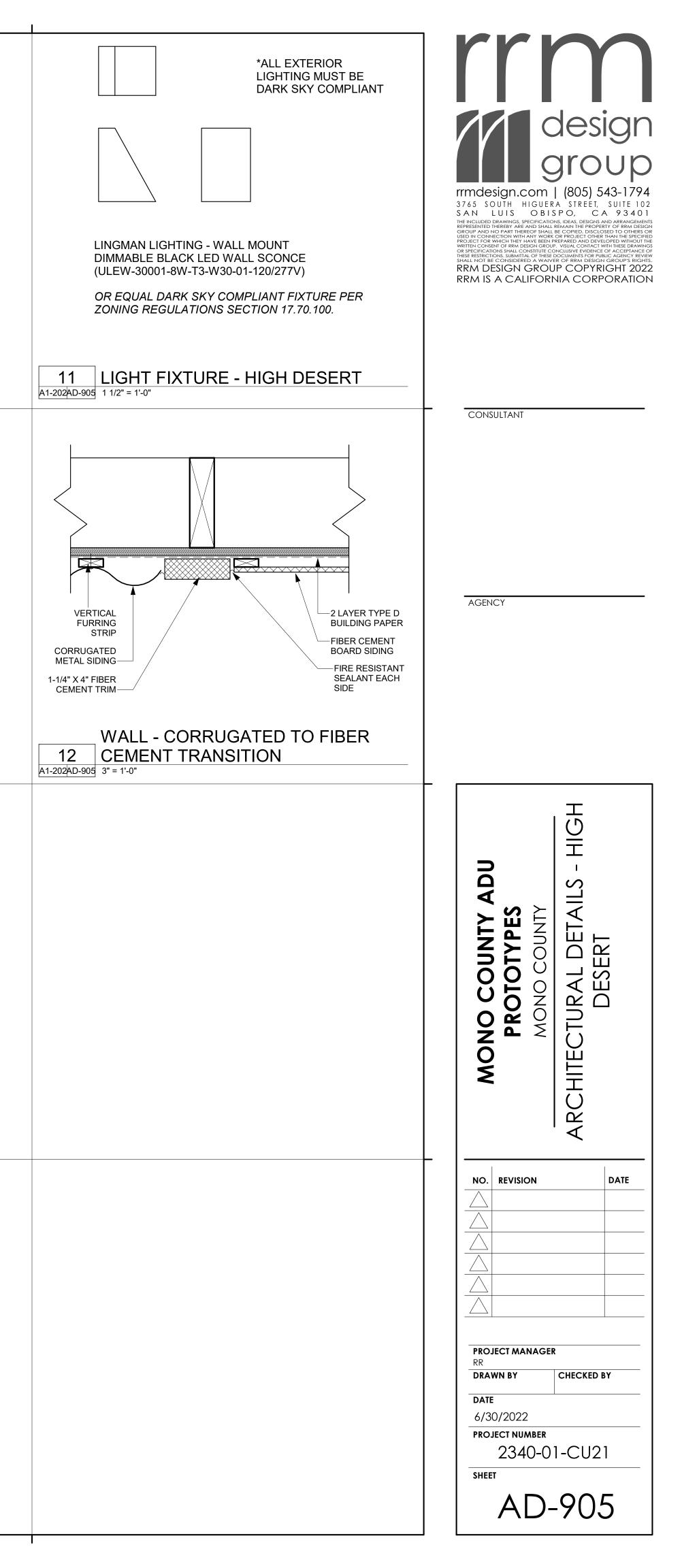
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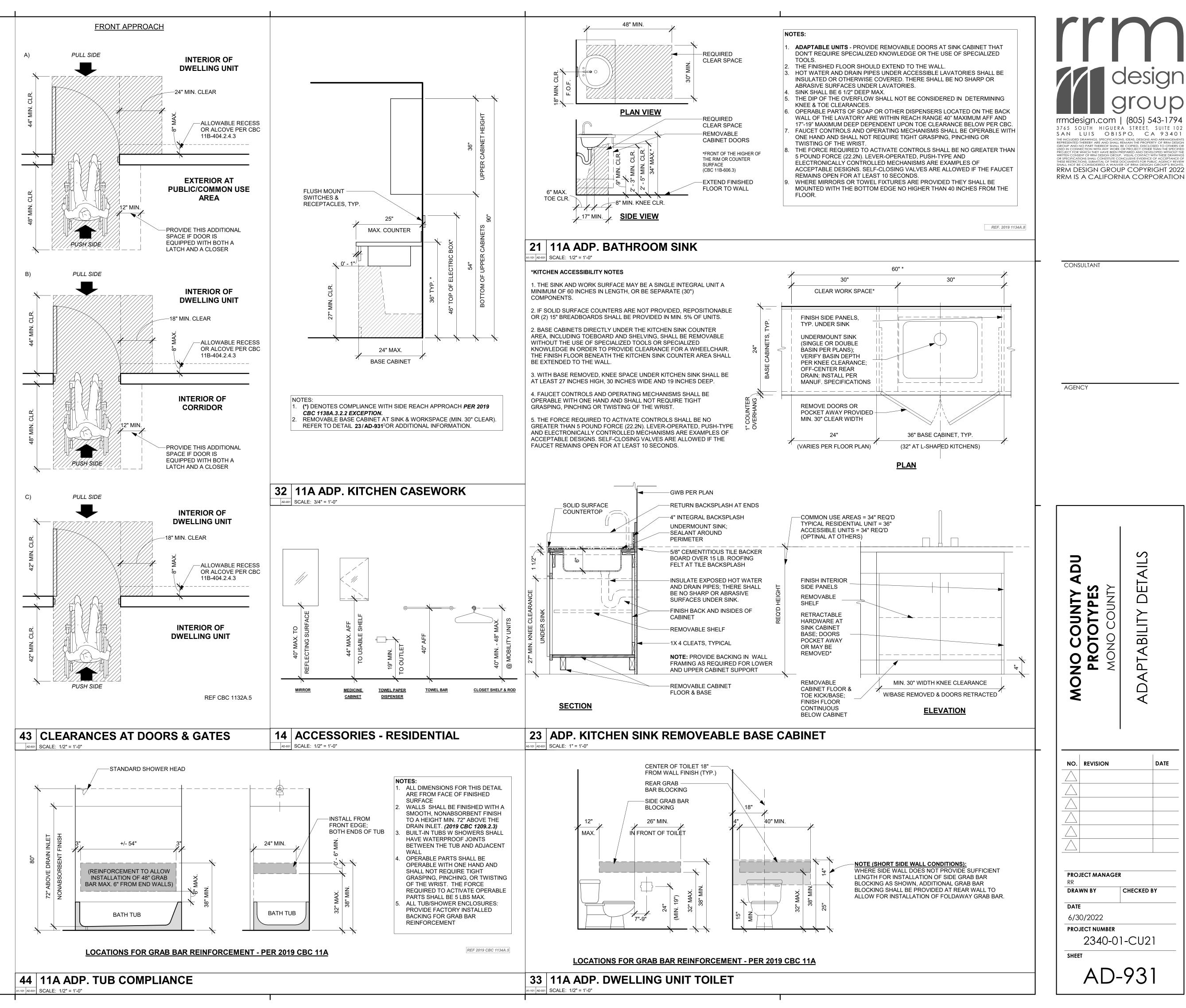


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SYMBOLS

	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 OTHERS)
—	FULL HEIGHT SECTION INDICATOR	XX	INDICATES SPAN AND DIRECTION OF ROOF RAFTER OR FLOOR JOIST WITH WEB STIFFENER
		- XX -	INDICATES SPAN AND DIRECTION OF ROOF RAFTER OR FLOOR JOIST
	ELEVATION OF WALL OR FRAME	× 8 *	INDICATES EXTENTS OF FRAMING OR OTHER STRUCTURAL ELEMENT
$\mathbf{\wedge}$			INDICATES HEADER @ OPENING PER HEADER SCHEDULE
	NORTH ARROW		EARTH LAYER
			INDICATES SAND OR GROUT
$\bigoplus_{EL} \stackrel{BOT OF}{EL} = (-X' - X'')$	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
IIIImm	SLOPED SURFACE		STEEL HSS TUBE COLUMN
/////////		\bigcirc	STEEL HSS OR PIPE COLUMN
თ —- — - თ	STEPPED FOOTING		WIDE FLANGE STEEL COLUMN
89 — - — - — - B	BOTTOM STEPPED FOOTING		WOOD POST

A & B	ABOVE AND BELOW		
AB	ANCHOR BOLT	d	PENNY (NAIL OR BAR DIA)
ABV	ABOVE	DBL	DOUBLE
ACI	AMERICAN CONCRETE INSTITUTE	DEPT	DEPARTMENT
ADDL	ADDITIONAL	DET	DETAIL
ADJ	ADJACENT	DF	DOUGLAS FIR/LARCH
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL	DIA OR Ø	DIAMETER
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	DIAG	DIAGONAL
ALT	ALTERNATE	DIAPH	DIAPHRAGM
ALUM	ALUMINUM	DIM	DIMENSION
ANCH	ANCHOR	DN	DOWN
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	DWG	DRAWING
APA	ENGINEERED WOOD ASSOCIATION (FORMERLY THE	DWL	DOWEL
	AMERICAN PLYWOOD ASSOCIATION) APPROVED	EA	EACH
APPVD		EF	EACH FACE
APPROX		EJ	EXPANSION JOINT
ARCH		EL	ELEVATION
AWPA	AMERICAN WOOD PRESERVERS ASSOCIATION	ELEC	ELECTRICAL
AWS		ELEV	ELEVATOR
AITC		EMBED	EMBEDMENT
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	EN	EDGE NAIL
BLDG	BUILDING	ENGR	ENGINEER
BLK	BLOCK	EQ	EQUAL OR EQUIVALENT
BLKG	BLOCKING	EQUIP	EQUIPMENT
BM	BEAM	ES	EACH SIDE
BN	BOUNDARY NAIL	EW	EACH WAY
BOT OR B	BOTTOM	EXIST or (E)	EXISTING
BRC	BRACE	EXT	EXTERIOR
brg btwn	BEARING BETWEEN	FDN	FOUNDATION
CANT	CANTILEVER	FIN	FINISH
CAM OR C	CAMBER	FJ	FLOOR JOIST
CC	CENTER TO CENTER	FLG	FLANGE
CG	CENTER OF GRAVITY	FLR	
CIP	CAST-IN-PLACE	FN FOC	FIELD NAIL FACE OF CONCRETE
CI	CONSTRUCTION JOINT; CONTROL JOINT	FOM	FACE OF MASONARY
CL	CENTER LINE	FOS	FACE OF STUD
CLR	CLEARANCE; CLEAR	FOW	FACE OF WALL
CMU	CONCRETE MASONRY UNIT	FRMG	FRAMING
COL		FT	FOOT; FEET
COMP	COLUMN COMPRESSION	FTA	FLOOR TIE ABOVE
	CONCRETE	FTG	FOOTING
CONC CONN	CONCRETE CONNECTION; CONNECT	GA	GAUGE
		GALV	GALVANIZED
CONSTR		GB	GRADE BEAM
CONT	CONTINUE; CONTINUOUS	GLB	GLUED LAMINATED BEAM
CONTR		GR	GRADE
CJP	COMPLETE JOINT PENETRATION WELD	GRND	GROUND
CTR	CENTER	H or HORIZ	HORIZONTAL
CTSK	COUNTERSINK; COUNTERSUNK	HDR	HEADER
CU FT	CUBIC FOOT		

——(X)	INDICATES TOP PLATE SPLICE NAILING PER SCHEDULE
	INDICATES SHEAR WALL STRAP / HOLDOWN TYPE PER SCHEDULE
(F1)	INDICATES PAD FOOTING TYPE PER SCHEDULE
Cl	INDICATES CONTINUOUS FOOTING TYPE PER SCHEDULE
↔	ANGLE BRACE
(2L)	DOUBLE ANGLE BRACE
•	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

ABBREVIATIONS

HGR	HANGER
HP	HIGH POINT
HSH	HORIZONTALLY
HT	HEIGHT
ID	INSIDE DIAMETE
IF	INSIDE FACE
I-JST	I-JOIST
IN	INCH
INCL	INCLUDE
INFO	INFORMATION
INSP	INSPECTION
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIPS
KS	KING STUD
KP	KING POST
KSI	KIPS PER SQUAR
LB(S) OR #	POUND(S)
LF	LINEAL FOOT
LIN	LINEAL; LINEAR
LLH	LONG LEG HORI
LLV	LONG LEG VERT
LP	LOW POINT
LSH	LONG SLOTTED F
LSL	
LT WT	
LVL	
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM; MINU
MISC	MISCELLANEOUS
(N)	NEW
Ν	NORTH
NO or #	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMET
OF	OUTSIDE FACE
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ORIG	ORIGINAL
OSB	ORIENTED STRAM

+	— INDICATES PLYWOOD SIDE FOR SHEARWALL
	INDICATES BEARING WOOD WALL BELOW
<u>↓</u>] ↓	INDICATES BEARING WOOD WALL ABOVE
	INDICATES NON-BEARING WOOD WALL BELOW
⊧ ⊧	INDICATES NON-BEARING WOOD WALL ABOVE
⊧	INDICATES EXISTING BEARING WOOD WALL
£	INDICATES EXISTING NON-BEARING WOOD WALL
	INDICATES BEARING CMU WALL BELOW
<i>[ZZZ</i>]	INDICATES BEARING CMU WALL ABOVE
	INDICATES NON-BEARING CMU WALL BELOW
	INDICATES NON-BEARING CMU WALL ABOVE
	INDICATES EXISTING BEARING CMU WALL
	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; PIECE
PERP	PERPENDICULAR
PI	PLYWOOD INDEX
PLOR PL.	PLATE
PL	PROPERTY LINE
PLF	PONDS PER LINEAL FOOT
PLCS	PLACES
PLY	PLYWOOD
PROP	PROPERTY
PT	PRESSURE TREATED
PW	PLATE WASHER
РЈР	PARTIAL JOINT PENETRATION WELD
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
PVMT	PAVEMENT
#	POUND; NUMBER
REF	REFERENCE
REINF	REINFORCE; REINFORCING
REQD	REQUIRED
RF	ROOF
RR	ROOF RAFTER
Ø	ROUND; DIAMETER
SCHED	SCHEDULE
SECT	SECTION
SEP	SEPARATION
SHT	SHEET
SHTG	Sheathing
SIM	SIMILAR
SOG	SLAB ON GRADE
SN	SHEAR NAIL
SPCG	SPACING
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
SSL	SHORT SLOTTED HOLES
STD	STANDARD
STGR	STAGGER
STIFF	STIFFENERS
STIRR	STIRRUP
STL	STEEL
STRUCT	STRUCTURAL
SW	SHEAR WALL
SYM	Symmetrical
ТВ	TIE BEAM

SHEET INDEX

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S-103	GENERAL NOTES, SPECIAL INSPECTION & TESTS
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S5-201A.2	Foundation plan - High desert - Raised Floor
S5-201B.1	FOUNDATION PLAN - RURAL MOUNTAIN - SLAB ON GRADE
S5-201B.2	FOUNDATION PLAN - RURAL MOUNTAIN - RAISED FLOOR
S5-202A	ROOF PLAN - HIGH DESERT
S5-202B	ROOF PLAN - RURAL MOUNTAIN
S-301	TYPICAL CONCRETE DETAILS
S-311	CONCRETE DETAILS
S-312	CONCRETE DETAILS
S-313	CONCRETE DETAILS
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S-402	TYPICAL WOOD DETAILS
S-403	TYPICAL WOOD DETAILS
S-404	TYPICAL WOOD DETAILS
S-421	ROOF FRAMING DETAILS
S-422	ROOF FRAMING DETAILS

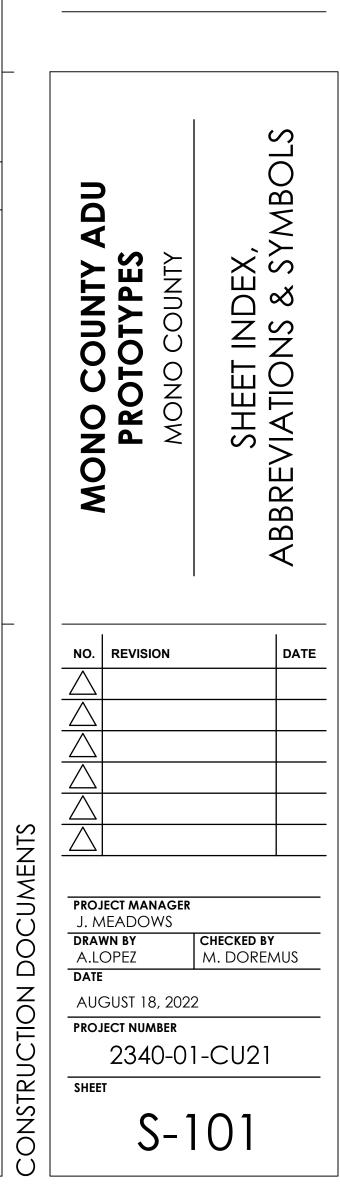


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AGENCY



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
THK	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 SI	HAPES
W	W SHAPE
С	AMERICAN STD CHANNEL SHAPE
MC	MISC CHANNEL SHAPE
	ANGLE SHAPE
WT, ST, MT	STRUCT TEE SHAPE
PIPE PIPE-X	STANDARD PIPE SHAPE EXTRA STRONG PIPE SHAPE
PIPE-XX	DBL EXTRA STRONG PIPE SHAPE
HSS	HOLLOW STRUCTURAL SECTION

WORK POINT; WATERPROOF WELDED WIRE FABRIC
L STEEL SHAPES
W SHAPE
AMERICAN STD CHANNEL SHAPE
MISC CHANNEL SHAPE
ANGLE SHAPE
STRUCT TEE SHAPE
STANDARD PIPE SHAPE
EXTRA STRONG PIPE SHAPE
DBL EXTRA STRONG PIPE SHAPE
HOLLOW STRUCTURAL SECTION

WOOD (GENERAL)		F	R
1.	PRESERVATIVE TREATMENT:	1.	R
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 <u>#</u>) SPECIFIED IN AWPA U1-06. 0. UC1 - INTERIOR CONSTRUCTION, ABOVE GROUND, DRY - NO PRESERVATIVE TREATMENT REQUIRED.		P ,≄

- ion, 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

AWN LUMBER					
FRAMING LUMBER SHALL MEET THE FOLLOWING MINIMUM STANDARDS EXCEPT WHERE OTHERWISE NOTED:					
SAWN LUMBER PROPERTIES					
USE	SIZE	SPECIES	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	2019 CBC 2303.1.9	
	2 X	REDWOOD	FOUNDATION GRADE		
	HORIZONTAL FRA	MING LUMBE	R		
ROOF JOISTS AND RAFTERS	2 x	D.F.	NO. 2		
FLOOR JOISTS	2 X	D.F.	NO. 2		
HEADERS AND BEAMS	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 FRAMING LUMBER				
TOP PLATES	2 X	D.F.	NO. 2		
STUDS	2 X 4 & 3 X 4	D.F.	STUD	WCLIB &	
310D3	2 X 6 & 2 X 8	D.F.	NO. 2		
POSTS	4 X 4 & 4 X 6 POSTS	D.F.	NO. 2		
	6 X 6 & LARGER POSTS	D.F.	NO. 1		
ALL OTHER FRAMING LUMBER		1			
ALL OTHER FRAMING LUMBER, UNO	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'-0' 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
- 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

EINFORCING STEEL

- REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 19 OF THE CODE AND WITH THE PROVISIONS OF ACI 318-14, ASTM A706, GRADE 60 UNO. ASTM A615 GR 60 STEEL MAY BE SUBSTITUTED FOR ASTM A706 GR60 STEEL PER ACI 318-14 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 318-14.
- 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 318-14 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 318-14 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.
- 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.
- 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 318-14.
- 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 318-14 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 318-14 SECTION 18.2.7 & 18.12.7.4

MINIMUM COVER, IN.
3
2
1 1/2"
11/2"
3⁄4"
1/2"

CONCRETE

ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19 OF THE CODE AND WITH THE PROVISIONS OF ACI 318-14.

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 318-14 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.

CONCRETE MIXES SHALL BE PROPORTIONED BASED ON SECTION 26.4.3 OF ACI 318-14, 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 318-14 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 2019 CBC TABLE 1610.1 ALLOWABLE FOUNDATION BEARING AND LATERAL PRESSURES ARE IN ACCORDANCE WITH 2019 CBC TABLE 1806.2

2. SPREAD OR CONTINUOUS FOOTINGS:

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

A. THE ALLOWABLE CAPACITY MAY BE INCREASED BY ONE-THIRD WHEN CONSIDERING LOADS OF SHORT DURATION SUCH AS WIND OR SEISMIC FORCES.

- B. THE ALLOWABLE LATERAL RESISTANCE CAN BE TAKEN AS THE SUM OF THE FRICTIONAL RESISTANCE AND PASSIVE RESISTANCE .
- C. THE UPPER 0 FOOT OF SOIL NOT PROTECTED BY PAVEMENT SHALL BE NEGLECTED WHEN CALCULATING PASSIVE 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 ASTM D 1557 (2019 CBC 1804.6)
- E. MAY BE DOUBLED FOR ISOLATED POLES PER 2019 CBC 1806.3.4
- 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 AND/OR SEEPAGE.
- 6. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE OR GROUT HAS ATTAINED FULL DESIGN STRENGTH. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS AND INSTALLATION OF SUCH BRACING.
- 7. EXCAVATIONS SHALL BE CUT SQUARE AND SMOOTH, WITH LEVEL BOTTOMS.
- 8. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS.
- 9. ALL ABANDONED FOOTINGS, UTILITIES, ETC. SHALL BE REMOVED. NEW FOOTINGS MUST EXTEND INTO UNDISTURBED SOILS.

DESIGN INFORMATION

ROOF LIVE LOADS (2019 CBC SECTION 1603.1.2)

ROOF LIVE LOA	NDS		
OCCUPANCY OR USE	UNIFORM (PSF)	CONC. (LBS)	REFERENCE
ROOF ORDINARY FLAT, PITCHED AND CURVED ROOFS (THAT ARE NOT OCCUPIABLE)	20		2019 CBC TABLE 1607.1

2. ROOF SNOW LOADS (2019 CBC SECTION 1603.1.3):

SNOW DES	IGN DATA	
PARAMETER	VALUE	REFERENCE
GROUND SNOW LOAD	Pg = PROVIDED BY ONWER BASED ON PROJECT LOCATION	ASCE 7-16 7.2

3. WIND DESIGN DATA (2019 CBC SECTION 1603.1.4) :

WIND DESI	GN DATA	
PARAMETER	VALUE	REFERENCE
ultimate design wind speed (3-sec gust)	V _{ULT} = 115 MPH	2019 CBC FIG. 1609.3
NOMINAL DESIGN WIND SPEED (3-SEC GUST)	V _{ASD} = 90 MPH	2019 CBC 1609.3.1
EXPOSURE CATEGORY	С	2019 CBC 1609.4.3
INTERNAL PRESSURE COEFFICIENT:	GCpi = ± 0.18	ASCE 7-16 TABLE 26.13-1

COMPONENTS & CLADDING WIND PRESSURES (PSF)					
	N	СОМР	ONENT TRIBUTARY ARE	A (SQ FT)	
LOCATIO	N	10	100	500	
	ZONE 1	-48.4	-23.9	-23.9	
	ZONE 2e	-48.4	-23.9	-23.9	
POOE	ZONE 2n	-53.3	-33.7	-28.8	
ROOF	ZONE 2r	-48.4	-23.9	-23.9	
	ZONE 3e	-65.5	-41.0	-28.8	
	ZONE 3r	-53.3	-33.7	-28.8	
	ZONE 1	-67.9	-43.5	-43.3	
OVERHANG	ZONE 2e	-67.9	-43.5	-43.3	
	ZONE 2n	-72.8	-53.3	-48.4	
	ZONE 2r	-67.9	-43.5	-43.5	
	ZONE 3e	-85.0	-60.6	-48.4	
	ZONE 3r	-72.8	-53.3	-48.4	
WALL	ZONE 4	-31.3	-27.1	-23.9	
VV ALL	ZONE 5	-38.6	-30.0	-23.9	

4. EARTHQUAKE DESIGN DATA (2019 CBC SECTION 1603.1.5):

SITE AND OCCUPA	NCY PARAMETERS		
PARAMETER	VALUE	REFERENCE	
RISK CATEGORY	П	2019 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	2019 CBC 1613.2.1	
MAFFED SFECTRAE RESFONSE ACCELERATIONS.	S 1 = 0.65	2017 CDC 1013.2.1	
SITE CLASS	D	2019 CBC 1613.2.2	
SPECTRAL RESPONSE COEFFICIENTS:	S ds = 1.60	0010 CBC 1/12 0 4	
SELOTRAL RESE ONSE COLIFICIENTS.	S D1 = 0.737	2019 CBC 1613.2.4	

BUILDING PARAMETERS

PARAMETER	VALUE	REFERENCE
SEISMIC DESIGN CATEGORY	SDC = D	2019 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 LOAD	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.
- 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. 2019 CALIFORNIA BUILDING CODE, PART 2, VOLUME 2 OF 2, AND TITLE 24 C.C.R. 2019 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
- 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

- 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).
- 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.

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SED IN CONNECTION WITH ANY WORK OK FRÖJECT UTHER I NAFT ROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITH RRITEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DR. RS SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE ESTRICTIONS, SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC ACENCY ESTRICTIONS, SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC ACENCY RRM DESIGN GROUP COPYRIGHT 2021 **RRM IS A CALIFORNIA CORPORATION**

CONSULTANT

ON DOCUMENTS	ENTS	_		
PROJECT MANAGER J. MEADOWS DRAWN BY A. LOPEZ DATE AUGUST 18, 202	$\begin{array}{c c} \hline \\ \hline $	NO. REVISION	MONO COUNTY ADU RODOTYPES MONO COUNTY	
CHECKED BY M. DOREMUS		DATE	GENERAL NOTES	

PROJECT NUMBER

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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.

REQUIRED VERIFICATION AND INSPECTIONS

CONCRETE CONSTRUCTION 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 THAN ASTM A706 b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM %。" AND c. INSPECT ALL OTHER WELDS	 X	X X 	AWS D1.4 ACI 318: 26.6.4		
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.	Х		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)		
	V TO C				

SPECIAL INSPECTIONS LISTED FOR CONCRETE ALSO APPLY TO GROUTING OPERATIONS.

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 AWO	C SDPV	VS-201	5	
SPECIAL INSPECTION OR TEST	CONTINUOUS	PERIODIC	CBC REFERENCE	
1. 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 		х	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 I 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 AND GRADE.
- 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)
- 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 LO	AD: 17.2 PSF	(15.8 PSF SUPERIMPOSED)
BOT CHORD DEAD LO	AD: 6.5 PSF	(5.4 PSF SUPERIMPOSED)
ROOF - LIVE LOAD:	20 PSF	
TOP CHORD - SNOW L	OAD: PER PLA	N AND SPECIFIC LOCATION
OWNE	R/CONTRACTOR T	O PROVIDE TO TRUSS MANUF.

TOP CHORD - S	NOW LOAD:	PER PLAN AND SPECIFIC
	OWNER/CON	TRACTOR TO PROVIDE TO
DEFLECTION CRITERIA:		

DEAD + LIVE LOAD	L/24
LIVE LOAD ONLY	L/360

- 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 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)

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

WOOD STRUCTURAL PANEL PROPERTIES

RATING

REFER TO TYPICAL DIAPHRAGM SCHEDULE

REFER TO TYPICAL SHEAR WALL SCHEDULE

Sheathing performance

GRADE

-	
R LOGO, THE	
ON DATE,	

rimposed)

OF RESTRAINT/BRACING ON THE TRUSS PLANS TO MEET ANY SEISMIC AND WIND REQUIREMENTS

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OR PS 2-10)

APA (DOC PS 1-09

SPAN RATING RATING^B REFERENCE

APA

APA

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

TABLE NOTES:

BOND

CLASSIFICATION C

EXPOSURE 1

EXPOSURE 1

EXPOSURE 1

NOTED:

USE PL

ROOF

FLOOR

WALL

- ACCORDANCE WITH THE FOLLOWING VOLUNTARY STANDARDS BY THE ENGINEERED WOOD ASSOCIATION (APA):
- a. VOLUNTARY PRODUCT STANDARD, STRUCTURAL PLYWOOD, PS 1-09
- b. VOLUNTARY PRODUCT STANDARD, PERFORMANCE STANDARD FOR WOOD-BASED STRUCTURAL-USE PANELS, PS 2-10
- B. WOOD STRUCTURAL PANELS SHALL BE IDENTIFIED BY THE APA TRADEMARK INDICATING CONFORMANCE TO THE APPLICABLE VOLUNTARY STANDARD
- C. WHERE PANELS ARE EXPOSED TO REPEATED WETTING AND REDRYING, LONG-TERM EXPOSURE TO WEATHER, OR CONDTIONS OF SIMILAR SEVERITY, "EXTERIOR" APA RATED PLYWOOD SHEATHING SHALL BE USED. C-D "EXPOSURE 1" APA RATED PLYWOOD SHEATHING (CDX) SHALL NOT BE USED FOR CONDITIONS INVOLVING LONG-TERM EXPOSURE TO WEATHER.
- a. EXCEPTION: WOOD STRUCTURAL PANEL ROOF SHEATHING EXPOSED TO THE OUTDOORS ON THE UNDERSIDE IS PERMITTED TO BE "EXPOSURE 1" TYPE.
- 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 OF PLYWOOD FOR WOOD STRUCTURAL PANEL WALL SHEATHING.

2. TRANSPORTATION, STORAGE, AND HANDLING:

A. TRANSPORTATION

- a. IN TRANSPORTING PANELS ON OPEN TRUCK BEDS, COVER THE BUNDLES WITH A TARP.
- b. Storage a. ALWAYS STORE THE PANELS UNDER COVER WHENEVER POSSIBLE
 - b. WHEN STORING PANELS OUTSIDE STACK THEM ON A LEVEL SURFACE ON TOP OF STRINGERS OR OTHER BLOCKING, THREE STRINGERS MINIMUM.
 - c. NEVER LEAVE PANELS IN CONTACT WITH THE GROUND
 - d. COVER THE STACK WITH A PLASTIC TARP, ENSURING THAT THE BUNDLE IS WELL VENTILATED TO PREVENT MILDEW.
 - e. IF MOISTURE ABSORPTION IS EXPECTED, CUT THE STEEL BAND TO PREVENT DAMAGE
 - f. KEEP SANDED OR OTHER APPEARANCE GRADE PANELS AWAY FROM HIGH TRAFFIC AREAS

C. HANDLING

- a. ALWAYS PROTECT ENDS AND EDGES, ESPECIALLY TONGUE AND GROOVE PRODUCTS, FROM PHYSICAL DAMAGE.
- b. ACCLIMATIZE THE PANELS FOR 24 HOURS MINIMUM BEFORE INSTALLATION BY STANDING THE PANELS ON EDGE WITH A GAP BETWEEN EACH TO ALLOW FOR AIR CIRCULATION OR PER 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 1/8" 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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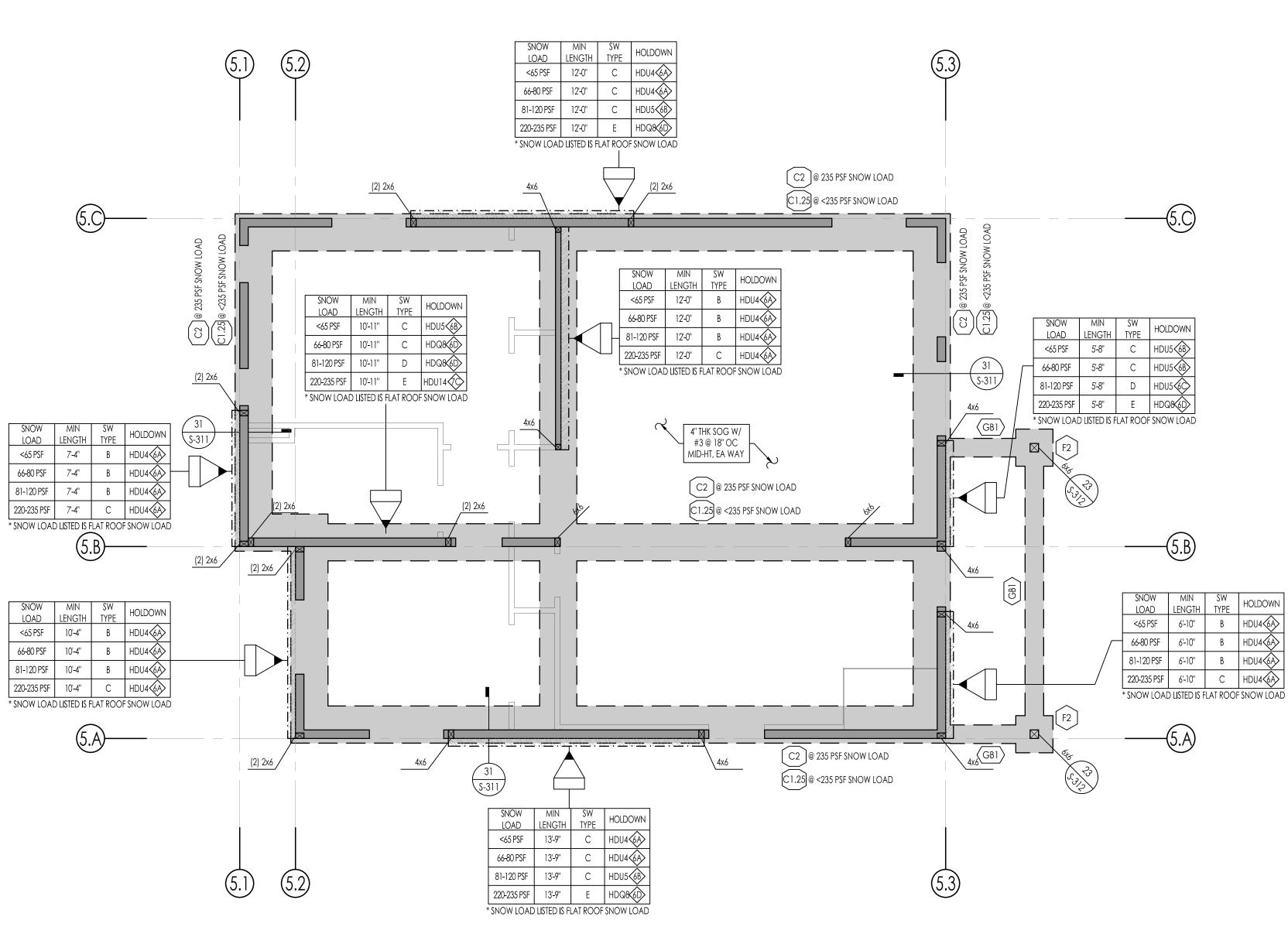
AUGUST 18, 2022

PROJECT NUMBER

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MONO COUNTY	GENERAL NOTES, SPECIAL INSPECTION 8
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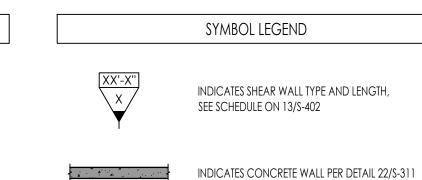
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2340-01-CU21



1 FOUNDATION PLAN - HIGH DESERT SLAB ON GRADE OPTION SCALE: 1/4" = 1'-0"

				1/4	+ - 1-0
			FOUNDATION	I PLAN	n NOTES
1.	REFER TO THE FOLLOWING SHEETS F	FOR TYPICAL DETA	ILS:	13.	ALL HOLDOWN ANCHOR NUTS SHALL BE TIGHTENED JUST PRIOR TO COVERING.
	DESCRIPTION SYMBOLS AND ABBREVIATIONS STRUCTURAL GENERAL NOTES	SHEET (S) S-101 S-102 - S-103		14.	ALL BOLT HOLES IN WOOD MEMBERS, SHALL BE DRILLED A MAXIMUM OF 1/16" OVERSIZED. INSPECTOR TO VERIFY.
	TESTING AND INSPECTION TYPICAL CONCRETE DETAILS	S-103 S-301		15.	THE BUILDING PAD SHALL BE PREPARED AS OUTLINED IN DETAIL 53/S-301. THE BUILDING OFFICIAL SHALL REQUIRE PAD CERTIFICATION BY A GEOTECHNICAL ENGINEER AT THEIR DISCRETION.
2.	TYPICAL WOOD DETAILS SEE ARCHITECTURAL DRAWINGS FO ELEVATION = 0'-0" COORESPONDS		R ELEVATIONS. REFERENCE FINISHED FLOOR R ELEVATION.	16.	BOTTOM OF FOOTING SHALL BE, UNLESS DEEPER FOUNDATIONS ARE REQUIRED BY THE BUILDING OFFICIAL: A. 18" BELOW PAD OR ADJACENT GRADE AT PERIMETER, WHICHEVER IS DEEPER, UNO.
3.	ALL DIMENSIONS SHOWN ARE FRO CENTERLINE OF COLUMN. ALL COL		CRETE/MASONRY, FACE OF SHEATHING, OR RED IN STUD WALLS, UNO.		B. 18" BELOW PAD OR ADJACENT GRADE AT INTERIOR GRADE BEAMS, WHICHEVER IS DEEPER, UNO. NOTE: FOOTING MUST BE DEEPEND LOCALLY PER DETAIL 32/S-301 TO ACCOMMODATE ANCHOR BOLT HOLDOWN EMBED DEPTHS, OR FROST DEPTHS AS INDICATED BY THE BUILDING OFFICIAL.
4. 5.	FOR ANY DIMENSIONAL INFORMAT		SEE ARCHITECTURAL DRAWINGS. D ITEMS AND ALL EXTERIOR CONCRETE PAVE	17.	DIAPHRAGM TYPE: ALL FLOOR DIAPHRAGMS SHALL BE TYPE D, UNO REFER TO 12/S-403
6.	SEE PLANS AND ARCHITECTURAL D SLABS.	RAWINGS FOR DE	PRESSIONS AND/OR SLOPES IN CONCRETE	18.	OWNER MAY SELECT EITHER SLAB ON GRADE FOUNDATION OR THE RAISED FLOOR FOUNDATION, TO SUIT THE SPECIFIC SITE.
7.	SEE ARCHIECTURAL DRAWINGS FO BEARING AND NON-BEARING WAL		ION OF ALL DOOR AND WINDOW OPENINGS IN	19.	WHERE RAISED FLOOR FOUNDATION IS SELECTED, OWNER HAS THE OPTION TO USE CRIPPLE STUD WALLS IN LIEU OF THE SPECIFIED CONCRETE STEM WALLS BELOW THE FLOOR FRAMING. CRIPPLE
8.	SEE ARCHITECTURAL DRAWINGS FO	OR LOCATION OF I	NTERIOR NON-BEARING PARTITIONS.		STUDS ARE TO MATCH TYPICAL WALL FRAMING, AND TO BE SHEATHED TO MATCH SHEARWALLS ABOVE. HOLDOWNS SPECIFIED SHALL BE INSTALLED ACROSS THE FLOOR FRAMING PER DETAIL 12/S-405 AND THEN INTO THE CONCRETE STEM WALL PER DETAILS 22/S-311 AND 24/S-311.
9.	SEE ARCHITECTURAL, PLUMBING, N EMBEDDED ITEMS AND SLAB PENET		ELECTRICAL DRAWINGS FOR ADDITIONAL	20.	REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF UNDERFLOOR ACCESS HOLE.
10.	FOR TYPICAL SLAB-ON-GRADE REG	QUIREMENTS, INCLU	IDING SLAB JOINTS, SEE DETAIL 31/S-301.	21.	REFER TO ARCHITECTURAL DRAWINGS FOR UNDERFLOOR HEIGHT ALLOWANCE.
11.	ALL POSTS IN 4" WALLS SHALL BE 4x ALL POSTS IN 6" WALLS SHALL BE 6x			22.	ALL SNOW LOADS LISTED ARE THE FLAT ROOF SNOW LOAD. TO FIND THE FLAT ROOF SNOW LOAD, FOLLOW THIS EQUATION: FLAT ROOF SNOW = 0.77 x GROUND SNOW LOAD.
12.	PLATE WASHERS ARE REQUIRED FO WASHER REQUIREMENTS AT SHEAR		NCHOR BOLTS. REFER TO 34/S-402 FOR PLATE	23.	LOCATION OF CRAWL SPACE ACCESS IS SPECIFIC TO SITE. REFER TO DETAIL 33/S-313 FOR OPENING AT CONC WALL FOOTING.



	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							

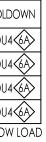
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CONTINUOUS FOOTING SCHEDULE GRADE BEAM SCHEDUL		
MARK WIDTH MIN EMBED BELOW LONG REINF TRANS REINF DETAIL TYPE WIDTH THICKNESS BELOW LOWEST LONG R	IF TRANS REINF DET.	DETAIL
C1.25 1'-3" SEE NOTE 16 (2) #5 T&B #3 @ 12" OC, BOT 31/S-311 PAD GRADE GB1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

T-FOOTING SCHEDULE								PAI	D FOOTING SCHEI	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/S-312	F2	2'-0''	2'-0''	1'-6"	SEE NOTE 16	(3) #5, EW	(3) #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	F3	3'-0''	3'-0''	1'-6"	SEE NOTE 16	(4) #5, EW	(4) #5, EW	11/S-312
							F5	5'-0''	5'-0''	1'-6"	SEE NOTE 16	(6) #5, EW	(6) #5, EW	11/\$-312

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NOTE: FOOTING MUST BE DEEPENED LOCALLY PER DETAIL 32/S-301 TO ACCOMMODATE AB HOLDOWN EMBED DEPTHS



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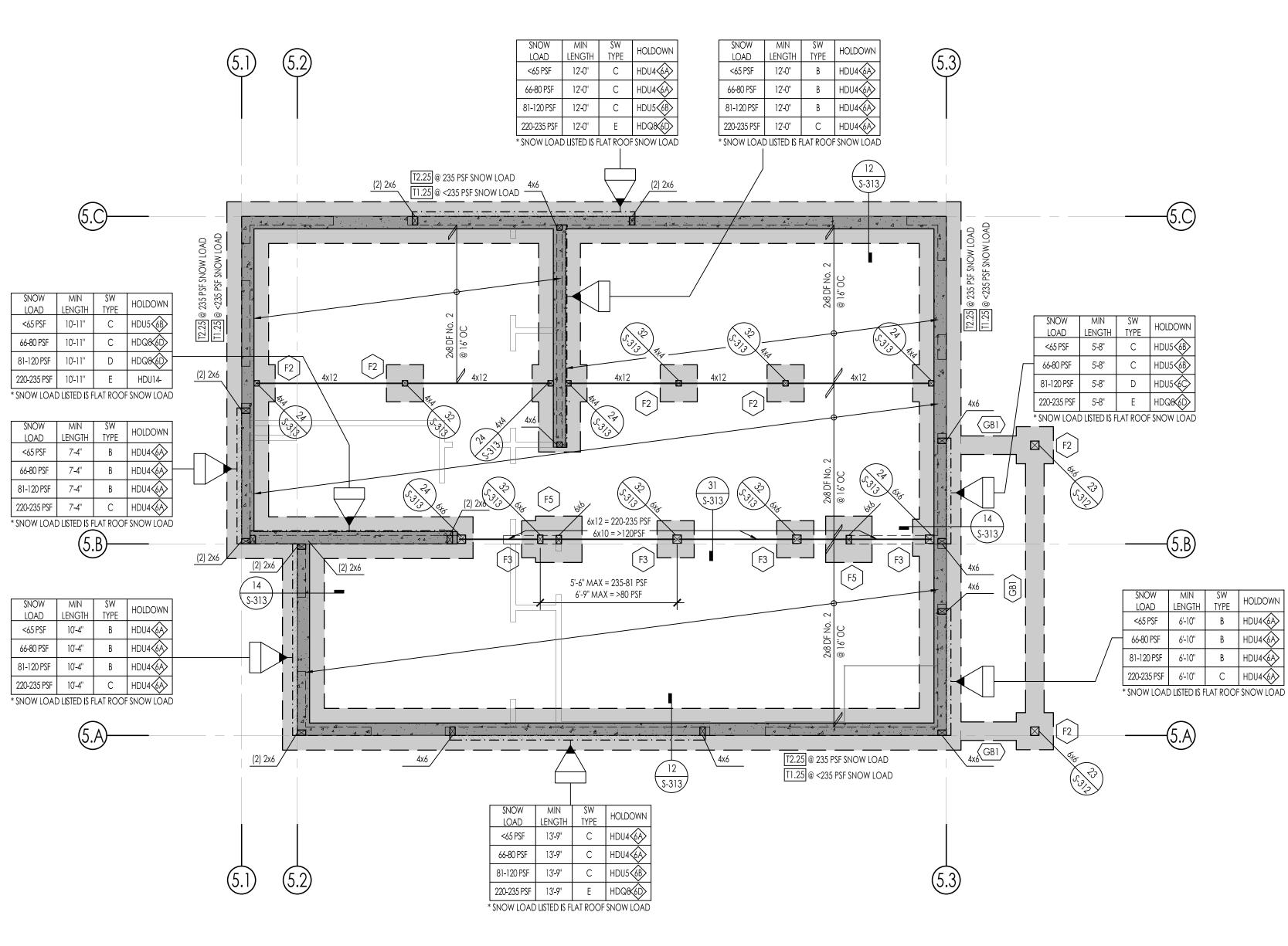
I PLAN - HIGH 3 ON GRADE ADU MONO COUNTY A PROTOTYPES MONO COUNTY FOUNDATION P DESERT - SLAB (NO. REVISION DATE

PROJECT MANAGER J. MEADOWS DRAWN BY CHECKED BY M. DOREMUS A.LOPEZ DATE AUGUST 18, 2022 **PROJECT NUMBER** 2340-01-CU21 SHEET S5-201A.

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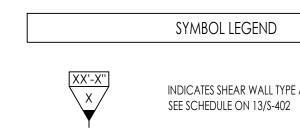
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FOUNDATION PLAN - HIGH DESERT RAISED FLOOR OPTION SCALE: 1/4" = 1'-0"

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	FOUNDATION PLAN NOTES									
1.	REFER TO THE FOLLOWING SHEETS FOR TYPICAL DETAILS:	13.	ALL HOLDOWN ANCHOR NUTS SHALL BE TIGHTENED JUST PRIOR TO COVERING.							
	DESCRIPTIONSHEET (S)SYMBOLS AND ABBREVIATIONSS-101STRUCTURAL GENERAL NOTESS-102 - S-103	14.	ALL BOLT HOLES IN WOOD MEMBERS, SHALL BE DRILLED A MAXIMUM OF 1/16" OVERSIZED. INSPECTOR TO VERIFY.							
	TESTING AND INSPECTIONS-103TYPICAL CONCRETE DETAILSS-301	15.	THE BUILDING PAD SHALL BE PREPARED AS OUTLINED IN DETAIL 53/S-301. THE BUILDING OFFICIAL SHALL REQUIRE PAD CERTIFICATION BY A GEOTECHNICAL ENGINEER AT THEIR DISCRETION.							
2. 3.	TYPICAL WOOD DETAILS S-401 - S-404 SEE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR ELEVATIONS. REFERENCE FINISHED FLO ELEVATION = 0'-0" COORESPONDS TO FINISHED FLOOR ELEVATION. ALL DIMENSIONS SHOWN ARE FROM FACE OF CONCRETE/MASONRY, FACE OF SHEATHING, CENTERLINE OF COLUMN. ALL COLUMNS ARE CENTERED IN STUD WALLS, UNO.		 BOTTOM OF FOOTING SHALL BE, UNLESS DEEPER FOUNDATIONS ARE REQUIRED BY THE BUILDING OFFICIAL: A. 18" BELOW PAD OR ADJACENT GRADE AT PERIMETER, WHICHEVER IS DEEPER, UNO. B. 18" BELOW PAD OR ADJACENT GRADE AT INTERIOR GRADE BEAMS, WHICHEVER IS DEEPER, UNO NOTE: FOOTING MUST BE DEEPEND LOCALLY PER DETAIL 32/S-301 TO ACCOMMODATE ANCHOR BOLT HOLDOWN EMBED DEPTHS, OR FROST DEPTHS AS INDICATED BY THE BUILDING OFFICIAL. 							
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6.	SEE PLANS AND ARCHITECTURAL DRAWINGS FOR DEPRESSIONS AND/OR SLOPES IN CONCRE SLABS.	ETE 18.	OWNER MAY SELECT EITHER SLAB ON GRADE FOUNDATION OR THE RAISED FLOOR FOUNDATION, TO SUIT THE SPECIFIC SITE.							
7. 8.	SEE ARCHIECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL DOOR AND WINDOW OPEN BEARING AND NON-BEARING WALLS. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF INTERIOR NON-BEARING PARTITIONS.	NINGS IN 19.	WHERE RAISED FLOOR FOUNDATION IS SELECTED, OWNER HAS THE OPTION TO USE CRIPPLE STUD WALLS IN LIEU OF THE SPECIFIED CONCRETE STEM WALLS BELOW THE FLOOR FRAMING. CRIPPLE STUDS ARE TO MATCH TYPICAL WALL FRAMING, AND TO BE SHEATHED TO MATCH SHEARWALLS ABOVE. HOLDOWNS SPECIFIED SHALL BE INSTALLED ACROSS THE FLOOR FRAMING PER DETAIL 12/S-405 AND THEN INTO THE CONCRETE STEM WALL PER DETAILS 22/S-311 AND 24/S-311.							
9.	SEE ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITION. EMBEDDED ITEMS AND SLAB PENETRATIONS.	IAL 20.	REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF UNDERFLOOR ACCESS HOLE.							
10.	FOR TYPICAL SLAB-ON-GRADE REQUIREMENTS, INCLUDING SLAB JOINTS, SEE DETAIL 31/S-301	· 21.	REFER TO ARCHITECTURAL DRAWINGS FOR UNDERFLOOR HEIGHT ALLOWANCE.							
11.	ALL POSTS IN 4" WALLS SHALL BE 4x4, UNLESS NOTED OTHERWISE ALL POSTS IN 6" WALLS SHALL BE 6x6, UNLESS NOTED OTHERWISE	22.	ALL SNOW LOADS LISTED ARE THE FLAT ROOF SNOW LOAD. TO FIND THE FLAT ROOF SNOW LOAD, FOLLOW THIS EQUATION: FLAT ROOF SNOW = 0.77 x GROUND SNOW LOAD.							
12.	PLATE WASHERS ARE REQUIRED FOR ALL SILL PLATE ANCHOR BOLTS. REFER TO 34/S-402 FOR F WASHER REQUIREMENTS AT SHEAR WALLS.	PLATE 23.	LOCATION OF CRAWL SPACE ACCESS IS SPECIFIC TO SITE. REFER TO DETAIL 33/S-313 FOR OPENING AT CONC WALL FOOTING.							



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SYMBOL LEGEND INDICATES SHEAR WALL TYPE AND LENGTH,

INDICATES CONCRETE WALL PER DETAIL 22/S-311

	HOLDOWN SCHEDULE	
SPECIFIES HOLE STRAP DETAIL	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

SCHEDULES	

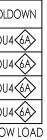
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	CONTINUOUS FOOTING SCHEDULE										GRADE BEA	M SCHEDULE		
MA	ARK	WIDTH	MIN EMBED BELOW LOWEST PAD GRADE	LONG REINF	TRANS REINF	DETAIL		TYPE	WIDTH	THICKNESS	MIN EMBED BELOW LOWEST	LONG REINF	TRANS REINF	DETAIL
	1.25	1'-3"	SEE NOTE 16	(2) #5 T&B	#3 @ 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
	22	2'-0''	SEE NOTE 16	(3) #5 T&B	#3 @ 12" OC, BOT	31/S-311						(2) #4 @ BOT		

	T-FOOTING SCHEDULE								PAD FOOTING SCHEDULE						
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/S-312		F2	2'-0''	2'-0''	1'-6"	SEE NOTE 16	(3) #5, EW	(3) #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		F3	3'-0''	3'-0"	1'-6"	SEE NOTE 16	(4) #5, EW	(4) #5, EW	11/S-312
								F5	5'-0''	5'-0''	1'-6"	SEE NOTE 16	(6) #5, EW	(6) #5, EW	11/S-312
								NOTE:	FOOTI	NG MUST	BE DEEPENED	LOCALLY PER DE	TAIL 32/S-301 TO	D ACCOMMOD	ATE AB

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THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERES OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS. RRM DESIGN GROUP COPYRIGHT 2021 RRM IS A CALIFORNIA CORPORATION

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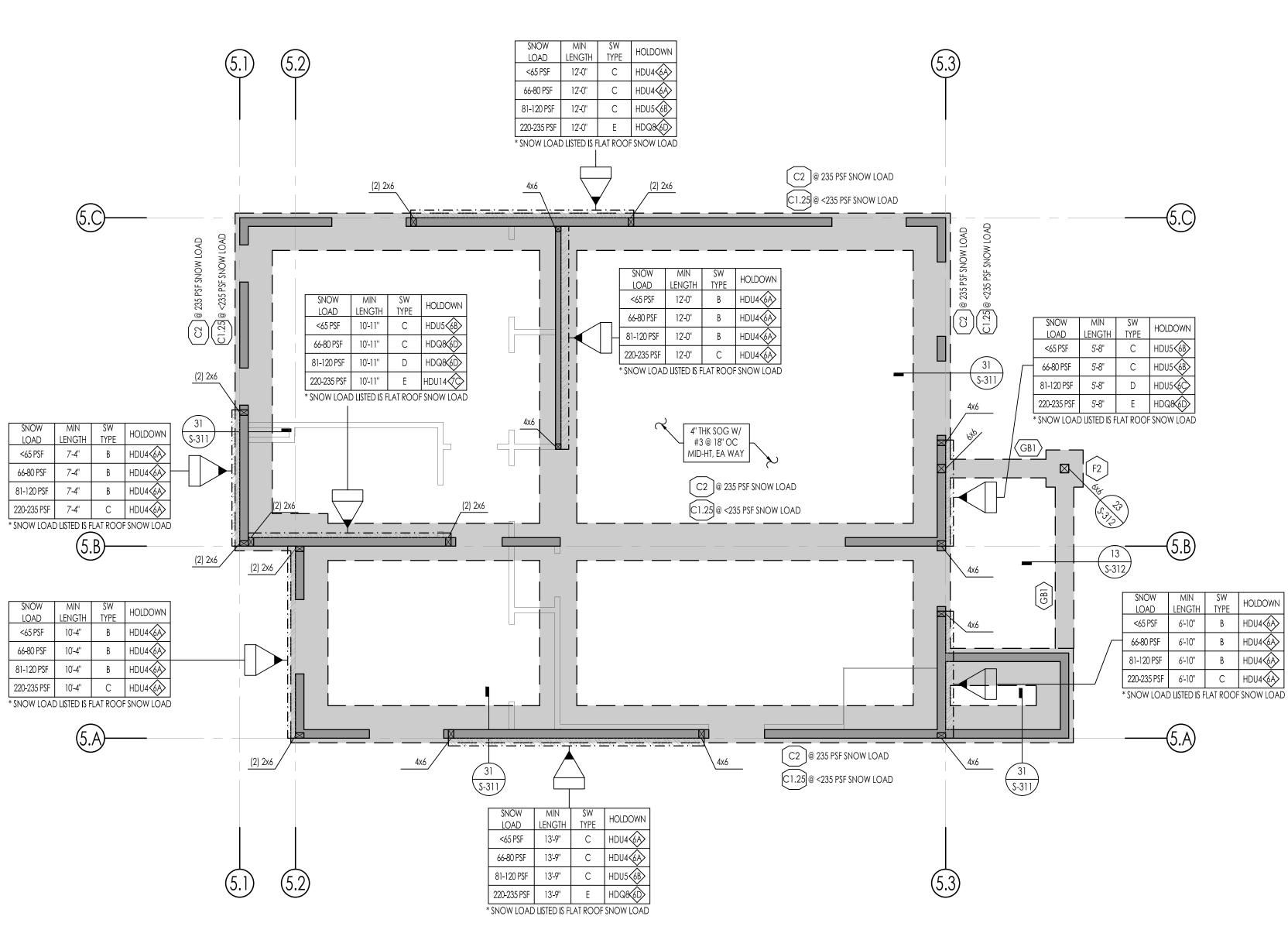
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PROJECT MANAGER J. MEADOWS DRAWN BY CHECKED BY M. DOREMUS A.LOPEZ DATE AUGUST 18, 2022 **PROJECT NUMBER** 2340-01-CU21 SHEET S5-201A.2

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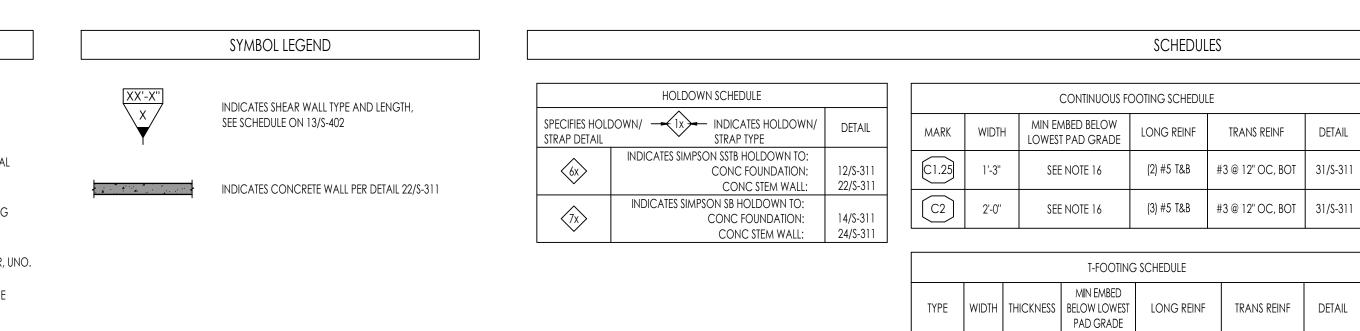
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FOUNDATION PLAN - RURAL MOUNTAIN SLAB ON GRADE OPTION SCALE: 1/4" = 1'-0"

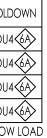
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E					GRADE BEA	M SCHEDULE			
TRANS REINF	DETAIL		TYPE	WIDTH	THICKNESS	MIN EMBED BELOW LOWEST	LONG REINF	TRANS REINF	DETAIL
						PAD GRADE			
#3 @ 12" OC, BOT	31/S-311		(GB1)	1'-0"	1'-0''	SEE NOTE 16	(2) #4 @ TOP (2) #4 @ BOT	#3 @ 24" OC	13/S-312
							(Z) #4 @ BOT		

TRANS REINF	DETAIL
#3 @ 24" OC	13/S-312
#3 @ 24" OC	13/\$-312

(2) #4 @ TOP (2) #4 @ BOT

(3) #4 @ TOP (3) #4 @ BOT

SEE NOTE 16

1'-0" SEE NOTE 16

1'-0''

T1.25

T2 2'-0"

1'-3"

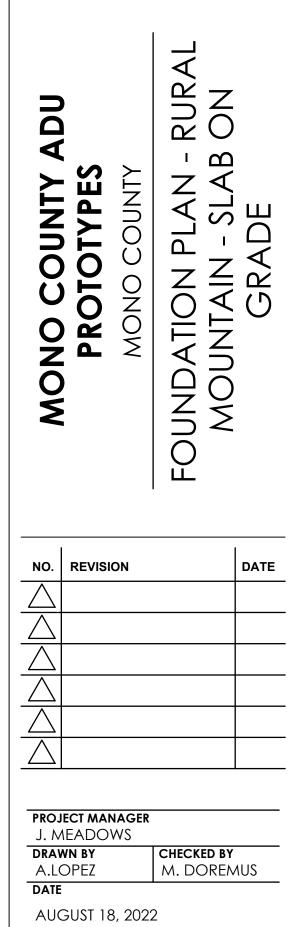
PAD FOOTING SCHEDULE							
TYPE	WIDTH	LENGTH	THICKNESS	MIN EMBED BELOW LOWEST PAD GRADE	TOP REINF	BOT REINF	DETAIL
F2	2'-0''	2'-0''	1'-6"	SEE NOTE 16	(3) #5, EW	(3) #5, EW	11/S-312
(F)	3'-0''	3'-0''	1'-6"	SEE NOTE 16	(4) #5, EW	(4) #5, EW	11/S-312
F5	5'-0''	5'-0''	1'-6"	SEE NOTE 16	(6) #5, EW	(6) #5, EW	11/S-312
NOTE: FOOTING MUST BE DEEPENED LOCALLY PER DETAIL 32/S-301 TO ACCOMMODATE AB							

HOLDOWN EMBED DEPTHS



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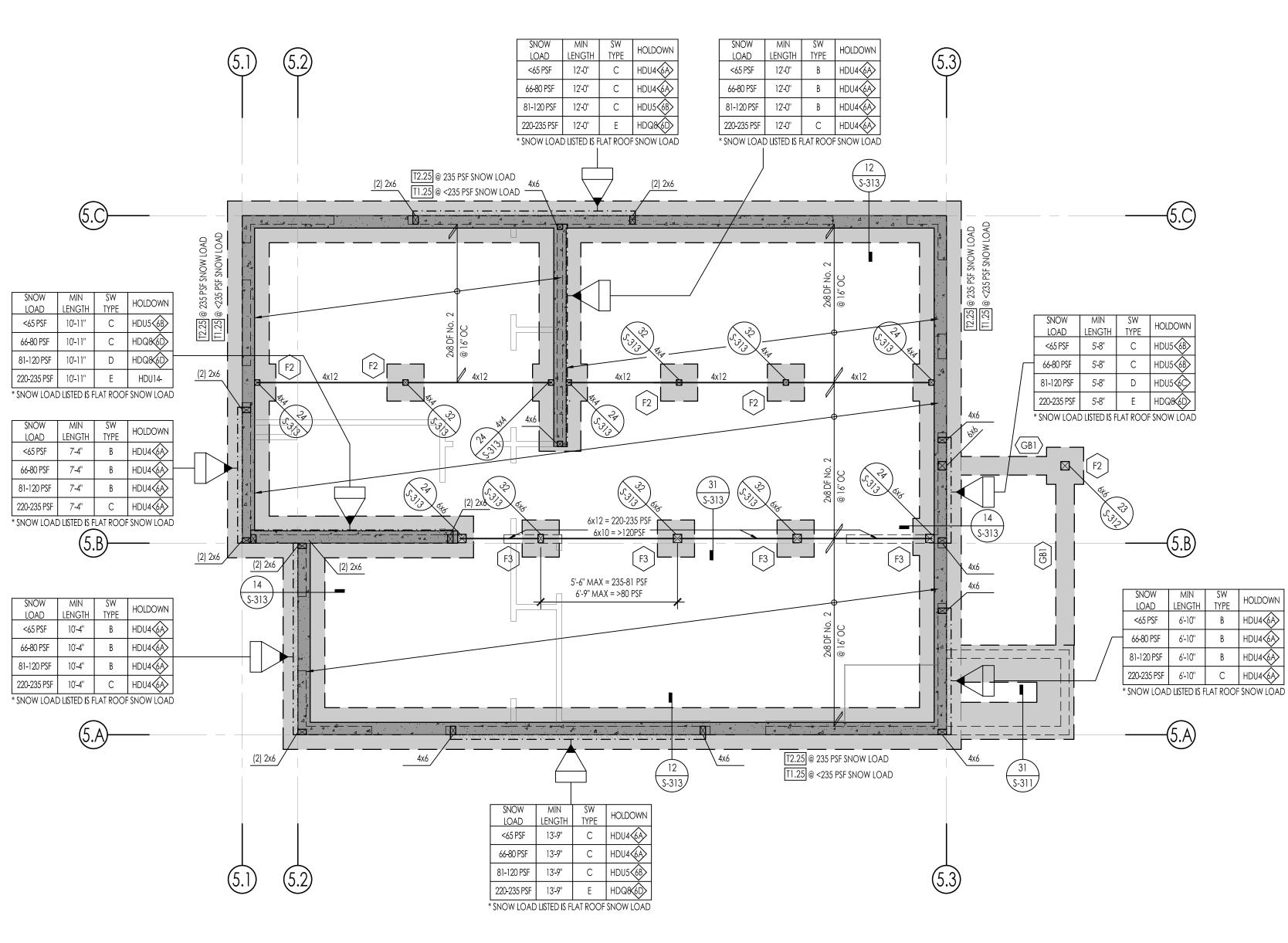
CUMENTS () Ο $\check{\Box}$ CONSTRUCTION

PROJECT NUMBER

SHEET

2340-01-CU21

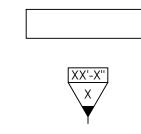
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FOUNDATION PLAN - RURAL MOUNTAIN RAISED FLOOR OPTION SCALE: 1/4" = 1'-0"

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			FOUNDATION	PLAN	n NOTES
1.	REFER TO THE FOLLOWING SHEETS I	FOR TYPICAL DETA	ILS:	13.	ALL HOLDOWN ANCHOR NUTS SHALL BE TIGHTENED JUST PRIOR TO COVERING.
	DESCRIPTION	SHEET (S)		14.	ALL BOLT HOLES IN WOOD MEMBERS, SHALL BE DRILLED A MAXIMUM OF 1/16" OVERSIZED.
	SYMBOLS AND ABBREVIATIONS STRUCTURAL GENERAL NOTES	S-101 S-102 - S-103			INSPECTOR TO VERIFY.
	TESTING AND INSPECTION	S-103		15.	THE BUILDING PAD SHALL BE PREPARED AS OUTLINED IN DETAIL 53/S-301. THE BUILDING OFFICIAL
	TYPICAL CONCRETE DETAILS	S-301			SHALL REQUIRE PAD CERTIFICATION BY A GEOTECHNICAL ENGINEER AT THEIR DISCRETION.
	TYPICAL WOOD DETAILS	S-401 - S-404		16.	bottom of footing shall be, unless deeper foundations are required by the building
2.	SEE ARCHITECTURAL DRAWINGS FO ELEVATION = 0'-0" COORESPONDS		R ELEVATIONS. REFERENCE FINISHED FLOOR R ELEVATION.		OFFICIAL: A. 18" BELOW PAD OR ADJACENT GRADE AT PERIMETER, WHICHEVER IS DEEPER, UNO. B. 18" BELOW PAD OR ADJACENT GRADE AT INTERIOR GRADE BEAMS, WHICHEVER IS DEEPER, UNO.
3.	ALL DIMENSIONS SHOWN ARE FRO CENTERLINE OF COLUMN. ALL COI		RETE/MASONRY, FACE OF SHEATHING, OR RED IN STUD WALLS, UNO.		NOTE: FOOTING MUST BE DEEPEND LOCALLY PER DETAIL 32/S-301 TO ACCOMMODATE ANCHOR BOLT HOLDOWN EMBED DEPTHS, OR FROST DEPTHS AS INDICATED BY THE BUILDING OFFICIAL.
4.	FOR ANY DIMENSIONAL INFORMAT	fion not shown,	SEE ARCHITECTURAL DRAWINGS.	17.	DIAPHRAGM TYPE:
5.	SEE ARCHITECTURAL DRAWINGS FO	OR ANY EMBEDDEE	D ITEMS AND ALL EXTERIOR CONCRETE PAVE		ALL FLOOR DIAPHRAGMS SHALL BE TYPE D, UNO REFER TO 12/S-403
6.	SEE PLANS AND ARCHITECTURAL D SLABS.	RAWINGS FOR DEF	PRESSIONS AND/OR SLOPES IN CONCRETE	18.	OWNER MAY SELECT EITHER SLAB ON GRADE FOUNDATION OR THE RAISED FLOOR FOUNDATION, TO SUIT THE SPECIFIC SITE.
7.	SEE ARCHIECTURAL DRAWINGS FO BEARING AND NON-BEARING WAL		ION OF ALL DOOR AND WINDOW OPENINGS IN	19.	WHERE RAISED FLOOR FOUNDATION IS SELECTED, OWNER HAS THE OPTION TO USE CRIPPLE STUD WALLS IN LIEU OF THE SPECIFIED CONCRETE STEM WALLS BELOW THE FLOOR FRAMING. CRIPPLE
8.	SEE ARCHITECTURAL DRAWINGS FO	OR LOCATION OF I	NTERIOR NON-BEARING PARTITIONS.		STUDS ARE TO MATCH TYPICAL WALL FRAMING, AND TO BE SHEATHED TO MATCH SHEARWALLS ABOVE. HOLDOWNS SPECIFIED SHALL BE INSTALLED ACROSS THE FLOOR FRAMING PER DETAIL 12/S-405 AND THEN INTO THE CONCRETE STEM WALL PER DETAILS 22/S-311 AND 24/S-311.
9.	SEE ARCHITECTURAL, PLUMBING, N EMBEDDED ITEMS AND SLAB PENET		ELECTRICAL DRAWINGS FOR ADDITIONAL	20.	REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF UNDERFLOOR ACCESS HOLE.
10.	FOR TYPICAL SLAB-ON-GRADE REG	QUIREMENTS, INCLU	IDING SLAB JOINTS, SEE DETAIL 31/S-301.	21.	REFER TO ARCHITECTURAL DRAWINGS FOR UNDERFLOOR HEIGHT ALLOWANCE.
11.	ALL POSTS IN 4" WALLS SHALL BE 4x ALL POSTS IN 6" WALLS SHALL BE 6x			22.	ALL SNOW LOADS LISTED ARE THE FLAT ROOF SNOW LOAD. TO FIND THE FLAT ROOF SNOW LOAD, FOLLOW THIS EQUATION: FLAT ROOF SNOW = 0.77 x GROUND SNOW LOAD.
12.	PLATE WASHERS ARE REQUIRED FO WASHER REQUIREMENTS AT SHEAR		NCHOR BOLTS. REFER TO 34/S-402 FOR PLATE	23.	LOCATION OF CRAWL SPACE ACCESS IS SPECIFIC TO SITE. REFER TO DETAIL 33/S-313 FOR OPENING AT CONC WALL FOOTING.



4

SYMBOL LEGEND

SEE SCHEDULE ON 13/S-402

INDICATES SHEAR WALL TYPE AND LENGTH,

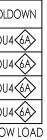
INDICATES CONCRETE WALL PER DETAIL 22/S-311

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

SCHEDULES

				SCHEDUL	-E2								
			CONTINUOUS F	OOTING SCHEDUI	LE					GRADE BEA	M SCHEDULE		
MA	ARK	WIDTH	MIN EMBED BELOW LOWEST PAD GRADE	LONG REINF	TRANS REINF	DETAIL	TYPE	WIDTH	THICKNESS	MIN EMBED BELOW LOWEST	LONG REINF	TRANS REINF	DETAIL
CI	.25	1'-3"	SEE NOTE 16	(2) #5 T&B	#3 @ 12" OC, BOT	31/S-311	(GB1)	1'-0''	1'-0"	PAD GRADE	(2) #4 @ TOP	#3 @ 24" OC	13/S-312
	2	2'-0''	SEE NOTE 16	(3) #5 T&B	#3 @ 12" OC, BOT	31/S-311					(2) #4 @ BOT		-

			T-FOOTING	SCHEDULE						PAI	D FOOTING SCHEI	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/S-312	F2	2'-0''	2'-0''	1'-6"	SEE NOTE 16	(3) #5, EW	(3) #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	F3	3'-0''	3'-0''	1'-6"	SEE NOTE 16	(4) #5, EW	(4) #5, EW	11/S-312
							F5	5'-0''	5'-0''	1'-6"	SEE NOTE 16	(6) #5, EW	(6) #5, EW	11/S-312
							NOTE:	FOOTI	NG MUST I	BE DEEPENED	LOCALLY PER DE	TAIL 32/S-301 TO	D ACCOMMOD	ATE AB





HOLDOWN EMBED DEPTHS



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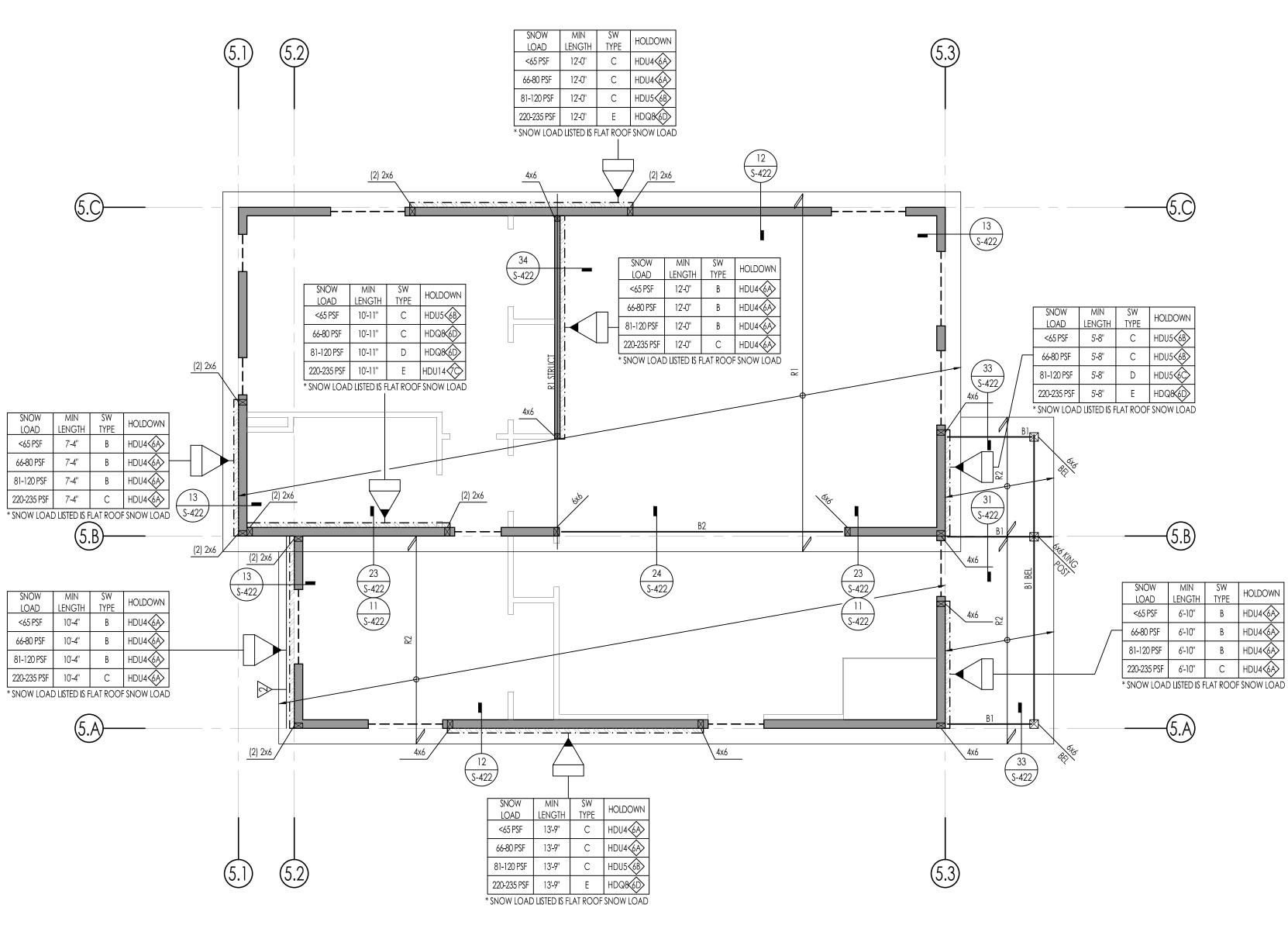
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AGENCY

ADU N PLAN JNTAIN -OOR MONO COUNTY PROTOTYPES **NOIL** JUN FOUNDATIO RURAL MOI RAISED F VONO

NO. REVISION DATE PROJECT MANAGER J. MEADOWS CHECKED BY M. DOREMUS DRAWN BY A.LOPEZ DATE AUGUST 18, 2022 **PROJECT NUMBER** 2340-01-CU21 SHEET S5-201B.2

CUMENTS 0 0 CONSTRUCTION



ROOF PLAN - HIGH DESERT SCALE: 1/4" = 1'-0"

			ROOF FRA	MING F	PLAN NOTES
1.		DIMENSIONS TO BE	S AND ELEVATIONS INCLUDING, BUT NOT VERIFIED PRIOR TO CONSTRUCTION: L	8.	ALL LINES AND/OR MEMBERS INDICATED AS NAILING (BN), STGR.
	B. ALL DIMENSIONS, ELEVATIONC. LOCATION AND EXTENT OF ED. ALL NON STRUCTURAL WALL	EXTERIOR WALL ASS	, SLOPES, DRAINS, SLAB DEPRESSIONS, ETC EMBLIES AND OPENINGS	9.	TRUSS MEMBERS AND COMPONENTS SHALL ALTERED IN ANY WAY WTHOUT WRITTEN COI DESIGN PROFESSIONAL.
2.	REFER TO THE FOLLOWING SHEETS DESCRIPTION SYMBOLS AND ABBREVIATIONS	FOR TYPICAL DETAI SHEET (S) S-101	LS:	10.	ALTERATIONS RESULTING IN THE ADDTION OF WATER HEATER) SHALL NOT BE PERMITTED W SUPPORTING SUCH ADDITIONAL LOADING.
	STRUCTURAL GENERAL NOTES	S-102 - S-103		11.	TRUSSES ARE TO BE DESIGNED FOR THE PROF

WOOD TRUSSES 1.B.a.

BUILDING DEPARTMENT.

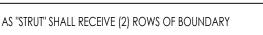
INTERRUPTED BY A DOORWAY OR WINDOW.

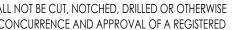
S-102 - S-103
S-103
S-301
S-401 - S-405

- 3. SEE ARCHITECTURAL DRAWINGS FOR ALL TOP OF SHEATHING AND TOP OF WALL ELEVATIONS.
- 4. SEE ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF PIPES, DUCTS AND OTHER ROOF PENETRATIONS. FOR ROOF PENETRATIONS NOT SHOWN ON ROOF FRAMING PLAN, SEE DETAIL 23/S-403 FOR TYPICAL OPENINGS, UNO.
- 5. ALL POSTS IN 4" WALLS SHALL BE 4x4, UNLESS NOTED OTHERWISE. ALL POSTS IN 6" WALLS SHALL BE 6x6, UNLESS NOTED OTHERWISE.

TYPICAL WALL FRAMING SHALL BE: 2x6 @ 16" OC @ ALL EXTERIOR WALLS, UNO 2x6 @ 16" OC @ ALL INTERIOR BEARING WALLS, UNO 2x4 @ 16" @ ALL INTERIOR NON-BEARING WALLS, UNO

- 6. ALL INTERIOR WALLS NOT SHOWN ON THE STRUCTURAL FRAMING PLANS BUT SHOWN ON THE ARCHIECTURAL DRAWINGS SHALL BE CONSTRUCTED PER NON-BEARING PARTION WALL DETAIL 43/S-401, UNO.
- 7. 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 B 220-235 PSF SNOW LOAD, ROOF DIAPHRAGM, TYPE C REFER TO 12/-403





I OF LOADS TO ANY MEMBER (E.G. HVAC EQUIPMENT, D WITHOUT VERIFICATION THAT THE TRUSS IS CAPABLE OF

ROPER SITE SPECIFIC SNOW LOAD. TRUSS DRAWINGS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. FOR OTHER TRUSSES DESIGN CRITERIA REFER TO SHEET S-103 PREFABRICATED

12. TRUSSES SHALL INCLUDED PROPER ICE DAMN LOADING AT EAVES, SLIDING SNOW AND SNOW DRIFTS PER ASCE 7-16 WHERE APPLICABLE BASED ON THE ROOF CONFIGURATION.

13. WHERE THE OWNER WOULD LIKE TO SUBSTITUTE TRUSSES IN PLACE OF SPECIFIED RAFTERS THAT IS STRUCTURALLY ACCEPTABLE. THESE TRUSSES SHALL BE INCLUDED IN THE SUBMITTAL TO THE

14. AL LUMBER EXPOSED TO THE ELEMENTS SHALL BE SELECT STRUCTURAL GRADE.

15. SHEARWALL CONSTRUCTION, HOLDOWNS, RAFTERS AND HEADERS SHALL BE SELECTED FROM THE TABLES BASED ON THE SNOW LOADING FOR THE SPECIFIC SITE.

16. SHEARWALL LENGTHS LISTED IN THE TABLES ABOVE ARE CONSIDERED THE MINIMUMS. THE SHEARWALL CAN BE PLACED ANYWHERE ALONG THE BUILDING LINE AS LONG AS IT IS NOT

17. ALL SNOW LOADS LISTED ARE THE FLAT ROOF SNOW LOAD. TO FIND THE FLAT ROOF SNOW LOAD, FOLLOW THIS EQUATION: FLAT ROOF SNOW = 0.77 x GROUND SNOW LOAD.

SYMBOL LEGEND

XX'-X''

X /

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—(X)

DSC#

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 HOLI STRAP DETAIL	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



SCHEDULES



R	OOF RAFTER SCHEDULE	
SNOW LOAD	SIZE	REMARKS
<65 PSF	(2) 2x12 @ 16" OC	
66-80 PSF	(2) 2x12 @ 12" OC	
81-120 PSF	(2) 2x14 @ 12" OC	
220-235 PSF	(2) 1 ¾" x 14" LVL @ 16" OC	
<65 PSF	2x10 @ 16" OC	
66-80 PSF	2x10 @ 16" OC	
81-120 PSF	2x12 @ 16" OC	
220-235 PSF	(2) 2x12 @ 16" OC	
	SNOW LOAD <65 PSF	<65 PSF (2) 2x12 @ 16" OC 66-80 PSF (2) 2x12 @ 12" OC 81-120 PSF (2) 2x14 @ 12" OC 220-235 PSF (2) 1 ¾" x 14" LVL @ 16" OC <65 PSF

		BEAM SCHEDULE	
MARK	SNOW LOAD	SIZE	REMARKS
ום	<120 PSF	6x10	
B1	121-235 PSF	6x14	
	<80 PSF	5.5x16 GLB	
B2	81-120 PSF	5.5x19.5 GLB	
	121-235 PSF	5.5x25.5 GLB	

design group rrmdesign.com | (805) 543-1794 3765 S. Higuera, San Luis Obispo, CA 93401

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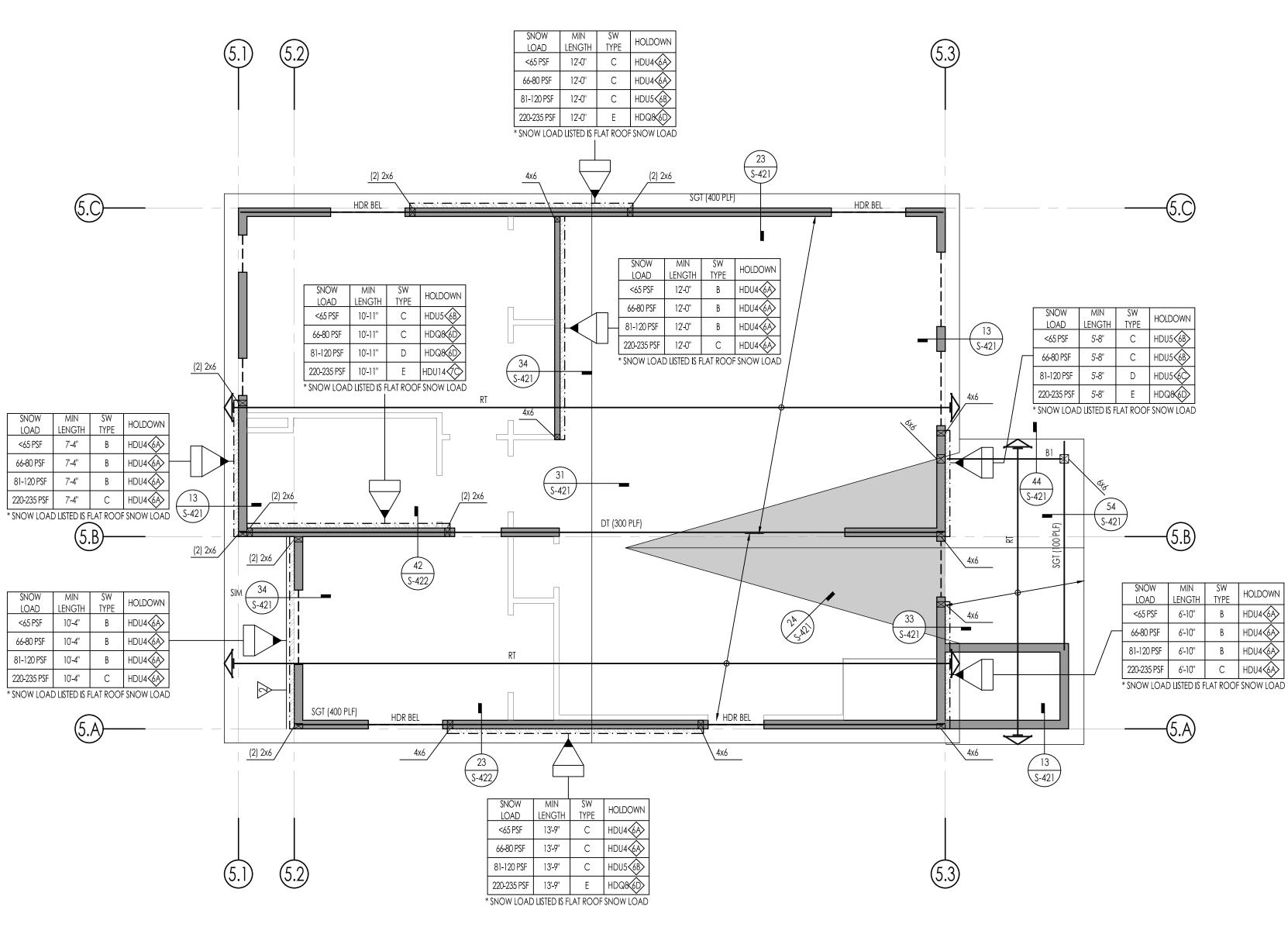
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S5-202A

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ROOF FRAMING PLAN - RURAL MOUNTAIN

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

5. ALL POSTS IN 4" WALLS SHALL BE 4x4, UNLESS NOTED OTHERWISE.

ALL POSTS IN 6" WALLS SHALL BE 6x6, UNLESS NOTED OTHERWISE.

SHOWN ON ROOF FRAMING PLAN, SEE DETAIL 23/S-403 FOR TYPICAL OPENINGS, UNO.

6. ALL INTERIOR WALLS NOT SHOWN ON THE STRUCTURAL FRAMING PLANS BUT SHOWN ON THE

ARCHIECTURAL DRAWINGS SHALL BE CONSTRUCTED PER NON-BEARING PARTION WALL DETAIL

TYPICAL WALL FRAMING SHALL BE:

43/S-401, UNO.

7. DIAPHRAGM TYPES:

REFER TO 12/-403

2x6 @ 16" OC @ ALL EXTERIOR WALLS, UNO

2x6 @ 16" OC @ ALL INTERIOR BEARING WALLS, UNO

2x4 @ 16" @ ALL INTERIOR NON-BEARING WALLS, UNO

< 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 B

220-235 PSF SNOW LOAD, ROOF DIAPHRAGM, TYPE C

			ROOF FRA	MING PLAN NOTES			
1.		DIMENSIONS TO BE	IS AND ELEVATIONS INCLUDING, BUT NOT VERIFIED PRIOR TO CONSTRUCTION: IL	8.	ALL LINES AND/OR MEMBERS INDICATED AS "STRUT" SHALL REG NAILING (BN), STGR.		
		NS, FINISH SURFACE	, SLOPES, DRAINS, SLAB DEPRESSIONS, ETC	9.	TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CUT, NOT ALTERED IN ANY WAY WTHOUT WRITTEN CONCURRENCE AND DESIGN PROFESSIONAL.		
2.	REFER TO THE FOLLOWING SHEETS	FOR TYPICAL DETA	ILS:	10.	ALTERATIONS RESULTING IN THE ADDTION OF LOADS TO ANY		
	DESCRIPTION	SHEET (S)			WATER HEATER) SHALL NOT BE PERMITTED WITHOUT VERIFICAT 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 SPECIFIC		
	TESTING AND INSPECTION	S-103			SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT FOR REVI		
	TYPICAL CONCRETE DETAILS	S-301			FABRICATION. FOR OTHER TRUSSES DESIGN CRITERIA REFER TO WOOD TRUSSES 1.B.a.		
	TYPICAL WOOD DETAILS	S-401 - S-404					
3.	SEE ARCHITECTURAL DRAWINGS F	OR ALL TOP OF SHE	EATHING AND TOP OF WALL ELEVATIONS.	12.	TRUSSES SHALL INCLUDED PROPER ICE DAMN LOADING AT EA DRIFTS PER ASCE 7-16 WHERE APPLICABLE BASED ON THE ROO		
4.			ELECTRICAL DRAWINGS FOR SIZE AND IRATIONS. FOR ROOF PENETRATIONS NOT	13.	WHERE THE OWNER WOULD LIKE TO SUBSTITUTE TRUSSES IN PLA STRUCTURALLY ACCEPTABLE. THESE TRUSSES SHALL BE INCLUD		

- STRUCTURALLY ACCEPTABLE. THESE TRUSSES SHALL BE INCLUDED IN THE SUBMITTAL TO THE BUILDING DEPARTMENT.
- 14. AL LUMBER EXPOSED TO THE ELEMENTS SHALL BE SELECT STRUCTURAL GRADE.
- 15. SHEARWALL CONSTRUCTION, HOLDOWNS, RAFTERS AND HEADERS SHALL BE SELECTED FROM THE TABLES BASED ON THE SNOW LOADING FOR THE SPECIFIC SITE.
- 16. SHEARWALL LENGTHS LISTED IN THE TABLES ABOVE ARE CONSIDERED THE MINIMUMS. THE SHEARWALL CAN BE PLACED ANYWHERE ALONG THE BUILDING LINE AS LONG AS IT IS NOT INTERRUPTED BY A DOORWAY OR WINDOW.
- 17. ALL SNOW LOADS LISTED ARE THE FLAT ROOF SNOW LOAD. TO FIND THE FLAT ROOF SNOW LOAD, FOLLOW THIS EQUATION: FLAT ROOF SNOW = 0.77 x GROUND SNOW LOAD.

RECEIVE (2) ROWS OF BOUNDARY

IOTCHED, DRILLED OR OTHERWISE ND APPROVAL OF A REGISTERED

NY MEMBER (E.G. HVAC EQUIPMENT, CATION THAT THE TRUSS IS CAPABLE OF

C SNOW LOAD. TRUSS DRAWINGS EVIEW AND APPROVAL PRIOR TO R TO SHEET S-103 PRE-FABRICATED

T EAVES, SLIDING SNOW AND SNOW ROOF CONFIGURATION.

PLACE OF SPECIFIED RAFTERS THAT IS

SYMBOL LEGEND

XX'-X''

X /

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—(X)

DSC#

-

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

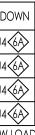
INDICATES CONT BLK & STRAP PER 24/S-405 @ ROOF, UNO

INDICATES STRAP PER 34/S-405, UNO

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

	HOLDOWN SCHEDULE	
SPECIFIES HOL STRAP DETAIL	DOWN/	DETAIL
6 x	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





PREFABRIC	CATED ROOF TRUSS NOTES SEE NOT	ies on sheet s-103
	ROOF TRUSS SCHEDULE	
MARK	DESCRIPTION	REMARKS
RT	ROOF TRUSS (COMMON)	24" OC MAX
SGT	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 MAX
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

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

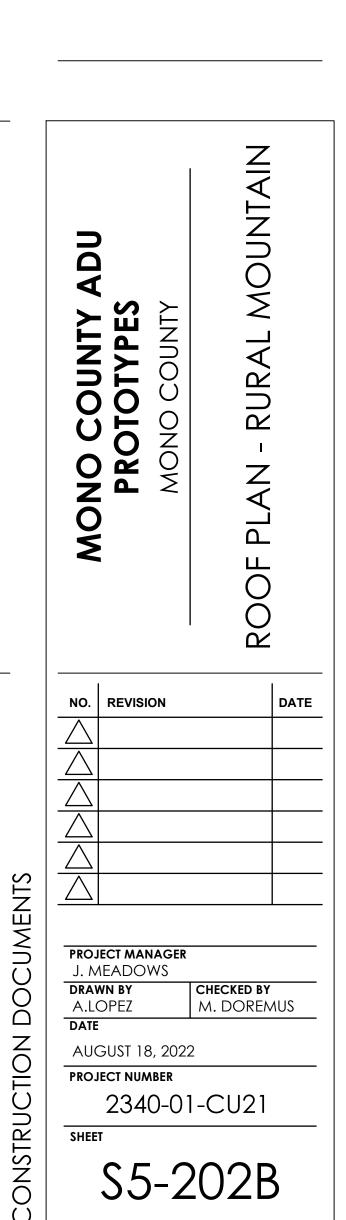


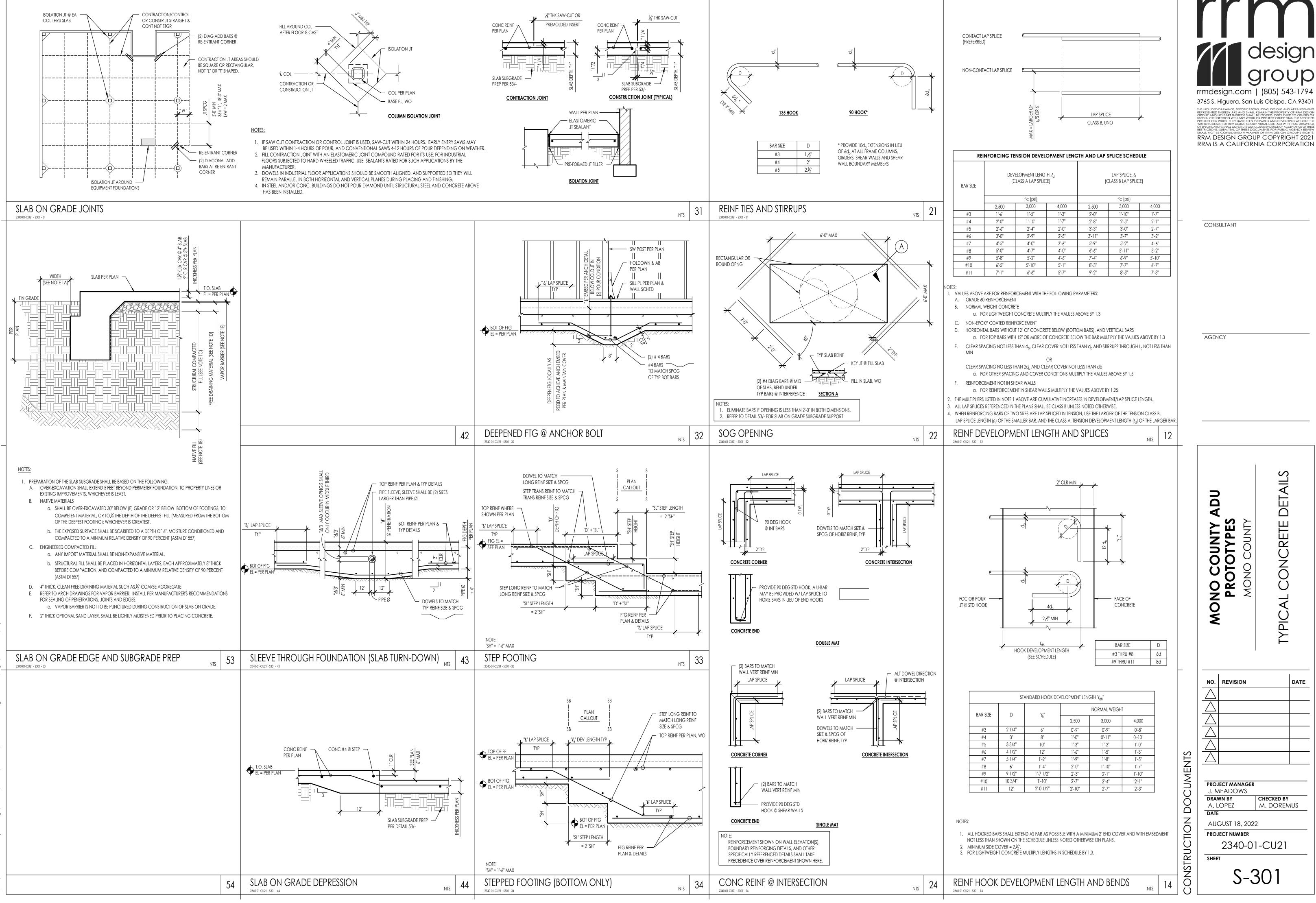
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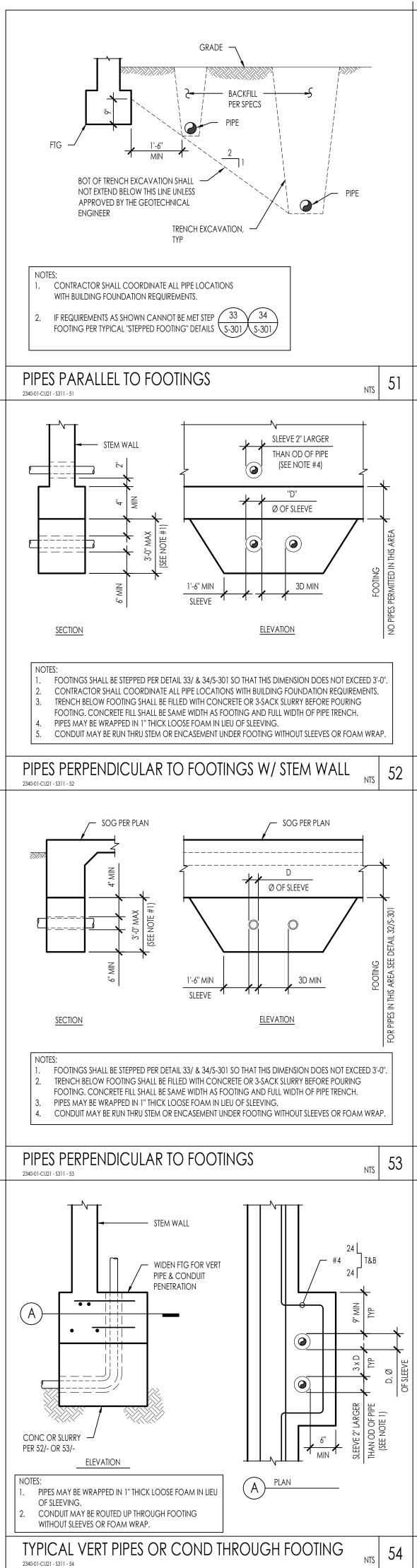
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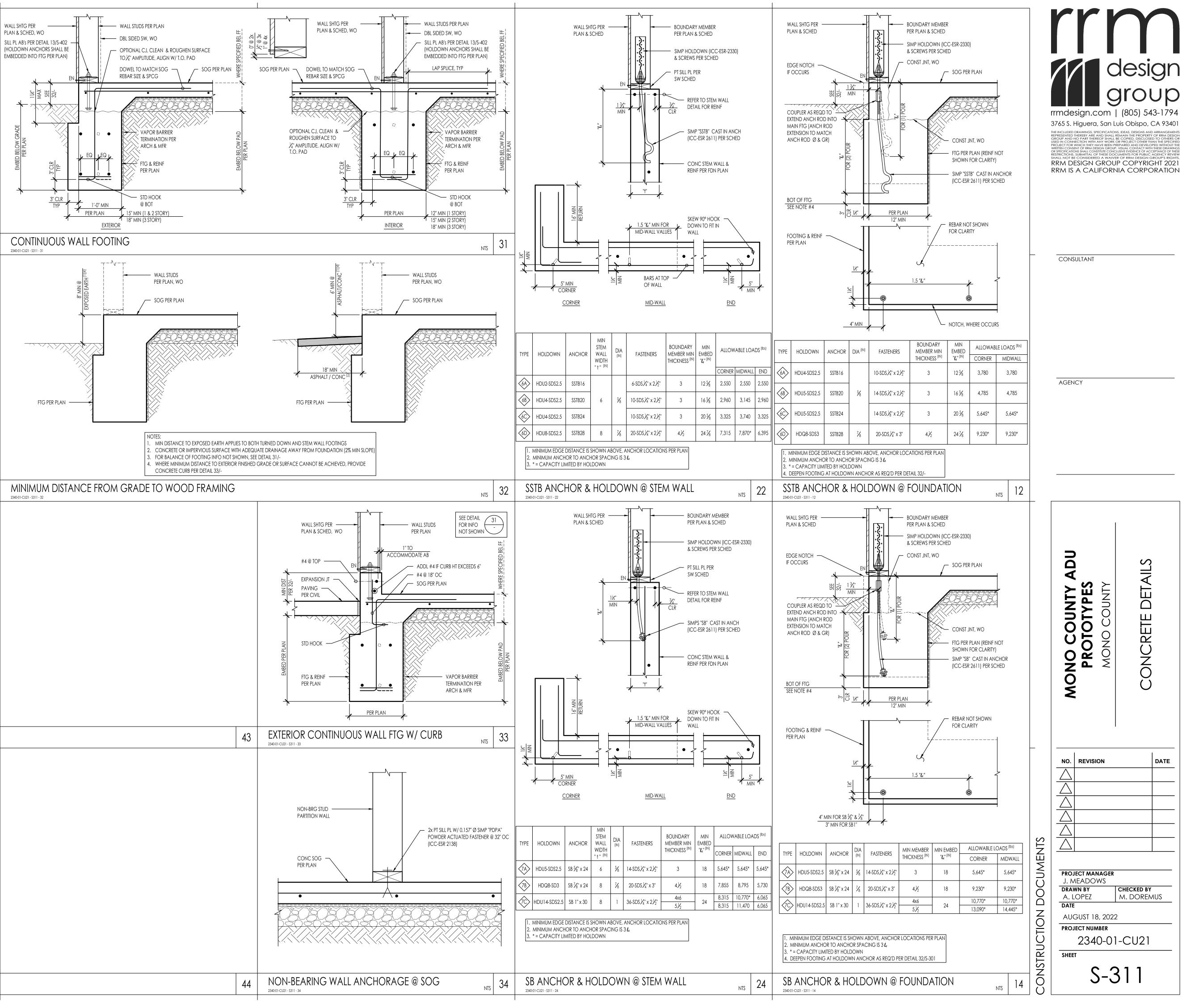
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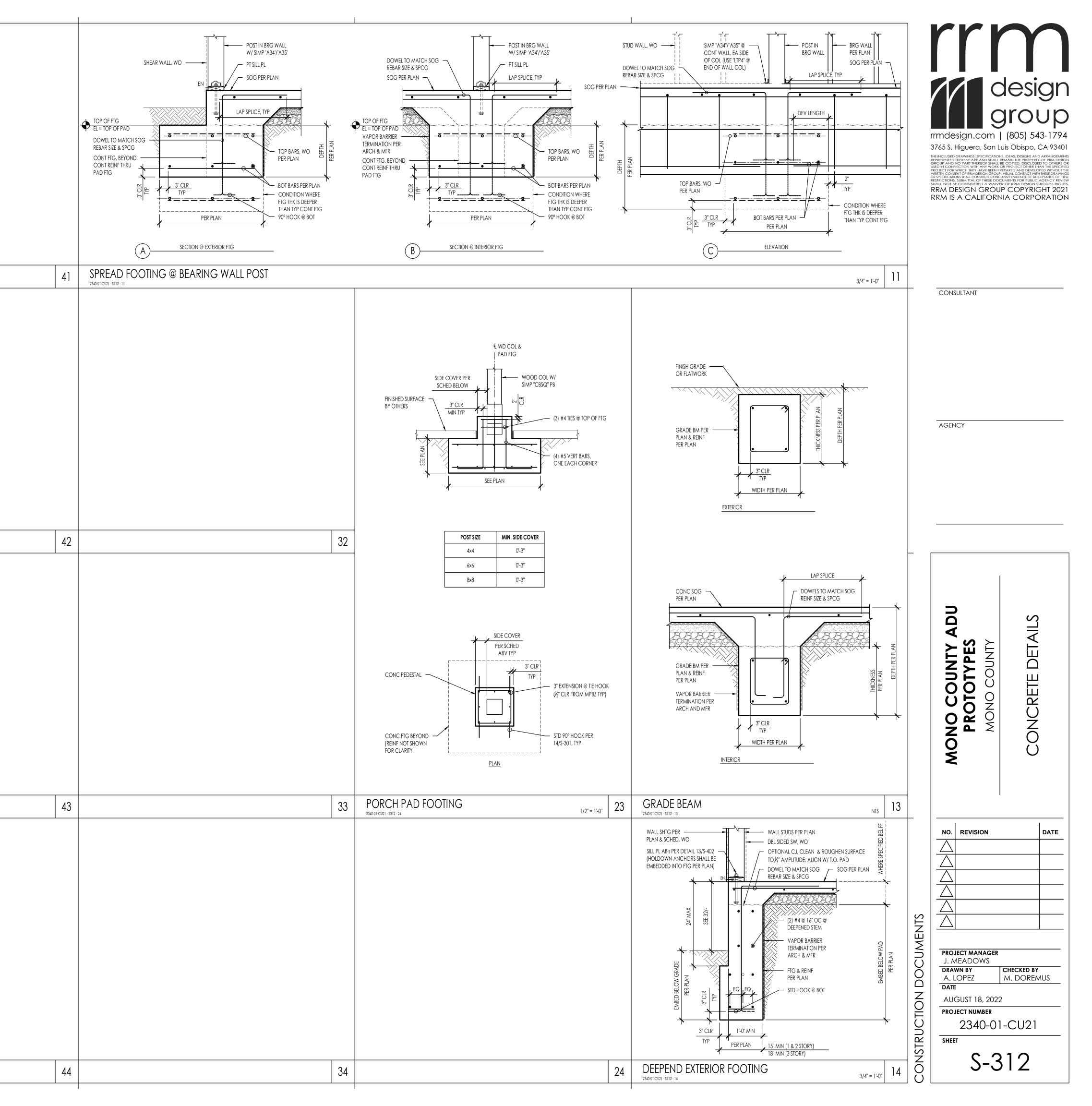


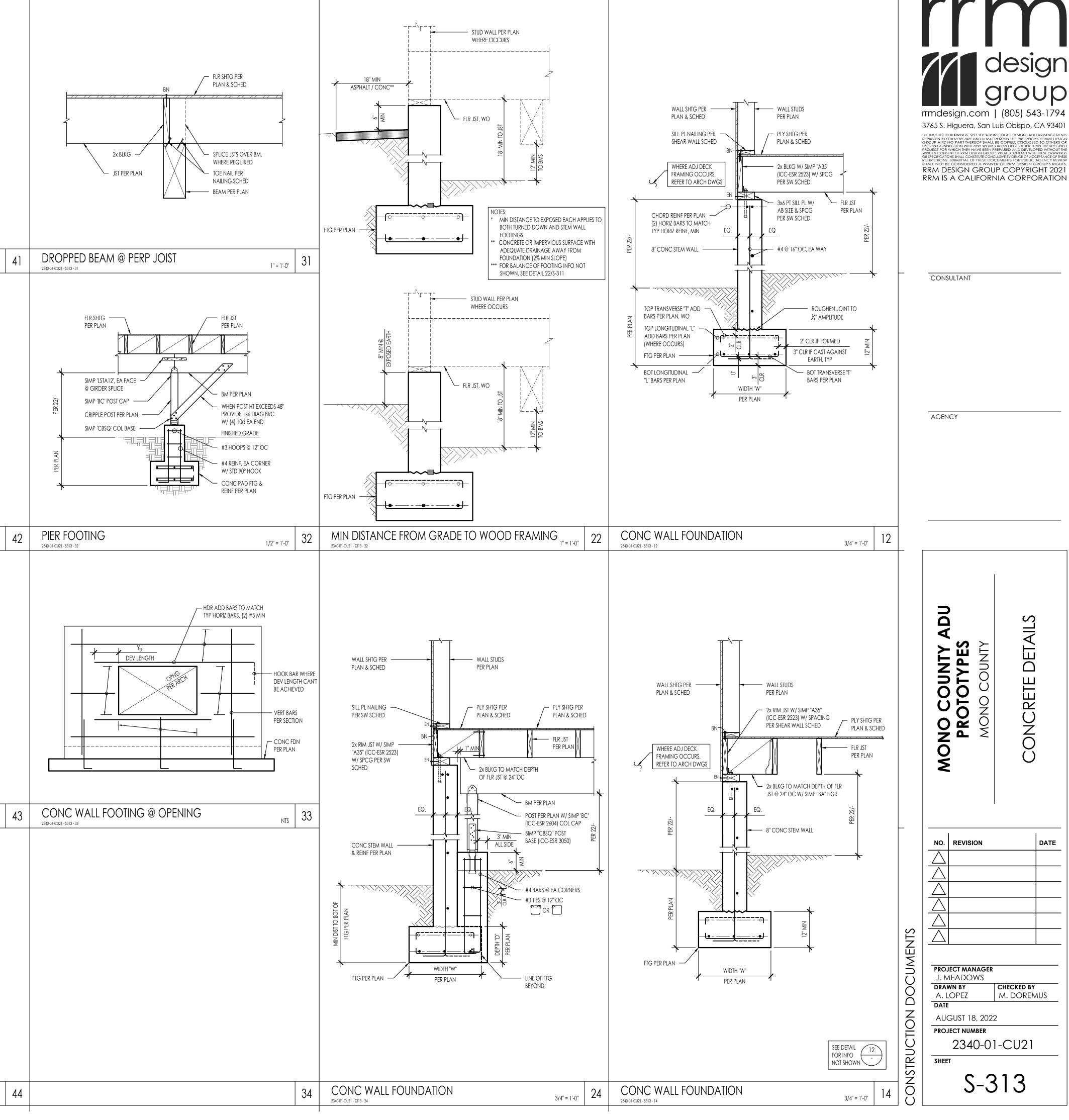




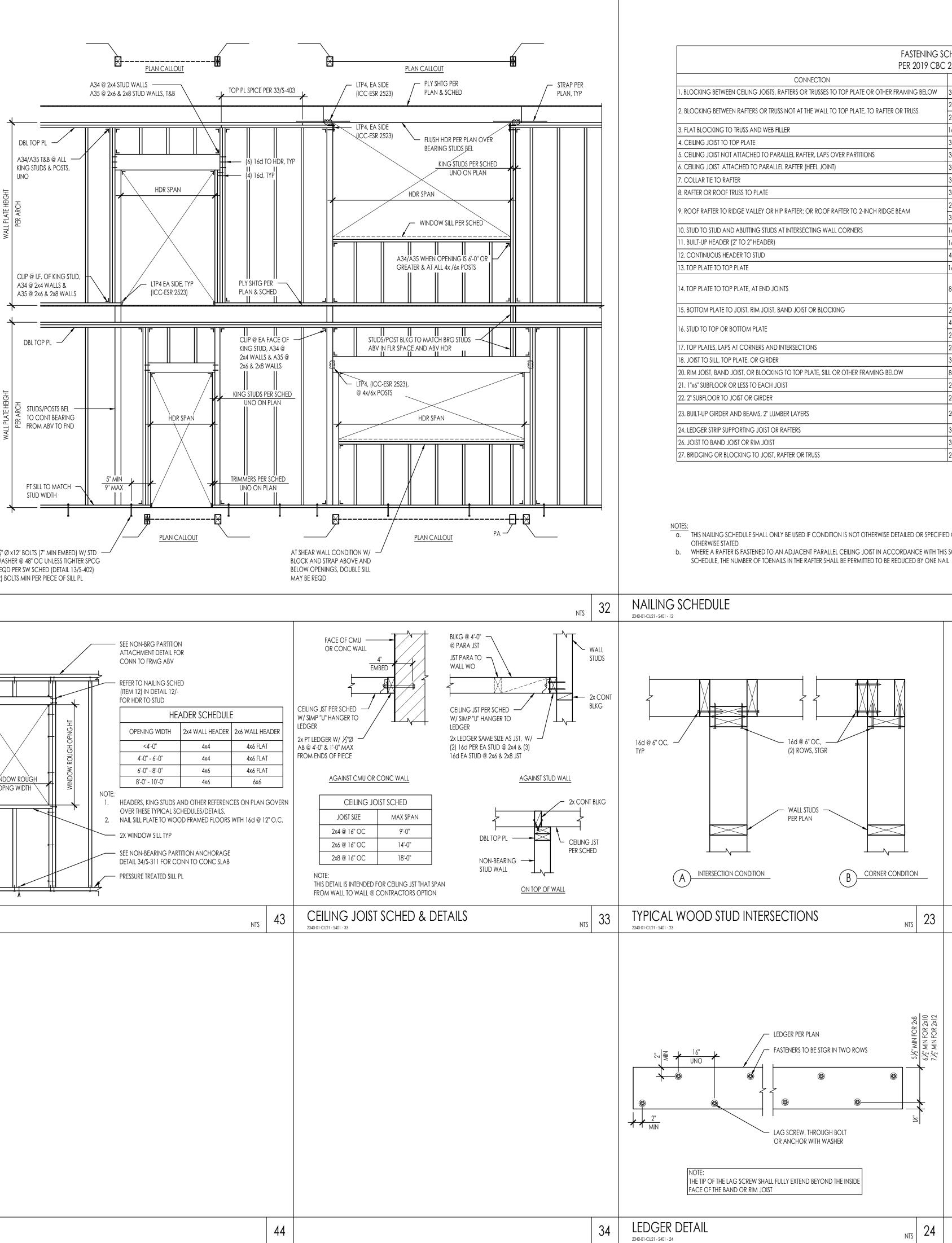


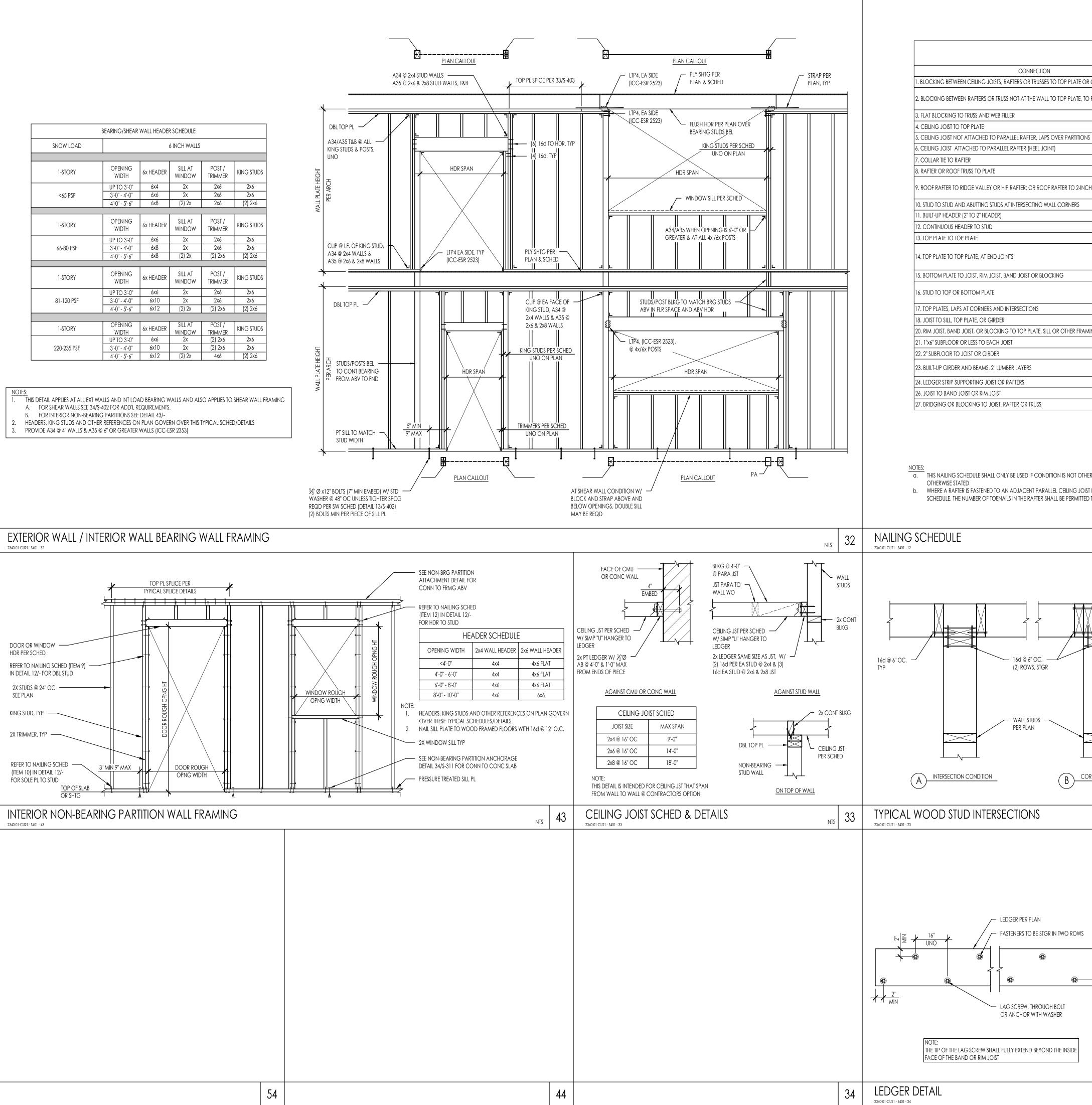
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	BEARING/SHEAR	WALL HEADER	R SCHEDULE		
SNOW LOAD			6 INCH WALLS		
					1
1-STORY	OPENING WIDTH	6x HEADER	SILL AT WINDOW	POST / TRIMMER	
	UP TO 3'-0"	6x4	2x	2x6	2x6
<65 PSF	3'-0" - 4'-0"	6x6	2x	2x6	2x6
	4'-0" - 5'-6"	6x8	(2) 2x	2x6	(2) 2x6
					-
1-STORY	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-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 STUD
	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

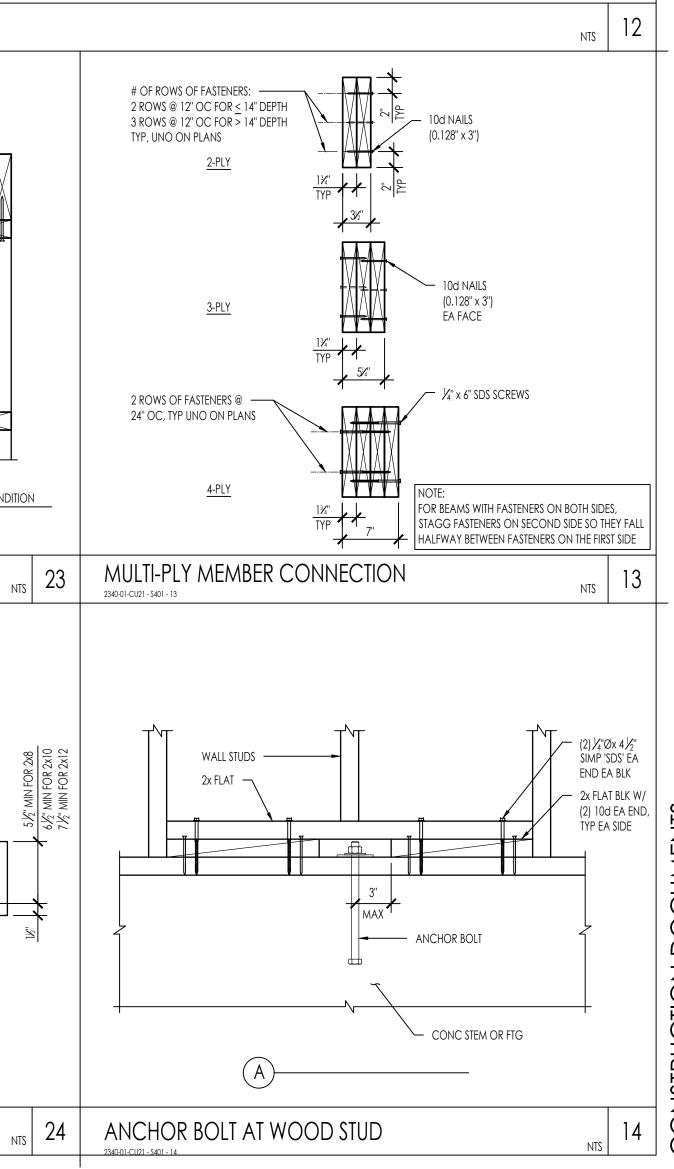


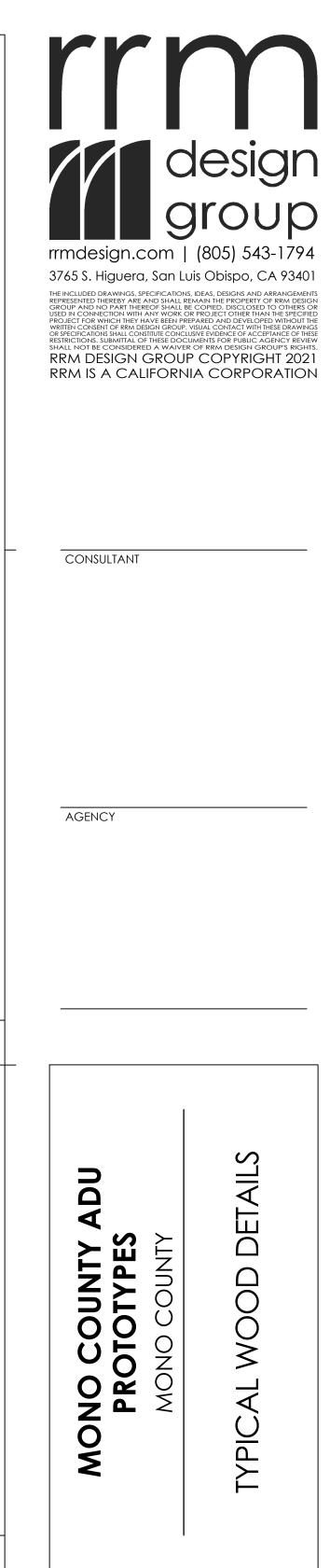


FASTENING SCHEDULE PER 2019 CBC 2304.10.1

	FASTENING	LOCATION		
IER FRAMING BELOW	3-8d COMMON	EACH END, TOENAIL		
	2-8d COMMON	EACH END, TOENAIL		
HER FRAMING BELOW 3-8d COMMON EACH END, TOENAIL TER OR TRUSS 2-8d COMMON EACH END, TOENAIL 2-16d COMMON @ 6" OC FACE NAIL 3-8d COMMON @ 6" OC FACE NAIL 3-8d COMMON EACH JOIST, TOENAIL 3-16d COMMON FACE NAIL 3-10d COMMON FACE NAIL 3-10d COMMON TOENAIL® 2-16d COMMON TOENAIL 3-10d COMMON TOENAIL 3-10d COMMON TOENAIL 16d COMMON TOENAIL 2-16d COMMON TOENAIL 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			
JGE DEAM	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 SID 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		
BELOW	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		

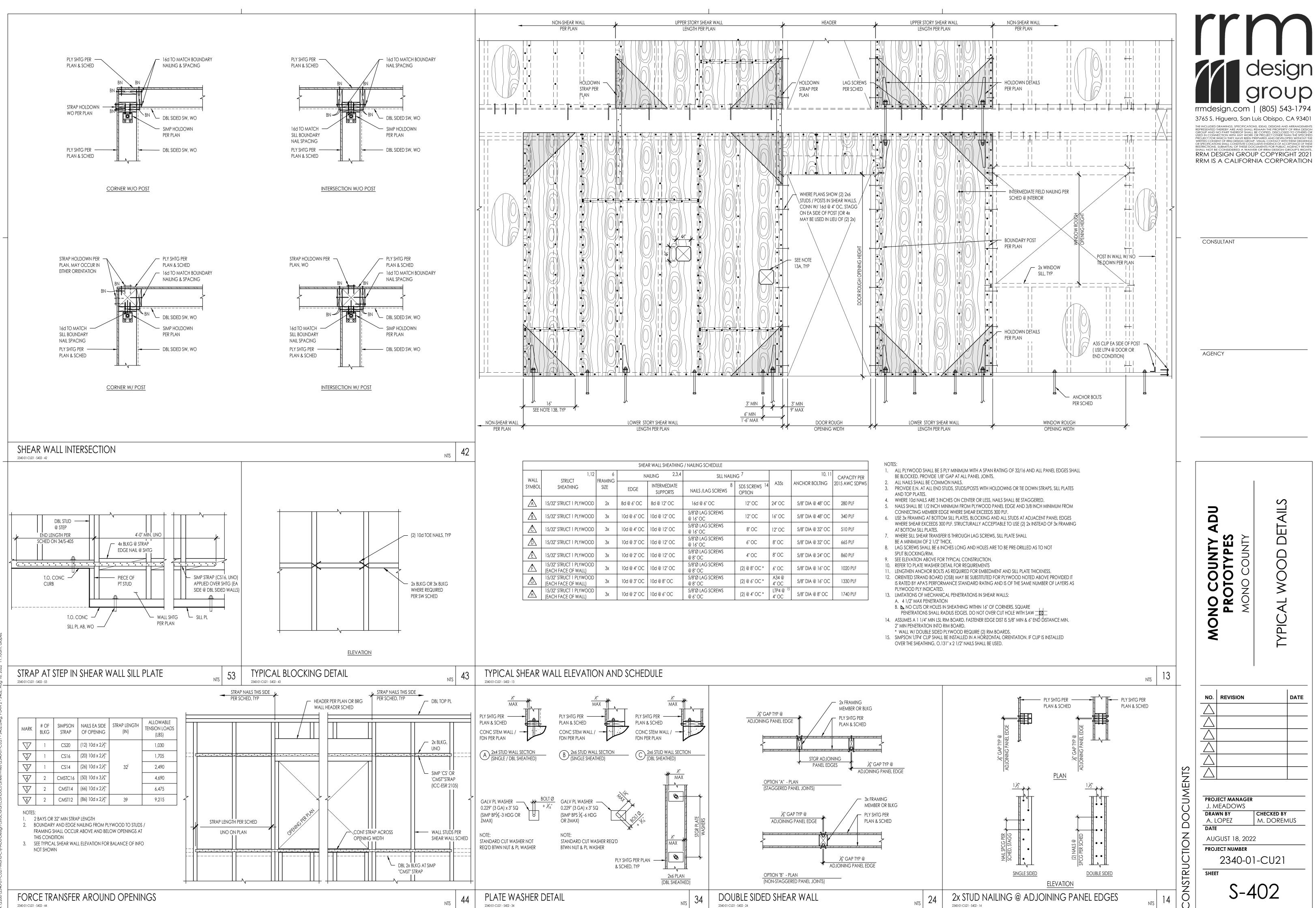
a. THIS NAILING SCHEDULE SHALL ONLY BE USED IF CONDITION IS NOT OTHERWISE DETAILED OR SPECIFIED ON THE CONSTRUCTION DOCUMENTS. COMMON NAILS SHALL BE USED EXCEPT WHERE b. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED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



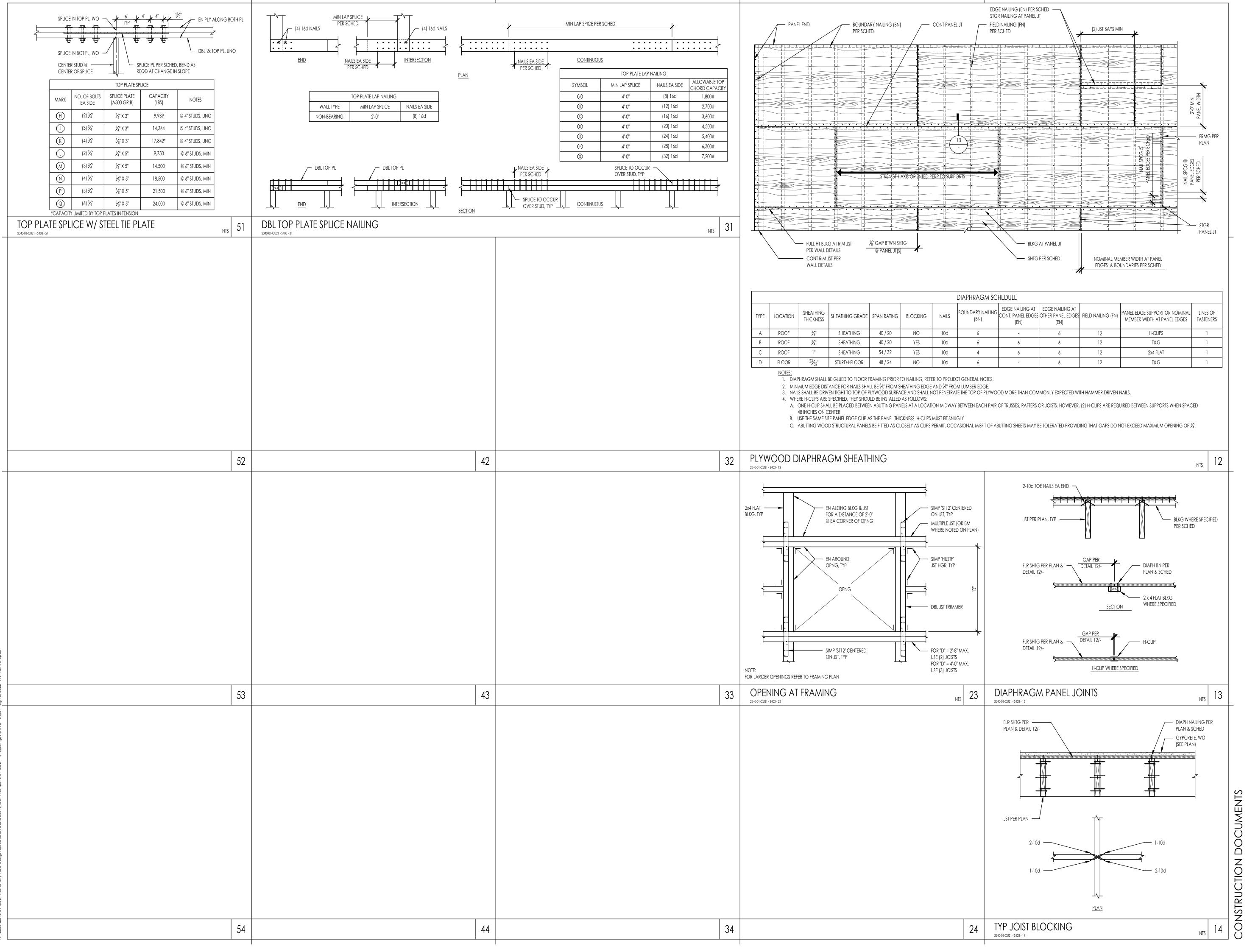


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ONSTRUCTION DOCUMENTS		S-2	401	

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	SHEAR WALL SHEATHING / NAILING SCHEDULE								
WALL	1,12 STRUCT	6 FRAMING	N	AILING 2,3,4	SILL NAILIN	NG ⁷		10, 11	CAPACITY PER
SYMBOL	SHEATHING	SIZE	EDGE	INTERMEDIATE SUPPORTS	8 NAILS /LAG SCREWS	SDS SCREWS ¹⁴ OPTION	A35s	ANCHOR BOLTING	2015 AWC SDPWS
	15/32" STRUCT 1 PLYWOOD	2x	8d @ 6" OC	8d @ 12" OC	16d @ 6" OC	12" OC	24" OC	5/8" DIA @ 48" OC	280 PLF
ß	15/32" STRUCT 1 PLYWOOD	3x	10d @ 6" OC	10d @ 12" OC	5/8"Ø LAG SCREWS @ 16" OC	12" OC	16" OC	5/8" DIA @ 48" OC	340 PLF
	15/32" STRUCT 1 PLYWOOD	3x	10d @ 4" OC	10d @ 12" OC	5/8"Ø LAG SCREWS @ 16" OC	8" OC	12" OC	5/8" DIA @ 32" OC	510 PLF
	15/32" STRUCT 1 PLYWOOD	3x	10d @ 3" OC	10d @ 12" OC	5/8"Ø LAG SCREWS @ 16" OC	6" OC	8" OC	5/8" DIA @ 32" OC	665 PLF
Ē	15/32" STRUCT 1 PLYWOOD	3x	10d @ 2" OC	10d @ 12" OC	5/8"Ø LAG SCREWS @ 8" OC	4" OC	8" OC	5/8" DIA @ 24" OC	860 PLF
Ē	15/32" STRUCT 1 PLYWOOD (EACH FACE OF WALL)	3x	10d @ 4" OC	10d @ 12" OC	5/8'Ø LAG SCREWS @ 8'' OC	(2) @ 8" OC *	6" OC	5/8" DIA @ 16" OC	1020 PLF
	15/32" STRUCT 1 PLYWOOD (EACH FACE OF WALL)	3x	10d @ 3" OC	10d @ 8" OC	5/8"Ø LAG SCREWS @ 8" OC	(2) @ 6" OC *	A34 @ 4" OC	5/8" DIA @ 16" OC	1330 PLF
	15/32" STRUCT 1 PLYWOOD (EACH FACE OF WALL)	3x	10d @ 2" OC	10d @ 6" OC	5/8"Ø LAG SCREWS @ 6" OC	(2) @ 4" OC *	LTP4 @ ¹⁵ 4" OC	5/8" DIA @ 8" OC	1740 PLF



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

design rrmdesign.com | (805) 543-1794 3765 S. Higuera, San Luis Obispo, CA 93401

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MONO COUNTY A PROTOTYPES MONO COUNTY

NO. REVISION

PROJECT MANAGER J. MEADOWS

AUGUST 18, 2022

2340-01-CU21

S-403

PROJECT NUMBER

DRAWN BY

A. LOPEZ

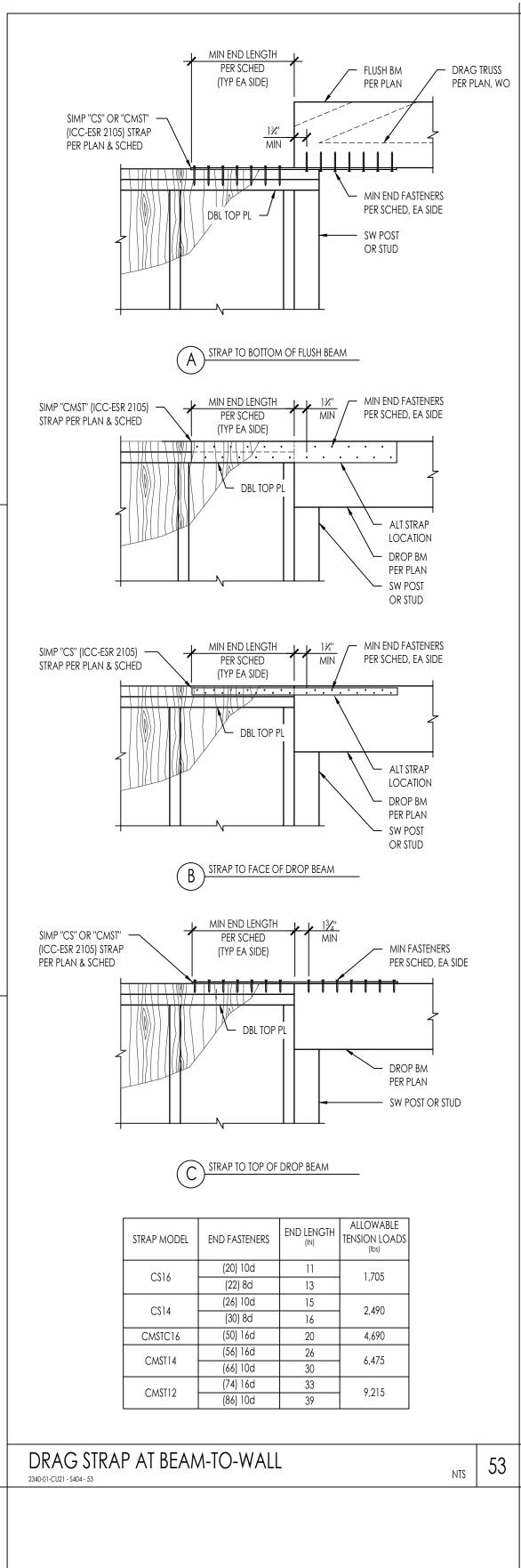
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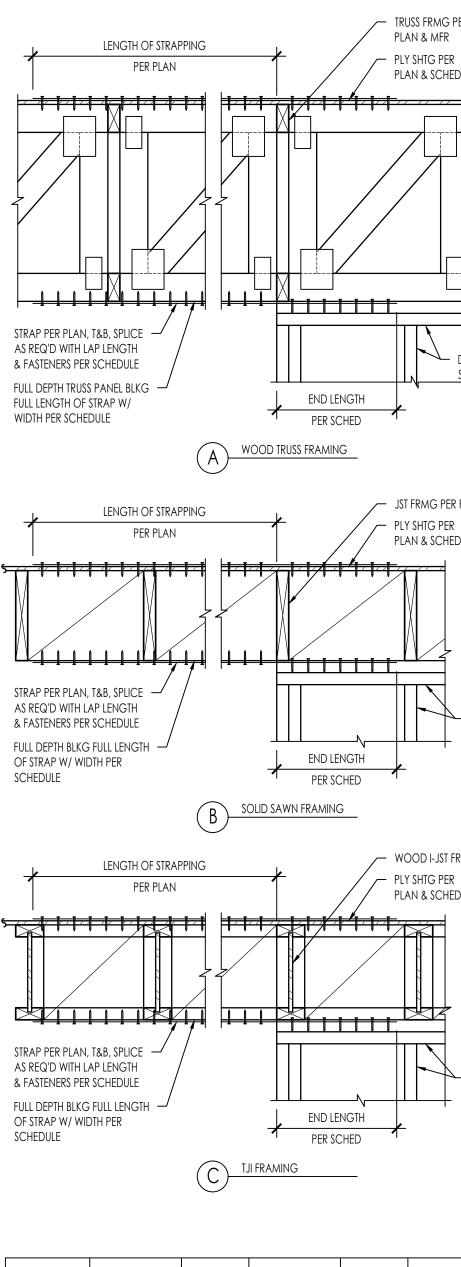
SHEET

TYPICAL WOOD DETAILS

DATE

CHECKED BY M. DOREMUS

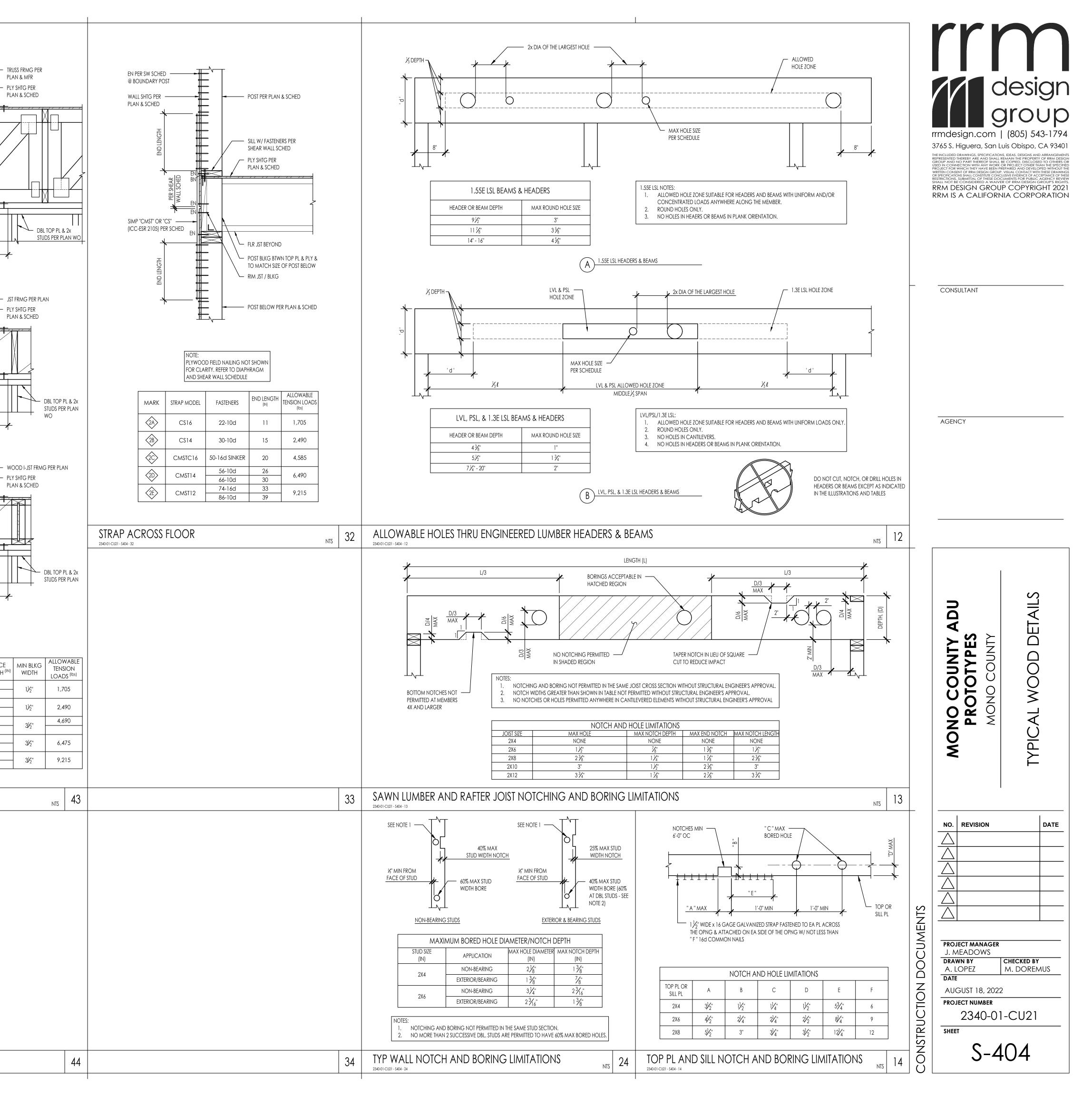


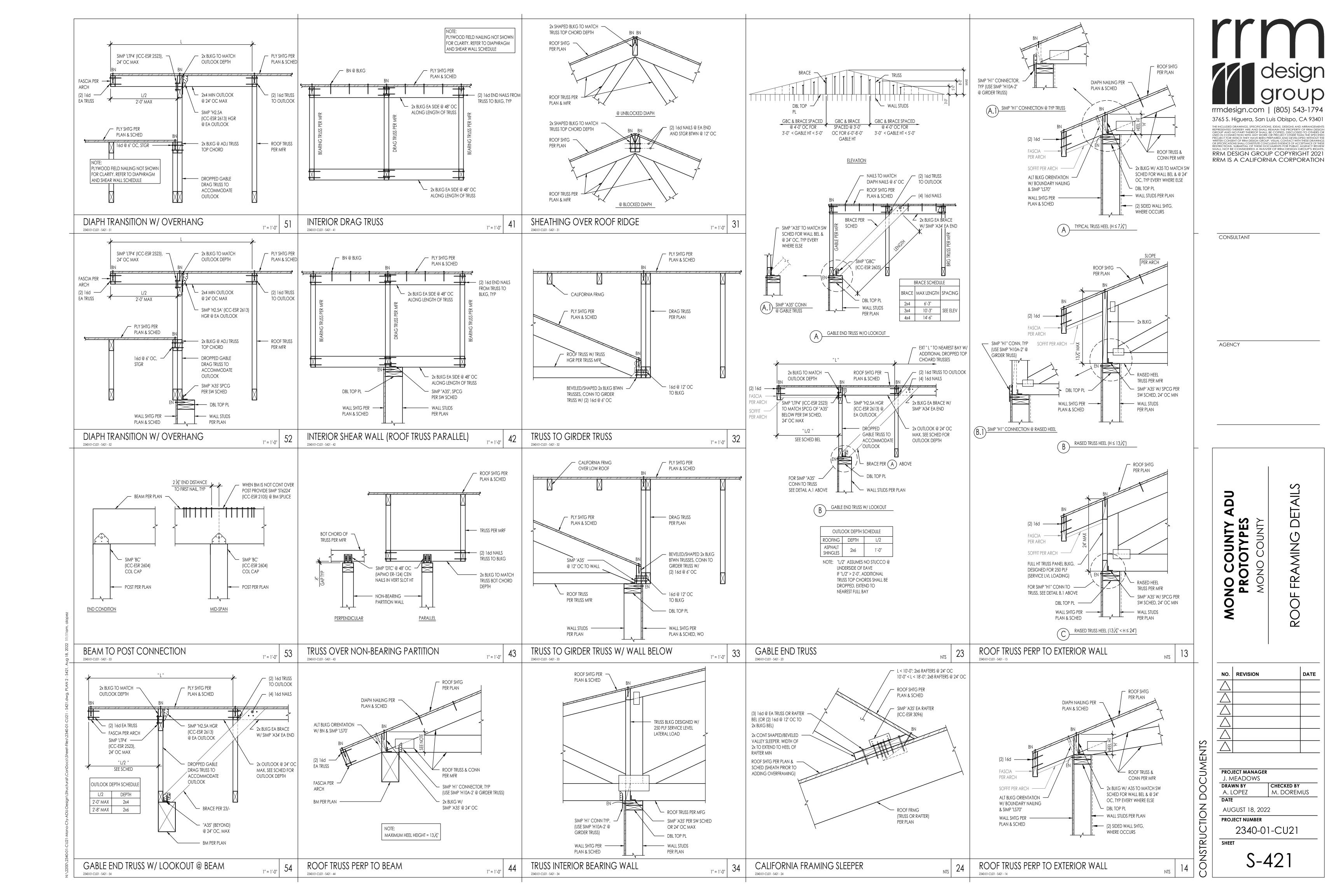


	STRAP MODEL	END FASTENERS	END LENGTH ^(IN)	FASTENERS PER SPLICE	SPLICE LENGTH ^(IN)	M
	C\$16	(20) 10d	11	(5) 10d	8	
	C310	(22) 8d	13	(6) 8d	9	
	CS14	(26) 10d	15	(6) 10d	9	
		(30) 8d	16	(7) 8d	10	
	CMSTC16	(50) 16d	20	(11) 16d	10	
	C/VI31C16	(50) 16d	20	(11) 16d	10	
	CMST14	(56) 16d	26	(13) 16d	14	
	C/VI3114	(66) 10d	30	(15) 10d	15	
	CMST12	(74) 16d	33	(18) 16d	18	
	CMST12	(86) 10d	39	(22) 10d	21	

BLOCK & STRAP PERP TO FRMG







(2200)2340-01-CU21-Mono-Cty-ADU-Design/Structural/ConDocs/Sheet-Files/2340-01-CU21 - S422.dwg, PLAN 5 - S422, Aug 18, 2022 11:11am, alc

