



Mission Revival - Plan 2



GENERAL RELEASE AND AGREEMENT TO HOLD HARMLESS CLAUSE

BY USING OR IN ANY WAY RELYING UPON THESE PERMIT READY ACCESSORY DWELLING UNIT CONSTRUCTION DOCUMENTS, THE USER AGREES TO RELEASE, INDEMNIFY, DEFEND AND HOLD HARMLESS THE CITY OF COACHELLA, ITS ELECTED OFFICIALS, BOARDS AND COMMISSIONS, OFFICERS, AGENTS, VOLUNTEERS AND EMPLOYEES, RRM DESIGN GROUP, AND THE ARCHITECT OR ENGINEER WHO PREPARED THESE CONSTRUCTION DOCUMENTS FROM AND AGAINST ANY AND ALL CLAIMS (INCLUDING, WITHOUT LIMITATION, CLAIMS FOR BODILY INJURY, DEATH, OR DAMAGE TO PROPERTY), DEMANDS, OBLIGATIONS, DAMAGES, ACTIONS, CAUSES OF ACTION, LIABILITIES, SUITS, LOSSES, JUDGMENTS, FINES, PENALTIES, COSTS AND EXPENSES (INCLUDING, WITHOUT LIMITATION, ATTORNEYS' FEES, DISBURSEMENTS, AND COURT COSTS) OF EVERY KIND AND NATURE WHATSOEVER, WHICH MAY ARISE FROM OR IN ANY WAY RELATE TO THE USE OF THESE CONSTRUCTION DOCUMENTS. THE USE OF THESE PLANS DOES NOT ELIMINATE OR REDUCE THE USER'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION.

SIGNATURE

DATE



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

COACHELLA PROTOTYPE ACCESSORY DWELLING UNIT - PLAN 2

SHEET INDEX

*FOR PLANNING STAFF ONLY
INITIAL WHEN SECTION HAS BEEN REVIEWED. STAFF INITIALS: _____

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Grand total: 34	

PROJECT DIRECTORY

*FOR PLANNING STAFF ONLY
INITIAL WHEN SECTION HAS BEEN REVIEWED. STAFF INITIALS: _____

APPLICANT

ADDRESS: _____
CONTACT: _____
EMAIL: _____
PHONE: _____

ARCHITECT (MODIFICATION TO PROTOTYPE)

RRM DESIGN GROUP
ADDRESS: 3765 S HIGUERA ST, SUITE 102
SAN LUIS OBISPO, CA 93401
CONTACT: _____
EMAIL: _____
PHONE: P:(805) 543-1794

CIVIL ENGINEER

ADDRESS: _____
CONTACT: _____
EMAIL: _____
PHONE: _____

LANDSCAPE ARCHITECT

ADDRESS: _____
CONTACT: _____
EMAIL: _____
PHONE: _____

STRUCTURAL ENGINEER

RRM DESIGN GROUP
ADDRESS: 3765 S HIGUERA ST, SUITE 102
SAN LUIS OBISPO, CA 93401
CONTACT: _____
EMAIL: _____
PHONE: P:(805) 543-1794

UTILITIES

WATER AND SEWER SERVICE	COACHELLA WATER AUTHORITY
ELECTRICAL SERVICE	SOUTHERN CALIFORNIA EDISON
GAS SERVICE	SOCAL GAS
TELEPHONE SERVICE	AT&T
GARBAGE SERVICE	BURRTEC WASTER & RECYCLING SERVICES
CABLE/INTERNET SERVICE	SPECTRUM

SUPPORTING DOCUMENTS

STRUCTURAL CALCULATIONS
PREPARED BY: _____
DATE PREPARED: _____
JOB NUMBER: _____
RRM DESIGN GROUP

ENERGY COMPLIANCE
PREPARED BY: _____
DATE PREPARED: _____
JOB NUMBER: _____
TIMOTHY CARSTAIRS

TRUSS CALCULATIONS
PREPARED BY: _____
DATE PREPARED: _____
JOB NUMBER: _____

PROJECT INFORMATION

*FOR PLANNING STAFF ONLY
INITIAL WHEN SECTION HAS BEEN REVIEWED. STAFF INITIALS: _____

PROJECT SCOPE:

1. CONSTRUCTION OF A NEW DETACHED ONE STORY 448 SF ACCESSORY DWELLING UNIT WITH ONE BEDROOM AND ONE 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 CITY OF COACHELLA)

APN: _____
ZONING: _____
LOT SIZE: _____

FLOOR AREA LIMIT (TO BE PROVIDED BY CITY OF COACHELLA)

MAXIMUM FAL: _____
PROPOSED FAL: _____

LOT COVERAGE (TO BE PROVIDED BY OWNER)

INCLUDING ALL AREAS UNDER SOLID ROOF, INCLUDING EAVES.

BUILDING: _____
HARDSACPE/PAVING: _____
LANDSCAPE: _____
(TO BE PROVIDED BY CITY OF COACHELLA)

SETBACKS

	REQUIRED	PROPOSED
FRONT:	_____	_____
REAR:	_____	_____
SIDES:	_____	_____

BUILDING INFORMATION:

NUMBER OF STORIES: _____ 1
OCCUPANCY GROUP: _____ R-3
CONSTRUCTION TYPE: _____ VB
MAX. HEIGHT PROPOSED: _____
ROOF RATING: _____

BUILDING AREAS

AREAS - PLAN 2	
CONDITIONED	
PLAN 2 FLOOR	504 SF
UNCONDITIONED	
PLAN 2 FRONT PORCH - MISSION & MODERN	84 SF

PROJECT CHECKLIST

*FOR PLANNING STAFF ONLY
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STYLE SELECTION

- ☐ MISSION REVIVAL
*STRIKE THROUGH SHEETS A2-122/123, & A2-202/203 & AD-904/905/906
- ☐ DESERT MODERN
*STRIKE THROUGH SHEETS A2-121/123, & A2-201/203 & AD-903/906
- ☐ SPANISH COLONIAL
*STRIKE THROUGH SHEETS A2-121/122, & A2-201/202 & AD-903/904/905

SELECT PATIO OPTIONS ON FLOOR PLAN SHEET. CHOOSE OPTION CONSISTENT WITH STYLE SELECTION. CROSS OUT OPTIONS NOT CHOSEN FOR CLARITY.

WINDOW MATERIAL

COLOR AND STYLE TO MATCH EXISTING HOME.

- ☐ VINYL
☐ FIBERGLASS
☐ WOOD
☐ ALUMINUM CLAD WOOD

WASTE WATER

- ☐ SEWER

ONSITE PARKING REQUIRED

- ☐ NONE

EXCEPTION USED:

- ☐ THE ADU IS LOCATED WITHIN 1/2 MILE OF PUBLIC TRANSIT.
- ☐ THE ADU IS LOCATED WITHIN A ARCHITECTURALLY AND HISTORICALLY SIGNIFICANT STRUCTURE.
- ☐ 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

ELECTRICAL PLAN

(SEE SITE PLAN FOR LOCATION)

- ☐ **OPTION 1** NEW ELECTRICAL MAIN PANEL OF 200 AMP WITH 225 AMP MINIMUM BUSBAR RATING
- ☐ **OPTION 2** A NEW ELECTRICAL SUBPANEL CONNECTS TO THE ELECTRICAL MAIN PANEL OF THE PRIMARY HOME. A SEPARATE ELECTRICAL PERMIT SHALL BE PULLED FOR THE ELECTRICAL MAIN PANEL OF THE PRIMARY HOME, ELECTRICAL LOAD CALCULATIONS ARE REQUIRED.

DEFERRED SUBMITTALS

1. ROOF TRUSS CALCULATIONS
2. FIRE SPRINKLER (YES / NO) (SEPARATE PLAN CHECK / PERMIT)
3. SOLAR PV (-KW) (SEPARATE PLAN CHECK / PERMIT)

VERY HIGH FIRE SEVERITY ZONE

- ☐ NO
☐ YES

IF THE PROPERTY THAT WILL CONTAIN THE ADU IS IN THE VERY HIGH FIRE HAZARD SEVERITY ZONE SEE NOTES BELOW:

1. AN ADU IN THE VERY HIGH FIRE SEVERITY ZONE SHALL COMPLY WITH CHAPTER 7A OF THE CURRENT CALIFORNIA BUILDING CODE.
2. STRUCTURES 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.
3. USE FIRE RATED ASSEMBLY ALTERNATIVE AS SHOWN IN ROOF FRAMING DETAILS AS REFERENCED ON PLANS.
4. USE RATED WALL ASSEMBLIES (34/AD-902, 24/AD-10/902)
5. THE INTENSITY OF FUELS MANAGEMENT MAY VARY WITHIN THE 100-FOOT PERIMETER OF THE STRUCTURE, WITH MORE INTENSE FUEL REDUCTIONS BEING USED BETWEEN 5 AND 30 FEET AROUND THE STRUCTURE, AND AN EMBER-RESISTANT ZONE BEING REQUIRED WITHIN 5 FEET OF THE STRUCTURE ACCORDING TO GOVERNMENT CODE 51182. THE EMBER RESISTANT ZONE FOR THE ADU SHALL BE SEPARATE FROM THE 5-FOOT EMBER RESISTANCE ZONE OF THE EXISTING STRUCTURE. THE DEFENSIBLE SPACE PLAN AND VEGETATION MANAGEMENT SHALL BE REVIEWED BY THE CITY OF NEWPORT BEACH FIRE DEPARTMENT.
6. VERIFY COMPLIANCE WITH YOUR INSURANCE UNDERWRITER PRIOR TO CONSTRUCTION OF THE ADU.

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. FIRE SPRINKLER SHOP DRAWINGS & CALCULATIONS SHALL BE SUBMITTED TO BUILDING DEPT. & APPROVED BY FIRE DEPT. PRIOR TO INSTALLATION.
2. IF FIRE SPRINKLERS ARE REQUIRED AT PROPOSED ADU THEN THE FOLLOWING NOTES APPLY.
3. DEFERRED SUBMITTAL: OBTAIN FIRE SPRINKLER PERMIT PRIOR TO CALLING FOR ROOF SHEATHING INSPECTION.
4. 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.
5. LOCATION AND SIZE OF WATER SERVICE UNDERGROUND SHALL BE INSTALLED AS SHOWN ON APPROVED FIRE SPRINKLER PLANS.
6. A FIRE UNDERGROUND FLUSH CERTIFICATION SHALL BE REQUIRED AT FINAL INSPECTION.
7. A HYDRO INSPECTION OF THE FIRE SPRINKLER SYSTEM IS REQUIRED PRIOR TO FRAME INSPECTION.

LIQUIFICATION AREA

THE PRIMARY RESIDENCE LOCATED WITHIN A DESIGNATED LIQUIFICTION ZONE?

- ☐ NO
☐ YES

COACHELLA ADUS

COACHELLA, CA

TITLE SHEET - PLAN 2

PUBLIC SET

DATE
01/11/24
SHEET

G-002

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FLOOR PLAN NOTES

- WEATHER BARRIERS.**
 - NOT FEWER THAN ONE-LAYER WATER-RESISTIVE BARRIER SHALL BE APPLIED OVER STUCCO OR SHEATHING OF ALL EXTERIOR WALLS CONTINUOUS FROM TOP OF WALLS AND TERMINATED AT PENETRATIONS AND BUILDING APPENDAGES WITH FLASHING. MINIMUM NO. 15 FELT COMPLYING WITH ASTM D226, TYPE 1.
 - PROVIDE (2) LAYERS OF GRADE D PAPER OR EQUAL WHEN PLASTER IS INSTALLED OVER WOOD BASED SHEATHING. (2022 CRC R703.7.3)
- DOMESTIC RANGE VENTILATION DUCTS** SHALL HAVE SMOOTH INTERIOR SURFACES. (2022 CMC 504.3)
- CLOTHES DRYER** MOISTURE EXHAUST DUCTS SHALL TERMINATE OUTSIDE THE BUILDING AND HAVE A BACK-DRAFT DAMPER. EXHAUST DUCT IS LIMITED TO 14'-0" W/ TWO ELBOWS. THIS SHALL BE REDUCED 2'-0" FOR EVERY ELBOW IN EXCESS OF TWO. MIN. DIA. 4", SMOOTH, METAL DUCT. (2022 CMC 504.4)
- ALL MANUFACTURED EQUIPMENT** SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATION AND DIMENSIONS VERIFIED WITH INSTALLATION REQUIREMENTS. ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS SHOULD BE ON SITE AND SHALL BE SEISMICALLY ANCHORED FOR INSPECTIONS.
- SHOWERS AND TUB-SHOWER COMBINATIONS:** CONTROL VALVES MUST BE PRESSURE BALANCED OR THERMOSTATIC MIXING VALVES. (2022 CPC 417.0.)
- WET-ROOM GLAZING.** PROVIDE TEMPERED GLAZING IN DOORS AND ENCLOSURES FOR SHOWERS, BATHTUBS, SAUNAS, STEAM ROOMS, HOT TUBS & SIMILAR USES WHERE THE BOTTOM EXPOSED EDGE IS LESS THAN 60-INCHES ABOVE A STANDING SURFACE. (2022 CRC R308.4.5)
- HEATING AND AIR-CONDITIONING SYSTEM DESIGN** SHALL CONFORM TO CALGREEN SEC. 4.507, ENVIRONMENTAL COMFORT.
- WATER CLOSETS.**
 - CLEARANCE: 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. (2022 CRC R303.3)
 - NEW WATER CLOSETS AND ASSOCIATED FLUSHOMETER VALVES, IF ANY, SHALL USE NO MORE THAN 1.25 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).
- BATH ACCESSORIES:** PROVIDE MINIMUM 1 TOILET PAPER HOLDER AND 1 TOWEL BAR PER BATHROOM. PROVIDE NECESSARY BLOOCKING FOR TOILET PAPER HOLDER AND TOWEL BARS.
- WHOLE-BUILDING MECHANICAL VENTILATION SYSTEM** PER ASHRAE STANDARD 62.2. PROVIDE THE INSPECTOR WITH THE FOLLOWING INFORMATION AT OR BEFORE THE TIME OF INSPECTION:
 - 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.
 - TYPE OF SYSTEM USED AND PROVIDE COMPLETED CF-6R-MECH-05 FORM.
 - FANS SHALL BE A MAXIMUM OF 1 SONE.
 - FANS SHALL BE PROVIDED A COVER OF R-4.2 WHEN OFF.
- ATTIC ACCESS:**
 - WHERE REQUIRED, PROVIDE 30" MIN. HEADROOM IN THE ATTIC SPACE (2022 CRC R807.1)
 - 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.
 - THE ROUGH-FRAMED OPENING SHALL NOT BE LESS THAN 22" X 30" AND SHALL BE LOCATED NOT OVER 20 FEET FROM THE EQUIPMENT. (2022 CRC R807.1)
 - IN ATTIC, PROVIDE LIGHT AND SWITCH, AND ALL NECESSARY ELECTRICAL, PROVIDE UNOBSTRUCTED PASSAGEWAY 24" WIDE OF SOLID CONTINUOUS FLOORING FROM ACCESS TO EQUIPMENT AND ITS 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.
 - PROVIDE A 120V RECEPTACLE AND A LIGHT NEAR THE EQUIPMENT WITH LIGHT SWITCH LOCATED AT THE ATTIC ACCESS.
- BATHTUB AND SHOWER FLOORS AND WALLS ABOVE BATHTUBS WITH INSTALLED SHOWER HEADS AND IN SHOWER COMPARTMENTS SHALL BE FINISHED WITH A NONABSORBENT SURFACE. SUCH WALL SURFACES SHALL EXTEND TO A HEIGHT OF NOT LESS THAN 6 FEET ABOVE THE FLOOR PER 2022 CRC, SECTION R307.2.

SITE NOTES

- CALL BEFORE YOU DIG!** CONTACT UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600 AT LEAST 2 WORKING DAYS BEFORE EXCAVATING.
- UNLESS OTHERWISE NOTED ON THE PLANS, FINISHED GROUND SURFACES SHALL BE GRADED TO DRAIN THE FINISHED SITE PROPERLY WITHIN 10 FEET OF ANY BUILDING FOUNDATION WITH A SLOPE OF 5% AWAY FROM ANY BUILDING OR STRUCTURE. ALL EXTERIOR HARDSCAPE WITHIN 10 FEET OF A BUILDING FOUNDATION SHALL BE INSTALLED WITH A 2% MINIMUM SLOPE AWAY FROM ANY BUILDING OR STRUCTURE. DRAINAGE SWALES SHALL BE A 1.5% MINIMUM SLOPE. ALL GRADED SLOPES SHALL HAVE A MAXIMUM SLOPE OF 3H TO 1V (33%), UNLESS SHOWN OTHERWISE ON THE PLANS.
- LOT GRADING SHALL CONFORM AT THE PROPERTY LINES AND SHALL NOT SLOPE TOWARD PROPERTY LINES IN A MANNER WHICH WOULD CAUSE STORM WATER TO FLOW ONTO NEIGHBORING PROPERTY. HISTORIC DRAINAGE PATTERNS SHALL NOT BE ALTERED IN A MANNER TO CAUSE DRAINAGE PROBLEMS TO NEIGHBORING PROPERTY. NEW RAINWATER DOWNSPOUTS SHALL BE DISCONNECTED AND DIRECT RUNOFF TO A LANDSCAPED AREA. DOWNSPOUTS MAY BE CONNECTED TO A POP-UP DRAINAGE EMITTER IN THE LANDSCAPED AREA OR MAY DRAIN TO SPLASH BLOCKS OR COBBLESTONES THAT DIRECT WATER AWAY FROM THE BUILDING.
- CONTRACTOR TO FIELD VERIFY EXISTING DRAINAGE. IF THE EXISTING DRAINAGE SYSTEM IS DAMAGED DURING EXCAVATION, CONTRACTOR SHALL REPAIR AND/OR REROUTE DRAINAGE SYSTEM AND CONNECT TO EXISTING DRAINAGE FACILITY AS NECESSARY.
- EXISTING PUBLIC IMPROVEMENTS THAT ARE DAMAGED BY THE PROJECT CONSTRUCTION SHALL BE REPAIRED OR REPLACED. EXISTING DAMAGED PUBLIC IMPROVEMENTS WITHIN THE PROJECT LIMITS SHALL BE REPAIRED OR REPLACED EVEN IF THE DAMAGE OCCURRED PRIOR TO THE START OF CONSTRUCTION.
- EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE INSTALLED PRIOR TO OCTOBER 1 AND SHALL BE MAINTAINED DAILY UNTIL APRIL 30. THESE FACILITIES SHALL CONTROL AND CONTAIN EROSION-CAUSED SILT DEPOSITS AND PROVIDE FOR THE SAFE DISCHARGE OF SILT-FREE STORM WATERS INTO EXISTING STORM DRAIN FACILITIES. EROSION AND SEDIMENT CONTROL SUPPLIES MUST BE KEPT ON-SITE DURING THE DRY SEASON AND EMPLOYED, AS NECESSARY PRIOR TO AND DURING RAIN EVENTS.
- SEASONALLY APPROPRIATE BEST MANAGEMENT PRACTICES FOR THE FOLLOWING SITE MANAGEMENT CATEGORIES MUST BE IMPLEMENTED YEAR-ROUND: 1) EROSION CONTROL; 2) RUN-ON AND RUN-OFF CONTROL; 3) SEDIMENT CONTROL; 4) GOOD SITE MANAGEMENT; AND 5) NON-STORMWATER MANAGEMENT.
- AN ENCROACHMENT PERMIT WILL BE REQUIRED FOR ANY CONSTRUCTION ACTIVITY WITHIN A PUBLIC STREET RIGHT OF WAY THAT HAS BEEN ACCEPTED BY THE CITY.

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" 120 VOLT/240 VOLT, 1 AND 3 WIRE GROUND OR EQUAL.
- ELECTRICAL SUB PANEL: FLUSH MOUNT, 30" CLEARANCE, 100 AMP.
- CONDUCTORS: TW, THW, COPPER, MINIMUM 14 AT LIGHTING, 12 AT OTHER CIRCUITS.
- ALL LUMINAIRES SHALL COMPLY WITH 2022 CENC SECTION 150.0 (K) AND TABLE 150.0(A) AS REFERENCED IN ENERGY NOTES, LUMINAIRE REQUIREMENTS SHEET G-101.
- 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 120-VOLT, 20-AMPERE BRANCH CIRCUIT. SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS. THIS DEDICATED CIRCUIT MAY SERVE MORE THAN ONE BATHROOM. (2022 CEC 210.11(C))
- THERMOSTAT SHALL BE A PROGRAMMABLE TYPE, HONEYWELL TH8320 OR EQUAL.
- CEILING-SUSPENDED (PADDLER) FANS SHALL BE SUPPORTED INDEPENDENTLY OF AN OUTLET BOX OR BY LISTED OUTLET BOX OR OUTLET BOX SYSTEMS IDENTIFIED FOR THE USE AND INSTALLED IN ACCORDANCE WITH 2022 CEC 314.27(C) (2022 CEC 422.18)
- ALL LUMINAIRES, LAMP HOLDERS, AND RETROFIT KITS SHALL BE LISTED (2022 CEC 410.6)
- ALL 120-VOLT, SINGLE PHASE 15- AND 20- AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, LIVING ROOMS, DINING ROOMS, PARLORS, LIBRARIES, DEN'S, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT. (2022 CEC 210-12(A))
- ALL NON-LOCKING TYPE 125-VOLT, 15 AND 20 AMPERE RECEPTACLES IN A DWELLING UNIT SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES. EXCEPTIONS: (1) RECEPTACLES MORE THAN 5'6" ABOVE THE FLOOR, (2) RECEPTACLES PART OF A LUMINAIRE OR APPLIANCE, (3) A SINGLE RECEPTACLE OR A DUPLEX RECEPTACLE FOR TWO APPLIANCES THAT ARE NOT EASILY MOVED AND LOCATED WITHIN DEDICATED SPACE AND ARE CHORD-AND-PLUG CONNECTED AS PER CEC 400.10, AND (4) NON-GROUNDING RECEPTACLES USED FOR RECDAPENNETS AS PERMITTED IN CEC 406.4(D)(2)(A).
- HIGH EFFICACY LUMINAIRES OTHER THAN OUTDOOR HD 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.
- BALLAST FOR LAMPS 13 WATTS OR GREATER SHALL BE ELECTRONIC AND HAVE AN OUTPUT FREQUENCY NO LESS THAN 20 kHz.
- SMOKE DETECTORS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING AND PROVIDED WITH A BATTERY BACK-UP. ALL SMOKE DETECTORS SHALL BE INTERCONNECTED. ALL SMOKE DETECTORS SHALL MAINTAIN A MINIMUM 3 FOOT CLEARANCE TO HVAC SUPPLY OR RETURN AIR REGISTERS.
- CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING AND PROVIDED WITH A BATTERY BACK-UP. ALL CARBON MONOXIDE ALARMS SHALL BE INTERCONNECTED.
- EXHAUST FANS WILL BE CONTROLLED BY A HUMIDISTAT PER THE GREEN BUILDING STANDARDS CODE SECTION 4.506. EXHAUST FANS MUST BE SWITCHED SEPARATELY FROM LIGHTS. (2022 CEC 150.0(K)(2))
- IN ADDITION TO THE NUMBER OF BRANCH CIRCUITS REQUIRED BY OTHER PARTS OF THE CODE, TWO OR MORE 20-AMPERE SMALL-APPLIANCE BRANCH CIRCUITS SHALL BE PROVIDED FOR ALL RECEPTACLE OUTLETS IN THE KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR AREA PER 2022 CEC, ARTICLE 210.11 (C)(1). THE CIRCUITS SHALL HAVE NO OTHER OUTLETS PER 2022 CEC, ARTICLE 210.52(B).
- IN ADDITION TO THE NUMBER OF BRANCH CIRCUITS REQUIRED BY OTHER PARTS OF THE CODE, AT LEAST ONE ADDITIONAL 20-AMPERE BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY THE LAUNDRY RECEPTACLE OUTLET(S) REQUIRED BY 2022 CEC, ARTICLE 210.52 (F). THE CIRCUIT SHALL HAVE NO OTHER OUTLETS PER 2022 CEC, ARTICLE 201.11(C)(2).

ENERGY NOTES

- THE BUILDER MUST PROVIDE NEW HOMEOWNERS WITH A LUMINAIRE SCHEDULE THAT INCLUDES A LIST OF INSTALLED LAMPS AND LUMINAIRES.

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

- LUMINAIRE EFFICACY.** ALL INSTALLED LUMINAIRES SHALL MEET THE REQUIREMENTS IN TABLE 150.0-A:
EXCEPT: INTEGRATED DEVICE LIGHTING, LIGHTING INTEGRAL TO EXHAUST FANS, KITCHEN RANGE HOODS, BATH VANITY MIRRORS AND GARAGE DOOR OPENERS, NAVIGATIONAL LIGHTING, SIGNAL LIGHTS, STEERING LIGHTS, AND PATH LIGHTS LESS THAN 5 WATTS, CABINET LIGHTING, LIGHTING INTERNAL TO DRAWERS, CABINETRY AND LINEN CLOSETS WITH AN EFFICACY OF 45 LUMENS PER WATT OR GREATER.
THE FOLLOWING ARE HIGH-EFFICACY LIGHT SOURCES PER TABLE 150.0-A:
THE FOLLOWING LIGHT SOURCES, OTHER THAN THOSE INSTALLED IN CEILING RECESSED DOWNLIGHTS, ARE NOT REQUIRED TO COMPLY WITH REFERENCE JOINT APPENDIX JA8:
 - LED LIGHT SOURCES INSTALLED OUTDOORS.
 - INSEPARABLE SOLID STATE LIGHTING (SSL) LUMINAIRES CONTAINING COLORED LIGHT SOURCES THAT ARE INSTALLED TO PROVIDE DECORATIVE LIGHTING.
 - PIN-BASED LINEAR FLUORESCENT OR COMPACT FLUORESCENT LIGHT SOURCES USING ELECTRONIC BALLASTS.
 - HIGH INTENSITY DISCHARGE (HID) LIGHT SOURCES INCLUDING PULSE START METAL HALIDE AND HIGH PRESSURE SODIUM LIGHT SOURCES.
 - LUMINAIRES WITH HARDWIRED HIGH FREQUENCY GENERATOR AND INDUCTION LAMP.
 - CEILING FAN LIGHT KITS SUBJECT TO FEDERAL APPLIANCE REGULATIONS.THE FOLLOWING LIGHT SOURCES ARE ONLY CONSIDERED TO BE HIGH EFFICACY IF THEY ARE CERTIFIED TO THE COMMISSION AS HIGH EFFICACY LIGHT SOURCES IN ACCORDANCE WITH REFERENCE JOINT APPENDIX JA8 AND MARKED AS REQUIRED BY JA8:
 - ALL LIGHT SOURCES INSTALLED IN CEILING RECESSED DOWNLIGHT LUMINAIRES, NOTE THAT CEILING RECESSED DOWNLIGHT LUMINAIRES SHALL NOT HAVE SCREW BASES REGARDLESS OF LAMP TYPE AS DESCRIBED IN SECTION 150.0(K)(1C).
 - ANY LIGHT SOURCE NOT OTHERWISE LISTED.
- SCREW-BASED LUMINAIRES.** SCREW-BASED LUMINAIRES SHALL CONTAIN LAMPS THAT ARE LISTED IN REFERENCE JOINT APPENDIX JA8.
- RECESSED DOWNLIGHT LUMINAIRES IN CEILINGS.** LUMINAIRES RECESSED INTO CEILINGS SHALL MEET ALL OF THE FOLLOWING REQUIREMENTS:
 - SHALL NOT CONTAIN SCREW BASE LAMP SOCKETS; AND
 - HAVE A LABEL THAT CERTIFIES THE LUMINAIRE IS AIRTIGHT WITH AIR LEAKAGE LESS THAN 2.0 CFM AT 75 PASCALS WHEN TESTED IN ACCORDANCE WITH ASTM E283. AN EXHAUST FAN HOUSING WITH INTEGRAL LIGHT SHALL NOT BE REQUIRED TO BE CERTIFIED AIRTIGHT; AND
 - BE SEALED WITH A GASKET OR CAULK BETWEEN THE LUMINAIRE HOUSING AND CEILING, AND HAVE ALL AIR LEAK PATHS BETWEEN CONDITIONED AND UNCONDITIONED SPACES SEALED WITH A GASKET OR CAULK, OR BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS TO MAINTAIN AIRTIGHTNESS BETWEEN THE LUMINAIRE HOUSING AND CEILING; AND
 - MEET THE CLEARANCE AND INSTALLATION REQUIREMENTS OF CALIFORNIA ELECTRICAL CODE SECTION 410.116 FOR RECESSED LUMINAIRES.
EXCEPT: RECESSED LUMINAIRES MARKED FOR USE IN FIRE-RATED INSTALLATIONS EXTRUDED INTO CEILING SPACE AND RECESSED LUMINAIRES INSTALLED IN NONINSULATED CEILINGS.

ENERGY NOTES CONTINUED

- D. LIGHT SOURCES IN ENCLOSED OR RECESSED LUMINAIRES.** LAMPS AND OTHER SEPARABLE LIGHT SOURCES THAT ARE NOT COMPLIANT WITH THE JAS LABELS SHALL BE U.L. LABELED. TEMPERATURE REQUIREMENTS, INCLUDING MARKING REQUIREMENTS, SHALL NOT BE INSTALLED IN ENCLOSED OR RECESSED LUMINAIRES.
- BLANK ELECTRICAL BOXES.** THE NUMBER OF ELECTRICAL BOXES THAT ARE MORE THAN 5 FEET ABOVE THE FINISHED FLOOR AND DO NOT CONTAIN A LUMINAIRE OR OTHER DEVICE SHALL BE NO GREATER THAN THE NUMBER OF BEDROOMS. THESE ELECTRICAL BOXES MUST BE SERVED BY A DIMMER, VACANCY SENSOR CONTROL, LOW VOLTAGE WIRING OR FAN SPEED CONTROL.
INDOOR LIGHTING CONTROLS (2022 Cenc 150.0(k)(2).
 - LIGHTING SHALL HAVE READILY ACCESSIBLE WALL-MOUNTED CONTROLS THAT ALLOW THE LIGHTING TO BE MANUALLY TURNED ON AND OFF.
EXCEPT: CEILING FANS MAY PROVIDE CONTROL OF INTEGRATED LIGHTING VIA A REMOTE CONTROL.
 - NO CONTROLS SHALL BYPASS A DIMMER, OCCUPANT SENSOR OR VACANCY SENSOR FUNCTION WHERE THAT DIMMER OR SENSOR HAS BEEN INSTALLED TO COMPLY WITH SECTION 150.0(K).
 - LIGHTING CONTROLS SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF SECTION 110.9.
 - AN ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) OR A MULTISCENE PROGRAMMABLE CONTROL MAY BE USED TO COMPLY WITH DIMMING, OCCUPANCY AND LIGHTING CONTROL REQUIREMENTS IN SECTION 150.0(K)(2) IF IT PROVIDES THE FUNCTIONALITY OF THE SPECIFIED CONTROLS IN ACCORDANCE WITH SECTION 110.9, AND THE PHYSICAL CONTROLS SPECIFIED IN SECTION 150.0(K)(2A).
 - AUTOMATIC-OFF CONTROLS.**
 - IN BATHROOMS, GARAGES, LAUNDRY ROOMS, UTILITY ROOMS AND WALK-IN CLOSETS, AT LEAST ONE INSTALLED LUMINAIRE SHALL BE CONTROLLED BY AN OCCUPANCY OR VACANCY SENSOR PROVIDING AUTOMATIC-OFF FUNCTIONALITY.
 - FOR LIGHTING INTERNAL TO DRAWERS AND CABINETRY WITH OPAQUE FRONTS OR DOORS, CONTROLS THAT TURN THE LIGHT OFF WHEN THE DRAWER OR DOOR IS CLOSED SHALL BE PROVIDED.
 - DIMMING CONTROLS.** LIGHTING IN HABITABLE SPACES, INCLUDING BUT NOT LIMITED TO LIVING ROOMS, DINING ROOMS, KITCHENS AND BEDROOMS, SHALL HAVE READILY ACCESSIBLE WALL-MOUNTED DIMMING CONTROLS THAT ALLOW THE LIGHTING TO BE MANUALLY ADJUSTED UP AND DOWN. FORWARD PHASE CUT DIMMERS CONTROLLING LED LIGHT SOURCES IN THESE SPACES SHALL COMPLY WITH NEMA SSL 7A.
EXCEPT: CEILING FANS MAY PROVIDE CONTROL OF INTEGRATED LIGHTING VIA A REMOTE CONTROL. LUMINAIRES CONNECTED TO A CIRCUIT WITH CONTROLLED LIGHTING POWER LESS THAN 20 WATTS OR CONTROLLED BY AN OCCUPANCY OR VACANCY SENSOR PROVIDING AUTOMATIC-OFF FUNCTIONALITY, NIGHT SATIATION LIGHTING SUCH AS NIGHT LIGHTS, STEP LIGHTS, AND PATH LIGHTS LESS THAN 5 WATTS, AND LIGHTING INTERNAL TO DRAWERS AND CABINETRY WITH OPAQUE FRONTS OR DOORS OR WITH AUTOMATIC-OFF CONTROLS.
 - INDEPENDENT CONTROLS.** INTEGRATED LIGHTING OF EXHAUST FANS SHALL BE CONTROLLED INDEPENDENTLY FROM THE FANS. THE FOLLOWING SHALL BE CONTROLLED SEPARATELY FROM CEILING-INSTALLED LIGHTING SUCH THAT ONE CAN BE TURNED ON WITHOUT TURNING ON THE OTHER:
 - UNDERCABINET LIGHTING, UNDERSHELF LIGHTING, INTERIOR LIGHTING OF DISPLAY CABINETS, AND SWITCHED OUTLETS
- RESIDENTIAL OUTDOOR LIGHTING** (2022 Cenc 150.0(k)(3). IN ADDITION TO MEETING THE REQUIREMENTS OF SECTION 150.0(K)(1A), LUMINAIRES PROVIDING RESIDENTIAL OUTDOOR LIGHTING SHALL MEET THE FOLLOWING REQUIREMENTS, AS APPLICABLE:
 - FOR SINGLE-FAMILY RESIDENTIAL BUILDINGS, OUTDOOR LIGHTING PERMANENTLY MOUNTED TO A RESIDENTIAL BUILDING OR TO OTHER BUILDINGS ON THE SAME LOT SHALL MEET THE REQUIREMENT IN ITEM I AND THE REQUIREMENTS IN EITHER ITEM II OR ITEM III:
 - CONTROLLED BY A MANUAL ON AND OFF CONTROL SWITCH THAT PERMITS THE AUTOMATIC ACTIONS OF ITEMS II OR III BELOW; AND
 - BE CONTROLLED BY A PHOTOCELL AND EITHER A MOTION SENSOR OR AN AUTOMATIC TIME SWITCH CONTROL; OR
 - CONTROLLED BY AN ASTRONOMICAL TIME CLOCK CONTROL.
NOTE: CONTROLS THAT OVERRIDE TO ON SHALL NOT BE ALLOWED UNLESS THE OVERRIDE AUTOMATICALLY RETURNS THE AUTOMATIC CONTROL TO ITS NORMAL OPERATION WITHIN 6 HOURS. AN ENERGY MANAGEMENT CONTROL SYSTEM THAT PROVIDES THE SPECIFIED LIGHTING CONTROL FUNCTIONALITY AND COMPLIES WITH ALL REQUIREMENTS APPLICABLE TO THE SPECIFIED CONTROLS MAY BE USED TO MEET THESE REQUIREMENTS.

- ALL JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED OR OTHERWISE SEALED TO LIMIT INFILTRATION AND EXFILTRATION (2022 Cenc 110.7).
- ATTIC ACCESS DOORS SHALL HAVE PERMANENTLY ATTACHED INSULATION USING ADHESIVE OR MECHANICAL FASTENERS. THE ATTIC ACCESS SHALL BE GASKETED TO PREVENT AIR LEAKAGE (2022 Cenc 150.0(a)(2))

ENERGY STORAGE READINESS

- ENERGY STORAGE SYSTEM (ESS) REQUIREMENTS:**
 - IN SINGLE-FAMILY RESIDENTIAL BUILDINGS THAT INCLUDE ONE OR TWO DWELLINGS, EACH DWELLING UNIT SHALL BE PROVIDED WITH DEDICATED RACEWAYS, DESIGNATED BRANCH CIRCUITS AND ISOLATION DEVICES FOR ENERGY STORAGE SYSTEMS AS SPECIFIED IN CALIFORNIA ENERGY CODE SECTION 150.0(S). ADDITIONALLY, THE PANELBOARDS SHALL BE PROVIDED WITH THE MINIMUM BUSBAR RATING AS SPECIFIED IN CALIFORNIA ENERGY CODE SECTION 150.0(S). (2022 CEC SECTION 706.10)
- CALIFORNIA ENERGY CODE SECTION 150.0(S)**
AT LEAST ONE OF THE FOLLOWING SHALL BE PROVIDED:
 - ESS REPAIR INTERCONNECTION EQUIPMENT WITH A MINIMUM BACKED-UP CAPACITY OF 60 AMPS AND A MINIMUM OF FOUR ESS-SUPPLIED BRANCH CIRCUITS, OR
 - A DEDICATED RACEWAY FROM THE MAIN SERVICE TO A PANELBOARD (SUBPANEL) THAT SUPPLIES THE BRANCH CIRCUITS IN SECTION 150.0(S) (2). ALL BRANCH CIRCUITS ARE PERMITTED TO BE SUPPLIED BY THE MAIN SERVICE PANEL PRIOR TO THE INSTALLATION OF AN ESS. THE TRADE SIZE OF THE RACEWAY SHALL BE NOT LESS THAN 1 INCH. THE PANELBOARD THAT SUPPLIES THE BRANCH CIRCUITS (SUBPANEL) MUST BE LABELED "SUBPANEL SHALL INCLUDE ALL BACKUP LOAD CIRCUITS."
- A MINIMUM OF FOUR BRANCH CIRCUITS SHALL BE IDENTIFIED AND HAVE THEIR SOURCE OF SUPPLY COLLOCATED AT A SINGLE PANELBOARD SUITABLE TO BE SUPPLIED BY THE ESS. AT LEAST ONE CIRCUIT SHALL SUPPLY THE REFRIGERATOR, ONE LIGHTING CIRCUIT SHALL BE LOCATED NEAR THE PRIMARY EGRESS AND AT LEAST ONE CIRCUIT SHALL SUPPLY A SLEEPING ROOM RECEPTACLE OUTLET.
- THE MAIN PANELBOARD SHALL HAVE A MINIMUM BUSBAR RATING OF 225 AMPS.
- SUFFICIENT SPACE SHALL BE RESERVED TO ALLOW FUTURE INSTALLATION OF A SYSTEM EQUIPMENT/TRANSFER SWITCH WITHIN 3 FEET OF THE MAIN PANELBOARD. RACEWAYS SHALL BE INSTALLED BETWEEN THE PANELBOARD AND THE SYSTEM ISOLATION EQUIPMENT/TRANSFER SWITCH LOCATION TO ALLOW THE CONNECTION OF BACKUP POWER SOURCE.

PLUMBING NOTES

- CONFORM WITH CURRENT CPC AND LOCAL REQUIREMENTS.
- DOMESTIC WATER (WITHIN BUILDING): COPPER OR PEX PIPE OR APPROVED EQUAL.
- AIR CHAMBERS: 12" LONG CAPPED NIPPLE AT END OF EACH BRANCH TO EACH FIXTURE.
- DIELECTRIC UNIONS "F.P.C.O." REQUIREMENT AT ALL DISSIMILAR MATERIAL CONNECTIONS.
- WHEN "OPTIONAL" SOFT-WATER LOOP INTALLED, PROVIDE WITH 2 GATE VALVES.
- WATER SERVICE PIPE SHALL BE PER CIVIL PLANS OR AS REQUIRED BY THE JURISDICTION.
- WATER METER: PER WATER DISTRICT (REFER SIZE W/ FIRE SPRINKLER PLAN IF APPLICABLE)
- SHOWER HEADS AND FAUCETS: FLOW RATES PER 2022 CGBSC SECTION 4.303.
- WATER HEATER** (REFER TO BUILDING ENERGY ANALYSIS REPORT):
 - ALL DOMESTIC HOT WATER PIPING SHALL BE INSULATED. (2022 CPC 609.12.1)
 - PIPES UP TO 2 INCHES IN DIAMETER: INSULATION WALL THICKNESS NOT LESS THAN DIAMETER OF PIPE. (2022 CPC 609.12.2)
 - PIPES GREATER THAN 2 INCHES IN DIAMETER: INSULATION WALL THICKNESS NOT LESS THAN 2 INCHES. (2022 CPC 609.12.2)
 - EXCEPTIONS:**
 - PIPING THAT PENETRATES FRAMING MEMBERS SHALL NOT BE REQUIRED TO HAVE PIPE INSULATION FOR THE DISTANCE OF THE FRAMING PENETRATION. (2022 CPC 609.12.2)
 - HOT WATER PIPING BETWEEN THE FIXTURE CONTROL VALVE OR SUPPLY STOP AND THE FIXTURE OR APPLIANCE SHALL NOT BE REQUIRED TO BE INSULATED. (2022 CPC 609.12.2)
- 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.
- PLUMBING INSULATION** PER 2022 CENC 150.0 (J) AND CBC 609.11
 - DOMESTIC HOT WATER PIPING SHALL BE INSULATED.
 - HOT WATER PIPE INSULATION SHALL HAVE A MINIMUM WALL THICKNESS OF NOT LESS THAN THE DIAMETER OF THE PIPE FOR A PIPE UP TO 2 INCHES (50 MM) IN DIAMETER. INSULATION WALL THICKNESS SHALL BE NOT LESS THAN 2 INCHES (51 MM) FOR A PIPE OF 2 INCHES (50 MM) OR MORE IN DIAMETER.
 - PIPING THAT PENETRATES FRAMING MEMBERS SHALL NOT BE REQUIRED TO HAVE PIPE INSULATION FOR THE DISTANCE OF THE FRAMING PENETRATION.
 - HOT WATER PIPING BETWEEN THE FIXTURE CONTROL VALVE OR SUPPLY STOP AND THE FIXTURE OR APPLIANCE SHALL NOT BE REQUIRED TO BE INSULATED.
 - SERVICE WATER HEATING SYSTEMS PIPING TO INCLUDE:
 - RECIRCULATING SYSTEM PIPING, INCLUDING THE SUPPLY AND RETURN PIPING TO THE WATER HEATER.
 - THE FIRST 8 FEET OF HOT AND COLD OUTLET PIPING, INCLUDING PIPING BETWEEN A STORAGE TANK AND A HEAT TRAP, FOR A NON-RECIRCULATING STORAGE SYSTEM.
 - PIPES THAT ARE EXTERNALLY HEATED.SHALL BE INSULATED AS FOLLOWS:
 - PIPE DIAMETER INSTALLED TO HAVE A 1.0 MIN THICKNESS OR R7/7 RATING PER CENC TABLE 120.3A
 - EXCEPTIONS:**
 - FACTORY-INSTALLED PIPING WITHIN SPACE-CONDITIONING EQUIPMENT CERTIFIED UNDER SECTION 110.1 OR 110.2.
 - PIPEL THAT PENETRATES FRAMING MEMBERS SHALL NOT BE REQUIRED TO HAVE PIPE INSULATION FOR THE DISTANCE OF THE FRAMING PENETRATION. METAL PIPING THAT ENETRATES METAL FRAMING SHALL USE GROMMETS, PLUGS, WRAPPING OR OTHER INSULATING MATERIAL TO ASSURE THAT NO CONTACT IS MADE WITH THE METAL FRAMER.
 - PIPING INSTALLED IN INTERIOR OR EXTERIOR WALLS SHALL NOT BE REQUIRED TO HAVE PIPE INSULATION IF ALL OF THE REQUIREMENTS ARE MET FOR COMPLIANCE WITH QUALITY INSULATION INSTALLATION (QII) AS SPECIFIED IN THE REFERENCE RESIDENTIAL APPENDIX RA3.5.
 - PIPING SURROUNDED WITH A MINIMUM OF 1 INCH OF WALL INSULATION, 2 INCHES OF CRAWLSPACE INSULATION, OR 4 INCHES OF ATTIC INSULATION SHALL NOT BE REQUIRED TO HAVE PIPE INSULATION.
- INSULATION PROTECTION.** PIPE INSULATION SHALL BE PROTECTED FROM DAMAGE DUE TO SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE AND WIND. PROTECTION SHALL, AT MINIMUM, INCLUDE THE FOLLOWING (2022 CEC SECTION 120.3(B)):
 - PIPE INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED BY A COVER SUITABLE FOR OUTDOOR SERVICE. THE COVER SHALL BE WATER RETARDANT AND PROVIDES SHIELDING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL. ADHESIVE TAPE SHALL NOT BE USED TO PROVIDE THIS PROTECTION.
 - PIPE INSULATION COVERING CHILLED WATER PIPING AND REFRIGERANT SUCTION PIPING LOCATED OUTSIDE THE CONDITIONED SPACE SHALL INCLUDE, OR BE PROTECTED BY, A CLASS I OR CLASS II VAPOR RETARDER. ALL PENETRATIONS AND JOINTS SHALL BE SEALED.
 - PIPE INSULATION BURIED BELOW GRADE MUST BE INSTALLED IN A WATER PROOF AND NONCRUSHABLE CASING OR SLEEVE.
- PIPE INSULATION: REFER TO TITLE 24 - MANDATORY MEASURES - "SPACE CONDITIONING, WATER HEATING & PLUMBING SYSTEM MEASURES"
- STRAPS AND HANGERS: PROVIDE AS NECESSARY TO INSURE A STABLE INSTALLATION. SEE TITLE-24 FOR WATER HEATER REQUIREMENTS.
- ALL HOSE BIBS SHALL HAVE APPROVED BACK FLOW PREVENTION DEVICES.
- PLUMBING FIXTURES (WATER CLOSETS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL MEET THE STANDARDS REFERENCED IN CALGREEN TABLE 4.303.3.
- WATER HEATER SHALL BE PROVIDED WITH A TEMPERATURE AND PRESSURE RELIEF VALVE. PER (2022 CPC 505.2) THE RELIEF VALVE SHALL BE PROVIDED WITH A DRAIN LINE WHICH EXTENDS FROM THE VALVES TO THE OUTSIDE OF THE BUILDING. PER (2022 808.5 CPC)
- PER 2022 CPC 603.5.7 OUTLETS WITH HOSE ATTACHMENTS, 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 VACUUM BREAKER, OR BY AN APPROVED "SHED" SUBPANEL SHALL INCLUDE ALL BACKUP LOAD CIRCUITS.

PROJECT GENERAL NOTES

- APPLICABLE CODES AND STANDARDS:
 - 2022 CALIFORNIA BUILDING CODE AND ITS APPENDICES AND STANDARDS.
 - 2022 CALIFORNIA PLUMBING CODE AND ITS APPENDICES AND STANDARDS.
 - 2022 CALIFORNIA MECHANICAL CODE AND ITS APPENDICES AND STANDARDS.
 - 2022 CALIFORNIA FIRE CODE AND ITS APPENDICES AND STANDARDS.
 - 2022 CALIFORNIA ELECTRICAL CODE AND ITS APPENDICES AND STANDARDS.
 - 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS.
 - 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE AND ITS APPENDICES AND STANDARDS.
- CURRENT CITY OF COACHELLA, CA MUNICIPAL CODE.
- ALL WORK DESCRIBED IN THE DRAWINGS SHALL BE VERIFIED FOR DIMENSION, GRADE, EXTENT AND COMPATIBILITY WITH EXISTING SITE CONDITIONS. ANY DISCREPANCIES AND UNEXPECTED CONDITIONS THAT AFFECT OR CHANGE THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY. DO NOT PROCEED WITH THE WORK IN THE AREA OF DISCREPANCIES UNTIL ALL SUCH DISCREPANCIES ARE RESOLVED. IF THE CONTRACTOR CHOOSES TO DO SO, HE/SHE SHALL BE PROCEEDING AT HIS/HER OWN RISK.
- DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER DRAWING SCALE OR PROPORTION. LARGER SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.
- IN THE EVENT OF THE UNFORESEEN ENCOUNTER OF MATERIALS SUSPECTED TO BE OF AN ARCHAEOLOGICAL OR PALEONTOLOGICAL NATURE, ALL GRADING AND EXCAVATION SHALL CEASE AT 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.
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- SHOP WELDS MUST BE PERFORMED BY A LICENSED FABRICATOR'S SHOP.
- THE FOLLOWING ITEMS SHOWN ON THE DRAWINGS ARE OWNER PROVIDED, OWNER INSTALLED. UTILITIES PROVIDED FOR THESE ITEMS WILL BE PROVIDED BY THE CONTRACTOR. CONTRACTOR TO COORDINATE INSTALLATION WITH OWNER.
- TVIDVD SYSTEMS
- ICE MACHINE
- VENTING MACHINE
- REFRIGERATOR
- OSHA PERMITS REQUIRED FOR VERTICAL CUTS 5' OR OVER.
- CONTRACTOR TO PROVIDE COMPLETE DETAILS OF ENGINEERED TEMPORARY SHORING OR SLOT CUTTING PROCEDURES ON PLANS. CALL FOR INSPECTION BEFORE EXCAVATION BEGINS.
- 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.
- CONTRACTOR TO REVIEW CALIFORNIA GREEN CODE REQUIREMENTS FOR CONTRACTOR REQUIREMENTS.
- A SEPARATE OFFICER, ACCESS EASEMENT/AGREEMENT, AND/OR RECIPROCAL ACCESS EASEMENT/AGREEMENT MAY BE REQUIRED TO INSURE THAT THE PROPOSED PRIVATE ACCESS ROADWAY WILL REMAIN OPEN TO THROUGH TRAFFIC AND EMERGENCY VEHICLES PRIOR TO FINAL OF BUILDING PERMIT.

MECHANICAL NOTES

- CONFORM WITH CURRENT ADOPTED CRC, CMC, SMACNA, NFPA AND LOCAL REQUIREMENTS.
- DUCTWORK: SMACNA "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.
- GRILLES AND REGISTERS, DIFFUSERS, ETC: SUBJECT TO OWNERS APPROVAL. "FARNES" OR EQUAL MAY BE INSTALLED TO OUTSIDE.
- 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 IS REQUIRED. DRYER EXHAUST DUCT POWER VENTILATOR SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 705 AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PER 2022 CMC, SECTION 504.2.2.3. SEE NOTE BELOW.
- BATHROOM EXHAUST FANS (BATHROOM APPLIES TO ROOMS CONTAINING BATHTUB & SHOWER COMBINATION) SHALL BE INSTALLED IN THE EXHAUST DIRECTLY FROM BATHROOMS SHALL COMPLY WITH THE FOLLOWING (2022 CGBSC SEC. 4.506.1):
 - FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING MIN 3' FROM OPENINGS.
 - UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A HUMIDITY CONTROL.
 - HUMIDITY CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF ≤ 50 PERCENT TO A MAXIMUM OF 60 PERCENT. A HUMIDITY CONTROL MAY UTILIZE MANUAL OR AUTOMATIC MEANS OF ADJUSTMENT.
 - A HUMIDITY CONTROL MAY BE A SEPARATE COMPONENT TO EXHAUST FAN AND IS NOT REQUIRED TO BE INTEGRAL(I.E. BUILT IN)
- BATHROOM EXHAUST FAN SHALL PROVIDE MINIMUM 50 CFM EXHAUST RATE (2022 CMC TABLE 403.7).
- KITCHEN EXHAUST FANS SHALL PROVIDE MINIMUM 100 CFM EXHAUST RATE (2022 CMC TABLE 403.7)

WINDOWS

- HABITABLE ROOMS SHALL HAVE AN AGGREGATE GLAZING AREA OF NOT LESS THAN 8 PERCENT OF THE FLOOR AREA OF SUCH ROOMS. NATURAL VENTILATION SHALL BE THROUGH WINDOWS, SKYLIGHTS, DOORS, LOUVERS OR OTHER APPROVED OPENINGS TO THE OUTDOOR AIR. SUCH OPENINGS SHALL BE AT LEAST 20 INCHES ABOVE THE FINISHED FLOOR OR OTHERWISE BE READILY CONTROLLABLE BY THE BUILDING OCCUPANTS. THE OPENABLE AREA TO THE OUTDOORS SHALL BE NOT LESS THAN 4 PERCENT OF THE FLOOR AREA BEING VENTILATED.
- GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS ALL OF THE FOLLOWING CONDITIONS SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION:
 - THE EXPOSED AREA OF AN INDIVIDUAL PANE IS LARGER THAN 9 SQUARE FEET (0.836 M2).
 - THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18 INCHES (457 MM) ABOVE THE FLOOR.
 - THE TOP EDGE OF THE GLAZING IS MORE THAN 36 INCHES (914 MM) ABOVE THE FLOOR.
 - ONE OR MORE WALKING SURFACES ARE WITHIN 36 INCHES (914 MM), MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE GLAZING.



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

COACHELLA ADUS

COACHELLA, CA

GENERAL NOTES

PUBLIC SET

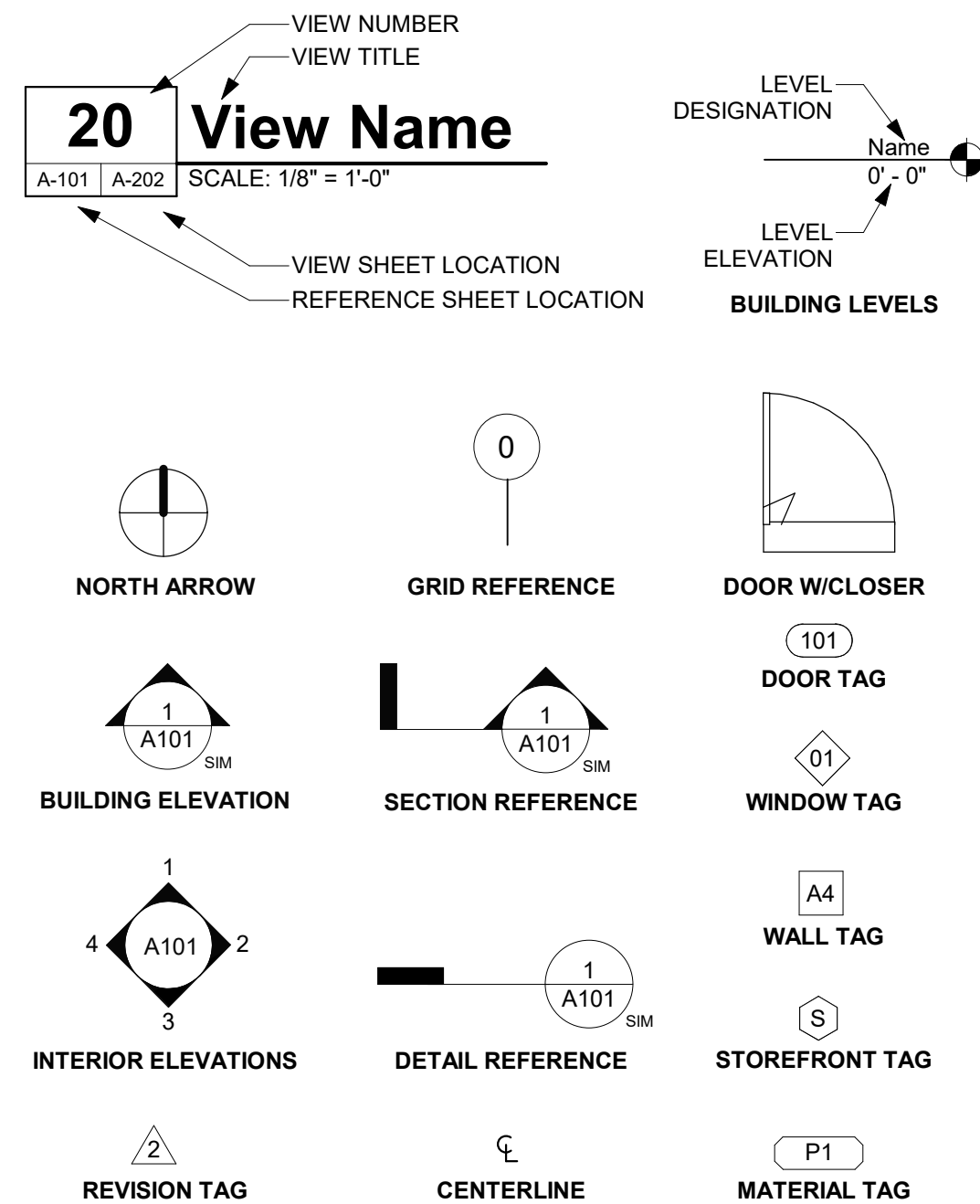
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ABBREVIATIONS

A/C	AIR CONDITIONING	FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR	PV	PHOTO VOLTAIC
ABV	ABOVE	FOM	FACE OF MASONRY	PVC	POLYVINYL CHLORIDE
ACOUS	ACOUSTICAL	FOS	FACE OF STUD	PVMT	PAVEMENT
ACT	ACOUSTICAL CEILING TILE	FRP	FIBERGLASS REINFORCED PANELS	QTY	QUANTITY
ADA	AMERICANS WITH DISABILITIES ACT	FT	FOOT OR FEET	R	RADIUS, RISER
AFCI	ARC FAULT CIRCUIT INTERRUPTER	FTG	FOOTING	RB	RUBBER BASE
AFF	ABOVE FINISH FLOOR	GA	GAUGE, GAGE	RCP	REFLECTED CEILING PLAN
AL	ALUMINUM	GALV	GALVANIZED	RD	ROOF DRAIN
ALT	ALTERNATE	GB	GRAB BAR	REF	REFRIGERATOR
ARCH	ARCHITECT(URAL)	GC	GENERAL CONTRACTOR	REINF	REINFORCED
BD	BOARD	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	REQD	REQUIRED
BDRM	BEDROOM	GWB	GYPSUM BOARD	RH	RIGHT HAND
BET	BETWEEN	GYP	GYPSUM	RM	ROOM
BLDG	BUILDNG	HB	HOSE BIBB	RO	ROUGH OPENING
BLKG	BLOCKING	HC	HOLLOW CORE	RTU	ROOF TOP UNIT (MECH)
BLW	BELOW	HDWD	HARDWOOD	S	SOUTH
BM	BEAM	HDWR	HARDWARE	SAFB	SOUND ATTENUATION FIBER BATT
BOT	BOTTOM	HGT	HEIGHT	SAWP	SELF ADHEREING WATERPROOFING
BUR	BUILT UP ROOF	HM	HOLLOW METAL	SC	SCUPPER/SOLID CORE
CB	CATCH BASIN	HORIZ	HORIZONTAL	SCHED	SCHEDULE
CBC	CALIFORNIA BUILDING CODE	HVAC	HEATING, VENTILATION, A/C	SEAL	SEALANT
CEM	CEMENT	ID	INSIDE DIAMETER	SECT	SECTION
CFM	CUBIC FEET PER MINUTE	IIC	IMPACT INSULATION CLASS	SF	SQUARE FOOT
CIP	CAST IN PLACE	IN	INCH	SHT	SHEET
CJ	CONTROL JOINT	INCA	INCANDESCENT	SHTHG	SHEATHING
CL	CENTER LINE	INSUL	INSULATION, INSULATED	SIM	SIMILAR
CLG	CEILING	INT	INTERIOR	SM	SHEET METAL
CLO	CLOSET	JC	JANITORS CLOSET	SPEC	SPECIFICATION
CLR	CLEAR	JT	JOINT	SQ	SQURE
CMU	CONCRETE MASONRY UNIT	LAM	LAMINATE	SS	SOLID SURFACE
CO	CLEAN OUT	LAV	LAVATORY	SSTL	STAINLESS STEEL
COL	COLUMN	LBS	POUNDS	STC	SOUND TRANSMISSION CLASS
CONC	CONCRETE	LEED	LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN	STD	STANDARD
CONST	CONSTRUCTION	LF	LINEAR FEET	STL	STEEL
CONT	CONTINUOUS	LIN	LINEN CLOSET	STOR	STORAGE
CONTR	CONTRACTOR	LINO	LINOLEUM	STRUCT	STRUCTURAL
CPT	CARPET	LT(G)	LIGHT(ING)	SUSP	SUPSPENDED
CT	CERAMIC TILE	LVL	LAMINATED VENEER LUMBER	SV	SHEET VINYL
CTR	CENTER	LVT	LUXURY VINYL TILE	SYM	SYMMETRICAL
DBL	DOUBLE	LW	LIGHTWEIGHT	T	TREAD
DF	DRINKING FOUNTAIN	MAX	MAXIMUM	T&G	TONGUE & GROOVE
DIA	DIAMETER, DIAPHRAGM	MDF	MEDIUM DENSITY FIBERBOARD	TEL	TELEPHONE
DIM	DIMENSION	MECH	MECHANICAL	TEMP	TEMPERED
DN	DOWN	MEMB	MEMBRANE	TER	TERRAZZO
DR	DOOR	MEP	MECHANICAL, ELECTRICAL, PLUMBING	THK	THICK
DS	DOWN SPOUT	MFR	MANUFACTURER	THR	THRESHOLD
DTL	DETAIL	MIN	MINIMUM	TJI	TRUSS JOIST I-JOIST
DW	DISHWASHER	MISC	MISCELLANEOUS	TO	TOP OF
DWG	DRAWING	MO	MASONRY OPENING	TOS	TOP OF SLAB
(E)	EXISTING	MTD	MOUNTED	TOW	TOP OF WALL
E	EAST	MTL	METAL	TRANS	TRANSFORMER
EA	EACH	N	NORTH	TV	TELEVISION
EJ	EXPANSION JOINT	NIC	NOT IN CONTRACT	TYP	TYPICAL
EL	ELEVATION	NO	NUMBER	UFAS	UNIFORM FEDERAL ACCESSIBILITY STANDARDS
ELEV		NOM	NOMINAL	UG	UNDERGROUND
ELEC	ELECTRIC	NTS	NOT TO SCALE	UNFIN	UNFINISHED
ENCL	ENCLOSURE	O.P.	OVERFLOW PIPE	UNO	UNLESS NOTED OTHERWISE
EQ	EQUAL	OC	ON CENTER	UV	ULTRAVIOLET
EQUIP	EQUIPMENT	OD	OVERFLOW DRAIN	VCT	VINYL COMPOSITION TILE
EXH	EXHAUST	OFF	OFFICE	VERT	VERTICAL
EXP	EXPANSION	OH	OPPOSITE HAND	VIF	VERIFY IN FIELD
EXT	EXTERIOR	OPG	OPENING	VTR	VENT TERMINATION PIPE
FACP	FIRE ALARM CONTROL PANEL	OPP	OPPOSITE	VWC	VINYL WALL COVERING
FAU	FORCED AIR UNIT	(P)	PROPOSED	W	WEST
FAWP	FLUID APPLIED WATERPROOFING	PERM	PERIMETER	W/	WITH
FD	FLOOR DRAIN	PERP	PERPENDICULAR	W/D	WASHER DRYER
FDC	FIRE DEPARTMENT CONNECTION	PG	PAINT GRADE	W/O	WITHOUT
FE	FIRE EXTINGUISHER	PL	PLATE, PROPERTY LINE	WC	WATERCLOSET
FEC	FIRE EXTINGUISHER CABINET	PLAM	PLASTIC LAMINATE	WD	WOOD
FF	FINISHED FLOOR ELEVATION	PLBG	PLUMBING	WDW	WINDOW
FG	FINISHED GRADE	PLYWD	PLYWOOD	WH	WATER HEATER
FH	FIRE HYDRANT	PNL	PANEL	WI	WROUGHT IRON
FHC	FIRE HOSE CABINET	PP	POWER POLE	WIN	WINDOW
FIN	FINISH	PR	PAIR	WP	WATERPROOF(ING)
FIXT	FIXTURE	PRTN	PARTITION	WR	WEATHER RESISTIVE
FLR	FLOOR	PSF	POUNDS PER SQUARE FOOT	WRB	WATER RESISTIVE BARRIER
FLUOR	FLOURESCENT	PSI	POUNDS PER SQUARE INCH	WSCT	WAINSCOT
FND	FOUNDATION	PSL	PARALLEL STRAND LUMBER	WT	WEIGHT
FO	FACE OF	PT	PRESSURE TREATED	WWF	WELDED WIRE FABRIC
FOC	FACE OF CONCRETE	PTD	PAINTED	YD	YARD
FOF	FACE OF FINISH				

SYMBOLS



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COACHELLA ADUS
COACHELLA, CA
GENERAL NOTES

PUBLIC SET

DATE
01/11/24
SHEET

G-102

1/11/2024 4:12:03 PM Autodesk Docs\2289_Coachella ADU\2289-01_Coachella ADUs.rvt

BUILDING ENERGY ANALYSIS REPORT

PROJECT:
Coachella ADUs (Plan 2)

Coachella, CA

Project Designer:
RRM Design Group
3765 South Higuera St. Suite 102
San Luis Obispo, CA 93401
(805) 543-1794

Report Prepared by:
Timothy Carstairs, CEA, HERS, GPR
Carstairs Energy Inc.
2238 Bayview Heights Drive, Suite E
Los Osos, CA 93402
805-904-9048



Job Number:
23-082810

Date:
8/28/2023

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

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

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ENERGY DESIGN RATINGS	Energy Design Ratings			Compliance Margins		
	Source Energy (EDR1)	Efficiency ¹ EDR (EDR2efficiency)	Total ² EDR (EDR2total)	Source Energy (EDR1)	Efficiency ¹ EDR (EDR2efficiency)	Total ² EDR (EDR2total)
Standard Design	39.5	34.2	48.9			
Proposed Design						
North Facing	37.6	31.5	47	1.9	2.7	1.9
East Facing	38.1	33.2	48.1	1.4	1	0.8
South Facing	37.5	31.7	47.2	2	2.5	1.7
West Facing	38.1	33.7	48.5	1.4	0.5	0.4
RESULT ³ : PASS						
¹ Efficiency EDR includes improvements like a better building envelope and more efficient equipment. ² Total EDR includes efficiency and demand response measures such as photovoltaic (PV) system and batteries. ³ Building complies when source energy, efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded						
• Standard Design PV Capacity: 0.00 kWdc • Proposed PV Capacity Scaling: North (0.00 kWdc) East (0.00 kWdc) South (0.00 kWdc) West (0.00 kWdc)						

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Schema Version: rev 20220901

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ENERGY USE INTENSITY	Standard Design (kBtu/ft ² - yr)	Proposed Design (kBtu/ft ² - yr)	Compliance Margin (kBtu/ft ² - yr)	Margin Percentage
North Facing				
Gross EUi ¹	36.48	34.44	2.04	5.59
Net EUi ²	36.48	34.44	2.04	5.59
East Facing				
Gross EUi ¹	36.48	35.55	0.93	2.55
Net EUi ²	36.48	35.55	0.93	2.55
South Facing				
Gross EUi ¹	36.48	34.74	1.74	4.77
Net EUi ²	36.48	34.74	1.74	4.77
West Facing				
Gross EUi ¹	36.48	35.48	1	2.74
Net EUi ²	36.48	35.48	1	2.74
Notes 1. Gross EUi is Energy Use Total (not including PV) / Total Building Area. 2. Net EUi is Energy Use Total (including PV) / Total Building Area.				

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ENERGY USE SUMMARY						
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft ² - yr)	Standard Design TDV Energy (EDR2) (kTDV/ft ² - yr)	Proposed Design Source Energy (EDR1) (kBtu/ft ² - yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft ² - yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	0.05	0.32	0.59	4.43	-0.54	-4.11
Space Cooling	6.39	110.16	5.53	101.7	0.86	8.46
IAQ Ventilation	0.46	4.8	0.46	4.8	0	0
Water Heating	2.38	25.13	1.55	18.28	0.83	6.85
Self Utilization/Flexibility Credit				0		0
North Facing Efficiency Compliance Total	9.28	140.41	8.13	129.21	1.15	11.2
Space Heating	0.05	0.32	0.56	4.14	-0.51	-3.82
Space Cooling	6.39	110.16	5.86	109.07	0.53	1.09
IAQ Ventilation	0.46	4.8	0.46	4.8	0	0
Water Heating	2.38	25.13	1.55	18.25	0.83	6.88
Self Utilization/Flexibility Credit				0		0
East Facing Efficiency Compliance Total	9.28	140.41	8.43	136.26	0.85	4.15

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REQUIRED PV SYSTEMS											
01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception	Module Type	Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Access (%)
0		Standard (14-17%)	Fixed	none	true	n/a	n/a	n/a	n/a	n/a	
REQUIRED SPECIAL FEATURES											
The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis. - PV exception 2: No PV required when minimum PV size (Section 150.1(c)(14) < 1.8 kWdc (0 kW) - Variable capacity heat pump compliance option (verification details from VCHP Staff report, Appendix B, and RA3) - Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed											
HERS FEATURE SUMMARY											
The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry - Indoor air quality ventilation - Kitchen range hood - Verified Refrigerant Charge - Airflow in habitable rooms (SC3.1.4.1.7) - Verified heat pump rated heating capacity - Wall-mounted thermostat in zones greater than 150 ft2 (SC3.4.5) - Ductless indoor units located entirely in conditioned space (SC3.1.4.1.8)											
BUILDING - FEATURES INFORMATION											
01	02	03	04	05	06	07					
Project Name	Conditioned Floor Area (ft ²)	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems					
Coachella ADUs (Plan 2)	504	1	1	1	0	1					

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GENERAL INFORMATION											
01	Project Name		Coachella ADUs (Plan 2)								
02	Run Title		Title 24 Analysis								
03	Project Location										
04	City		Coachella			05	Standards Version		2022		
06	Zip code					07	Software Version		EnergyPro 9.2		
08	Climate Zone		15			09	Front Orientation (deg/ Cardinal)		All orientations		
10	Building Type		Single family			11	Number of Dwelling Units		1		
12	Project Scope		Newly Constructed			13	Number of Bedrooms		1		
14	Addition Cond. Floor Area (ft ²)		0			15	Number of Stories		1		
16	Existing Cond. Floor Area (ft ²)		n/a			17	Fenestration Average U-factor		0.3		
18	Total Cond. Floor Area (ft ²)		504			19	Glazing Percentage (%)		12.10%		
20	ADU Bedroom Count		n/a			21	ADU Conditioned Floor Area		n/a		
22	Fuel Type		All electric			23	Occupancy U:		No		
COMPLIANCE RESULTS											
01	Building Complies with Computer Performance										
02	This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider.										
03	This building incorporates one or more Special Features shown below										

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ENERGY USE SUMMARY						
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft ² - yr)	Standard Design TDV Energy (EDR2) (kTDV/ft ² - yr)	Proposed Design Source Energy (EDR1) (kBtu/ft ² - yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft ² - yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	0.05	0.32	0.43	3.21	-0.38	-2.89
Space Cooling	6.39	110.16	5.61	103.85	0.78	6.31
IAQ Ventilation	0.46	4.8	0.46	4.8	0	0
Water Heating	2.38	25.13	1.54	18.2	0.84	6.93
Self Utilization/Flexibility Credit				0		0
South Facing Efficiency Compliance Total	9.28	140.41	8.04	130.06	1.24	10.35
Space Heating	0.05	0.32	0.58	4.37	-0.53	-4.05
Space Cooling	6.39	110.16	5.88	110.96	0.51	-0.8
IAQ Ventilation	0.46	4.8	0.46	4.8	0	0
Water Heating	2.38	25.13	1.55	18.27	0.83	6.86
Self Utilization/Flexibility Credit				0		0
West Facing Efficiency Compliance Total	9.28	140.41	8.47	138.4	0.81	2.01

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ZONE INFORMATION													
01	02	03	04	05	06	07							
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft ²)	Avg. Ceiling Height	Water Heating System 1	Status							
Living Area	Conditioned	HVAC System1	504	8	DHW Sys 1	New							
OPAQUE SURFACES													
01	02	03	04	05	06	07	08						
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft ²)	Window and Door Area (ft2)	Tilt (deg)						
Front Wall	Living Area	R21 Wall	0	Front	288	66	90						
Left Wall	Living Area	R21 Wall	90	Left	112	20	90						
Rear Wall	Living Area	R21 Wall	180	Back	288	9	90						
Right Wall	Living Area	R21 Wall	270	Right	112	6	90						
Roof	Living Area	R-30 Roof Attic	n/a	n/a	504	n/a	n/a						
ATTIC													
01	02	03	04	05	06	07	08						
Name	Construction	Type	Roof Rise (x in 12)	Roof Reflectance	Roof Emittance	Radiant Barrier	Cool Roof						
Attic Living Area	Attic Roof/Living Area	Ventilated	6	0.1	0.85	No	No						
FENESTRATION / GLAZING													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
B.1	Window	Front Wall	Front	0			1	20	0.3	NFRC	0.23	NFRC	Bug Screen
B.1.2	Window	Front Wall	Front	0			1	20	0.3	NFRC	0.23	NFRC	Bug Screen
B.3	Window	Front Wall	Front	0			1	6	0.3	NFRC	0.23	NFRC	Bug Screen



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COACHELLA ADUS
COACHELLA, CA

ARCHITECTURAL SITE PLAN SHEET
- EXAMPLE & INSTRUCTIONS

PUBLIC SET

DATE
01/11/24
SHEET
AS-100

SITE PLAN TO BE PROVIDED BY APPLICANT

SITE PLAN LEGEND

- PROPERTY LINE
- - - - -

SETBACK
- EASTMENT
- X X

(E) FENCE
- =====

(E) WALLS/RETAINING WALLS

SITE PLAN GENERAL NOTES

- REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS
- REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION
- EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL OPEN DIRECTLY INTO A PUBLIC WAY PER 2022 CBC, SECTION 310.1.
- NOT LESS THAN 30" OF CLEARANCE IN WIDTH, DEPTH, & HEIGHT SHALL BE PROVIDED TO ACCESS EXTERIOR MECHANICAL EQUIPMENT. SHOW LOCATION ON SITE PLAN & LABEL (2022 CMC SECTION 304.1 & 2022 CPC 504.3).

SITE PLAN CHECKLIST

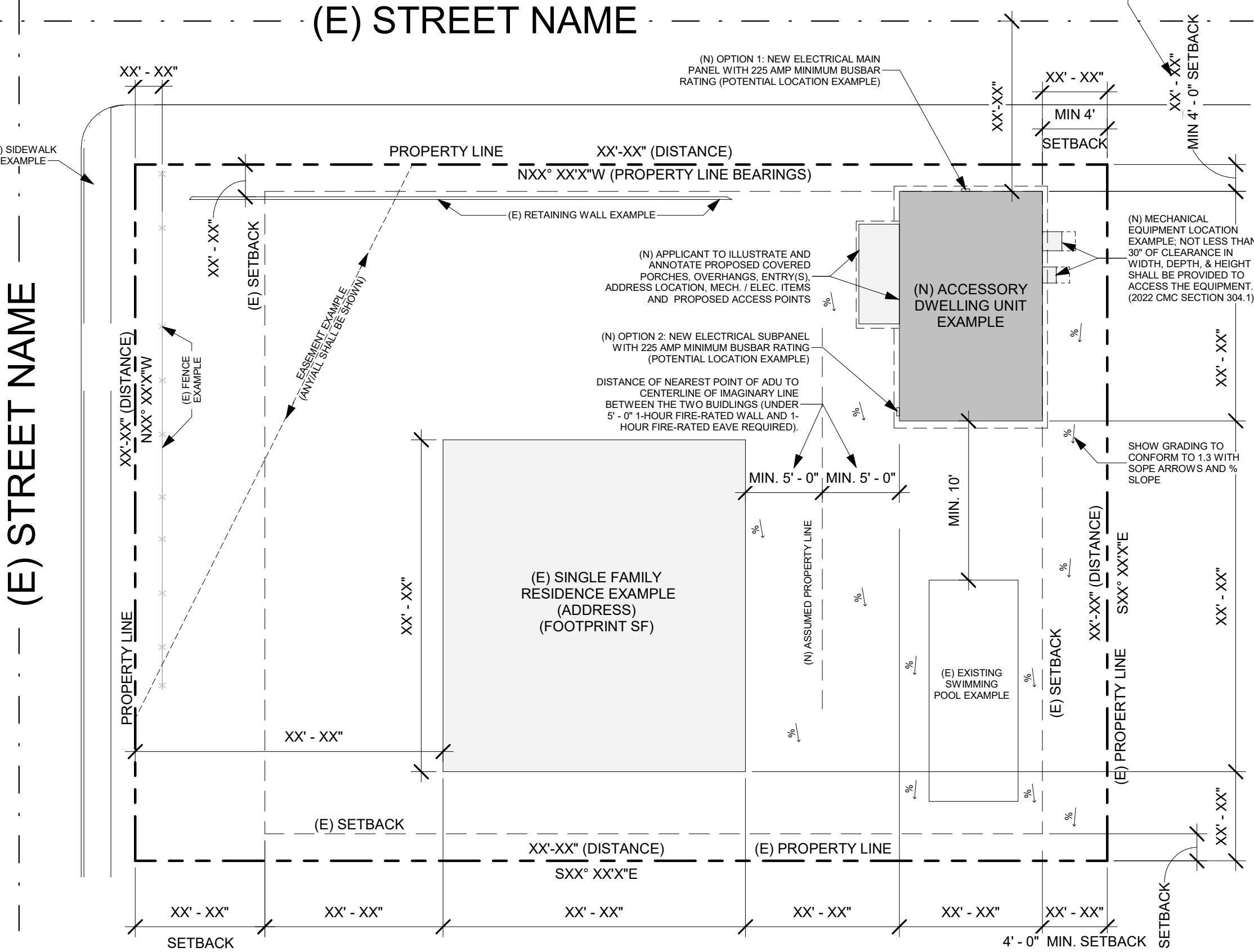
IF (N) ADU IS 5' - 0" OR LESS TO ANY PROPERTY LINE AND/OR ADU IS 10' - 0" OR LESS FROM ANY ADJACENT BUILDING OR STRUCTURE:

- ☐ NO
- ☐ YES; IF YES, FIRE RATED WALL & ROOF REQUIRED PER 2022 CBC, CHAPTER 2. SEE DETAILS: 52/A-901 & 32/A-903

- ELECTRICAL PANEL: ☐ OPTION 1 - NEW ELECTRICAL MAIN PANEL WITH 225 AMP MINIMUM BUSBAR RATING
- ☐ OPTION 2 - A NEW ELECTRICAL SUBPANEL CONNECTS TO THE ELECTRICAL MAIN PANEL OF THE PRIMARY HOME WITH A 225 AMP MINIMUM BUSBAR RATING. A SEPARATE ELECTRICAL PERMIT SHALL BE PULLED FOR THE ELECTRICAL MAIN PANEL OF THE PRIMARY HOME, ELECTRICAL LOAD CALCULATIONS IS REQUIRED.

- ☐ FOOTPRINT OF ALL EXISTING AND PROPOSED BUILDINGS
PLOT THE PROPOSED ADU BUILDING FOOTPRINT ALONG WITH ANY OTHER EXISTING BUILDINGS ONSITE. THIS INCLUDES ALL STRUCUTRES / PORCHES / GAZEBOS. IF AN OPTIONAL COVERED PATIO IS SELECTED, PLEASE PLOT THAT AS WELL.
- ☐ AREA OF EXISTING BUILDING
INDICATE THE SQUARE FOOTAGE OF THE EXISTING HOUSE.
- ☐ FOOTPRINT OF PROPOSED ADU
REFER TO LEGEND FOR FOOTPRINT AT 10'=1" SCALE
- ☐ DRAWING SCALE
SITE PLAN SHOULD BE DRAWN TO A MEASURABLE SCALE.
- ☐ PROPERTY LINES
SHOW OUTLINE OF PROPERTY USING DASHED LINE IN LEGEND. INDICATE THE BEARING AND DISTANCE OF THE PROPERTY LINE.
- ☐ LABEL YARDS
LABEL FRONT, REAR, SIDE YARDS, AS WELL AS DRIVEWAYS, PATHWAYS AND ANY OTHER HARDSCAPE.
- ☐ SETBACKS
DIMENSION THE DISTANCE BETWEEN BUILDINGS AND PROPOPERTY LINES, AS WELL AS BUILDINGS TO OTHER STRUCTURES. SETBACKS TO SIDE AND REAR PROPERTY SIDE SHALL BE A MINIMUM OF (4' - 0").
- ☐ EASEMENTS
REFER TO LEGEND. MUST INCLUDE ALL APPLICABLE EASEMENTS. PROPOSED STRUCTURE SHALL COMPLY WITH EASEMENT REQUIREMENTS.
- ☐ LOCATION OF RAIN WATER LEADERS
THE ROOF DRAINS SHOULD DRAIN AWAY FROM THE PROPERTY LINES AND INTO THE LANDSCAPE AREA.
- ☐ LABEL STREETS & SIDEWALKS
- ☐ DIMENSION BUILDING SEPARATION
DIMENSION THE DISTANCE BETWEEN THE PROPOSED ADU AND ANY EXISTING STRUCTURES
- ☐ LOT COVERAGE CALCULATION
TOTAL FOOTPRINT AREA FOR STRUCTURES ON SITE / LOT AREA
- ☐ SWIMMING POOLS
ALL EXISTING SWIMMING POOLS SHALL BE SHOWN ON THE SITE PLAN AND SHALL HAVE 10' MINIMUM SETBACK TO THE NEW ADU STRUCTURE.
- ☐ PORCHES
THERE SHALL BE NO MORE THAN 30 INCHES MEASURED VERITCALLY TO THE FLOOR OR GRADE BELOW (INCLUDING FLOORS, STAIRS, RAMPS, AND LANDINGS) ANYWHERE MEASURED LESS THAN 36 INCHES HORIZONTALLY TO THE EDGE OF THE PORCH/SLAB/SURFACE OF THE RAIL. INSECT SCREENING SHALL NOT BE CONSIDERED AS A GUARD.
- ☐ LOCATION OF EXISTING UTILITIES
UTILITIES, POLES, SEWER, DRAINS, ELECTRICAL, GAS METERS AND LINES AND ANY PHOTOVOLTATIC.
- ☐ LOCATION OF PROPOSED UTILITIES
PROPOSED UTILITIES SHALL CONFORM TO REQUIREMENTS OF CONTRA COSTA COUNTY SANITARY DISTRICT. SANITARY SEWER FROM ADU TO EXISTING SEWER. SEWER LINE TO THE PROPOSED ADU SHALL BE CONNECTED TO THE MAIN LATERAL AT THE PROPERTY LINE OR BEHIND THE SIDEWALK. LATERAL POINT OF CONNECTION INCLUDING REQUIRED CLEANOUTS. WATER LINE TO ADU, ELECTRIC TO ADU INCLUDING ANY NEW METERS OR SUBPANELS.

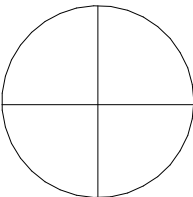
NOTE: THIS IS AN EXAMPLE SITE PLAN. EXACT LAYOUT, DIMENSIONS, AND BEARINGS SHALL BE PROVIDED BY OWNER/APPLICANT. (E) EXISTING (N) NEW



1 EXAMPLE SITE PLAN
1A.2 AS-100 SCALE: 1" = 20'-0"

SITE PLAN

SCALE:



NORTH ARROW

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FINISH SCHEDULE

FINISH SCHEDULE - PLAN 2				
ROOM NAME	FLOOR	WALL	CEILING	NOTES
BATHROOM	CT	WR GWB	WR GWB	
BEDROOM	LVT	GWB	GWB	
CL	LVT	GWB	GWB	
KITCHEN	LVT	GWB	GWB	WR GWB BEHIND COUNTER
LAUNDRY	LVT	GWB	GWB	
LIVING	LVT	GWB	GWB	
PORCH	CONC			
WH	LVT	WR GWB	WR GWB	

KEYNOTES

A02	30" SLIDE ELECTRIC SINGLE OVEN, STAINLESS STEEL.
A04	24" WIDE FRONT CONTROL UNDERCOUNTER DISHWASHER.
A05	REFRIGERATOR LOCATION. PROVIDE 37" SPACE WITH ROUGH PLUMBING FOR ICE MAKER (RECESS IN WALL).
A14	WASHING MACHINE LOCATION. PROVIDE WASTE AND WATER IN RECESSED WALL BOX.
A15	DRYER LOCATION. PROVIDE DRYER VENT. VENT TO OUTSIDE AIR THROUGH EXTERIOR WALL. DRYER VENT 4" MIN DIAMETER TO EXTERIOR WITH SCREENED AND ONE DIRECTIONAL VENT GATE. MAX LENGTH TO NOT EXCEED 14' WITH A MAX OF 2 90-DEGREE BENDS. TERMINATION SHALL BE 3" MINIMUM FROM OPERABLE OPENING IN EXTERIOR WALL.
B01	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.
B07	36" X 48" SHOWER. TILE FLOOR. TILE WALLS AT 84" AFS. PROVIDE GLASS SHOWER ENCLOSURE.
B14	50 GALLON TANK TYPE ELECTRIC WATER HEATER. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. PROVIDE CONCRETE PAD MIN. 6" LARGER THAN UNIT IN EACH DIRECTION. 3" MIN. ABOVE GRADE. STRAPPING DETAIL 51/AD-902.
C01	SINGLE WOOD SHELF AND POLE.
C08	12" DEEP UPPER CABINET.
C10	24" DEEP UPPER CABINET.
C12	BASE CABINET.
C13	SINK BASE CABINET AND COUNTERTOP.
C14	36" A.F.F. COUNTERTOP
M02	DOWNSPOUT. CONNECT TO STORM DRAIN SYSTEM

FLOOR PLAN GENERAL NOTES

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

WALL TYPES LEGEND

	EXTERIOR - 5 1/2" WOOD STUD W/ PLYWOOD SHEATHING AND STUCCO, ONE LAYER GYPSUM WALL BOARD INTERIOR.
	EXTERIOR - 5 1/2" WOOD DOUBLE STUD W/ PLYWOOD SHEATHING AND STUCCO EACH SIDE. (MODERN ONLY)
	INTERIOR - 3 1/2" WOOD STUD W/ONE LAYER GYPSUM WALL BOARD EACH SIDE.

DOOR GENERAL NOTES

- REFER TO GENERAL NOTES ON SHEET G-101 FOR ADDITIONAL REQUIREMENTS.
- REFER TO FLOOR PLANS FOR DOOR LOCATIONS.
- CONTRACTOR TO VERIFY EXACT ROUGH OPENING SIZES WITH DOOR MANUFACTURER SPECIFICATIONS PRIOR TO FABRICATION OF ROUGH OPENINGS.
- CONTRACTOR TO VERIFY ACTUAL DOOR SIZES TO FIT FINISH OPENING PRIOR TO FABRICATION OF DOOR AND FINISH OPENING.
- REFER TO DOOR TYPES LEGEND FOR GLAZING.
- REFER TO T24 REPORT FOR GLAZING ENERGY REQUIREMENTS
- INSTALL PER MANUFACTURERS WRITTEN INSTRUCTIONS

DOOR SCHEDULE

MARK	TYPE	DOOR		REMARKS
		WIDTH	HEIGHT	
2.1	A	3' - 0"	6' - 8"	1, 2
2.2	D	2' - 8"	6' - 8"	2
2.3	B	2' - 0"	6' - 8"	
2.4	C	2' - 6"	6' - 8"	
2.5	C	2' - 8"	6' - 8"	
2.6	B	2' - 0"	6' - 8"	
2.7	E	5' - 0"	6' - 8"	

DOOR REMARKS

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

DOOR LEGEND

T = TEMPERED GLAZING

MISSION REVIVAL	DESERT MODERN	SPANISH COLONIAL	B. VENTED WATER CLOSET INTERIOR
A. SOLID CORE WOOD EXTERIOR			
C. SINGLE HOLLOW CORE INTERIOR	D. SOLID CORE WOOD EXTERIOR.	E. BI-FOLD - LOUVERED INTERIOR	



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FLOOR PLANS - PLAN 2

PUBLIC SET

DATE
01/11/24
SHEET

A2-101

1 A1- FLOOR PLAN

1A.2 A2-101 SCALE: 1/4" = 1'-0"

PORCH STYLE

CHECK APPROPRIATE STYLE OPTION BELOW

SHOWN IN
FLOOR PLAN

☐ MISSION REVIVAL

☐ DESERT MODERN

☐ SPANISH COLONIAL

WINDOW LEGEND

MISSION REVIVAL	DESERT MODERN	SPANISH COLONIAL
A. HORIZONTAL SLIDER		
MISSION REVIVAL	DESERT MODERN	SPANISH COLONIAL
B. CASEMENT		



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GENERAL MEP NOTES

1. REFER TO ELECTRICAL NOTES ON SHEET G-101.
2. REFER TO MECHANICAL NOTES ON SHEET G-101.
3. REFER TO PLUMBING NOTES ON SHEET G-101.
4. REFER TO TITLE 24 COMPLIANCE NOTES ON SHEET G-101.
5. EXTERNALLY MOUNTED HEATING/COOLING UNITS SHALL BE SCREENED IF THEY ARE VISIBLE FROM A PUBLIC STREET.

LEGEND

	ELECTRICAL SWITCH		SMOKE DETECTOR/ALARM		AFI DUPLEX OUTLET ARC-FAULT CIRCUIT INTERRUPTER
	ELECTRICAL SWITCH-THREE WAY		COMBINATION SMOKE/CARBON MONOXIDE		220V DUPLEX OUTLET 220 VOLTS
	ELECTRICAL SWITCH-FAN		TELEPHONE LOCATION		WP 220V WATER PROOF DUPLEX OUTLET 220 VOLTS
	EXHAUST FAN W/HUMIDISTAT		CABLE TELEVISION LOCATION		GFI DUPLEX OUTLET GROUND FAULT INTERRUPTER
	PENDANT LIGHT		WP GFI WATER PROOF DUPLEX OUTLET GROUND FAULT INTERRUPTER		GFI 42" DUPLEX OUTLET GROUND FAULT INTERRUPTER 42" HIGH
	WALL MOUNTED LIGHT		CEILING FAN WITH LIGHT FIXTURE (LIGHT NOT REQUIRED IN LIVING ROOM)		DW AFC-HALF HOT DUPLEX OUTLET
	RECESSED DOWNLIGHT		22"X30" MIN. CEILING ACCESS PANEL		CW COLD WATER STUB OUT
	ELECTRICAL WIRING				HW HOT WATER STUB OUT
					30V WATER HOSE BIBB WITH SHUT OFF VALVE

KEYNOTES

- A02 30" SLIDE ELECTRIC SINGLE OVEN, STAINLESS STEEL.
A03 30" WIDE BUILT-IN MICROWAVE WITH RANGE VENT.
B14 50 GALLON TANK TYPE ELECTRIC WATER HEATER. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. PROVIDE CONCRETE PAD MIN. 6" LARGER THAN UNIT IN EACH DIRECTION. 3" MIN. ABOVE GRADE. STRAPPING DETAIL 51/AD-902.
- B16 220V AIR GAP DISCONNECT, 30" CLEAR WORKING SPACE REQUIRED IN FRONT OF ELECTRICAL EQUIPMENT
B32 100 AMP SERVICE, CONFIRM WITH EXISTING SERVICE.
B38 MULTI-ZONE HEAT PUMP CONDENSING UNIT. REFER TO PLANS FOR LOCATION OF INDOOR FAN FAN COIL UNITS. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. PROVIDE CONCRETE PAD MIN. 6" LARGER THAN UNIT IN EACH DIRECTION. 3" MIN. ABOVE GRADE.
- B41 FAN COIL. REFER TO PLANS FOR LOCATION OF OUTDOOR CONDENSING UNIT. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. PROVIDE OUTLET.

VENTILATION SUMMARIES

1) LOCAL EXHAUST VENTILATION

BATHROOM	OPTION A	OPTION B
BATHROOM FAN FLOW (cfm)	50 CFM	50 CFM
DUCT TYPE	FLEX DUCT	SMOOTH DUCT
DUCT SIZE (in)	4"	4"
MAX. ALLOWABLE DUCT LENGTH (ft)	70'	105'
THIS EXHAUST FAN IS REQUIRED TO BE RATED FOR SOUND AT A MAX. OF 3 SONES.		
KITCHEN	OPTION A	OPTION B
KITCHEN FAN FLOW (cfm)	100 CFM	50 CFM
DUCT TYPE	FLEX DUCT	SMOOTH DUCT
DUCT SIZE (in)	5"	5"
MAX. ALLOWABLE DUCT LENGTH (ft)	35'	85'
THIS EXHAUST FAN IS REQUIRED TO BE RATED FOR SOUND AT A MAX. OF 3 SONES.		

2) WHOLE BUILDING VENTILATION

OPTION A	OPTION B
PER ASHRAE STANDARD 62.2, CEC EQUATION 150.0-B	
BUILDING FAN FLOW (cfm)	50 CFM
DUCT TYPE	FLEX DUCT
DUCT SIZE (in)	4"
MAX. ALLOWABLE DUCT LENGTH (ft)	70'
THIS EXHAUST FAN IS REQUIRED TO BE RATED FOR SOUND AT A MAX. OF 1 SONE.	
THIS EXHAUST FAN IS REQUIRED TO OPERATE CONTINUOUSLY TO ENSURE CONTINUOUSLY TO ENSURE INDOOR AIR QUALITY.	

TOTAL (MINIMUM) REQUIRED VENTILATION RATE

PER ASHRAE STANDARD 62.2, CEC EQUATION 150.0-B
 $Q_{CFM} = .03(\text{FLOOR AREA}) + 7.5 (\# \text{ OF BEDROOMS} + 1)$

WHOLE DWELLING UNIT MECHANICAL VENTILATION

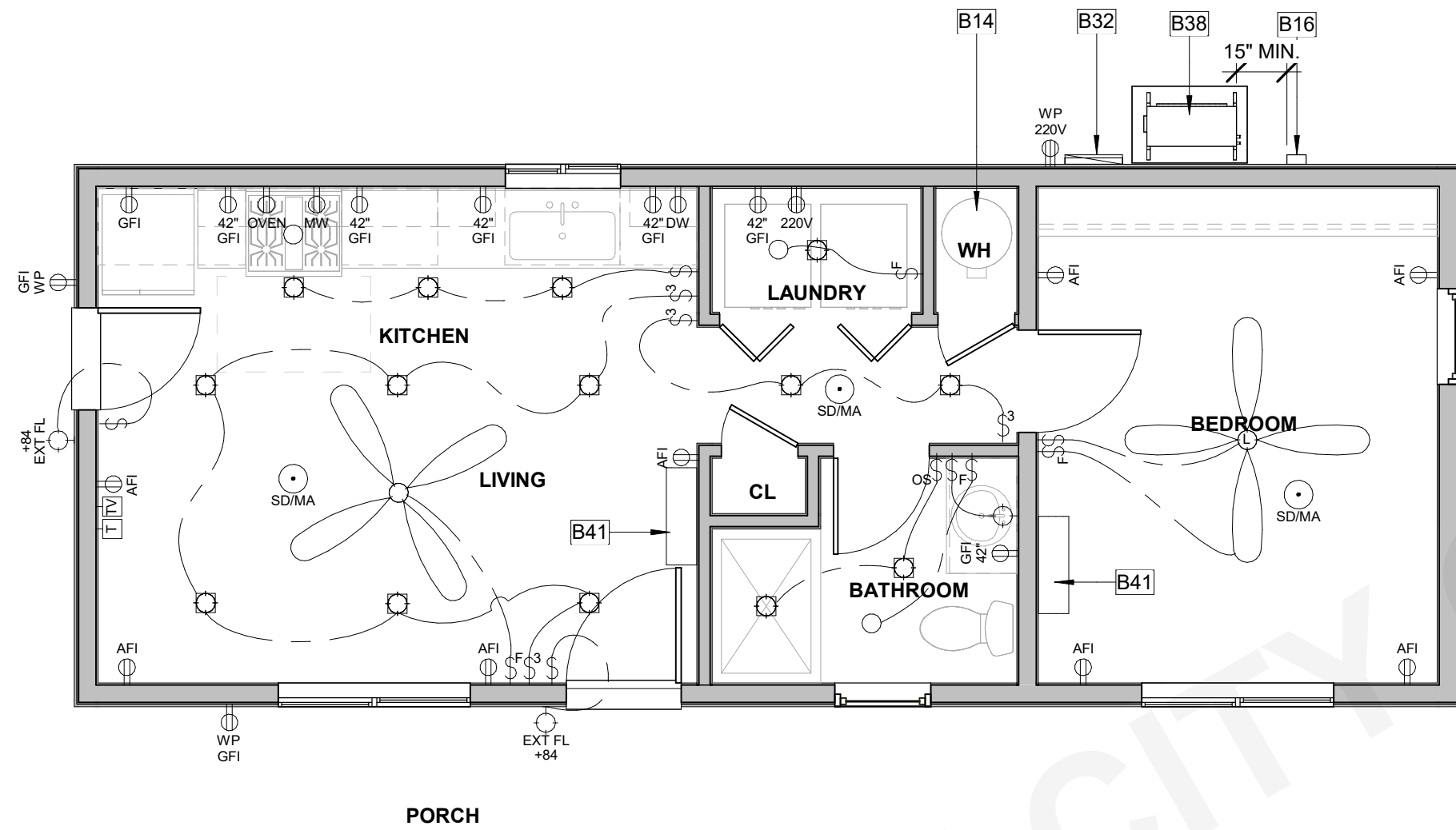
PER SECTION 150.0(C)(iii) [ASHRAE 62.2.4.1.2]
1 BED - MINIMUM CUBIC FEET PER MINUTE (CFM) (Equation 150.0-B)
 $Q_{tot} = 0.03A_{floor} + 7.5(N_{br} + 1)$.03(504 sf) + 7.5 (1+1) = 30.12 CFM
< 50 CFM

EFFECTIVE ANNUAL AVERAGE INFILTRATION RATE

PER SECTION 150.0(C)(iii)
a. (Equation 150.0-C) $Q_{50} = V_{du} (x) 2 \text{ ACH}_{50} / 60 \text{ minutes}$
a. (Equation 150.0-D) $Q_{50} = V_{du} (x) \text{ Verified } \text{ACH}_{50} / 60 \text{ minutes}$
b. (Equation 150.0-E) $Q_{tot} = 0.052 (x) Q_{50} \times w_{sf} \times [H/H]^{.72}$ [ASHRAE 62.2.4.1.2.1]

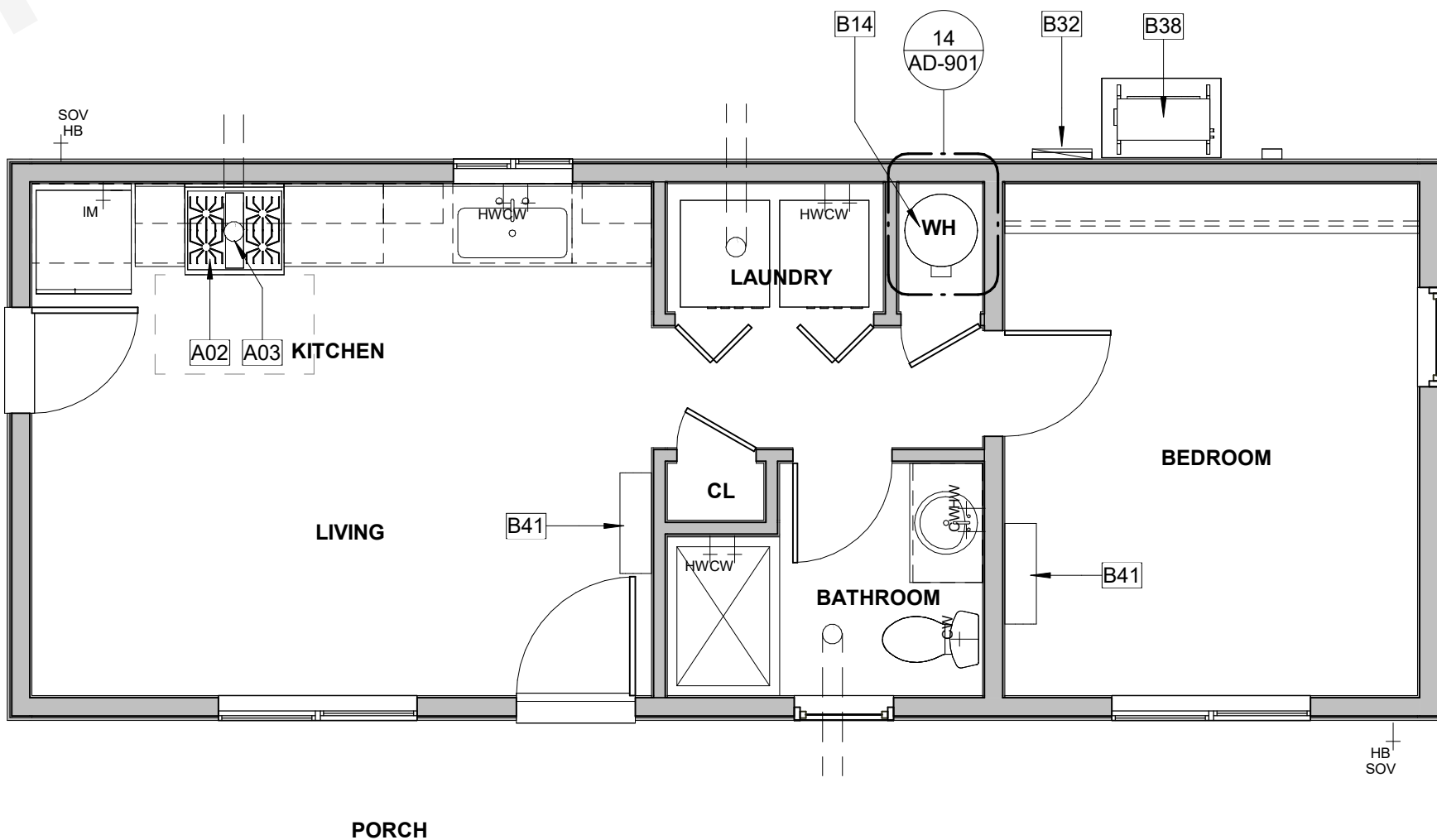
REQUIRED MECHANICAL VENTILATION RATE

AND REQUIRED MECHANICAL VENTILATION RATE PER 150.0(O)(C)(iii)
[ASHRAE 62.2.4.1.2]
(Equation 150.0-F) $Q_{fan} = Q_{tot} (-) \phi (Q_{inf} (x) A_{ext})$



1 PLAN 2 - ELECTRICAL

1A.2 | A2-111 SCALE: 1/4" = 1'-0"



2 PLAN 2 - MECHANICAL

1A.2 | A2-111 SCALE: 1/4" = 1'-0"

PLUMBING FIXTURES

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.

FIXTURE TYPE	FLOW RATE
SHOWER HEADS (RESIDENTIAL)	1.8 GPM @ 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

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MECHANICAL & ELECTRICAL
PLANS - PLAN 2

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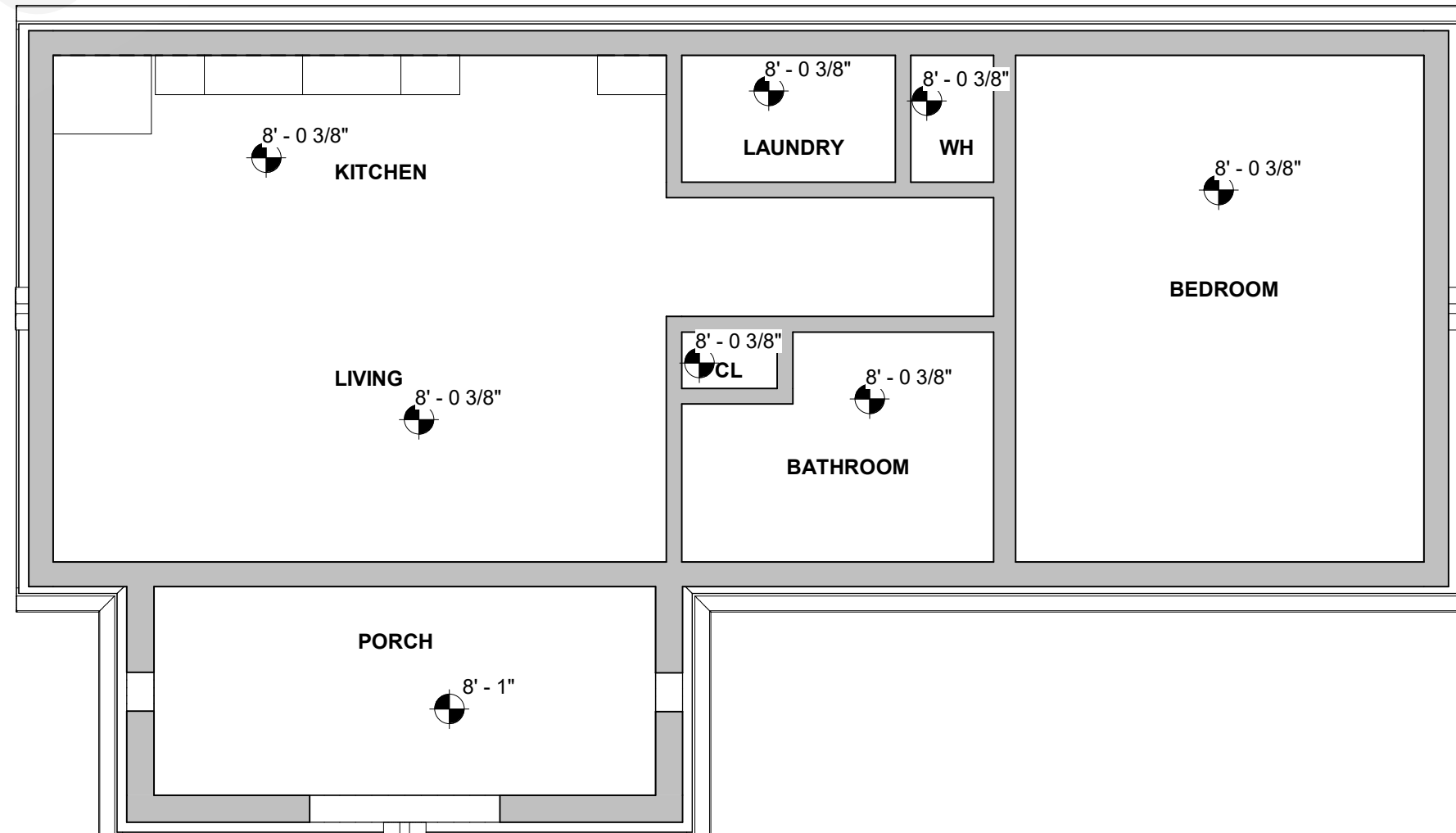
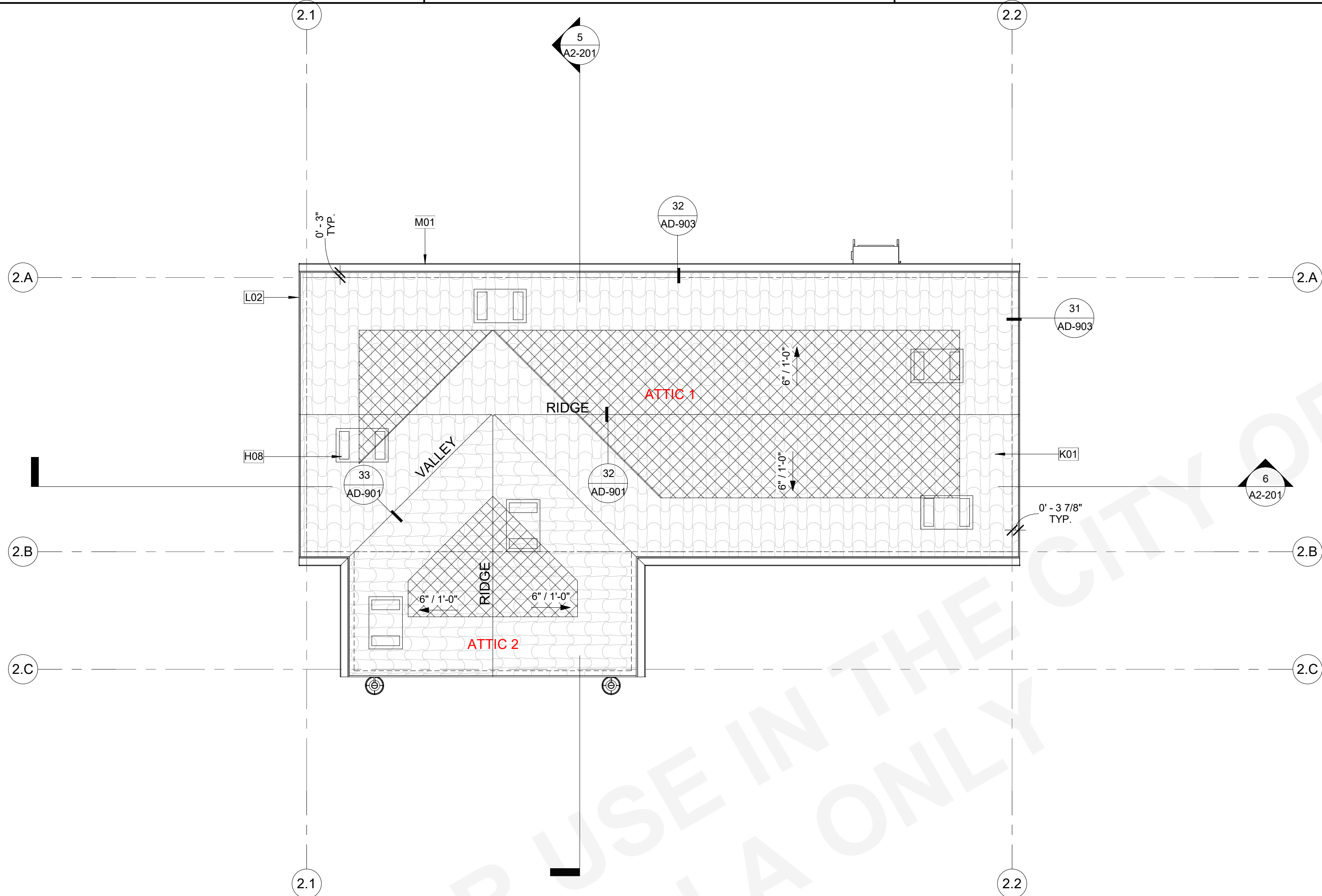
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1 PLAN 2 - ROOF PLAN - MISSION REVIVAL

A2-121 SCALE: 1/4" = 1'-0"

2 PLAN 2 - RCP - MISISON REVIVAL

1A.2 A2-121 SCALE: 1/4" = 1'-0"



ROOF PLAN GENERAL NOTES

- REFER TO GENERAL NOTES SHEET G-102 FOR ADDITIONAL REQUIREMENTS
- REFER TO STRUCTURAL PLANS FOR ROOF FRAMING INFORMATION INCLUDING MEMBER SIZES AND CONNECTION HARDWARE.
- PROVIDE A MINIMUM OF 1 INCH OF AIRSPACE BETWEEN THE INSULATION AND ROOF SHEATHING.
- 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.
- ALL ROOFING MATERIALS TO BE INSTALLED PER MANUFACTURER'S SPECS.
- OVERHANG DIMENSIONS ARE FROM FACE OF EXTERIOR WALL FRAMING TO ROOF EDGE.
- ROOF VENTS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ADJUST AS NEEDED TO ACCOMMODATE TRUSS LOCATIONS, PLUMBING VENTS, AND SOLAR COLLECTORS.

ROOF VENTING CALCULATIONS

UPPER VENTS: O'HAGIN HIGH PROFILE "S" TILE CONCRETE TILE LINE
97.5 SQ.IN OF AIR MOVEMENT PER VENT = 97.5 SQ.IN. / 144 = 0.68 SF

LOWER VENTS: O'HAGIN HIGH PROFILE "S" TILE CONCRETE TILE LINE
97.5 SQ.IN OF AIR MOVEMENT PER VENT = 97.5 SQ.IN. / 144 = 0.68 SF

"UPPER VENTS PROVIDED" = (TOTAL ATTIC AREA/300) * (0.5) / (0.68 SF)

"LOWER VENTS PROVIDED" = (TOTAL ATTIC AREA/300) * (0.5) / (0.68 SF)

ATTIC	AREA	REQUIRED ATTIC VENTING (NFA)	UPPER VENTING REQUIRED (NFA)	LOWER VENTING REQUIRED (NFA)
PLAN 2 - ATTIC 1	417 SF	1.39 SF	0.69 SF	0.69 SF
PLAN 2 - ATTIC 2	109 SF	0.36 SF	0.18 SF	0.18 SF

VENT TYPE	COUNT	VENT LENGTH	NET FREE AREA PER VENT	PROVIDED NET FREE AREA
LOWER				
O'HAGIN S-TILE ROOF VENT (LOWER)	3	2' - 8"	0.68 SF	2.03 SF
				2.03 SF
UPPER				
O'HAGIN S-TILE ROOF VENT (UPPER)	3	2' - 8"	0.68 SF	2.03 SF
				2.03 SF

ROOF LEGEND

- 2" / 12" ROOF SLOPE (REFER TO PLANS FOR ACTUAL SLOPE)
- O'HAGIN ATTIC VENT, PAINT TO MATCH ROOF COLOR. (REFER TO EXTERIOR ELEVATIONS FOR COLORS AND MATERIALS.)
- WALL BELOW
- GUTTER, CONNECT TO DOWNSPOUT
DOWNSPOUT, TO ROOF OR SPLASHBLOCK BELOW U.N.O.
- FUTURE SOLAR ZONE. REFER TO SOLAR READY NOTES ON SHEET G-101.
- ATTIC # ATTIC SPACE, REFER TO ROOF VENTING CALCULATIONS FOR AREA AND VENTING METHOD

KEYNOTES

- H08 ATTIC VENT. PAINT FINISH TO MATCH ROOF COLOR. REFER TO COLORS AND MATERIALS.
- K01 CONCRETE S-TILE. ESR REPORT TO BE PROVIDED BY OWNER
- L02 1x8 FIBER CEMENT FASCIA.
- M01 GUTTER. CONNECT TO DOWNSPOUT. PROVIDE MEANS TO PREVENT ACCUMULATION OF LEAVES AND DEBRIS IN GUTTER PER CRC R327.5.4

RCP GENERAL NOTES

- REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS.
- HEIGHT OF CEILINGS SHALL BE MEASURED FROM TOP OF SLAB OR FLOOR TO FINISH FACE OF GWB, U.N.O.
- REFER TO DETAILS FOR FLOOR/CEILING ASSEMBLIES.
- REFER TO ELECTRICAL PLANS FOR LIGHT FIXTURE LOCATIONS.
- DIMENSIONS ARE TO THE FACE OF FRAMING UNLESS OTHERWISE NOTED.
- SOFFITS ARE TO BE HELD TIGHT TO UNDERSIDE OF MECHANICAL EQUIPMENT.

RCP LEGEND

- 8'-1" HEIGHT OF CEILING SURFACE (SEE PLAN FOR ACTUAL HEIGHTS)
- 2" / 12" CEILING SLOPE (SEE PLAN FOR ACTUAL HEIGHTS)
- INTERIOR CEILING FINISH, REFER TO FINISH SCHEDULE.
- EXTERIOR STUCCO CEILING FINISH
- EXTERIOR FIBER CEMENT BOARD CEILING
HARDIE SOFFIT PANELS - BEADED PORCH PANEL OR EQ.



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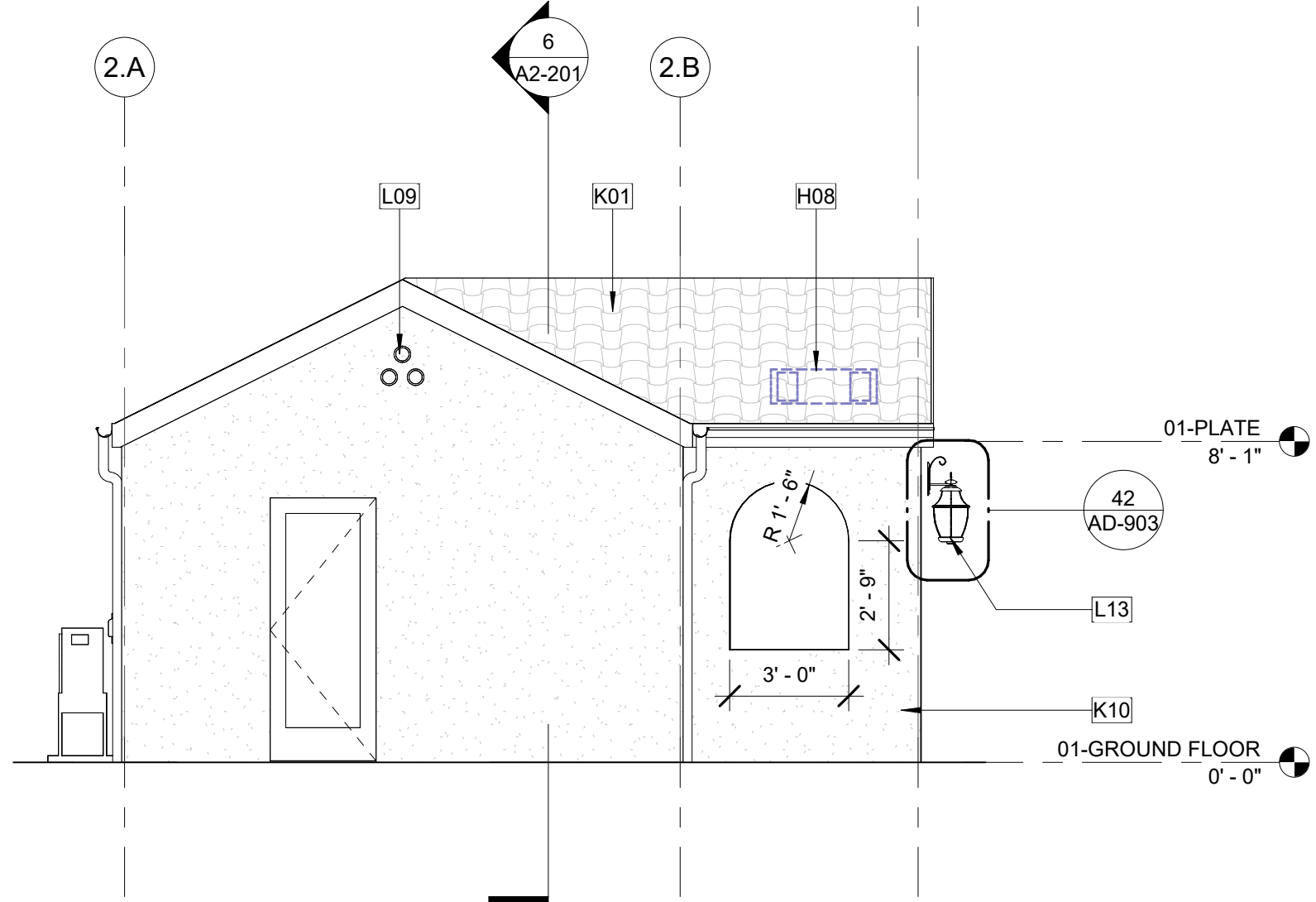
ROOF PLAN & REFLECTED
CEILING PLAN - PLAN 2 - MISSION
REVIVAL

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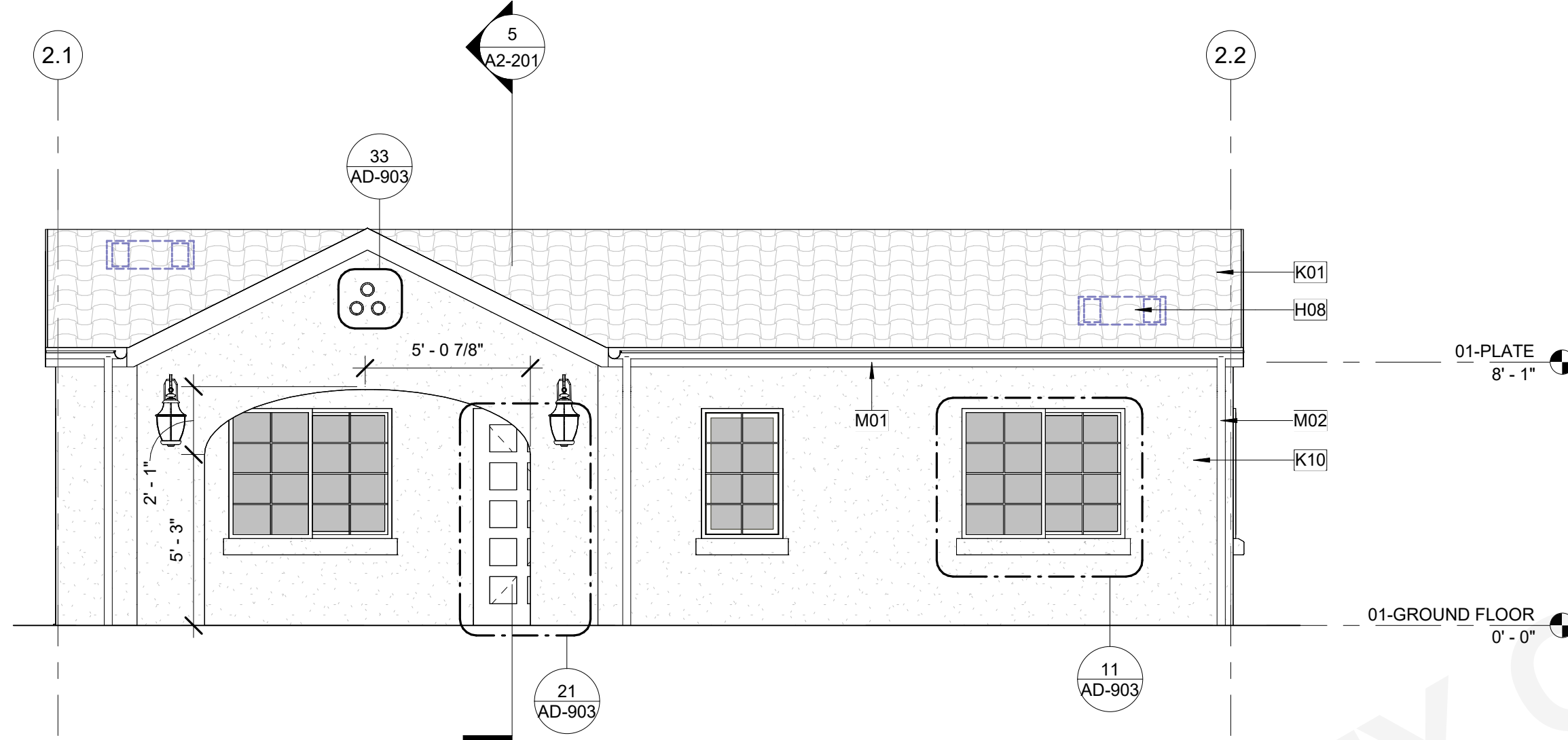
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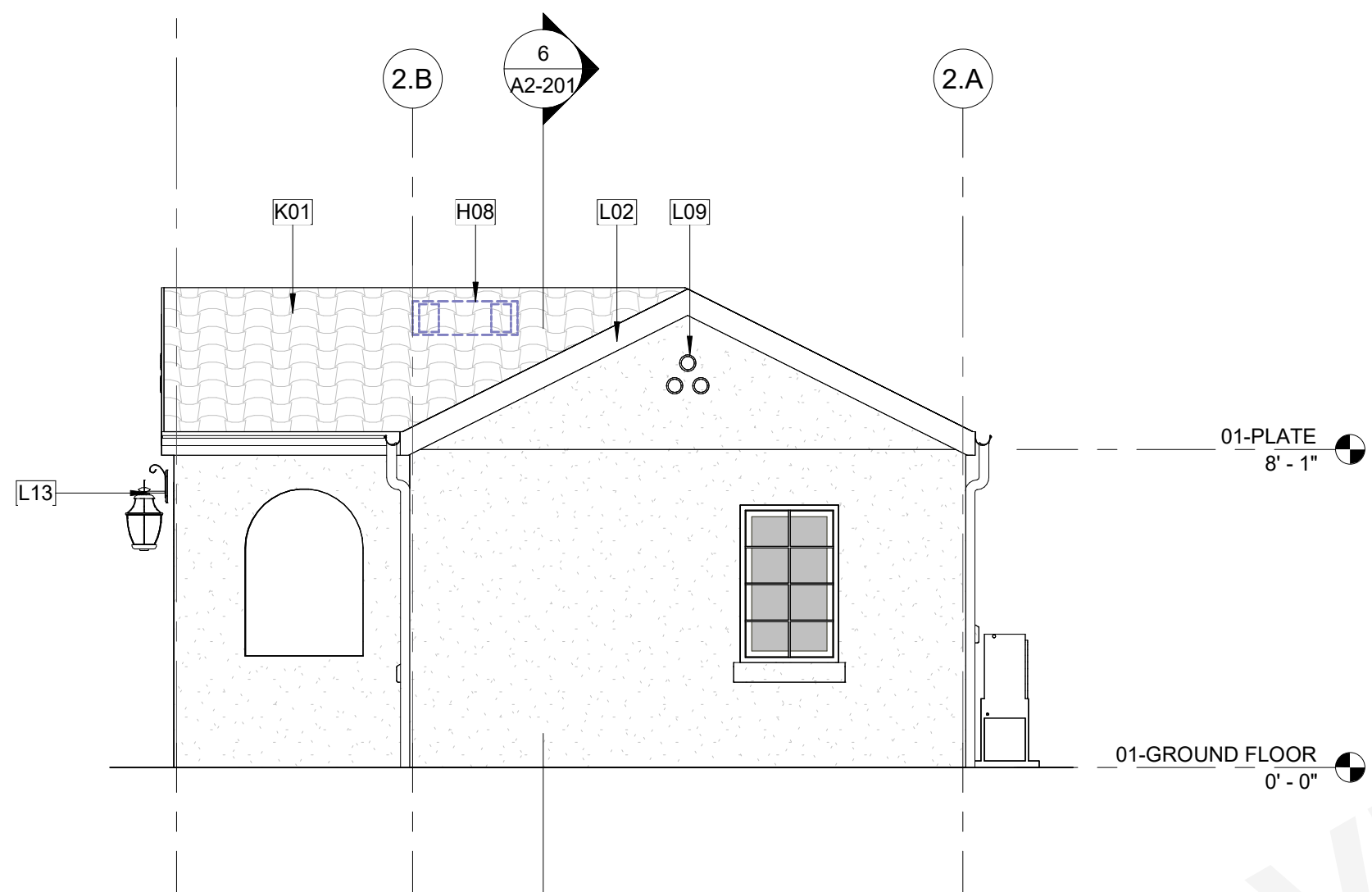
2 PLAN 2 - MISSION REVIVAL - LEFT ELEVATION

A2-101 | A2-201 SCALE: 1/4" = 1'-0"



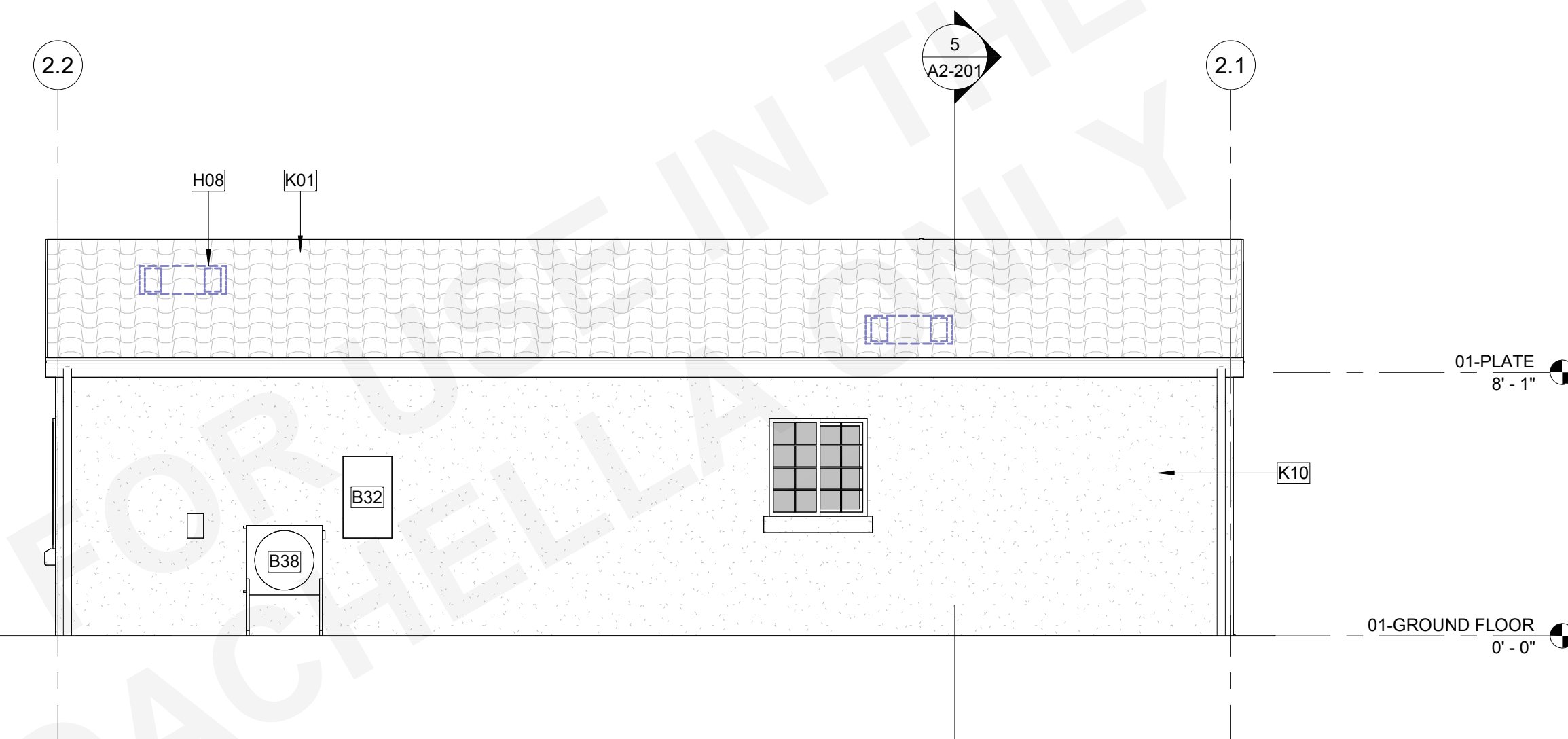
1 PLAN 2 - MISSION REVIVAL - FRONT ELEVATION

A2-101 | A2-201 SCALE: 1/4" = 1'-0"



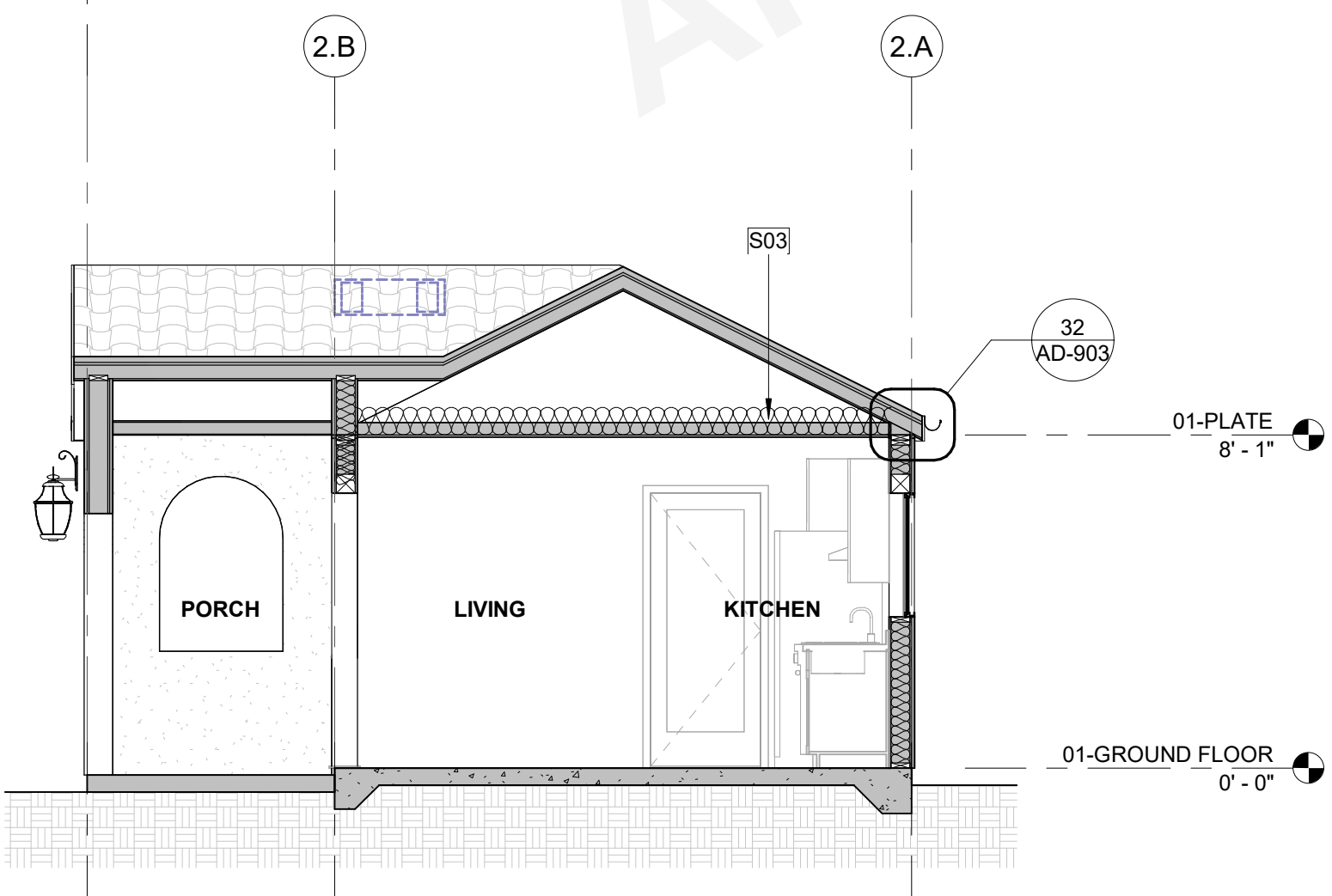
4 PLAN 2 - MISSION REVIVAL - RIGHT ELEVATION

A2-101 | A2-201 SCALE: 1/4" = 1'-0"



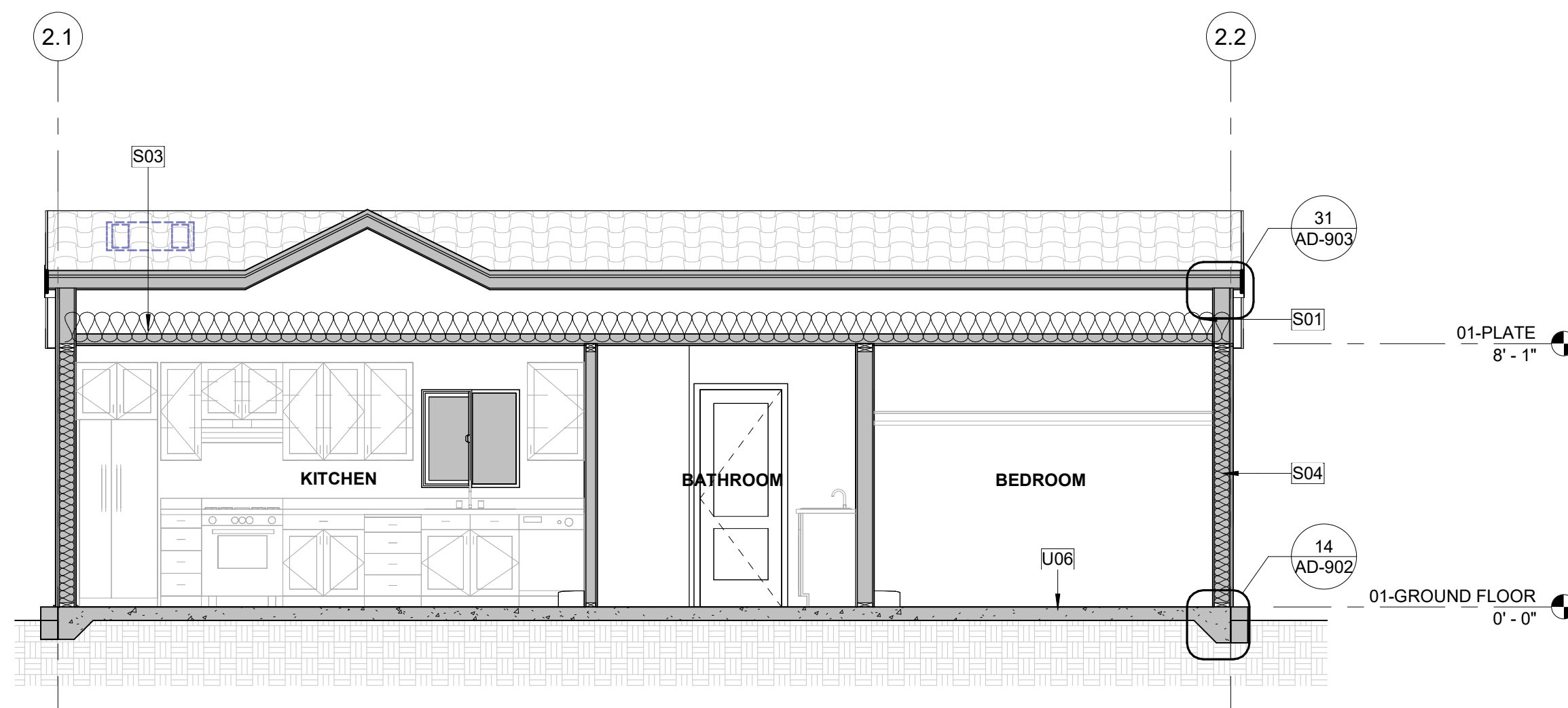
3 PLAN 2 - MISSION - RIGHT ELEVATION

A2-101 | A2-201 SCALE: 1/4" = 1'-0"



5 PLAN 2 - MISSION REVIVAL - SECTION 2

A2-101 | A2-201 SCALE: 1/4" = 1'-0"



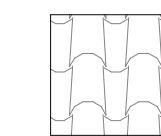
6 PLAN 2 - MISSION REVIVAL - SECTION 1

A2-101 | A2-201 SCALE: 1/4" = 1'-0"

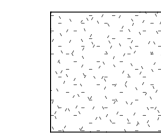
ELEVATION GENERAL NOTES

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

EXTERIOR MATERIALS LEGEND



BARREL TILE ROOF



STUCCO FINISH

KEYNOTES

- B32 100 AMP SERVICE, CONFIRM WITH EXISTING SERVICE.
B38 MULTI-ZONE HEAT PUMP CONDENSING UNIT. REFER TO PLANS FOR LOCATION OF INDOOR FAN FAN COIL UNITS. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. PROVIDE CONCRETE PAD MIN. 6" LARGER THAN UNIT IN EACH DIRECTION, 3" MIN. ABOVE GRADE.
- H08 ATTIC VENT. PAINT FINISH TO MATCH ROOF COLOR. REFER TO COLORS AND MATERIALS.
- K01 CONCRETE S-TILE. ESR REPORT TO BE PROVIDED BY OWNER
K10 3-COAT CEMENT PLASTER SYSTEM O/ LATH O/ WATER RESISTIVE BARRIER PER CRC 703.7.3. EXTERIOR BUILDING FINISH SHALL BE IN COMPLIANCE WITH 2019 CRC R337.
- L02 1x8 FIBER CEMENT FASCIA.
L09 DECORATIVE GABLE VENT, ROUND 3-HOLE
L13 EXTERIOR LIGHT SCHEME A. DARK SKY AND TITLE 24 COMPLIANT.
M01 GUTTER. CONNECT TO DOWNSPOUT. PROVIDE MEANS TO PREVENT ACCUMULATION OF LEAVES AND DEBRIS IN GUTTER PER CRC R327.5.4
- M02 DOWNSPOUT. CONNECT TO STORM DRAIN SYSTEM
S01 CEILING INSULATION. REFER TO TITLE 24 (R-38 MIN.).
S03 ROOF INSULATION. REFER TO TITLE 24 (R-19 MIN.).
S04 2X6 WALL INSULATION. REFER TO TITLE 24 (R-21 MIN.).
U06 CONCRETE SLAB FOUNDATION PER STRUCTURAL. 10 MIL VAPOR RETARDER CONFORMING TO ASTM E1745 CLASS A REQUIREMENTS.

SECTIONS GENERAL NOTES

1. THE PURPOSE OF THESE DRAWINGS IS TO SHOW CONSTRUCTION MATERIALS/ASSEMBLIES. FOR SPECIFIC SIZES AND DETAILS REFER TO ARCHITECTURAL PLANS, ELEVATIONS, DETAILS, AND STRUCTURAL PLANS. KEYNOTES ONLY APPLY IF REFERENCED ON PLANS.
2. WALL ASSEMBLIES TO BE PER FLOOR PLAN.
3. DOORS AND WINDOWS TO BE PER APPLICABLE SCHEDULE. REFER TO FLOOR PLANS FOR IDENTIFICATION.
4. INSULATION: REFER TO TITLE 24 REPORT AND "INSULATION" NOTES ON SHEET FOR ADDITIONAL RATINGS, REQUIREMENTS, AND INFORMATION.
5. REFER TO FIRE BLOCKING NOTES ON SHEET G-101 FOR FIRE BLOCKING REQUIREMENTS.
6. PER 2022 CRC SECTION R317 SLEEPERS AND SILLS ON A CONCRETE OR MASONRY SLAB THAT IS IN DIRECT CONTACT WITH GROUND, UNLESS SEPARATED BY AN IMPERVIOUS MOISTURE BARRIER SHALL BE NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD.



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COACHELLA, CA

EXT. ELEVATIONS & SECTIONS -
PLAN 2 - MISSION REVIVAL

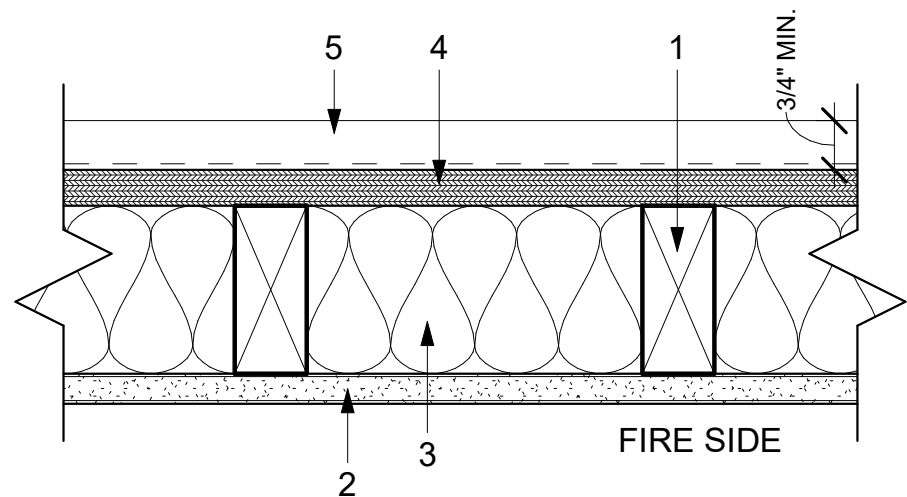
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WOOD STUDS, GYPSUM BOARD AND CEMENT STUCCO

- 1. WOOD STUDS**
NOMINAL 2X4 SPACED 16" O.C. WITH (2) 2X4 TOP PLATES (1) 2X4 BOTTOM PLATE. STUDS LATERALLY-BRACED BY WOOD STRUCTURAL PANEL SHEATHING (ITEM 5) AND EFFECTIVELY FIRE STOPPED AT TOP AND BOTTOM OF WALL.
- 2. GYPSUM BOARD**
ANY CLASSIFIED 5/8" THICK, 48" WIDE, APPLIED VERTICALLY AND NAILED TO STUDS AND BEARING PLATES 7" O.C. WITH 6D CEMENT-COATED NAILS, 1 7/8" LONG WITH 1/4" DIAM. HEAD.
- JOINTS AND NAILHEADS (NOT SHOWN) - WALLBOARD JOINTS COVERED WITH TAPE AND JOINT COMPOUND. NAIL HEADS COVERED WITH JOINT COMPOUND.
- 3. BATTS AND BLANKETS**
MINERAL FIBER OR GLASS INSULATION, 3 1/2" THICK. PRESSURE FIT TO FILL WALL CAVITIES BETWEEN STUDS AND PLATES. MINERAL FIBER INSULATION TO BE UNFACED AND TO HAVE A MIN. DENSITY OF 3 PCF. GLASS FIBER INSULATION TO BE FACED WITH ALUMIUM FOIL OR FRAFT PAPER AND TO HAVE A MIN. DENSITY OF 0.9 PCF (MIN. R-13 THERMAL INSULATION RATING). FIBER SPRAYED - AS AN ALTERNATE TO BATTS AND BLANKETS (ITEM 4) - SPRAY APPLIED CELLULOSE INSULATION MATERIAL. THE FIBER IS APPLIED WITH WATER TO COMPLETELY FILL THE ENCLOSED CAVITY IN ACCORDANCE WITH THE APPLICATION INSTRUCTIONS SUPPLIED WITH THE PRODUCT. NOMINAL DRY DENSITY OF 3.0 LB/CU.FT.
- 4. WOOD STRUCTURAL PANEL SHEATHING**
MIN 7/16" THICK, 4 FT. WIDE WOOD STRUCTURAL PANELS, MIN. GRADE "C-D" OR "SHEATHING". INSTALLED WITH LONG DIMENSION OF SHEET (STRENGTH AXIS) OR FACE GRAIN OF PLYWOOD PARALLEL WITH OR PERPENDICULAR TO STUDS. VERTICAL JOINTS CENTERED ON STUDS. HORIZONTAL JOINTS BACKED WITH NOMINAL 2X4 WOOD BLOCKING. ATTACHED TO STUDS ON EXTERIOR SIDE OF WALL WITH 6D CEMENT COATED BOX NAILS SPACED 6" O.C. AT PERIMETER OF PANELS AND 12" O.C. ALONG INTERIOR STUDS.
- 5. EXTERIOR FACING**
INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTION. ONE OF THE FOLLOWING EXTERIOR FACINGS IS TO BE APPLIED OVER THE SHEATHING. REFER TO PLAN FOR INFORMATION:
- D. CEMENTITIOUS STUCCO - PORTLAND CEMENT OR SYNTHETIC STUCCO SYSTEM WITH SELF-FURRING METAL LATH OR ADHESIVE BASE COAT. THICKNESS FROM 3/8" TO 3/4", DEPENDING ON SYSTEM.
- H. FIBER-CEMENT SIDING - FIBER-CEMENT EXTERIOR SIDING INCLUDING SMOOTH AND PATTERNED PANEL OR LAP SIDING.

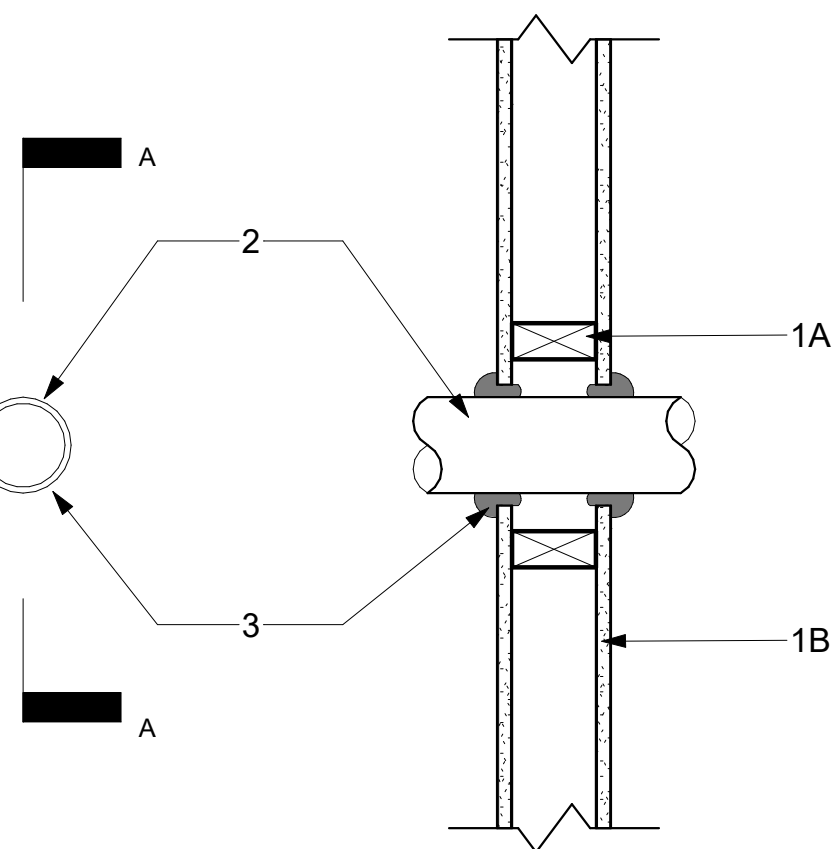
UL DES U305

NOTE:
AT INTERIOR WALL USE:
5/8" SHEETROCK FIRE CODE CORE PANELS,
5/8" SHEETROCK ULTRAIGHT PANELS FIRE CODE X OR
5/8" FIBEROCK PANELS -
2 X 4 WOOD STUD 16" OR 24" O.C.

53 1-HR EXT. RATED WALL ASSEMBLY

SCALE: 3" = 1'-0"

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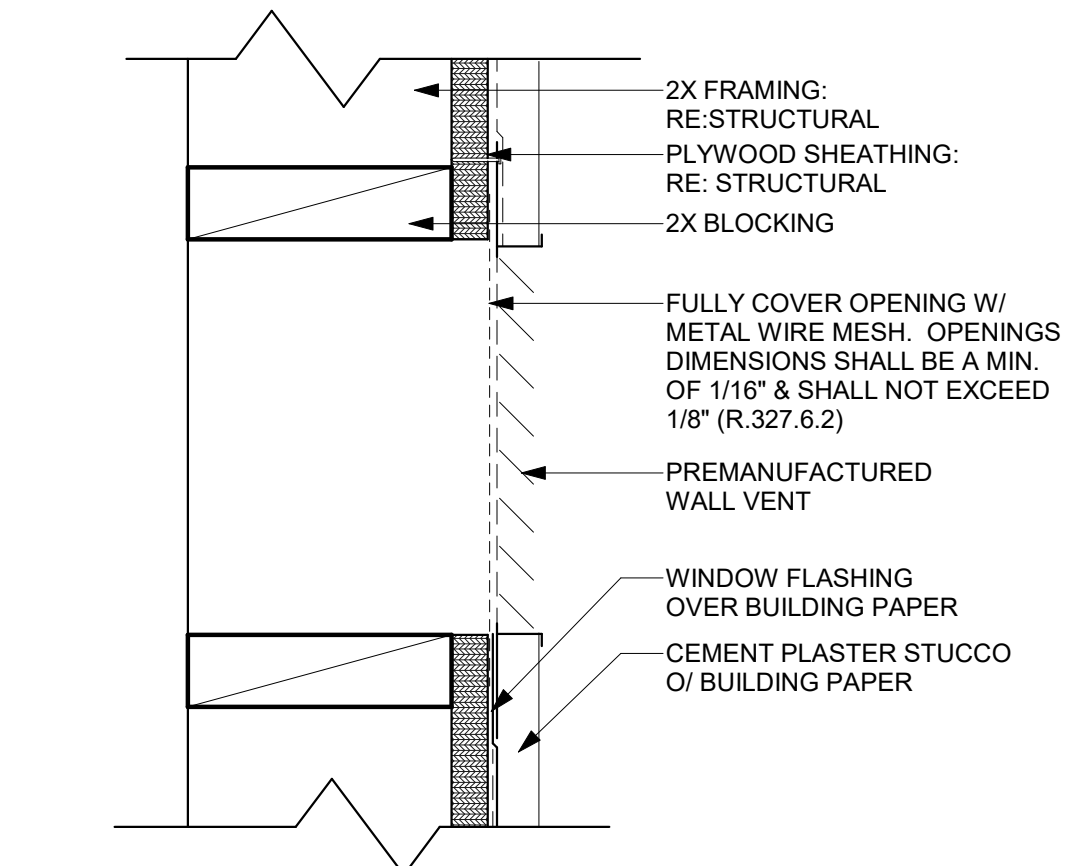


WALL SYSTEM PENETRATION
F RATING - 1 AND 2 HR (SEE ITEM 1B)
T RATING - 0 HR

- 1. WALL ASSEMBLY**
THE 1 OR 2 HR. FIRE RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
- A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM. 2 IN. BY 4 IN. LUMBER SPACED 16 IN. O.C. STEEL STUDS TO BE MIN. 3 1/2 IN. WIDE AND SPACED MAX. 24 IN. O.C.
- B. GYPSUM BOARD (BEARING THE UL CLASSIFICATION MARKING)- THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS REQUIRED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX. DIAM. OF OPENING IS 5 IN.
- THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
- 2. THROUGH- PENETRANTS**
ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN THE PIPE, CONDUIT OR TUBING AND PERIPHERY OF THE OPENING SHALL BE MIN. OF 0 IN. (POINT CONTACT) TO A MAX. 1/8 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
- A. COPPER TUBING- NOM. 4 IN. DIAM. (OR SMALLER) TYPE M (OR HEAVIER) COPPER TUBING.
- B. COPPER PIPE- NOM. 4 IN. DIAM. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
- C. STEEL PIPE- NOM. 4 IN. DIAM. (OR SMALLER) SCHEDULE 5 (OR HEAVIER) STEEL PIPE.
- D. CONDUIT- NOM. 4 IN. DIAM. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR RIGID STEEL CONDUIT
- E. IRON PIPE- NOM. 4 IN. DIAM. (OR SMALLER) CAST OR DUCTILE IRON PIPE.
- 3. FILL, VOID OR CAVITY MATERIALS** (BEARING THE UL CLASSIFICATION MARKING) - CAULK OR PUTTY- MIN. 1/2 IN. DIAMETER BEAD CAULK OR PUTTY APPLIED CONTINUOUSLY AROUND THE PENETRANT ON THE WALL SURFACES ON BOTH SIDES OF THE WALL.
- 3M COMPANY - CP 25WB+ CAULK OR MPS-2+ PUTTY

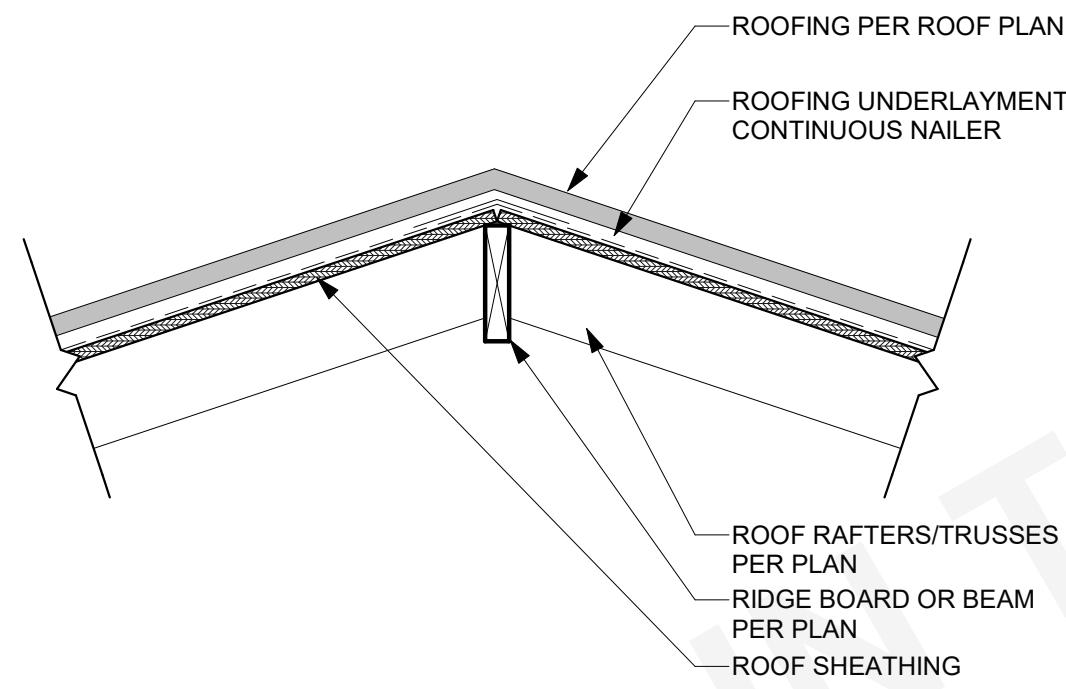
43 THROUGH PENETRATION @ WALL

SCALE: 1 1/2" = 1'-0"



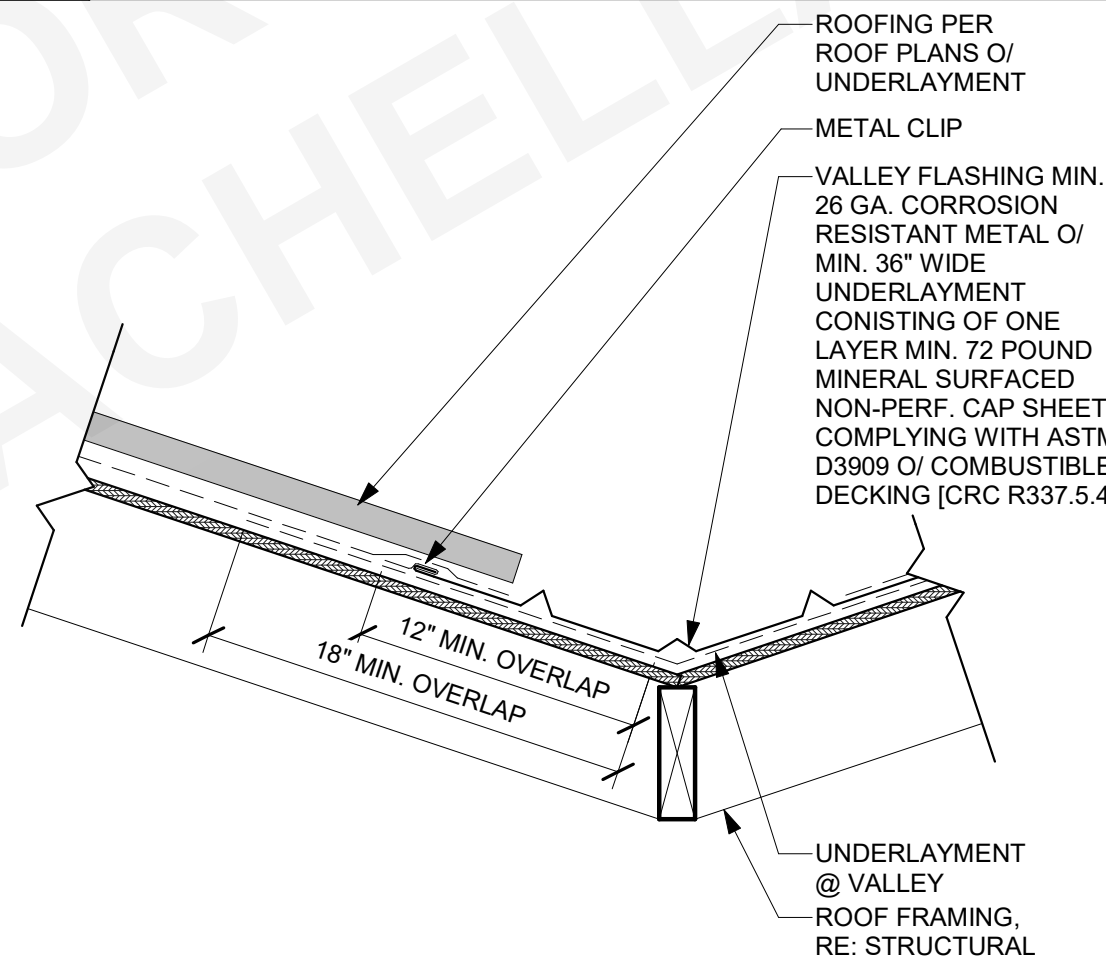
31 WALL VENT

SCALE: 3" = 1'-0"



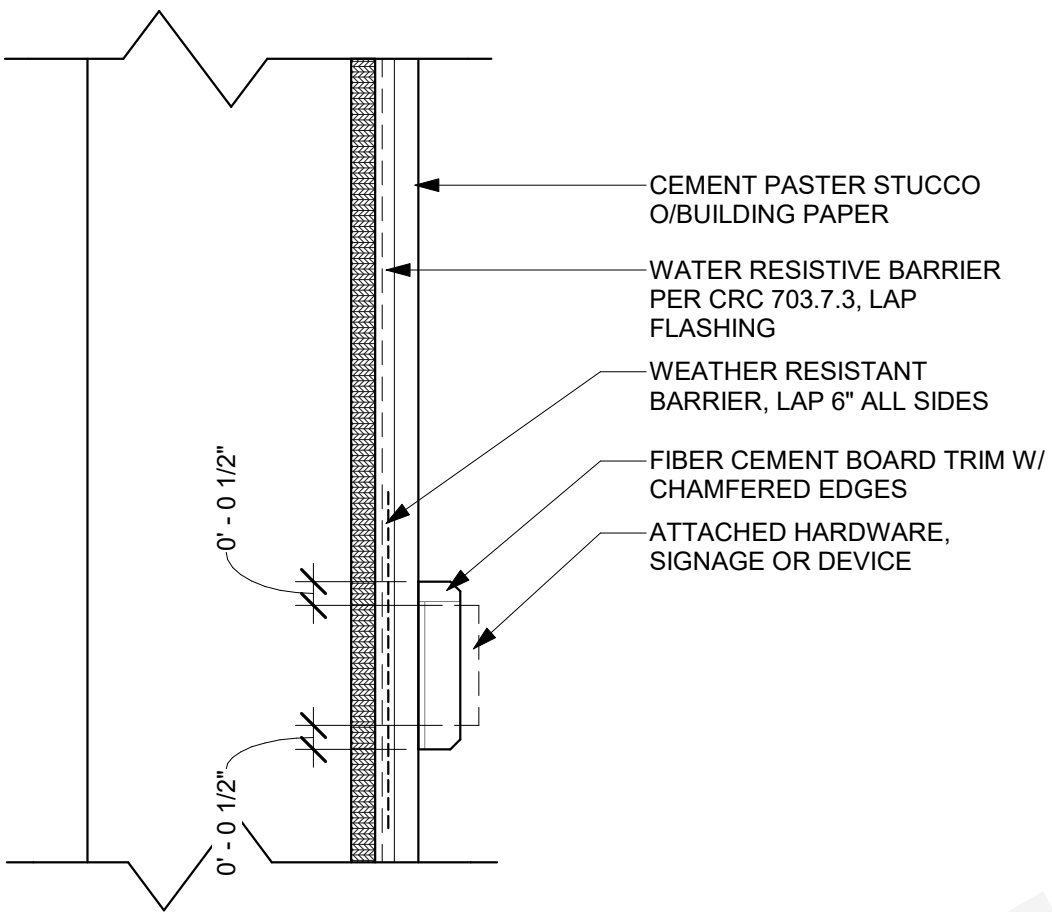
32 HIP/RIDGE

SCALE: 1" = 1'-0"



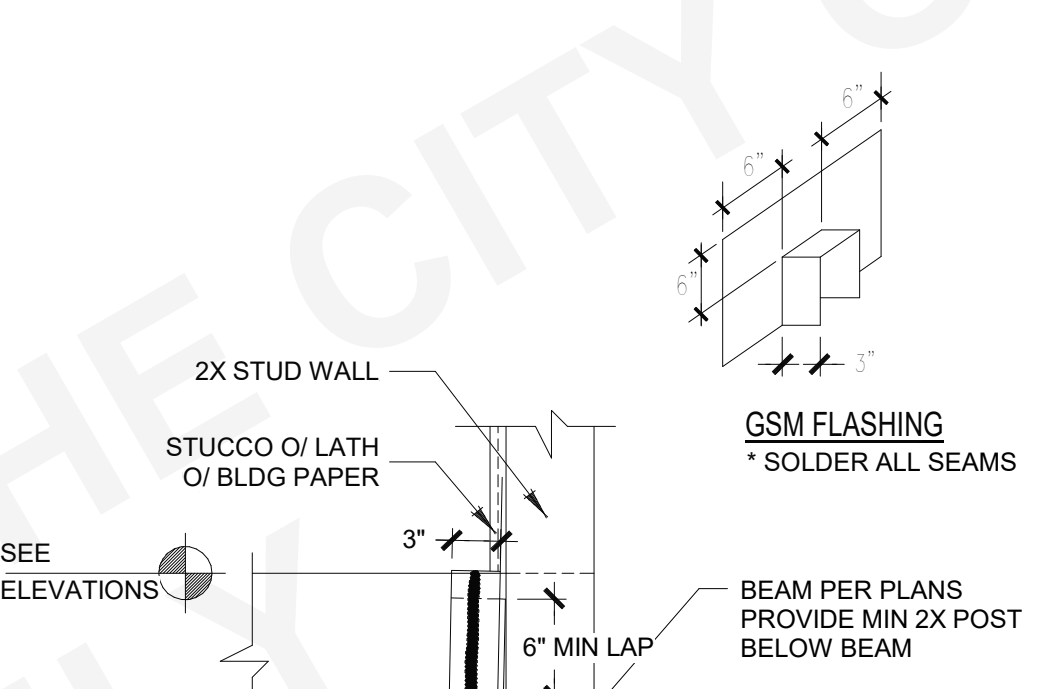
33 VALLEY FLASHING

SCALE: 1 1/2" = 1'-0"

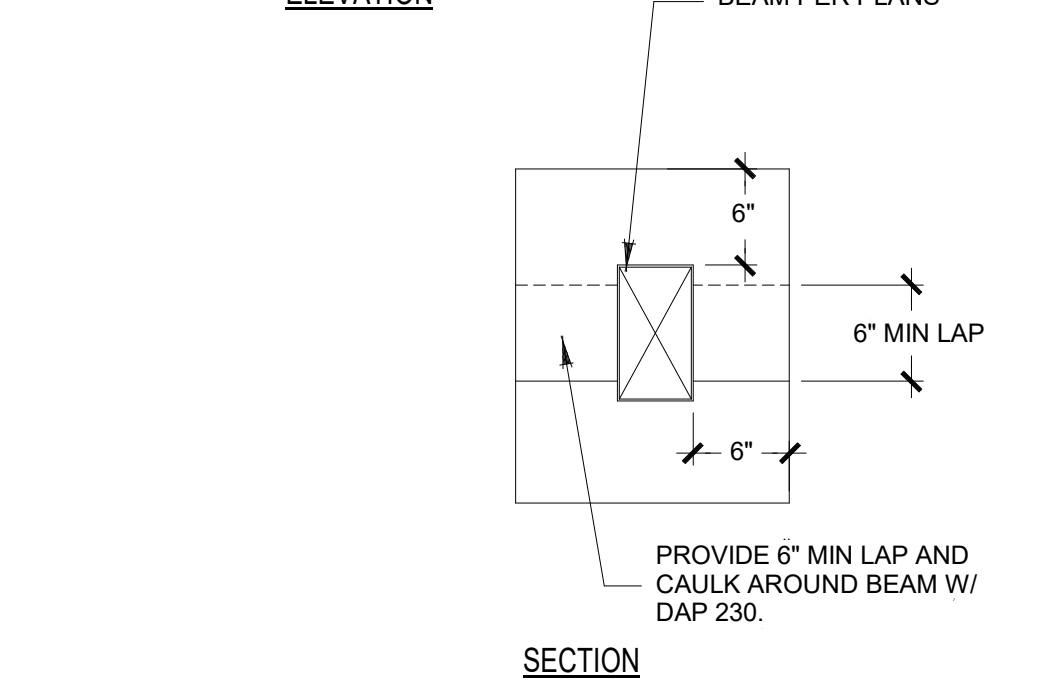


21 MOUNTING PAD

SCALE: 3" = 1'-0"



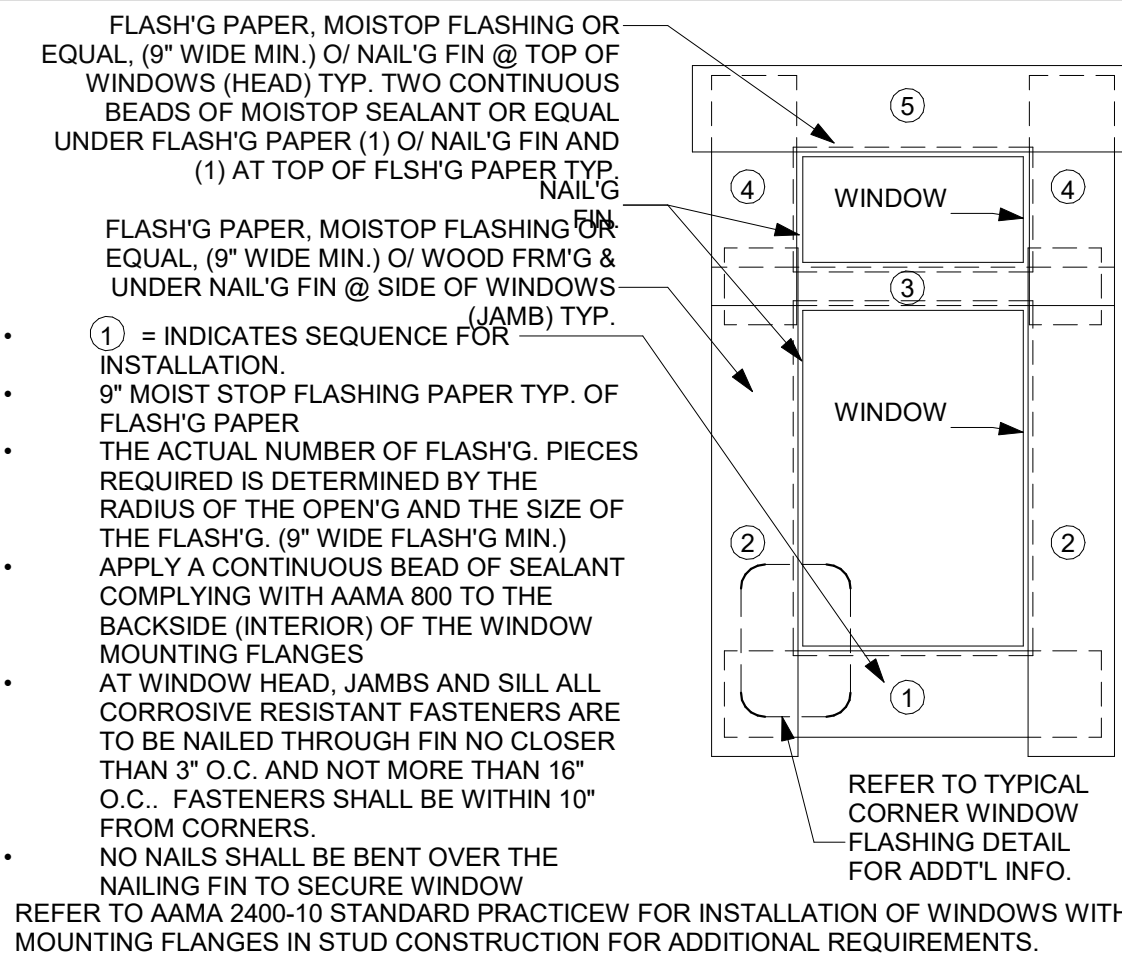
ELEVATION



NOTE:
* NO NAILS THROUGH GSM INTO BEAM
* NO NAILS SHALL PENETRATE GSM WITHIN 2" OF BEAM

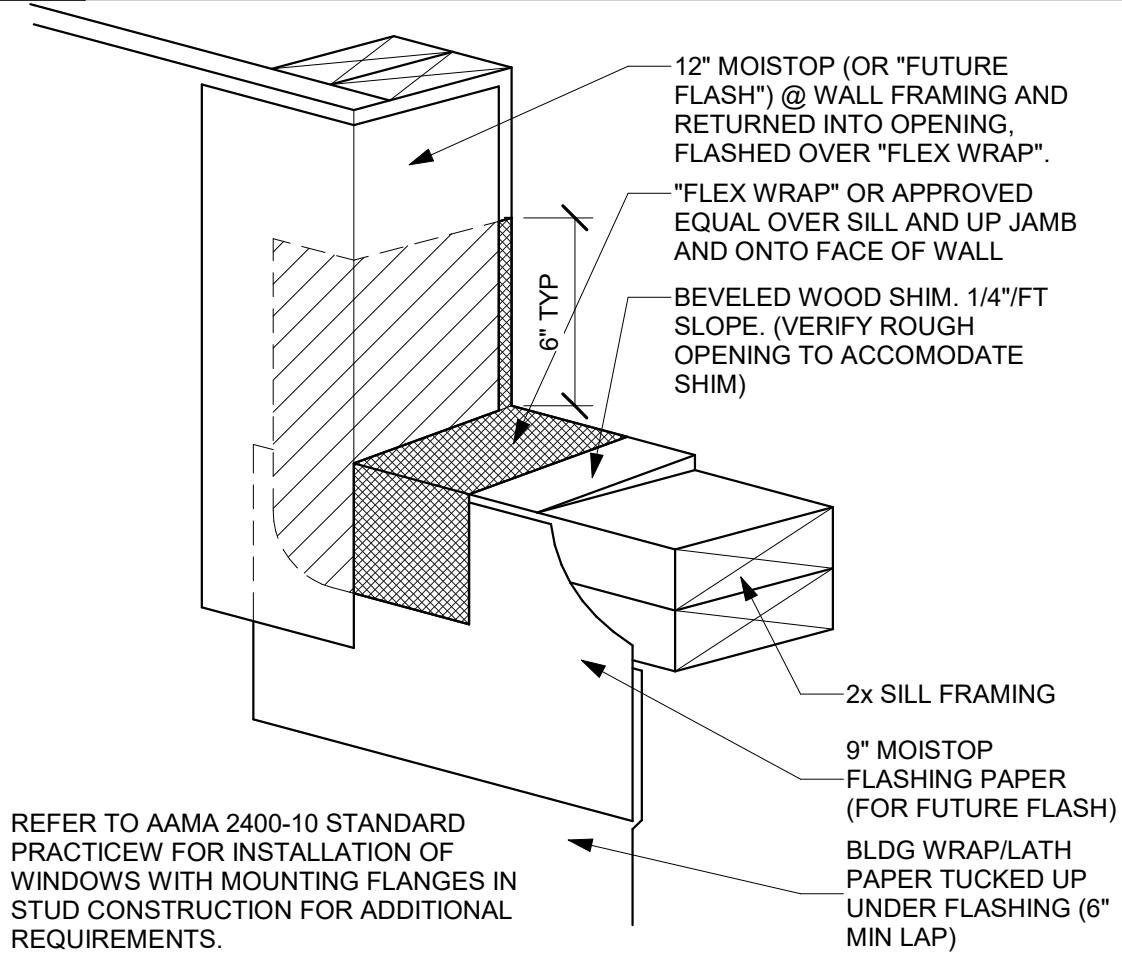
23 BEAM TO WALL FLASHING

SCALE: 1" = 1'-0"



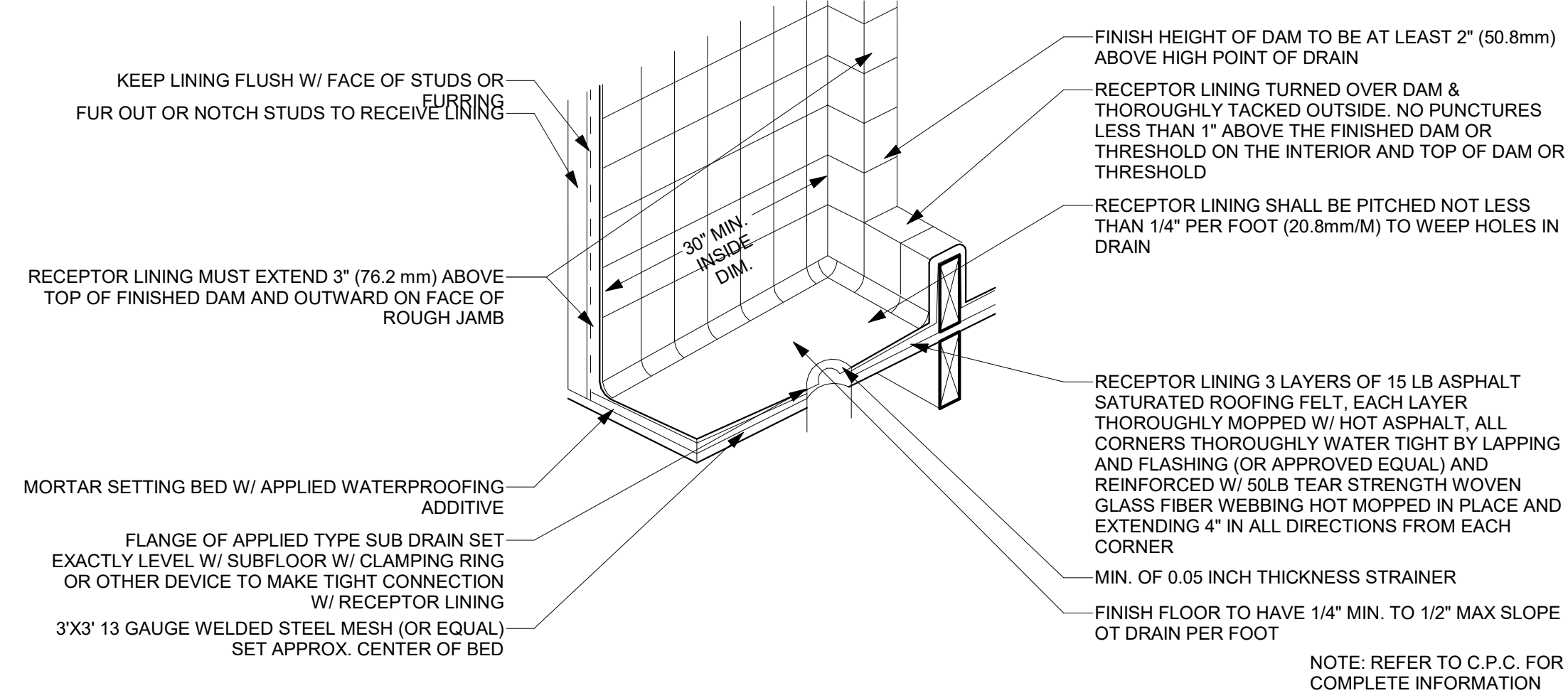
12 TYPICAL WIN FLASHING

SCALE: 12" = 1'-0"



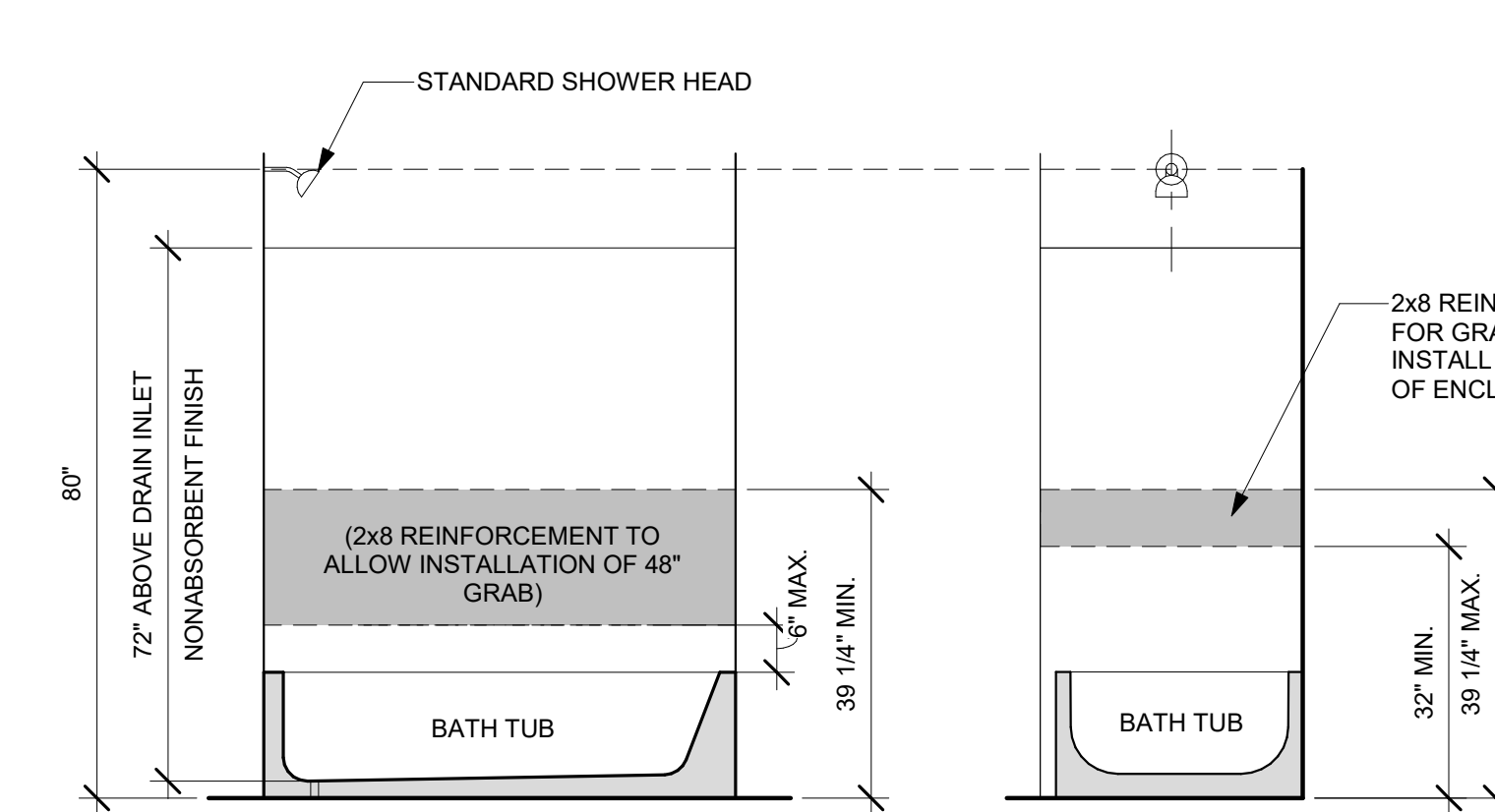
13 TYPICAL CORNER WIN FLASHING

SCALE: 12" = 1'-0"



54 SHOWER - RECEPTOR

SCALE: 12" = 1'-0"

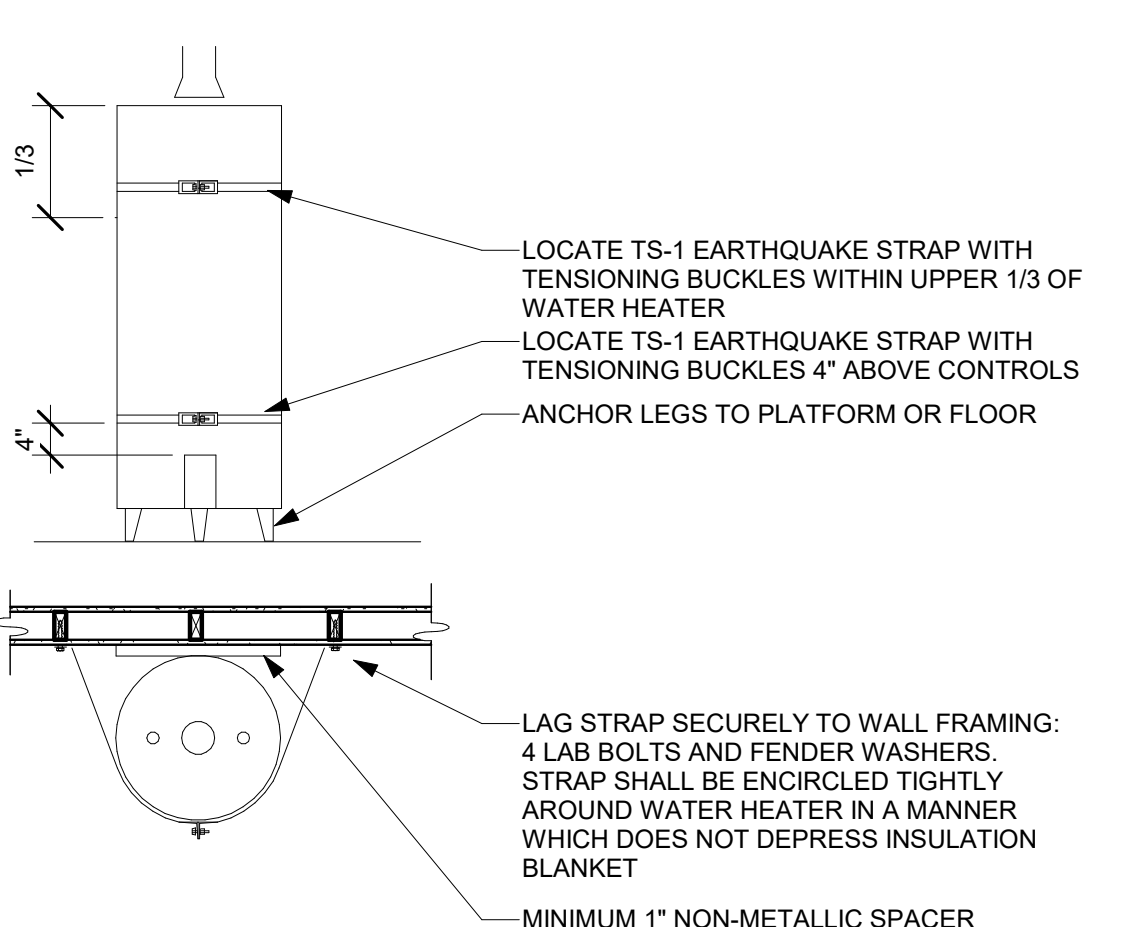


LOCATIONS FOR GRAB BAR REINFORCEMENT - PER 2022 R327.1.1

34 AGING-IN-PLACE TUB COMPLIANCE

SCALE: 1/2" = 1'-0"

- NOTES:
1. ALL DIMENSIONS FOR THIS DETAIL ARE FROM FACE OF FINISHED SURFACE
2. WALLS SHALL BE FINISHED WITH A SMOOTH, NONABSORBENT FINISH TO A HEIGHT MIN. 72" ABOVE THE FLOOR. (R307.2)
3. BUILT-IN TUBS W SHOWERS SHALL HAVE WATERPROOF JOINTS BETWEEN THE TUB AND ADJACENT WALL
4. ALL TUB/SHOWER ENCLOSURES: PROVIDE MIN. 2X8 BLOCKING.



14 WATER HEATER MOUNTING

SCALE: 1/2" = 1'-0"



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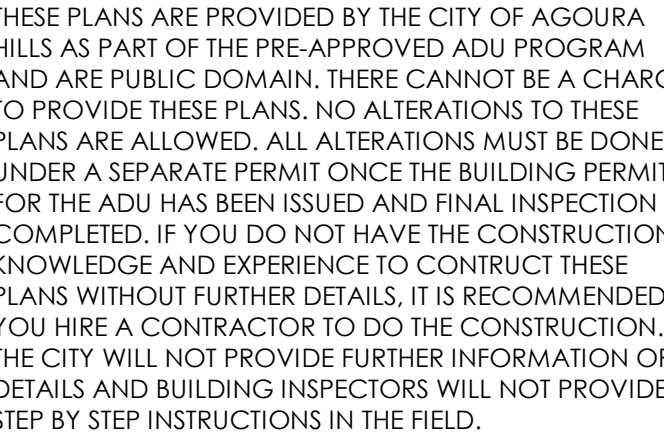
COACHELLA, CA

ARCHITECTURAL DETAILS -
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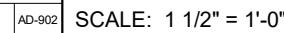
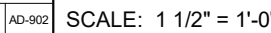
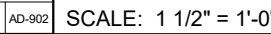
COACHELLA, CA

ARCHITECTURAL DETAILS
COMMON

DATE 11/11/24

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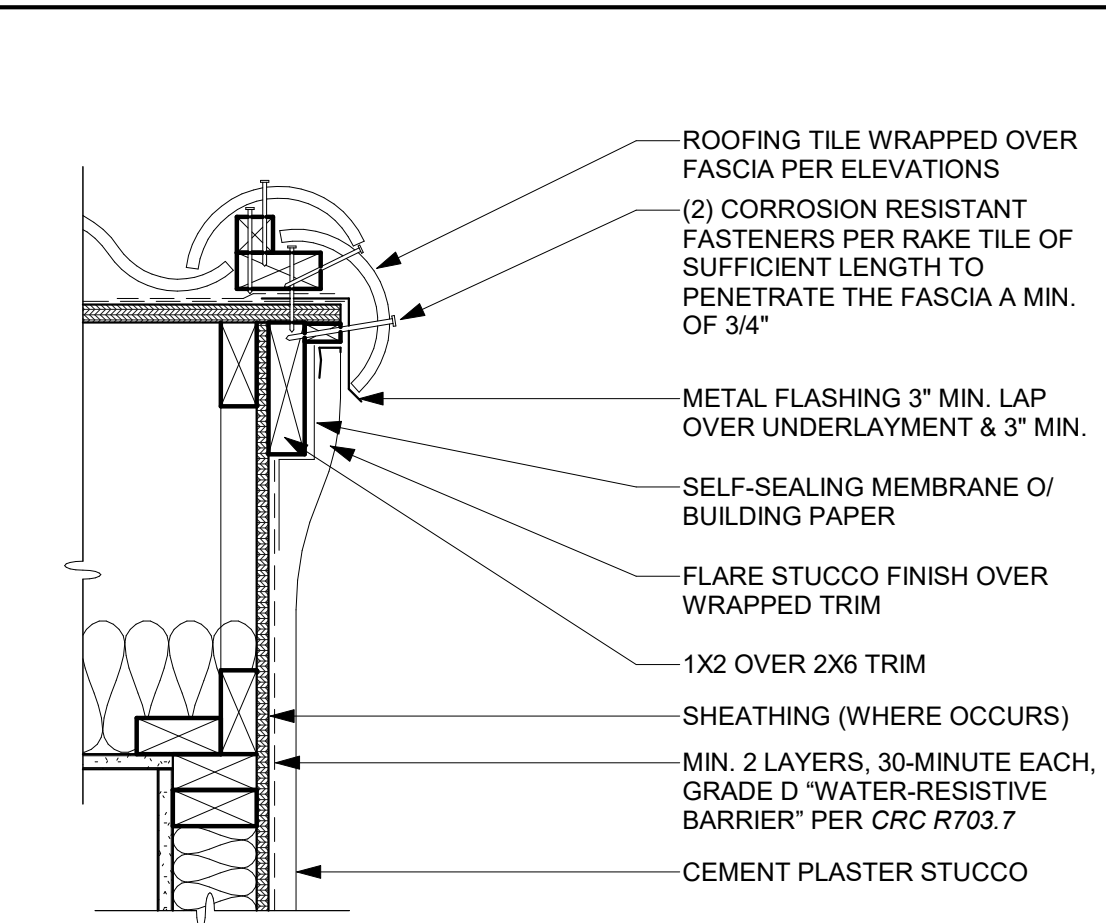
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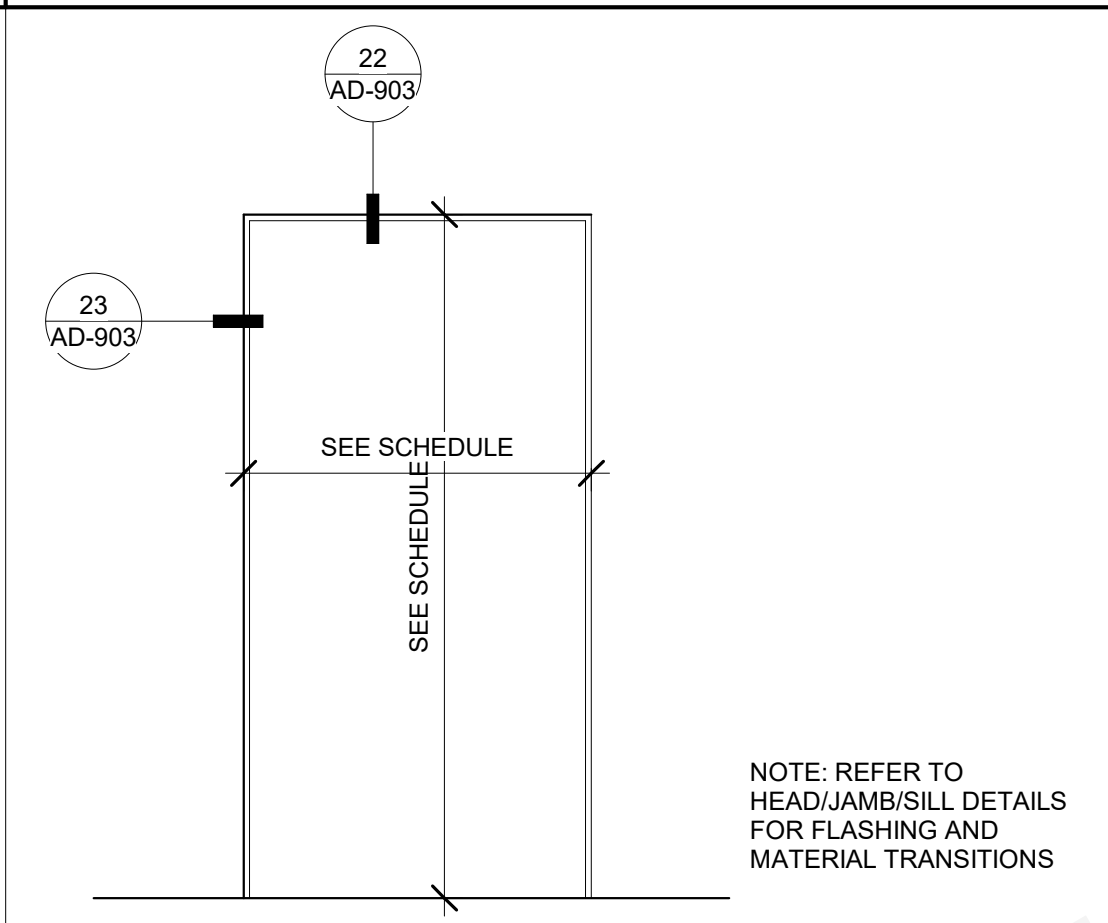


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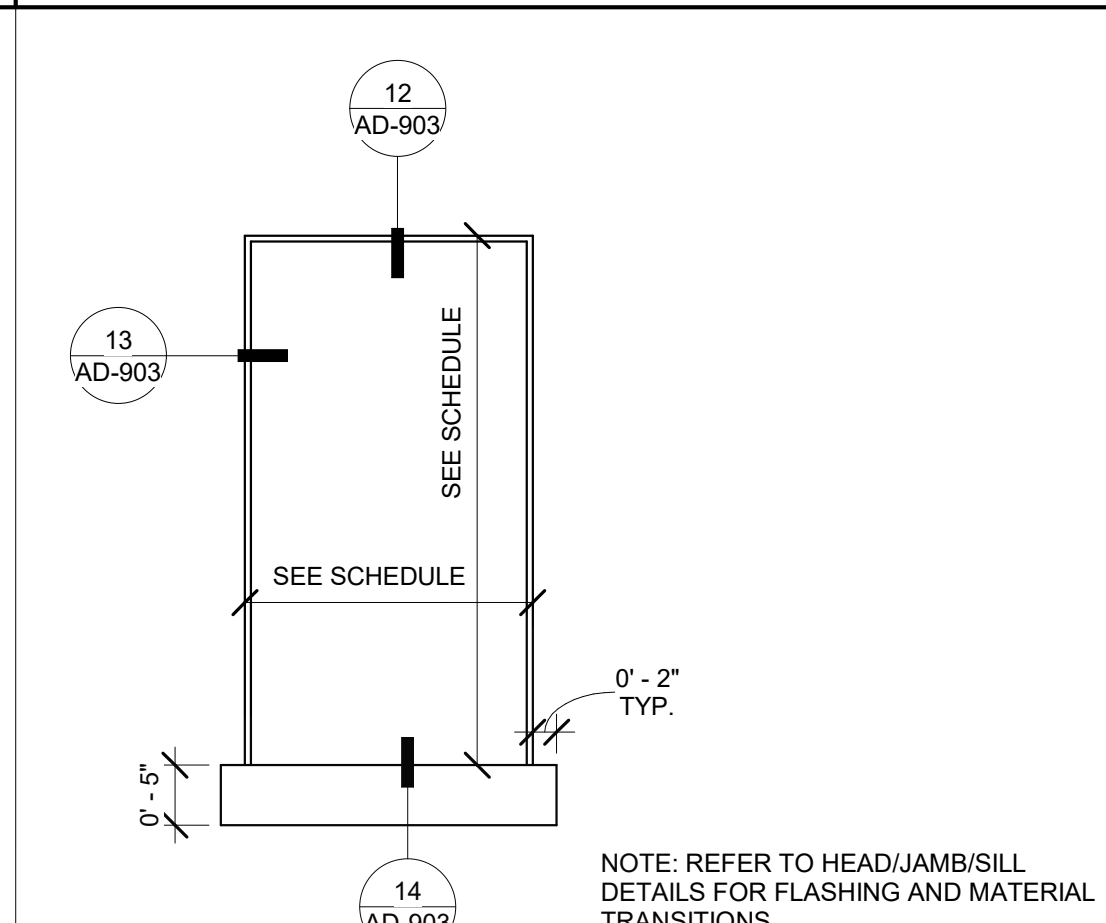
31 RAKE @ PLASTER - MISSION

SCALE: 1 1/2" = 1'-0"



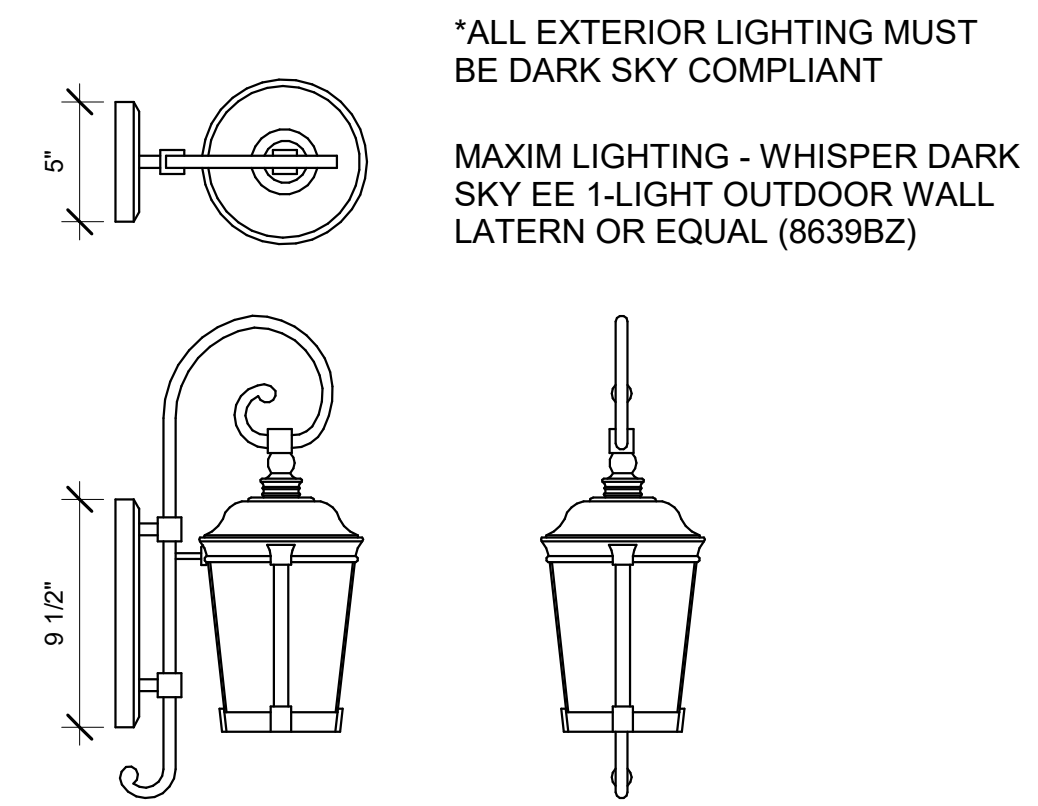
21 DOOR TRIM - MISSION REVIVAL

SCALE: 3/4" = 1'-0"



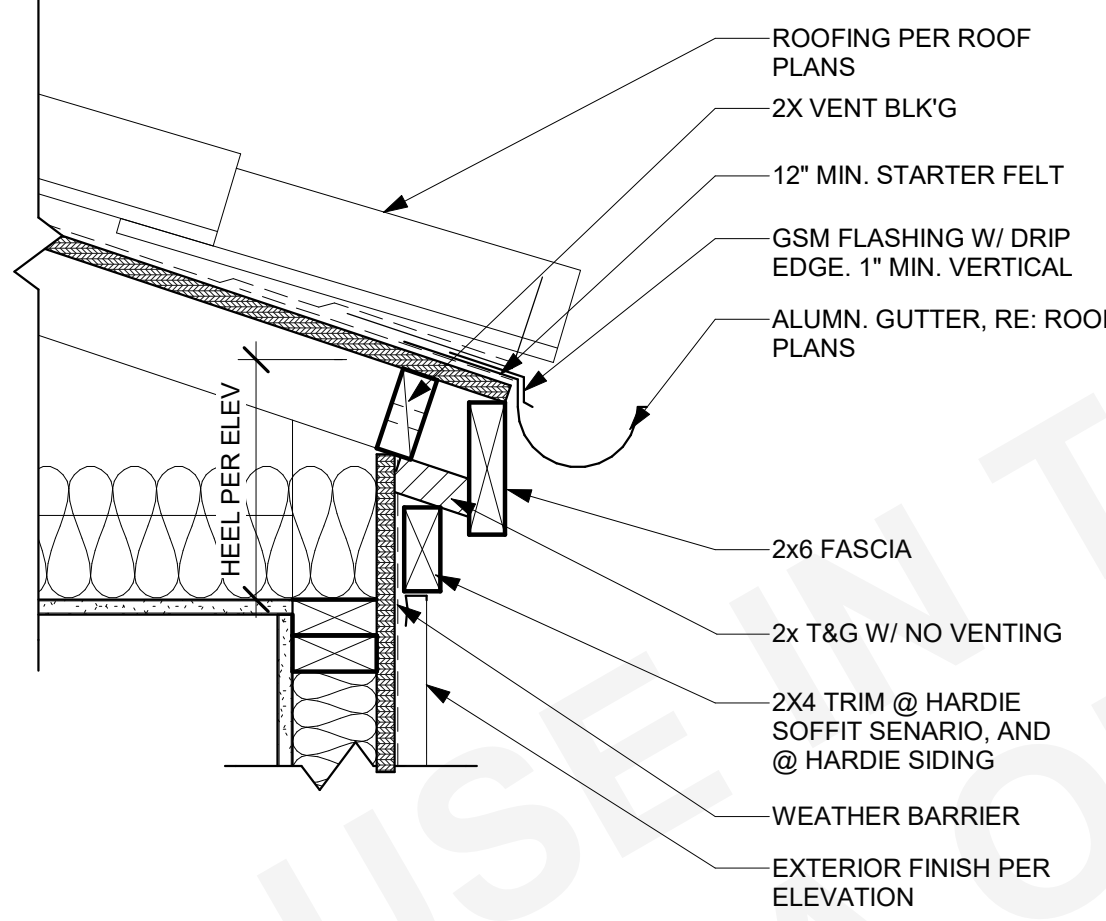
11 WINDOW TRIM - MISSION REVIVAL

SCALE: 3/4" = 1'-0"



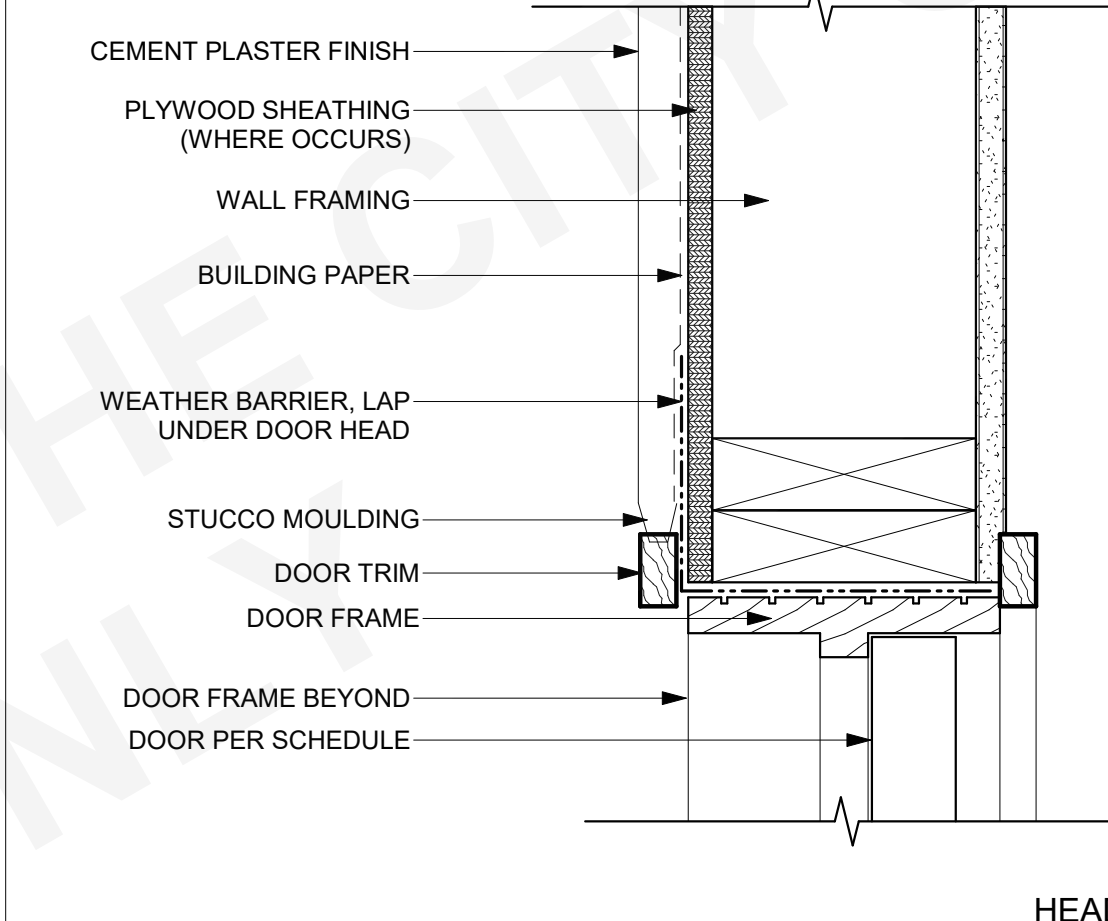
42 LIGHT FIXTURE - MISSION REVIVAL

SCALE: 1 1/2" = 1'-0"



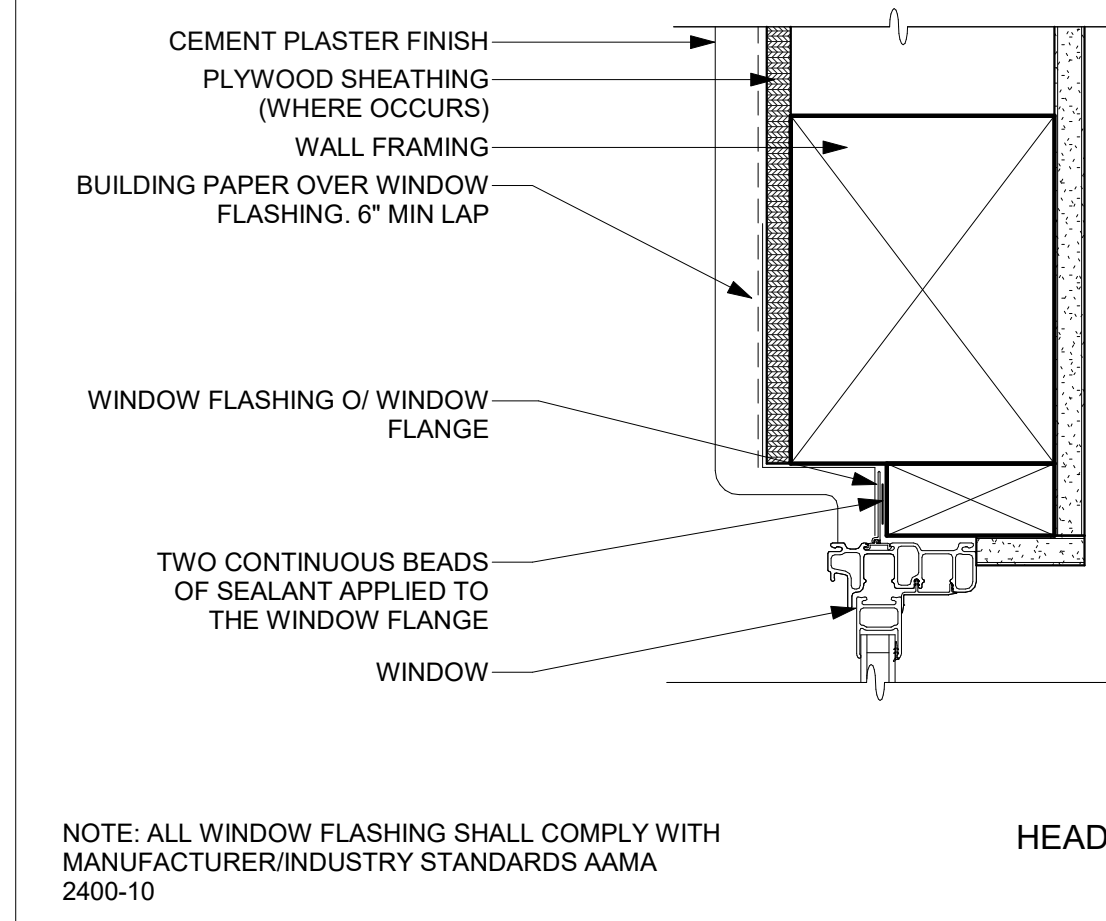
32 EAVE @ PLASTER - MISSION

SCALE: 1 1/2" = 1'-0"



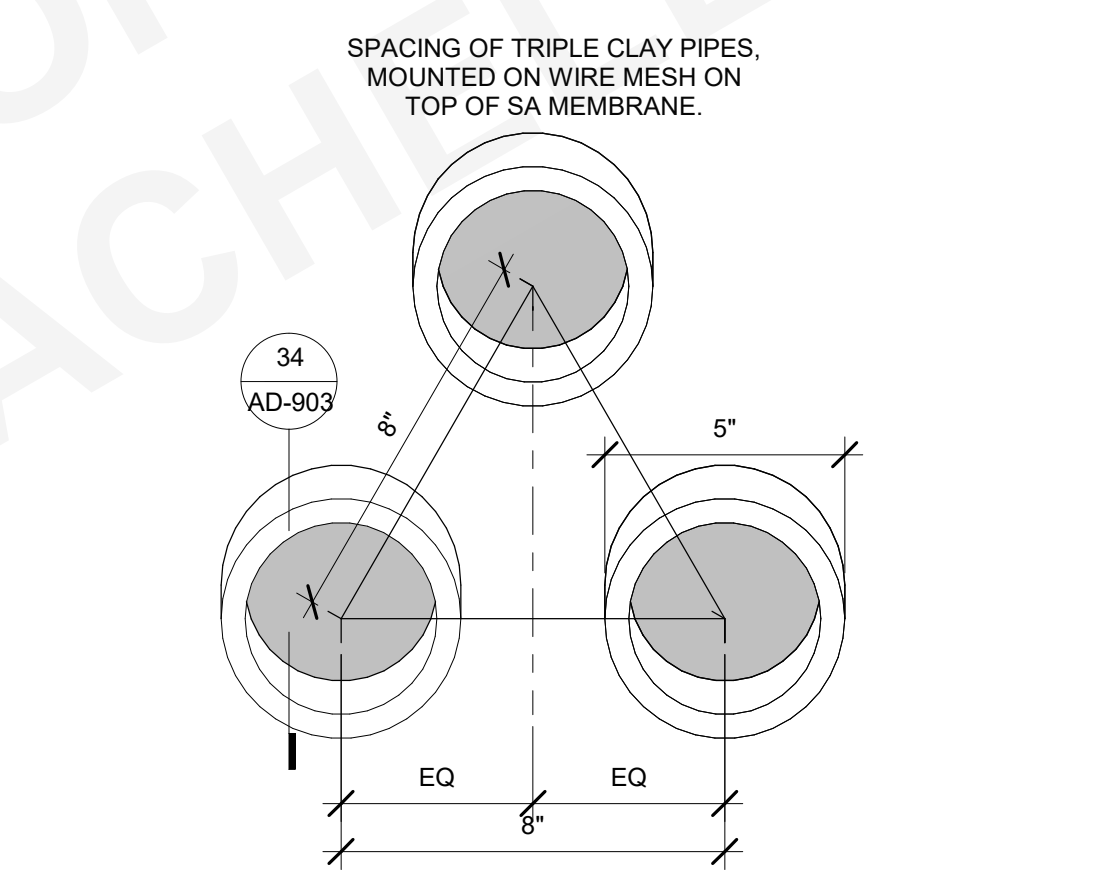
22 DOOR HEAD - MISSION

SCALE: 3" = 1'-0"



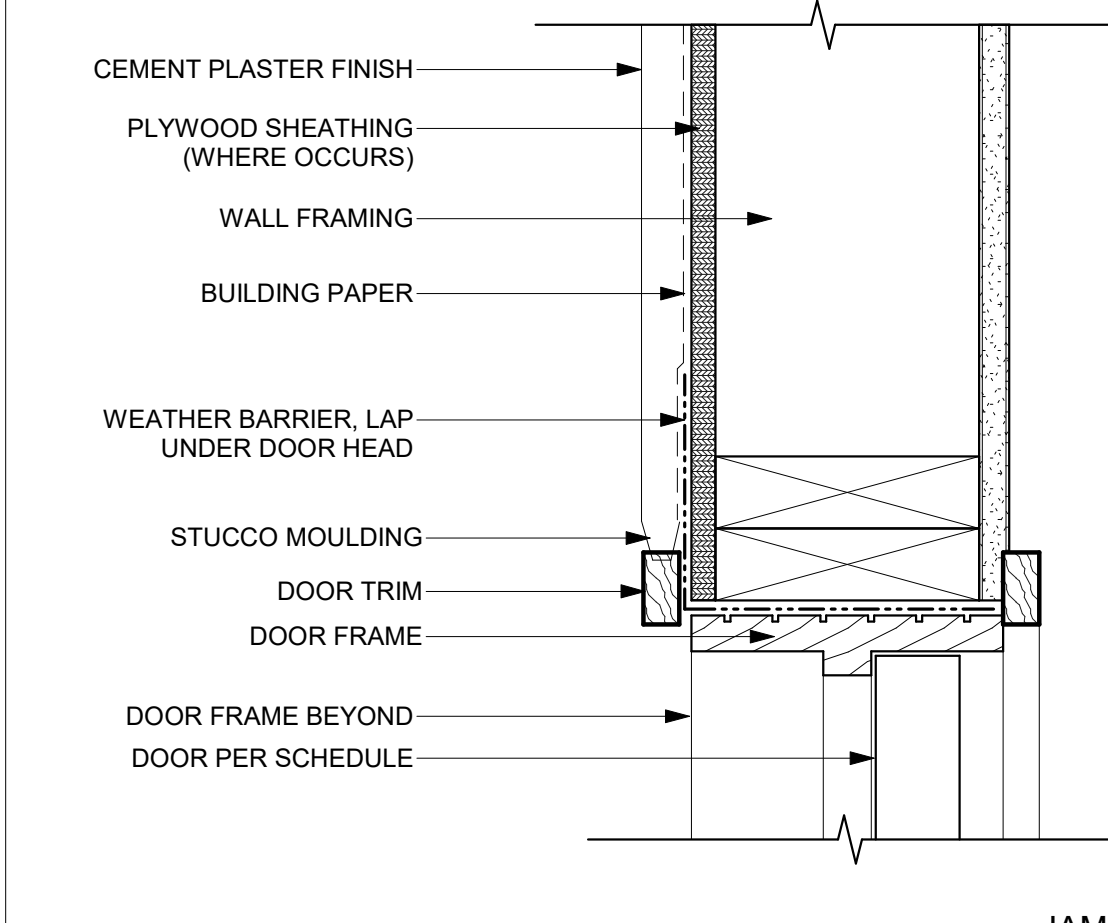
12 TYP. WINDOW HEAD

SCALE: 3" = 1'-0"



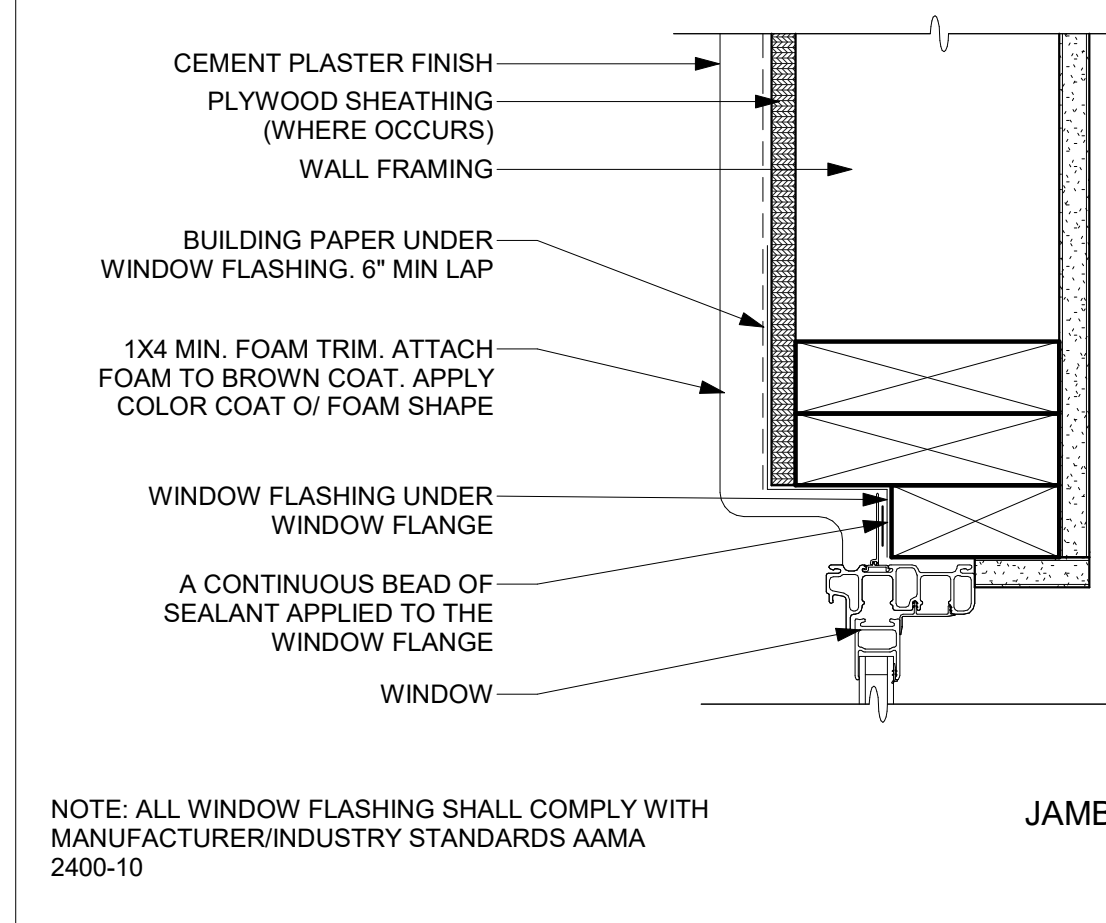
33 DECORATIVE VENT SPACING

SCALE: 3" = 1'-0"



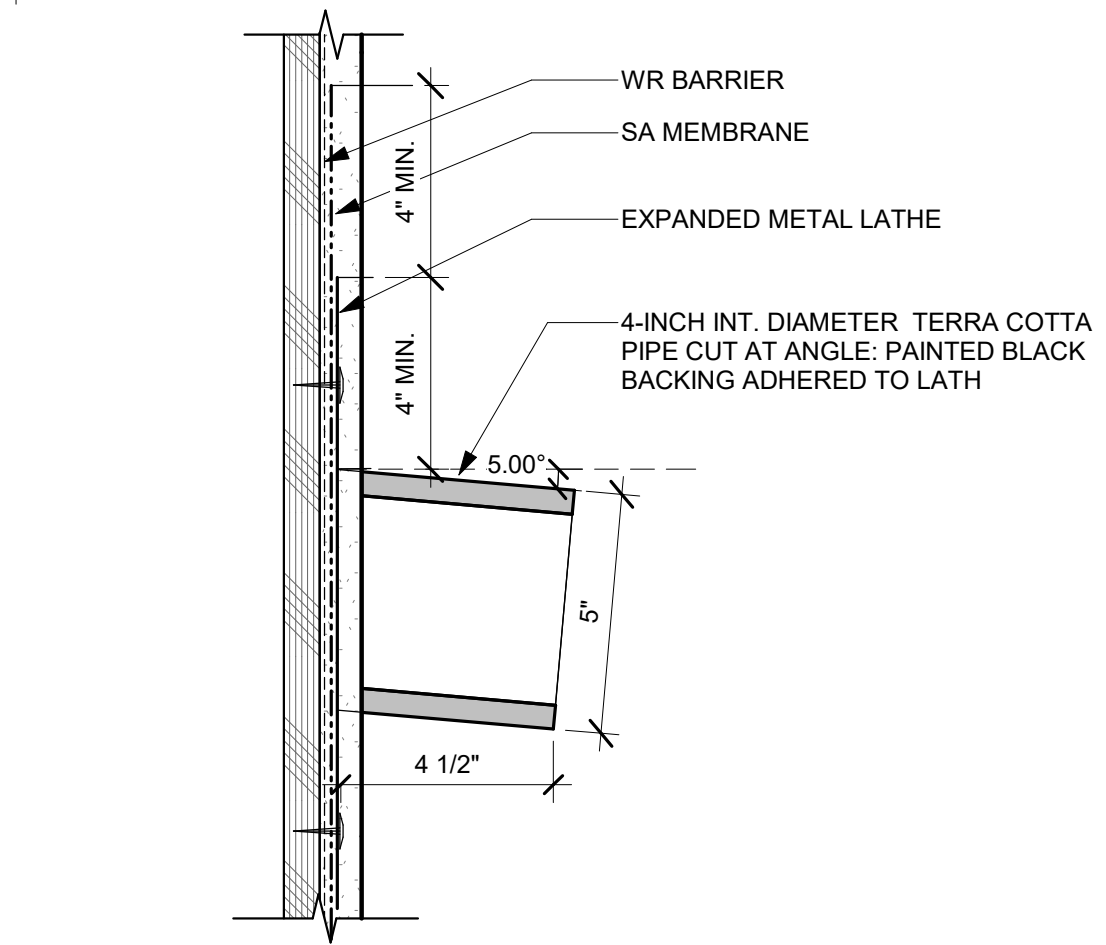
23 DOOR JAMB - MISSION

SCALE: 3" = 1'-0"



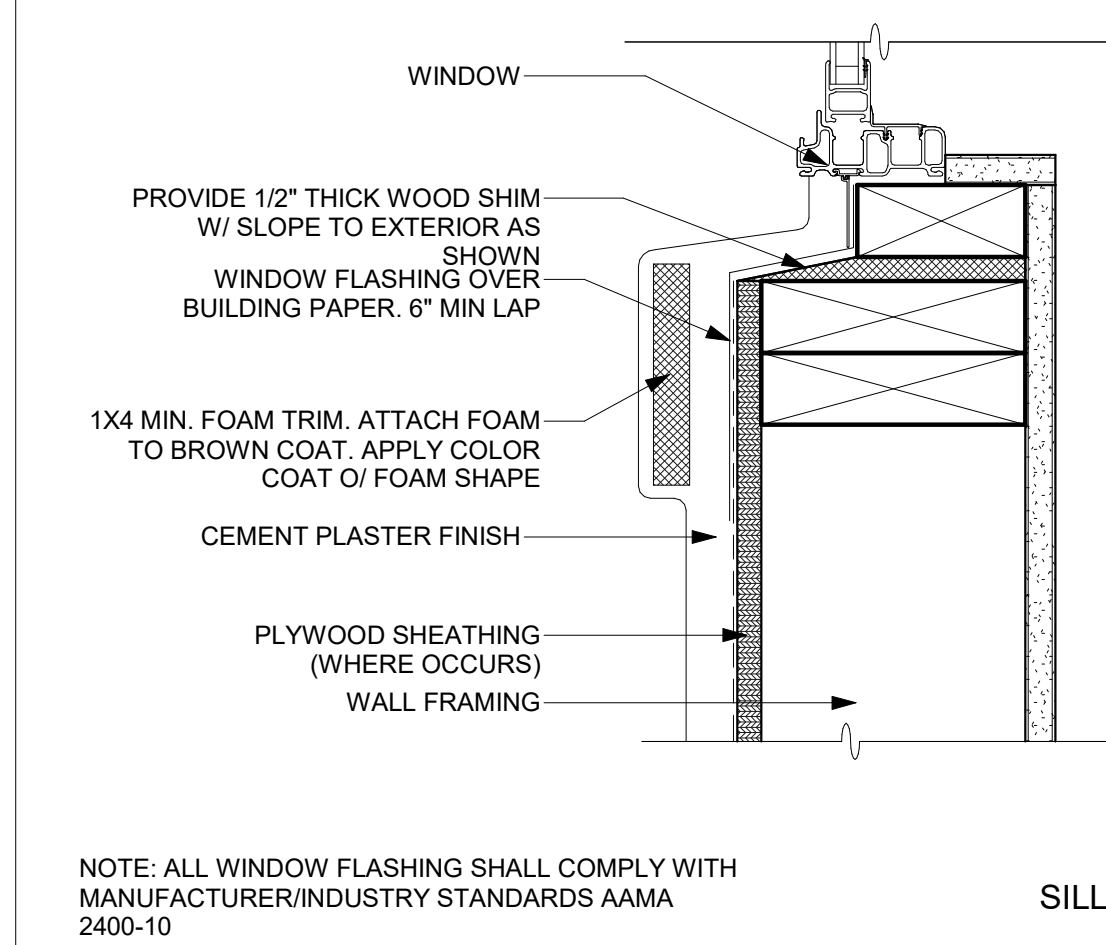
13 TYP. WINDOW JAMB

SCALE: 3" = 1'-0"



34 DECORATIVE VENT ATTACHMENT

SCALE: 3" = 1'-0"



14 TYP. WINDOW SILL

SCALE: 3" = 1'-0"

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ARCHITECTURAL DETAILS -
MISSION REVIVAL

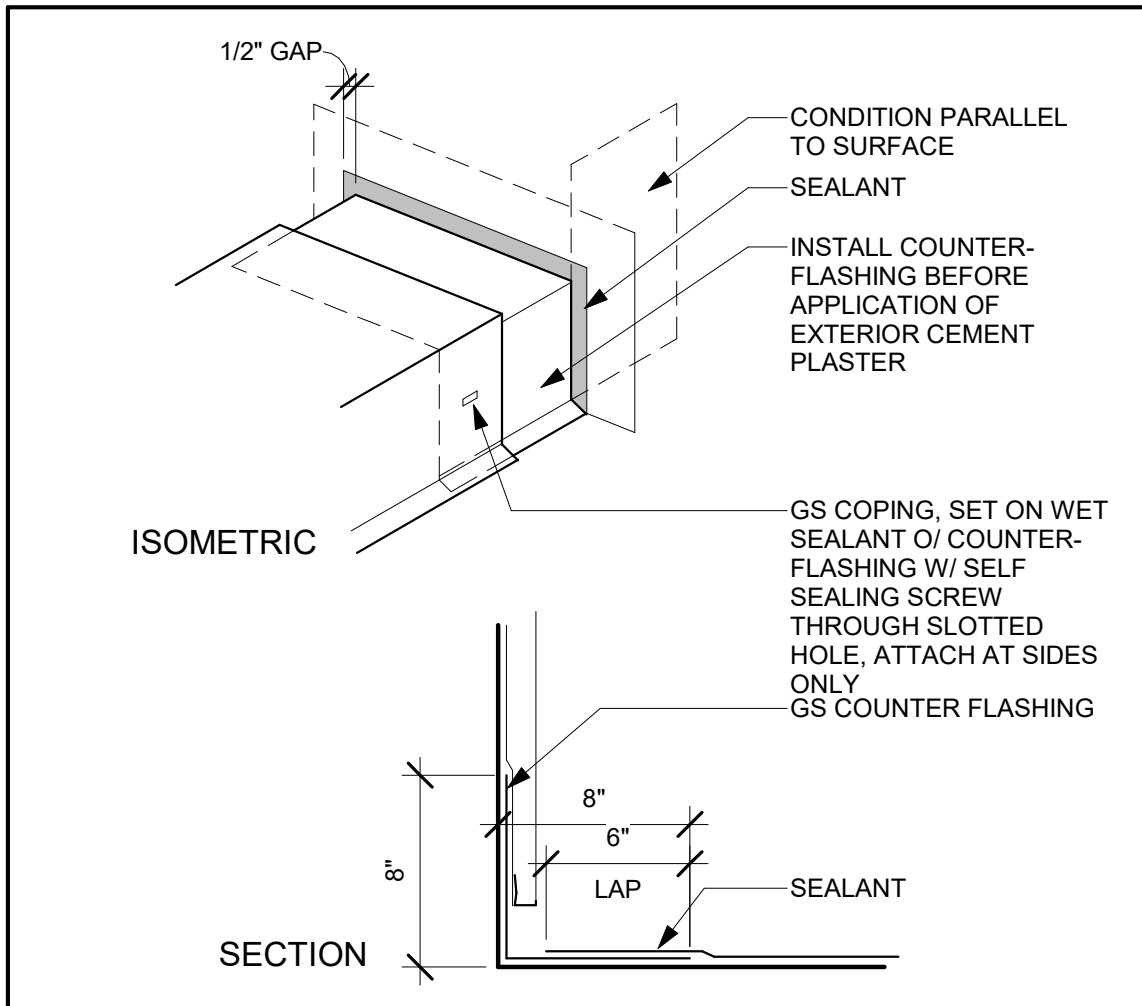
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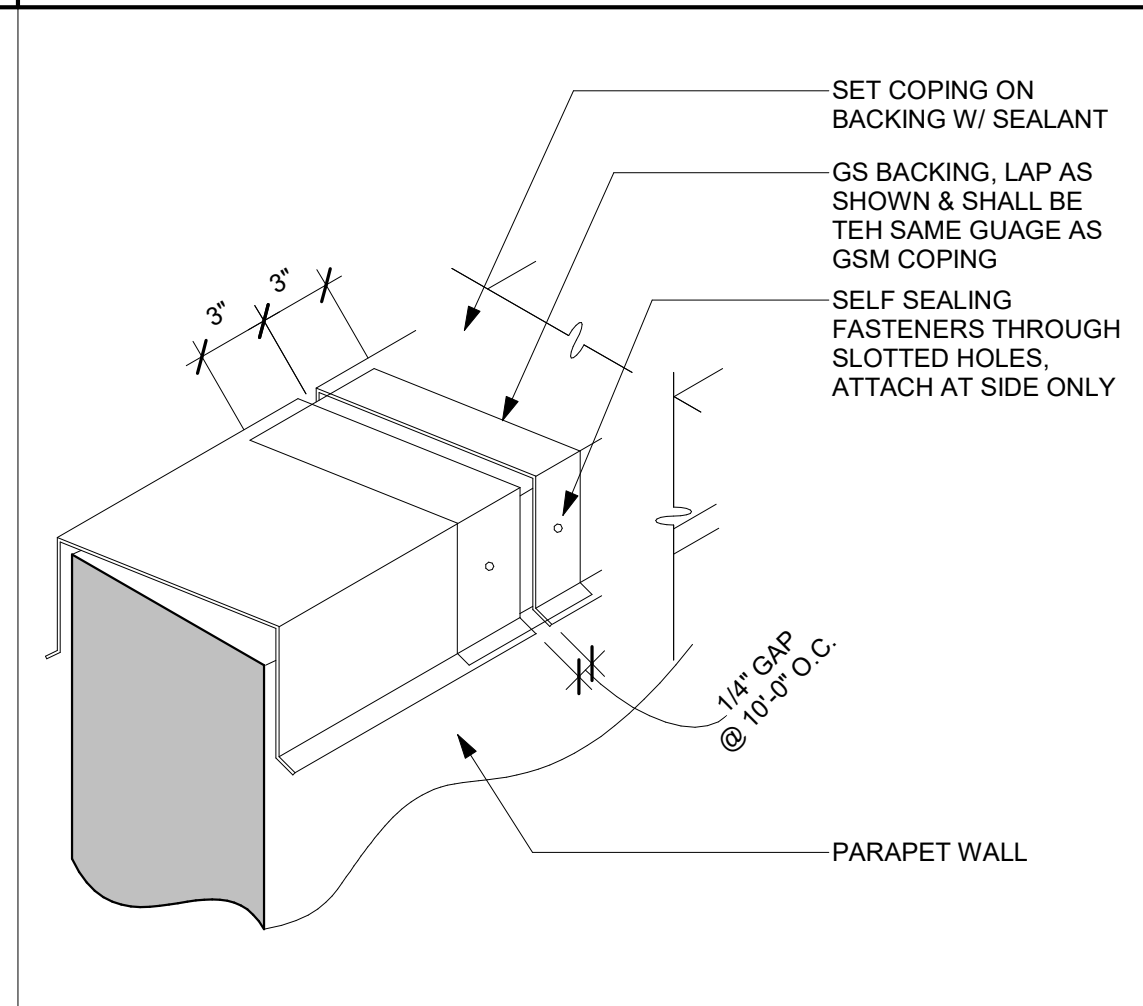
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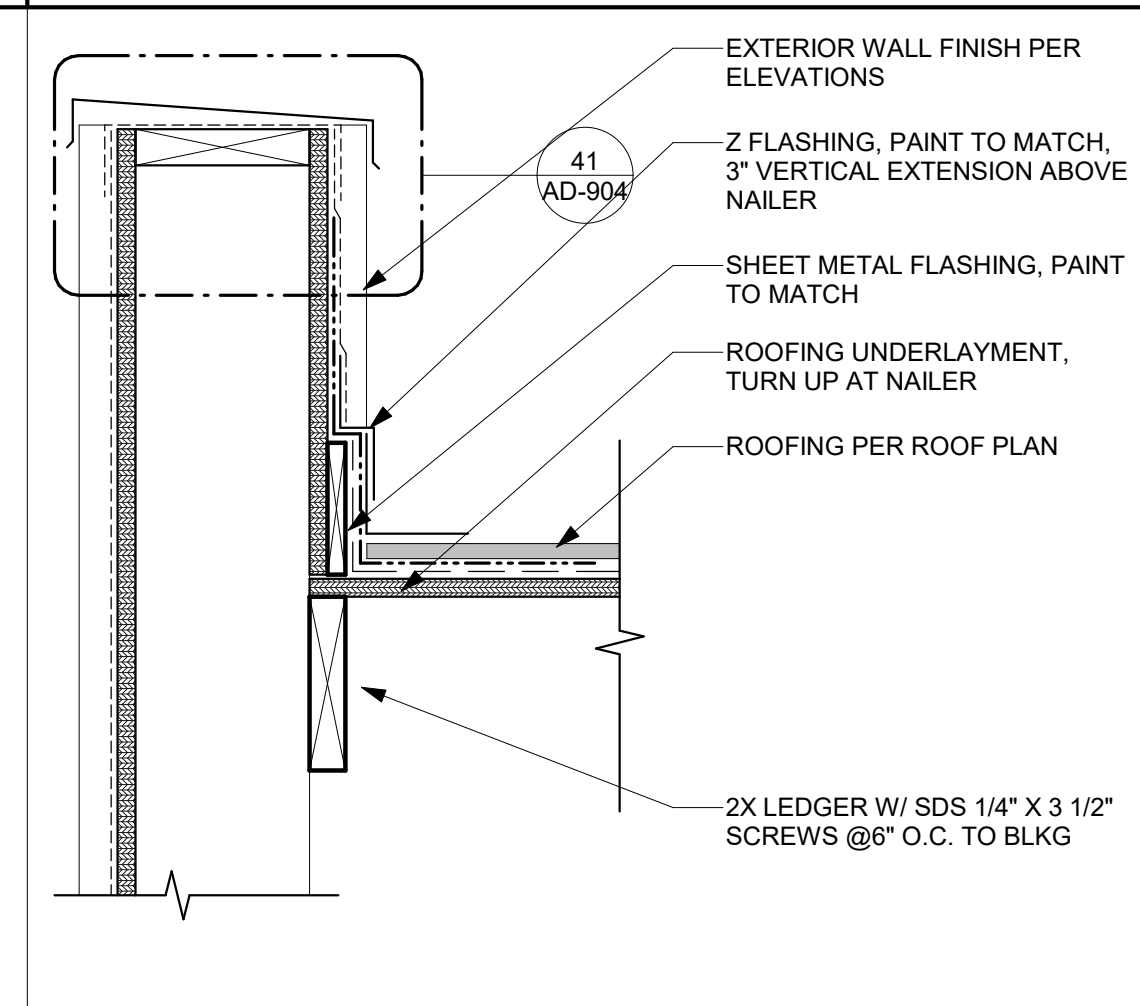
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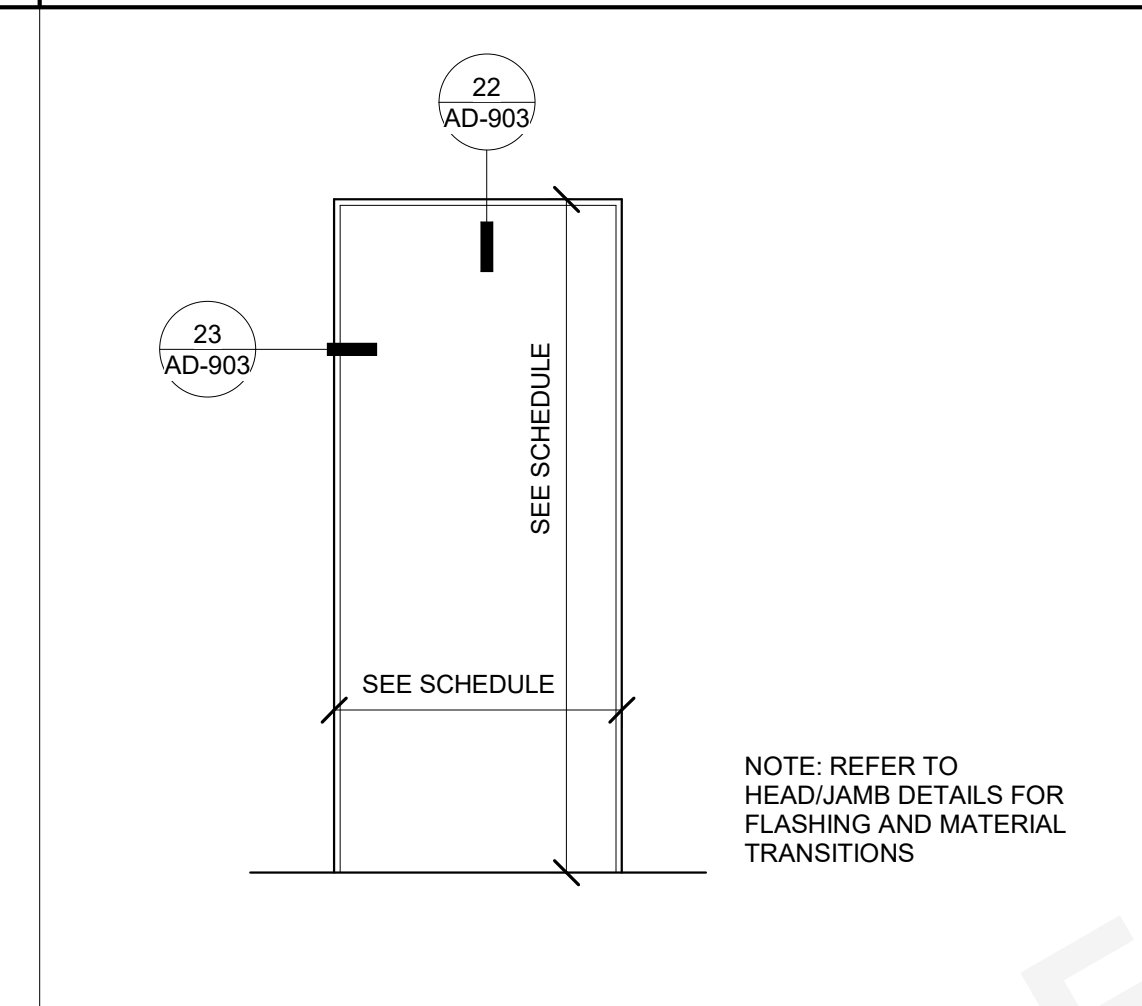
51 PARAPET COPING FLASHING
SCALE: 1 1/2" = 1'-0"



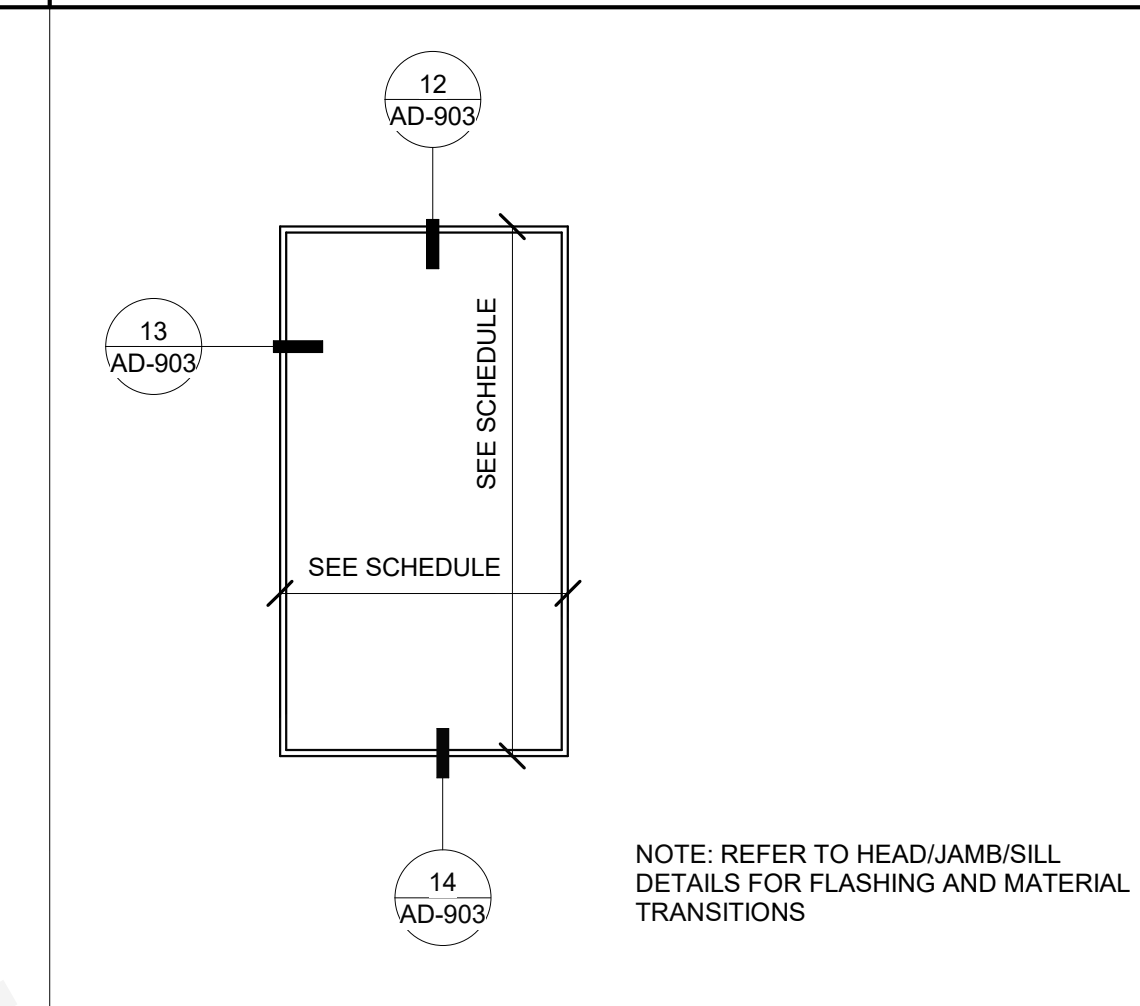
41 PARAPET FLASHING DETAIL
SCALE: 1 1/2" = 1'-0"



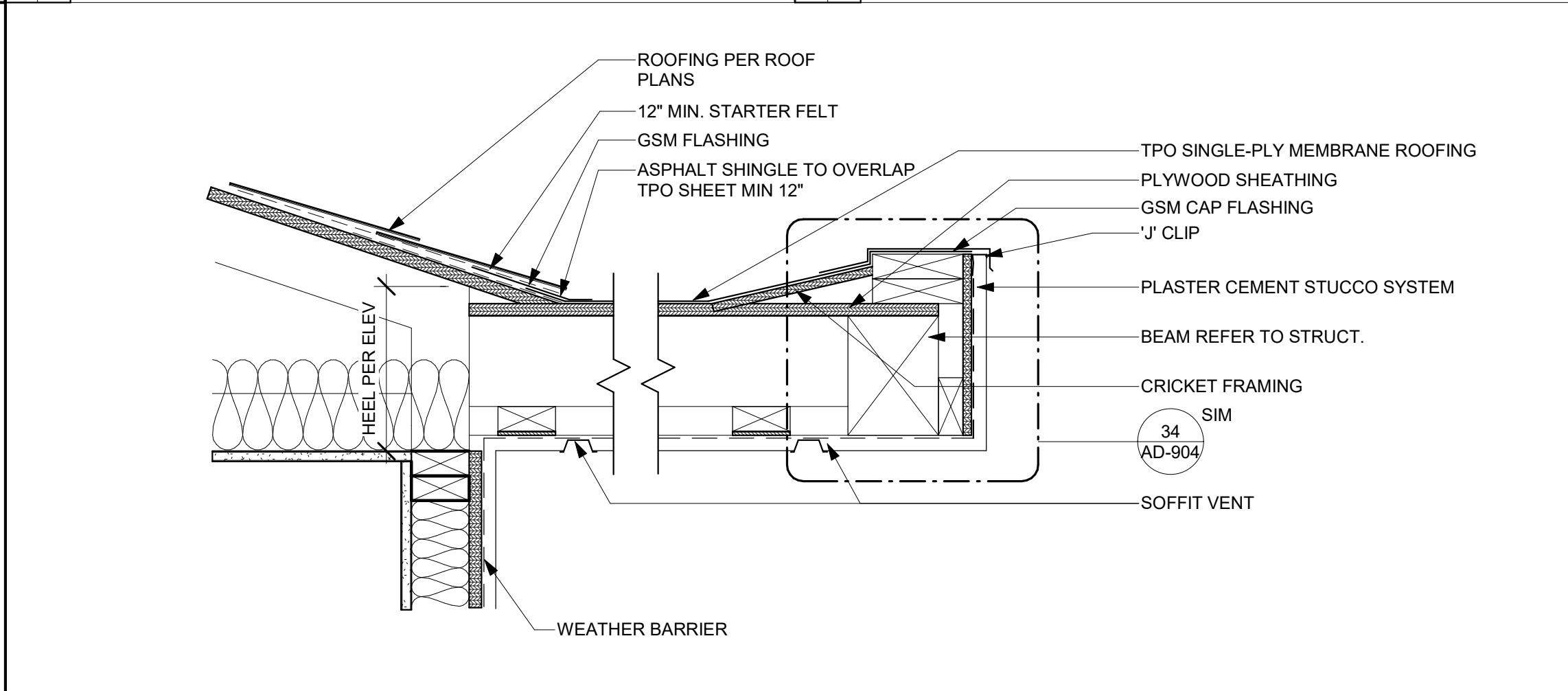
31 COUNTERFLASHING AT PARAPET
SCALE: 1 1/2" = 1'-0"



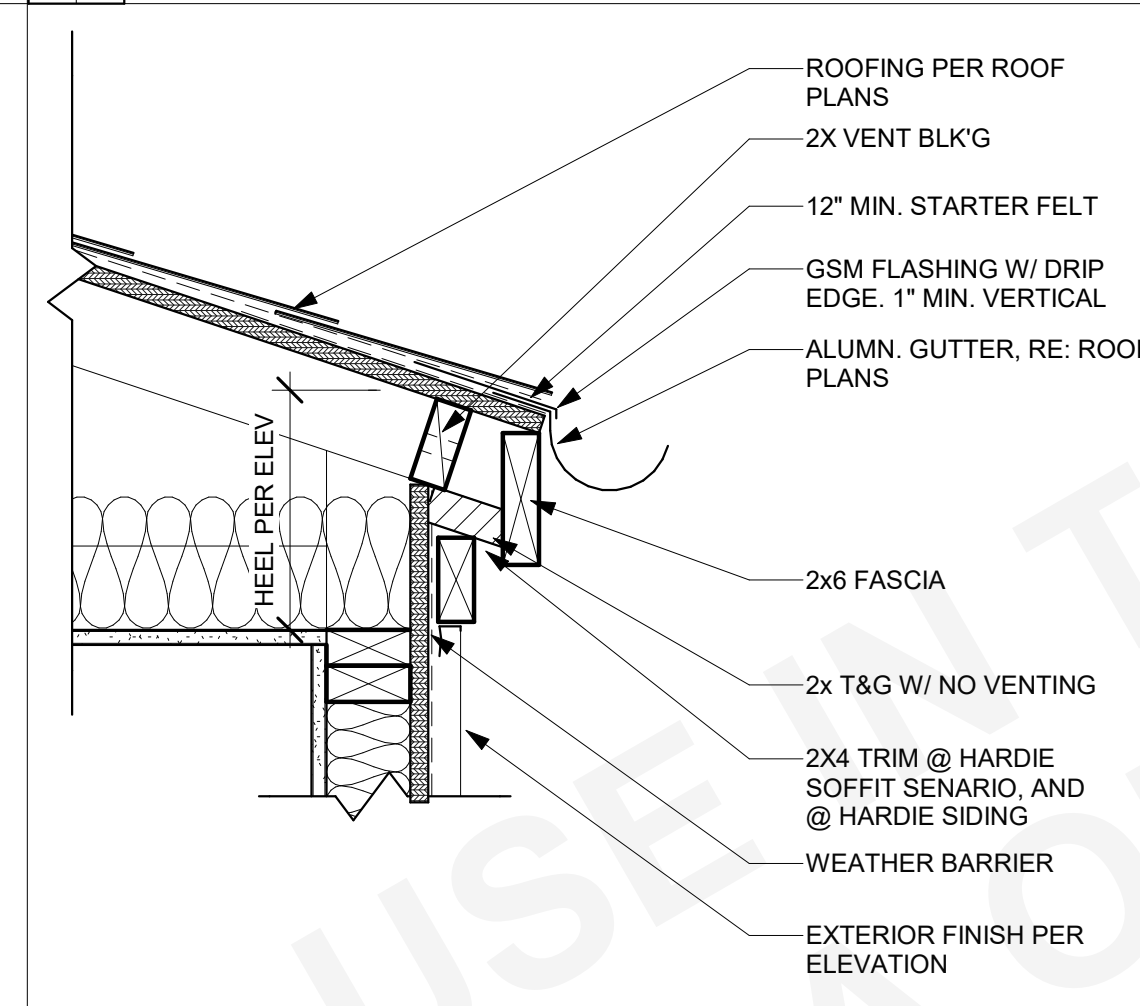
21 DOOR TRIM - DESERT MODERN
SCALE: 3/4" = 1'-0"



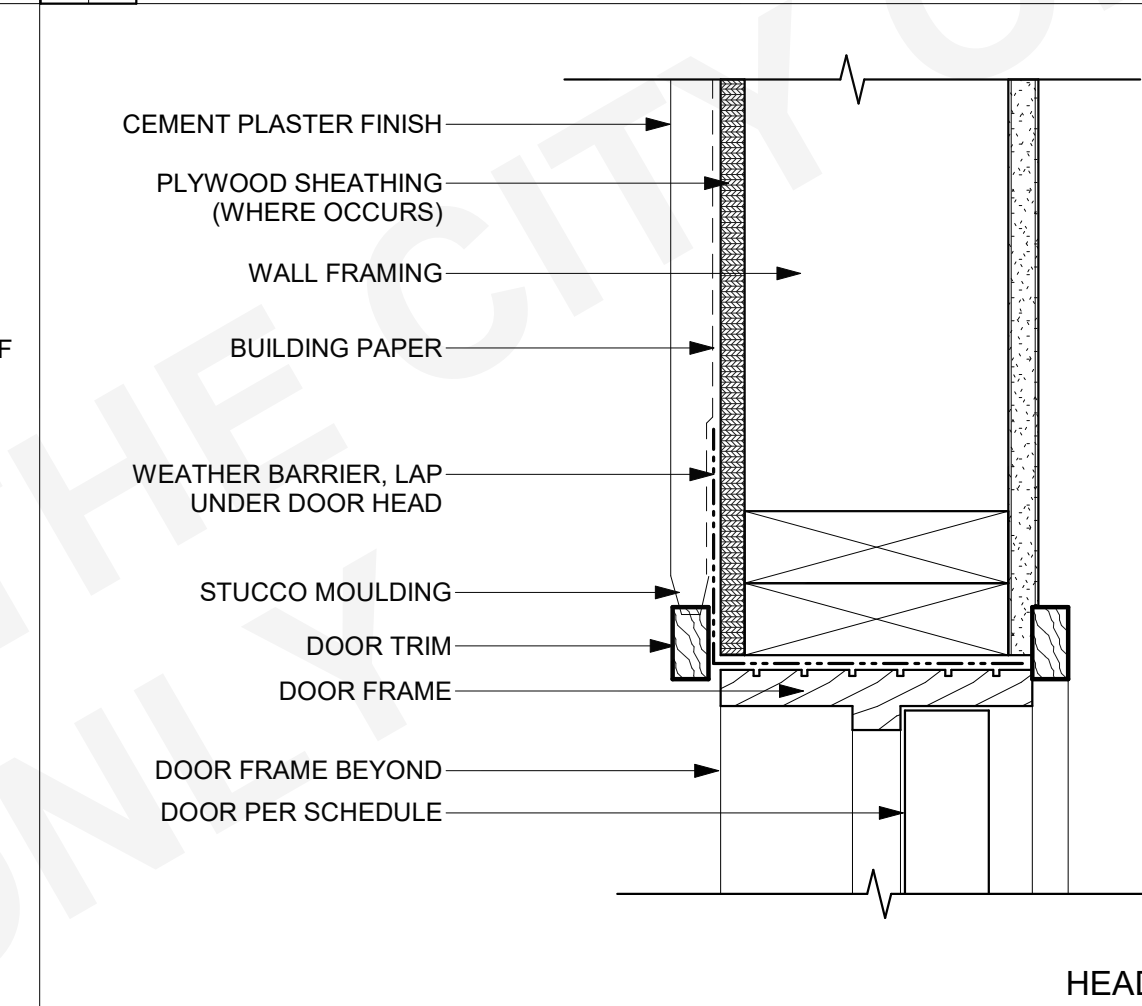
11 WINDOW TRIM - DESERT MODERN
SCALE: 3/4" = 1'-0"



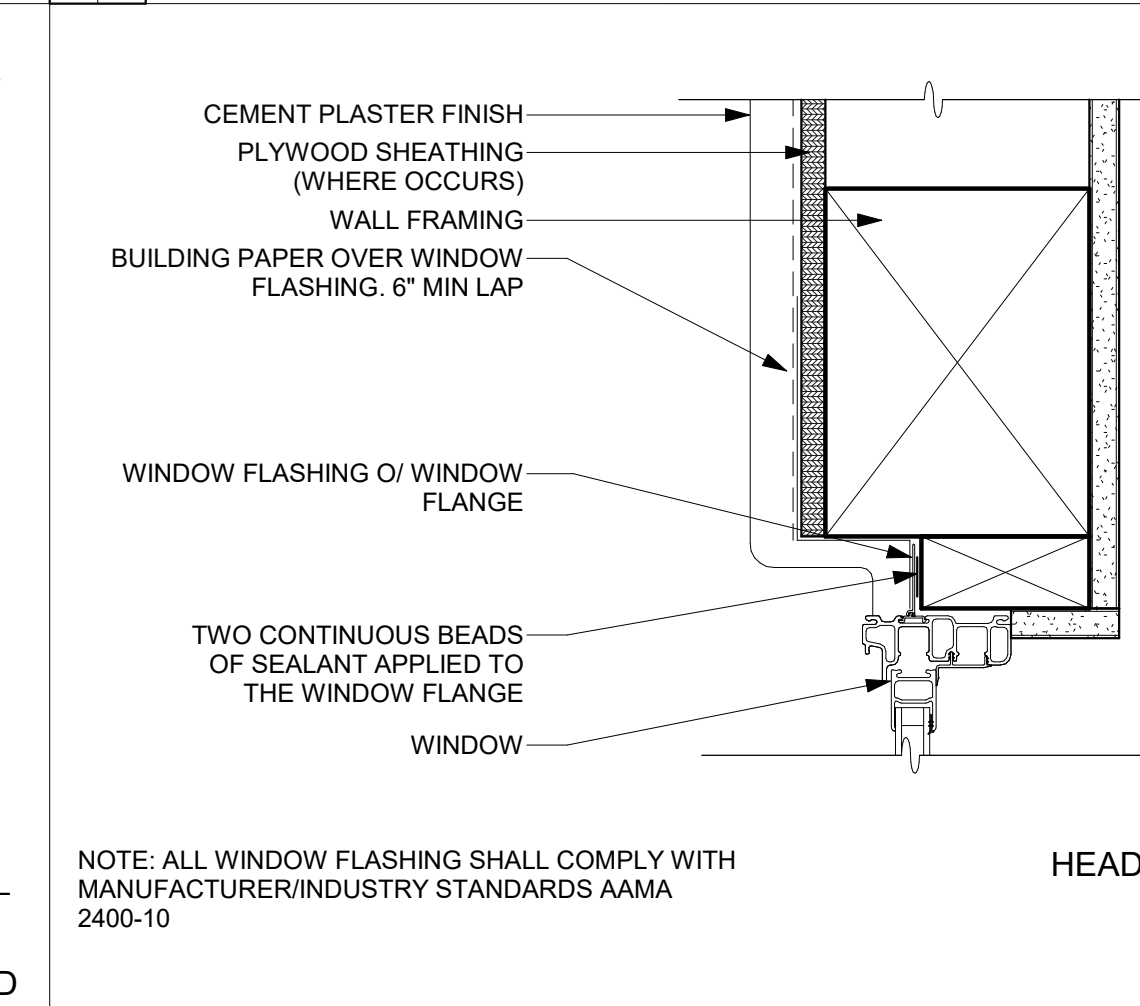
52 ROOF TO PORCH - DESERT MODERN
SCALE: 1 1/2" = 1'-0"



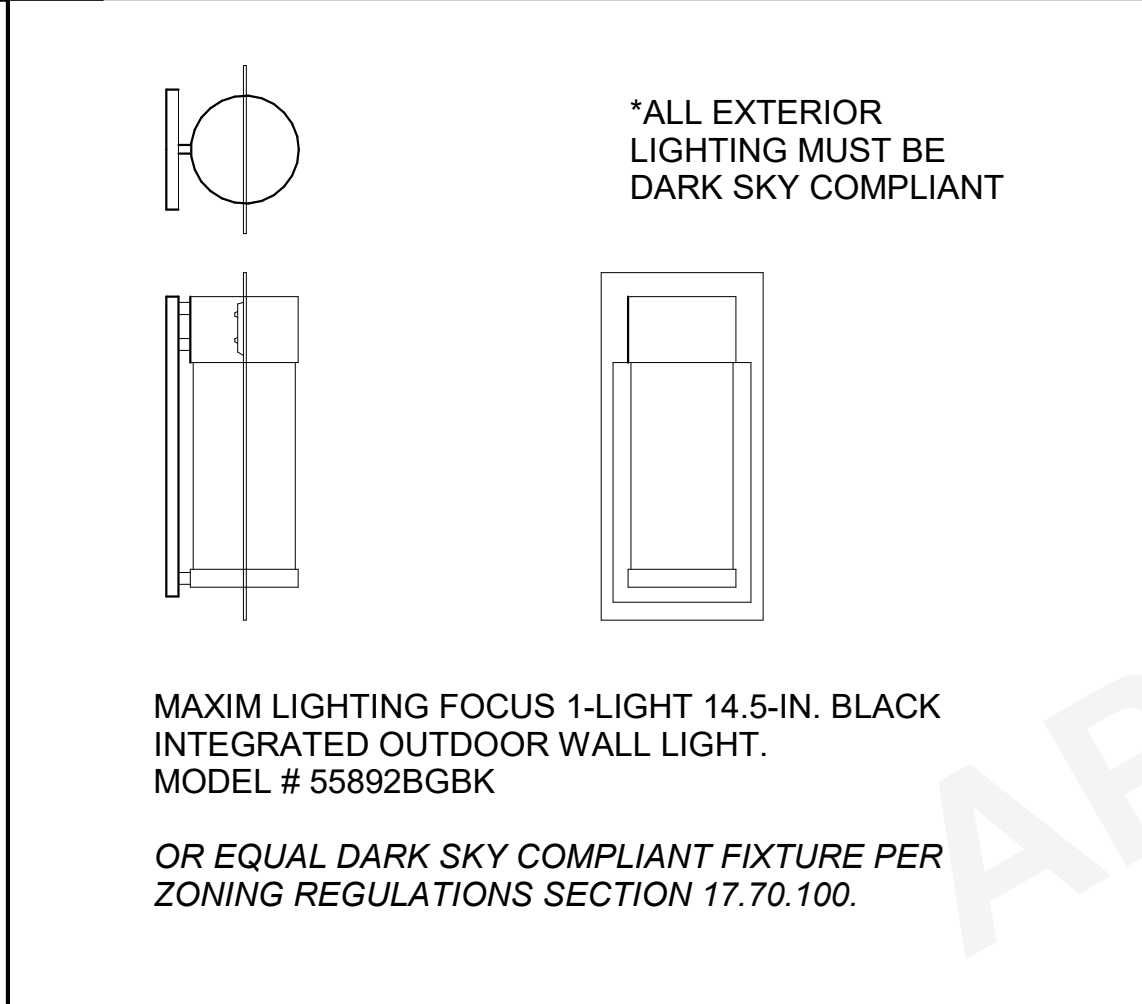
32 EAVE @ PLASTER - MODERN
SCALE: 1 1/2" = 1'-0"



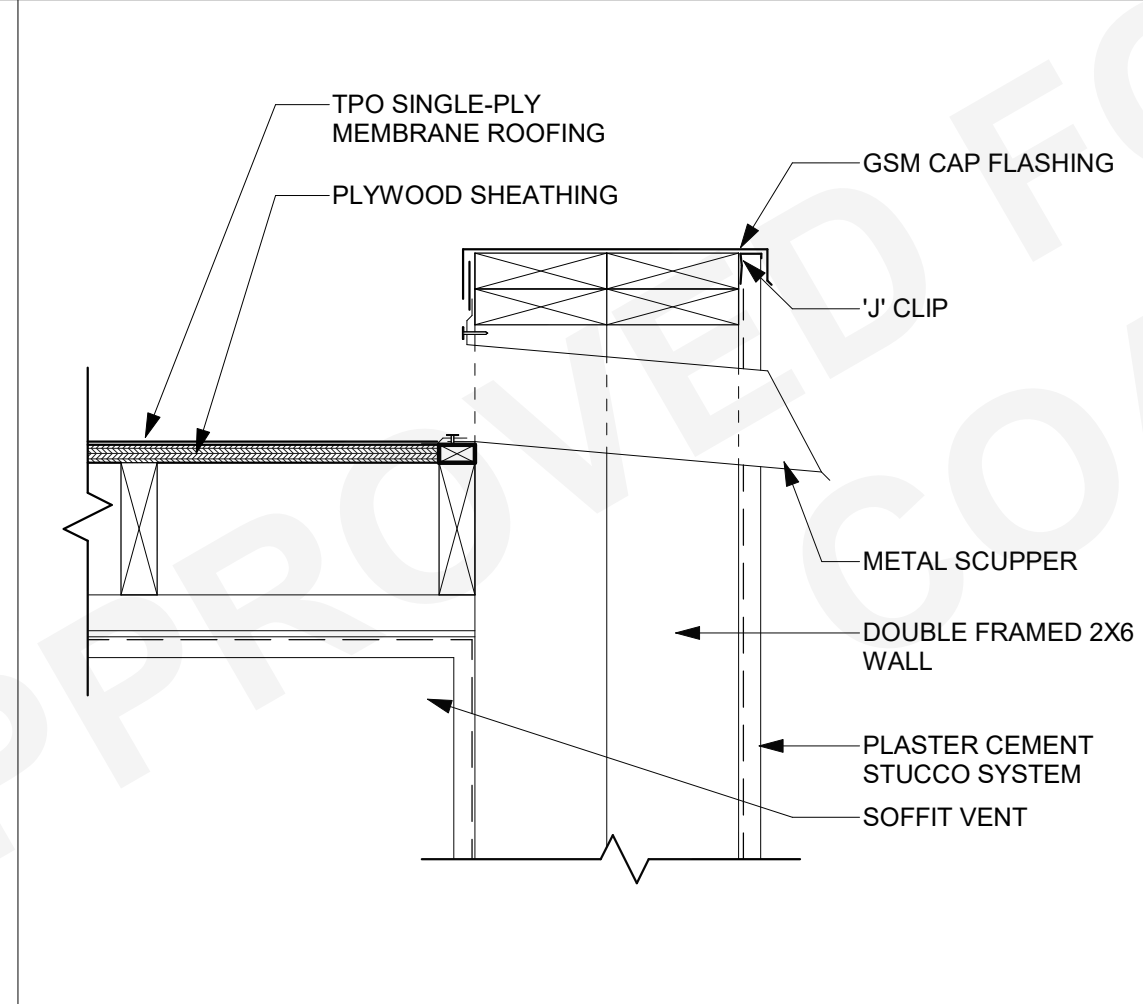
22 DOOR HEAD - MODERN
SCALE: 3" = 1'-0"



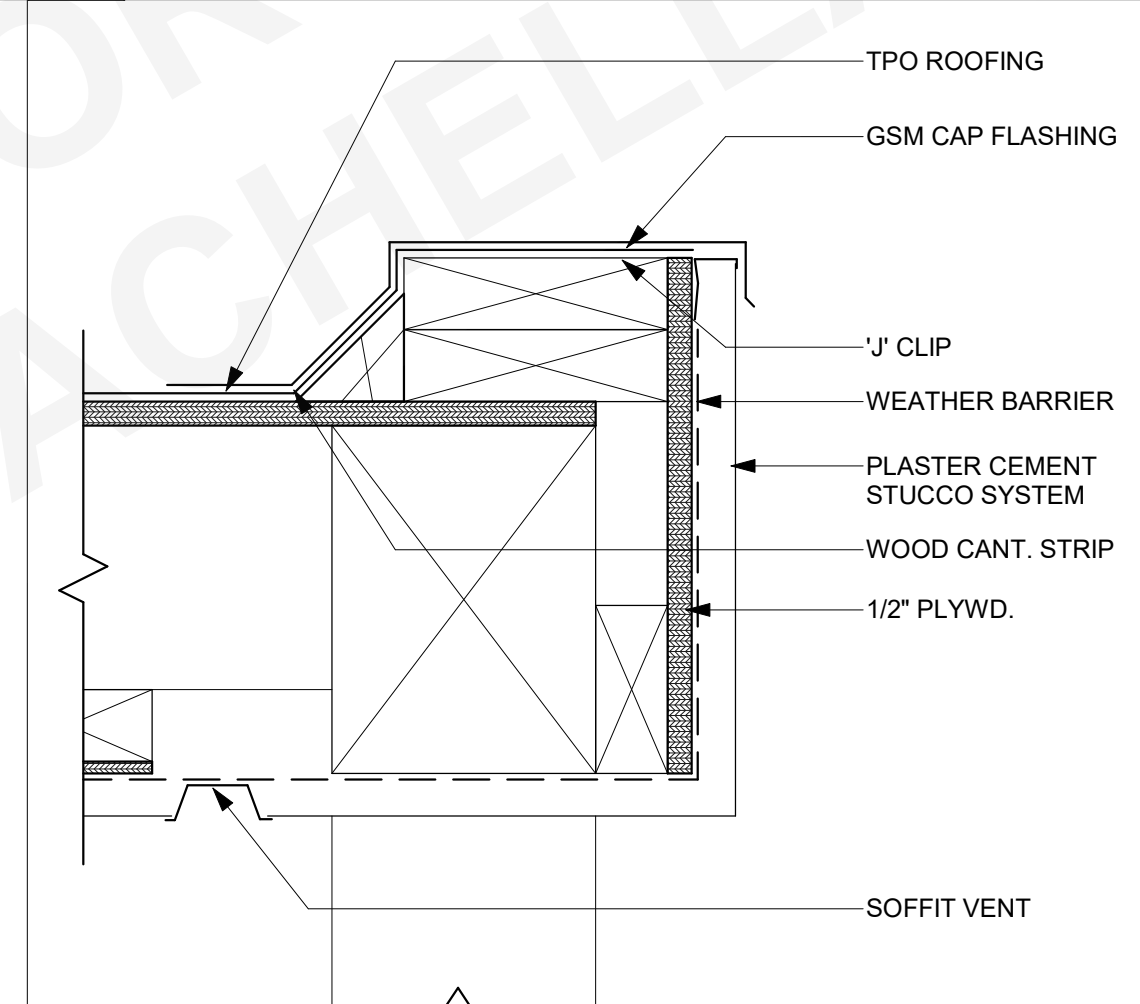
12 TYP. WINDOW HEAD
SCALE: 3" = 1'-0"



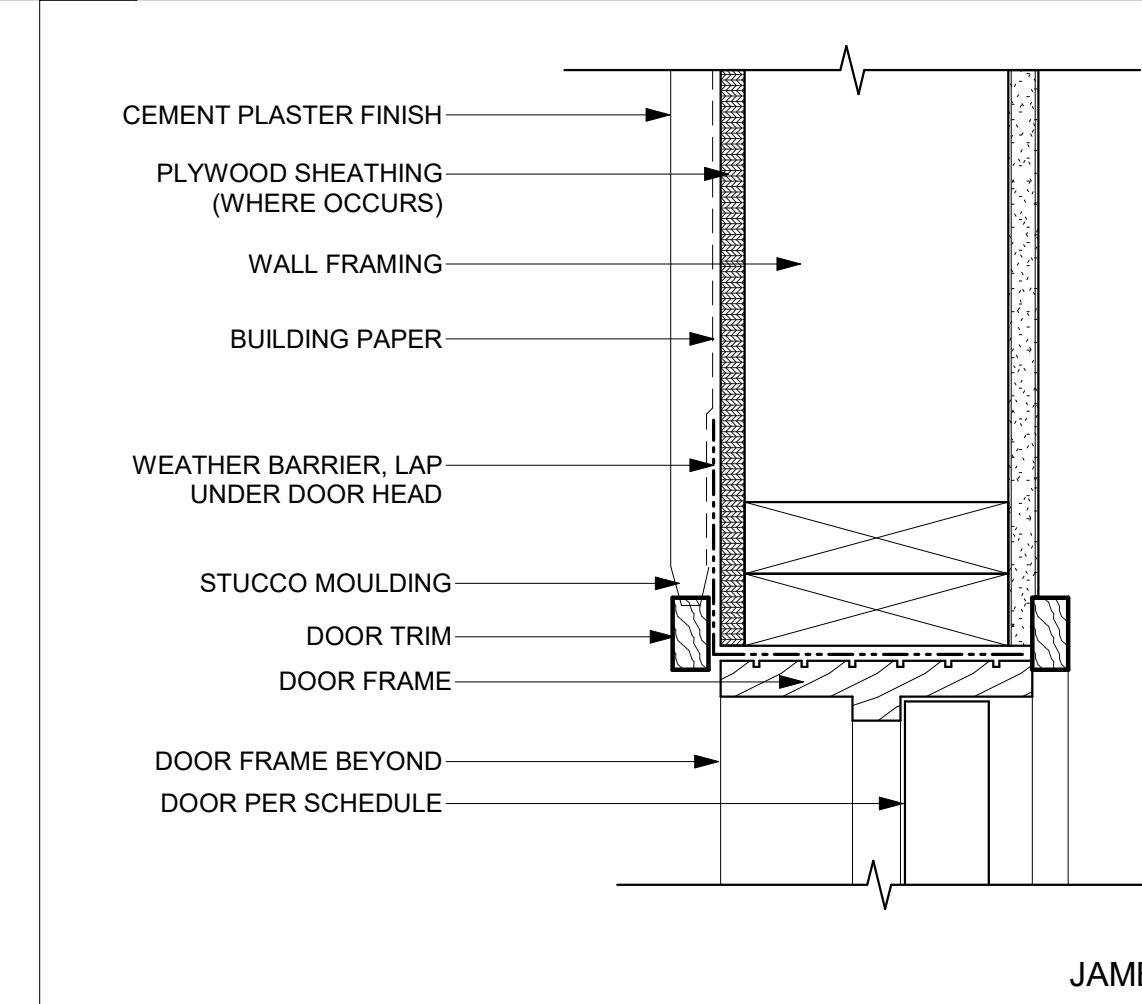
53 LIGHT FIXTURE - DESERT MODERN
SCALE: 1 1/2" = 1'-0"



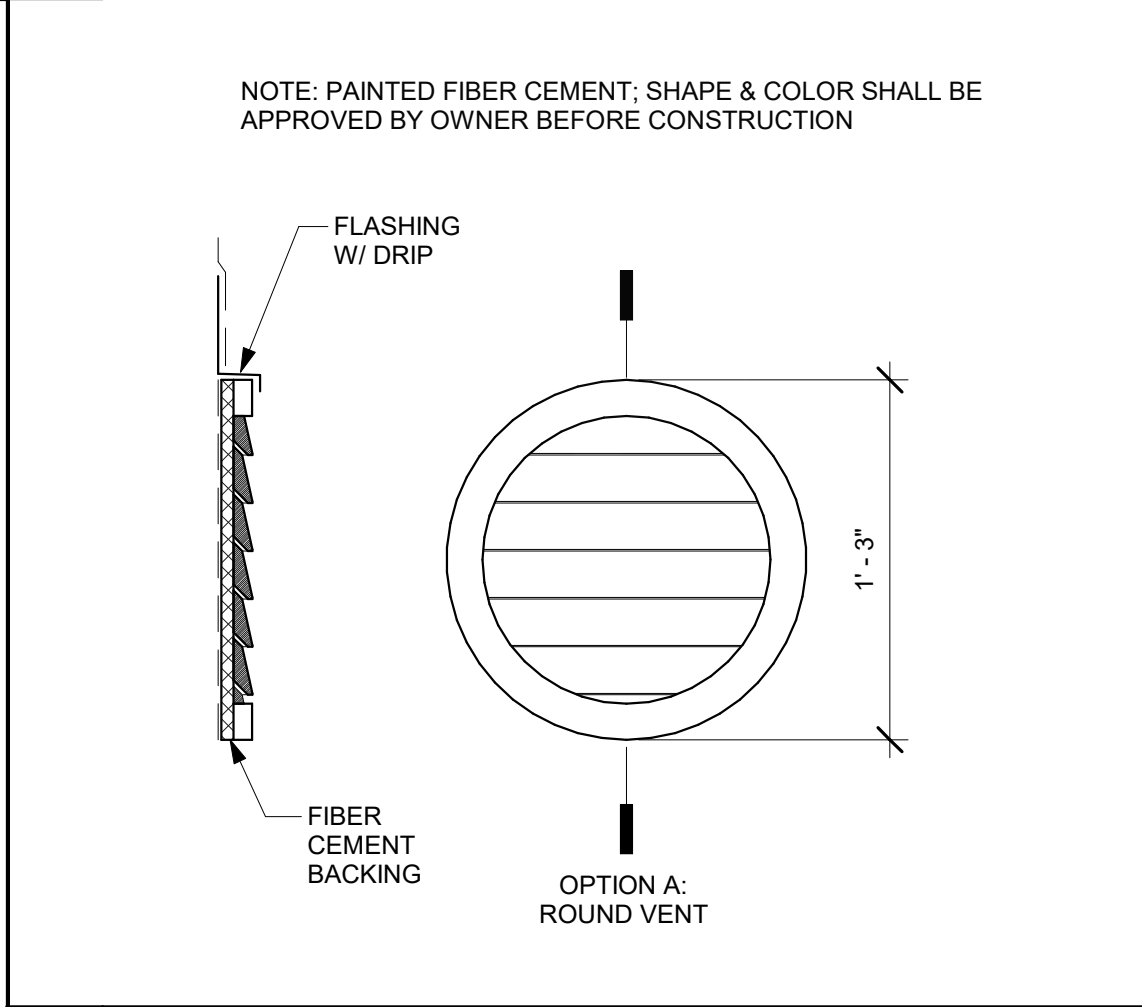
43 ROOF SCUPPER - DESERT MODERN
SCALE: 1 1/2" = 1'-0"



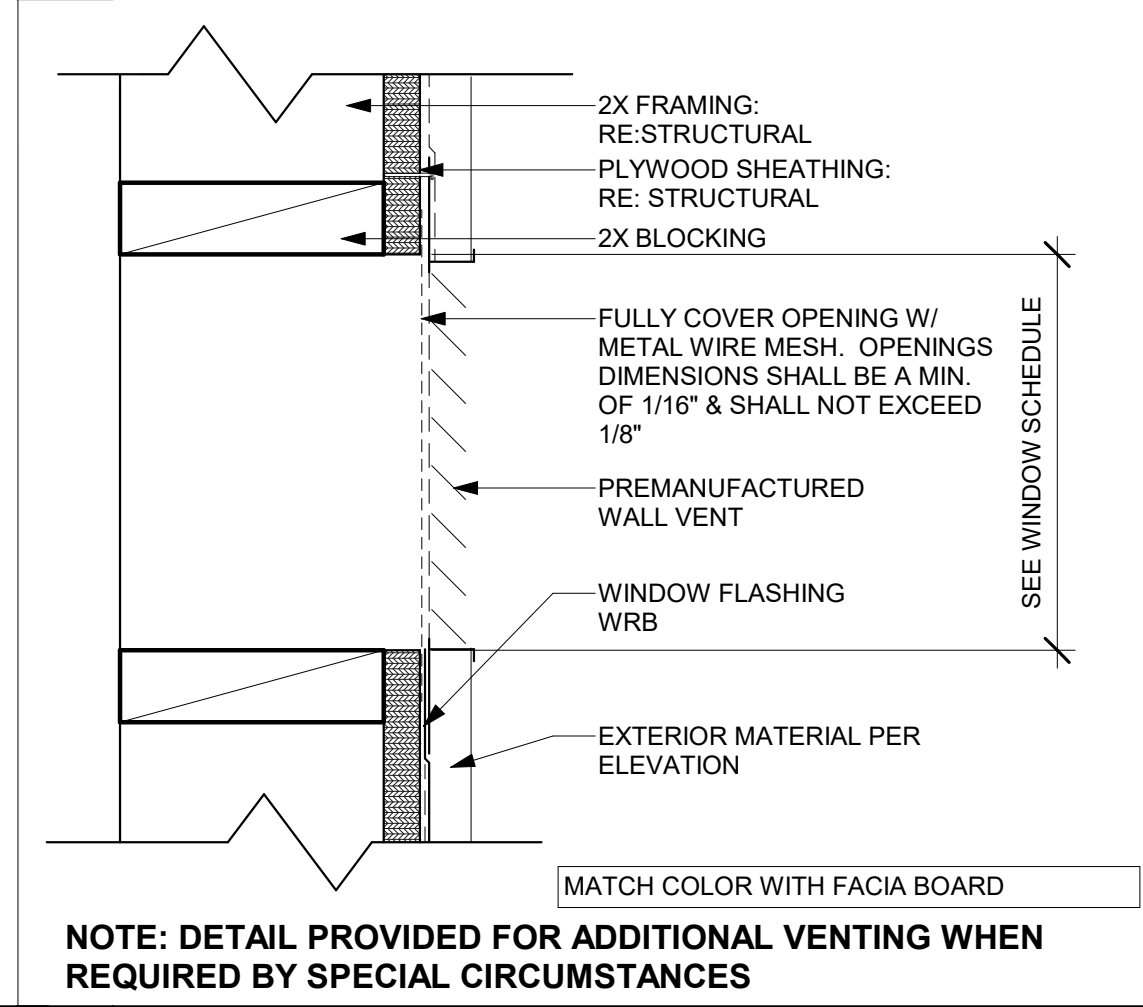
23 DOOR JAMB - MODERN
SCALE: 3" = 1'-0"



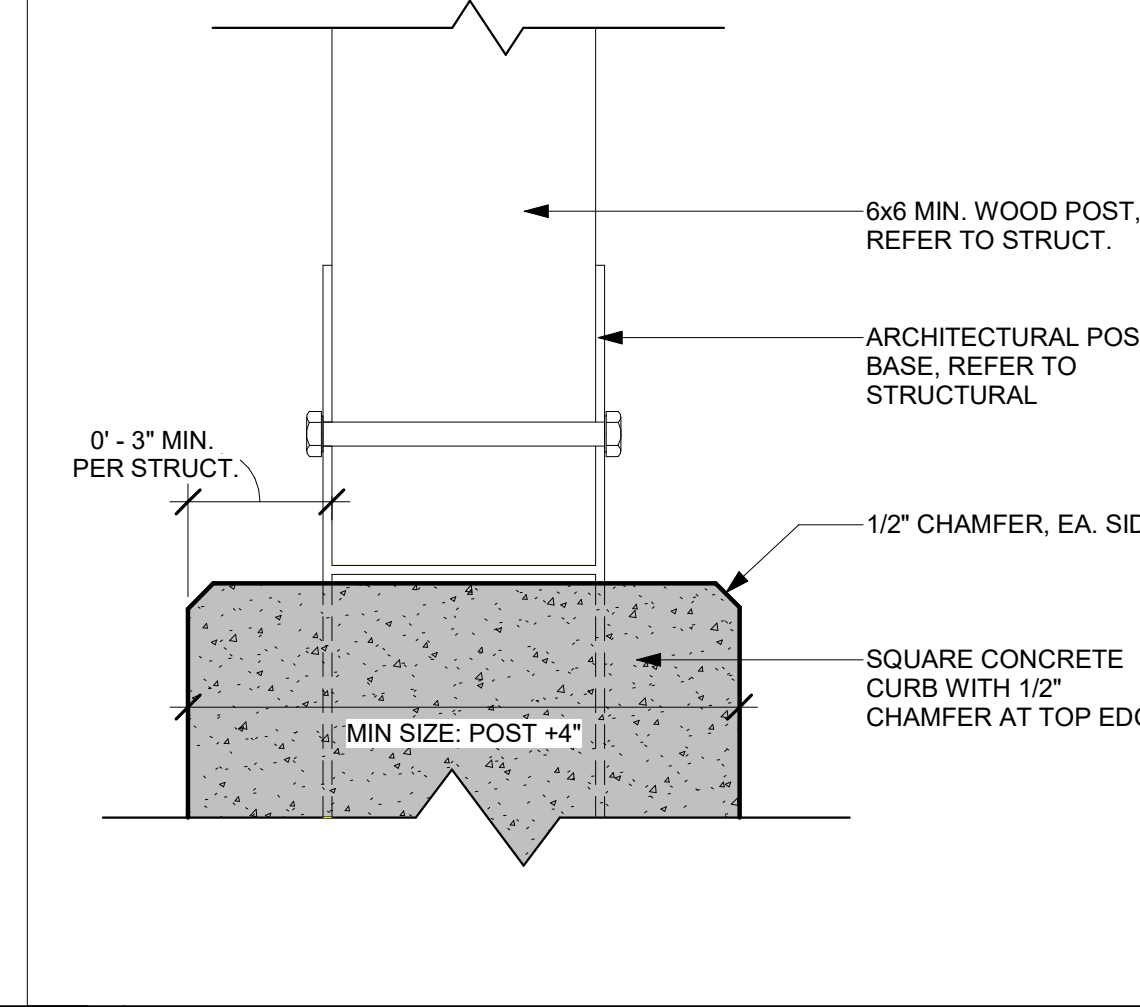
13 TYP. WINDOW JAMB
SCALE: 3" = 1'-0"



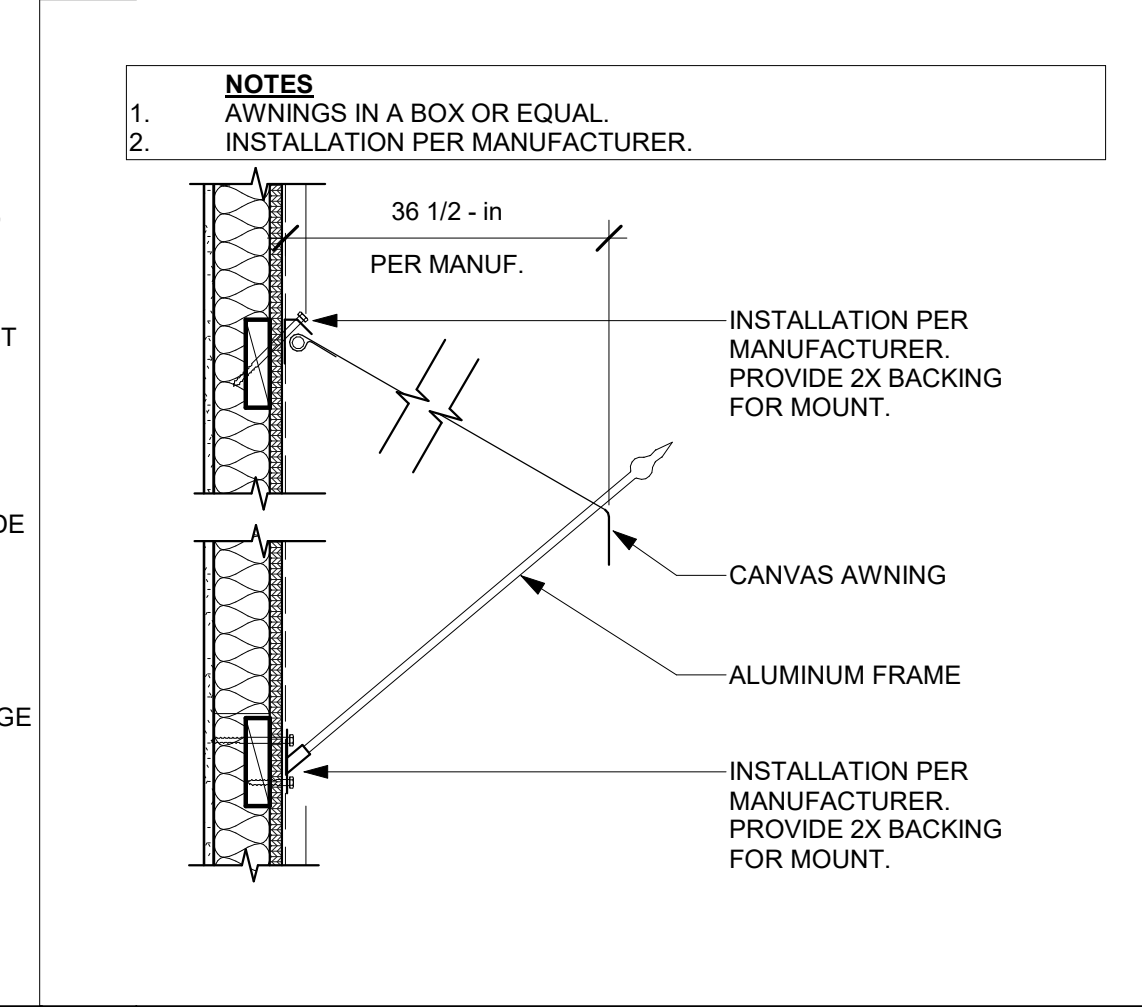
54 CIRCLE VENT
SCALE: 1 1/2" = 1'-0"



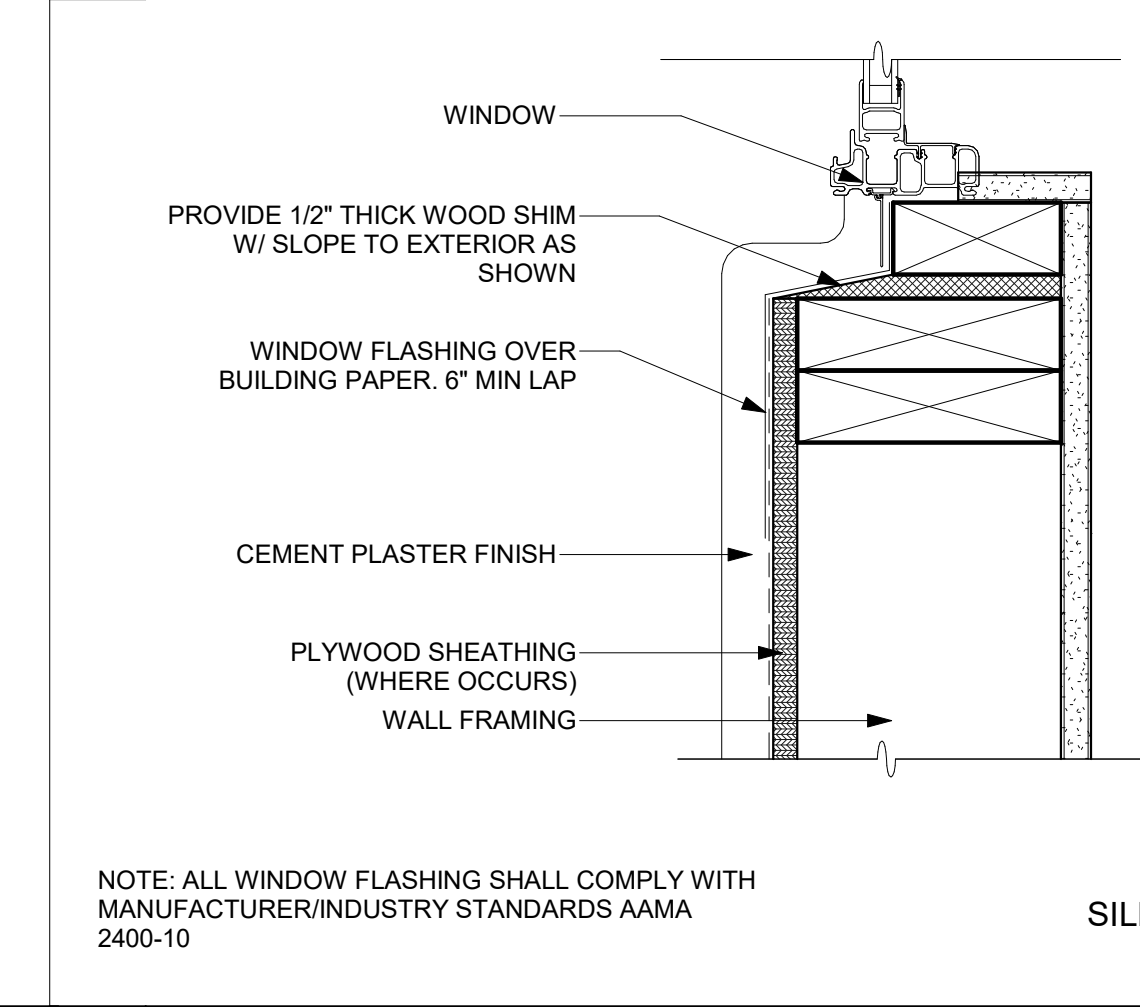
44 WALL VENT
SCALE: 3" = 1'-0"



34 POST CAP AND BASE - MODERN
SCALE: 3" = 1'-0"



24 AWNING - MODERN
SCALE: 1" = 1'-0"



14 TYP. WINDOW SILL
SCALE: 3" = 1'-0"

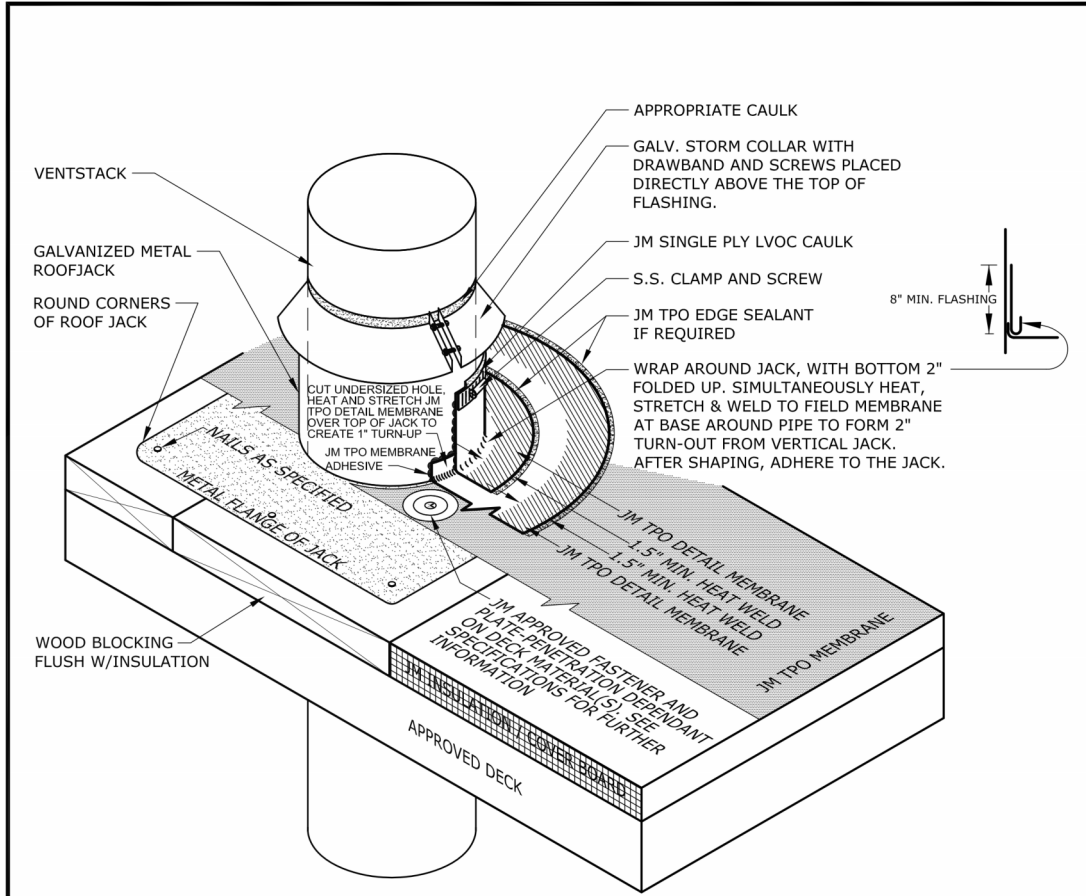
COACHELLA ADUS
COACHELLA, CA
ARCHITECTURAL DETAILS - DESERT MODERN

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NOTES:

- REFER TO JOHNS MANVILLE WEBSITE (www.jm.com) FOR MOST UP-TO-DATE INFORMATION.
- PLEASE SEE SINGLE PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
- ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL.
- JM TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE. (SEE DETAIL T-MS-01)

DRAWING NO:

T-DV-01

REPLACES T-F-02

DATE: 11-17-16

NTS

MEMBRANE TYPE:

JM TPO

WARRANTY GUARANTEE TERM:

20 YEARS

VENT PIPE

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JM

Johns Manville

12 VENT STACK

SCALE: 3/4" = 1'-0"

COACHELLA ADUS

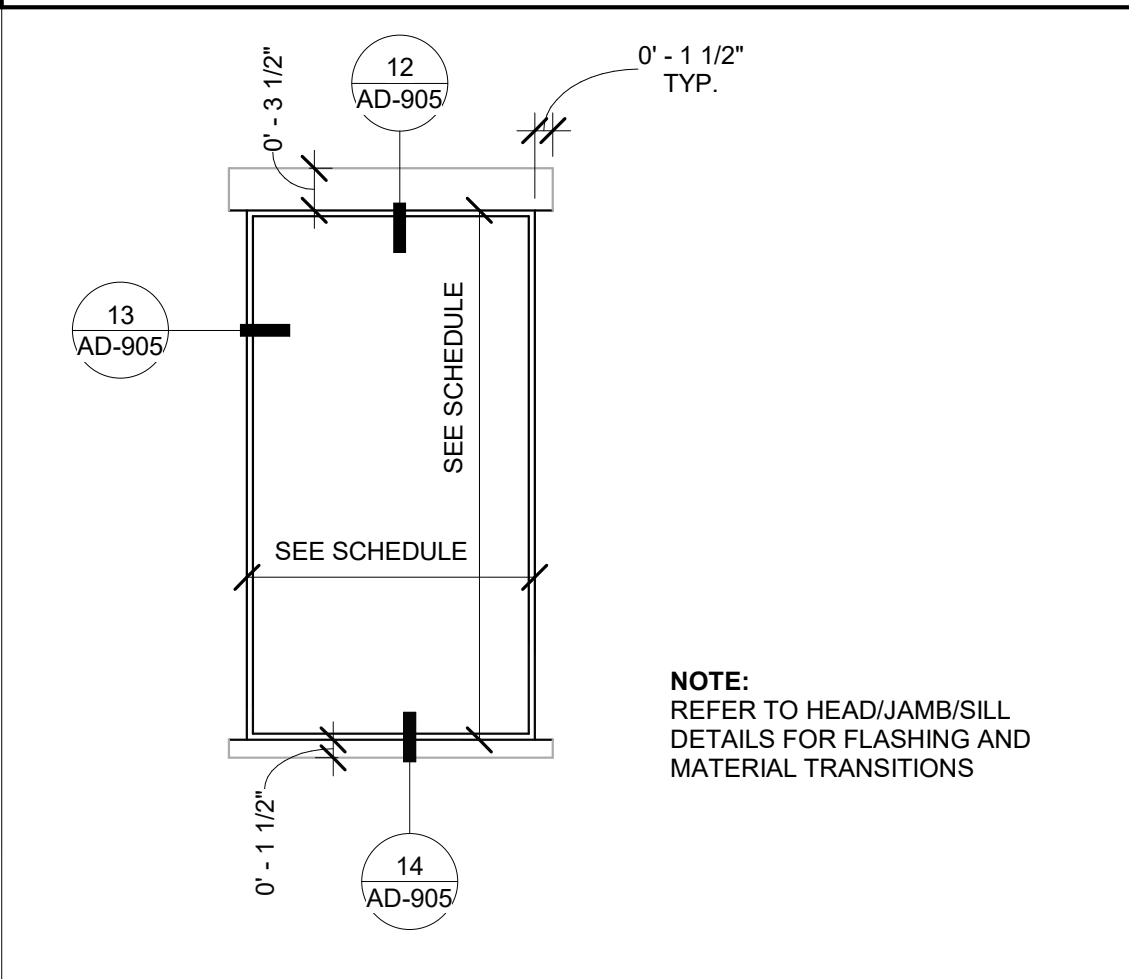
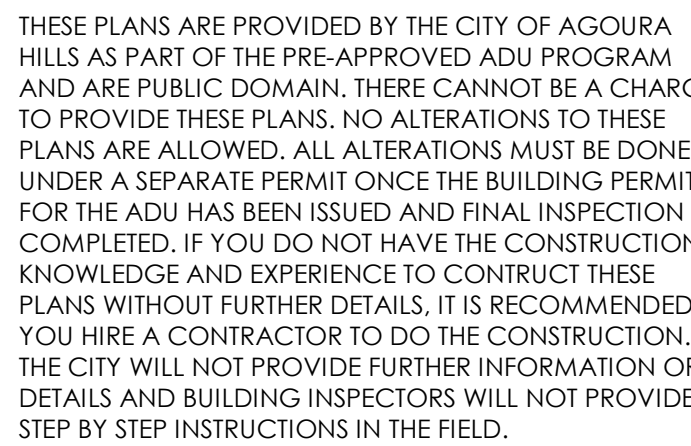
COACHELLA, CA

ARCHITECTURAL DETAILS - DESERT
MODERN

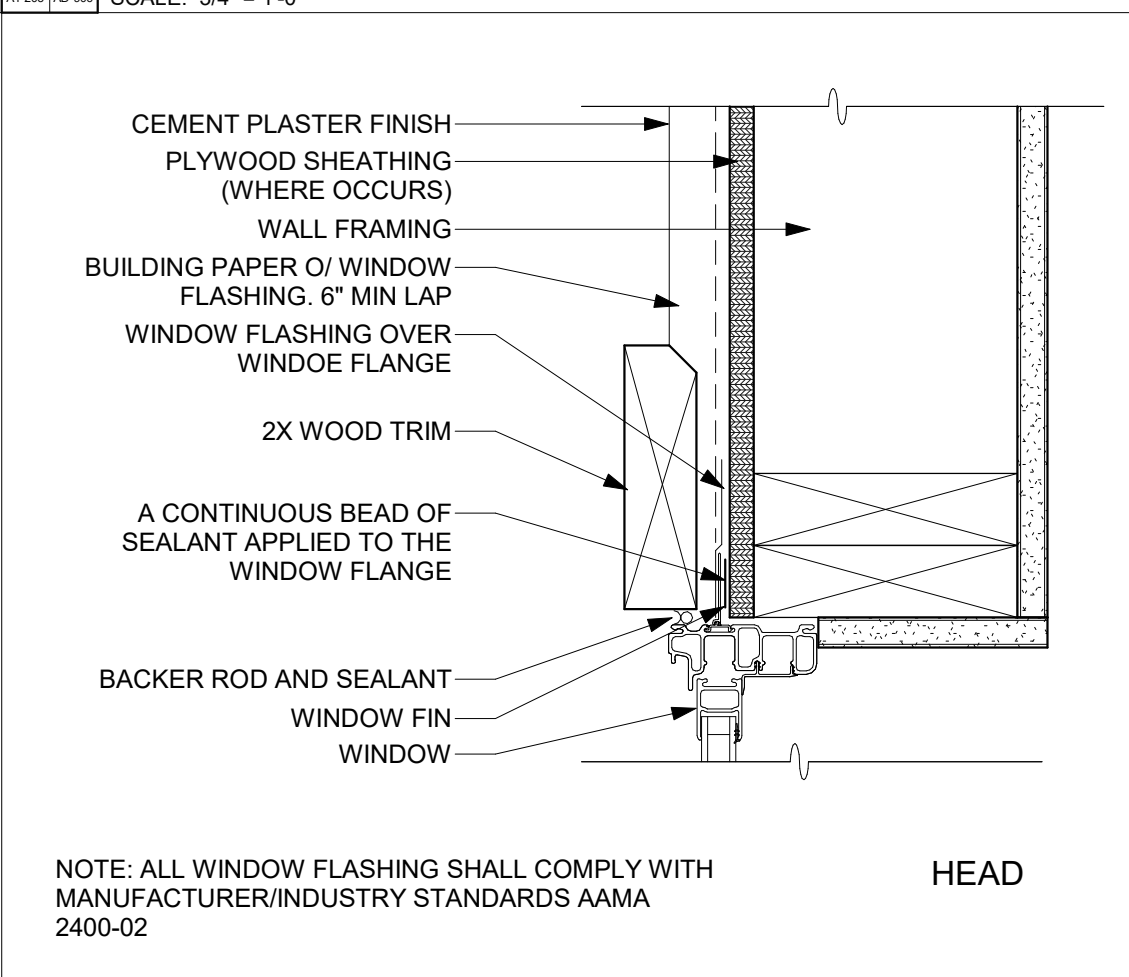
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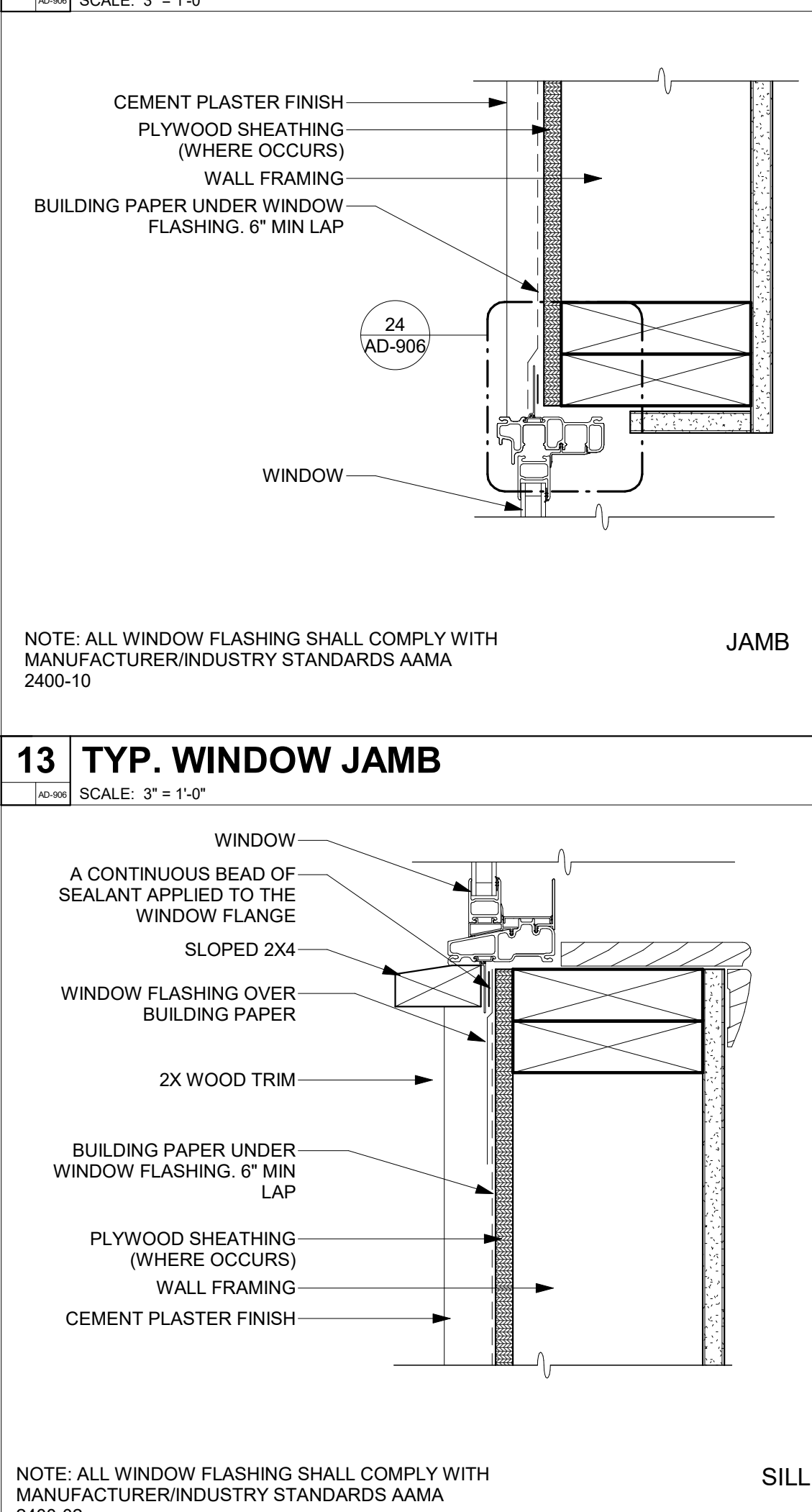
AD-905



11	WINDOW TRIM - SPANISH COLONIAL
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12	TYP. WINDOW HEAD
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14	TYP. WINDOW SILL
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SYMBOLS

	DETAIL REFERENCE BUBBLE WITH LEADER		INDICATES SHEAR WALL TYPE AND LENGTH, PER SHEAR WALL SCHEDULE		INDICATES TOP PLATE SPLICE NAILING PER SCHEDULE
	DETAIL REFERENCE BUBBLE		INDICATES SPAN AND DIRECTION OF PREFABRICATED ROOF TRUSS (BY OTHERS)		INDICATES SHEAR WALL STRAP / HOLDDOWN TYPE PER SCHEDULE
	FULL HEIGHT SECTION INDICATOR		INDICATES SPAN AND DIRECTION OF ROOF RAFTER OR FLOOR JOIST WITH WEB STIFFENER		INDICATES PAD FOOTING TYPE PER SCHEDULE
	ELEVATION OF WALL OR FRAME		INDICATES SPAN AND DIRECTION OF ROOF RAFTER OR FLOOR JOIST		INDICATES CONTINUOUS FOOTING TYPE PER SCHEDULE
	NORTH ARROW		INDICATES EXTENTS OF FRAMING OR OTHER STRUCTURAL ELEMENT		ANGLE BRACE
	TOP/BOTTOM OF ELEVATIONS		INDICATES HEADER @ OPENING PER HEADER SCHEDULE		DOUBLE ANGLE BRACE
	SLOPE		EARTH LAYER		DRAG STRUT CONNECTION
	WELDED WIRE FABRIC (WWF LAYER)		INDICATES SAND OR GROUT		FULL HEIGHT STIFFENER CONNECTION
	STEPPED SURFACE, FLOOR DEPRESSION		INDICATES GRAVEL		MOMENT CONNECTION
	SLOPED SURFACE		STEEL IN CROSS SECTION		MEMBER SPLICE
	STEPPED FOOTING		INDICATES BEARING WALL		TOP OF STEEL ± ELEVATION
	BOTTOM STEPPED FOOTING		SHADED AREA INDICATES FOOTPRINT OF FLOOR ABOVE		NUMBER OF EVENLY SPACED SHEAR STUDS
			STEEL HSS TUBE COLUMN		SPECIAL STUD SPACING SEE TYPICAL STEEL DETAILS
			STEEL HSS OR PIPE COLUMN		BEAM CAMBER AT MID-SPAN
			WIDE FLANGE STEEL COLUMN		
			WOOD POST		

WALL TYPES

	INDICATES PLYWOOD SIDE FOR SHEARWALL
	INDICATES BEARING WOOD WALL BELOW
	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
	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

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ABBREVIATIONS

A & B	ABOVE AND BELOW	CU FT	CUBIC FOOT	H or HORIZ	HORIZONTAL	OSB	ORIENTED STRAND BOARD	TB	TIE BEAM
AB	ANCHOR BOLT	d	PENNY (NAIL OR BAR DIA)	HDR	HEADER	PA	POST ABOVE	T & B	TOP AND BOTTOM
ABV	ABOVE	DBL	DOUBLE	HGR	HANGER	PARA OR //	PARALLEL	T & G	TONGUE & GROOVE
ACI	AMERICAN CONCRETE INSTITUTE	DEPT	DEPARTMENT	HP	HIGH POINT	PC	PRECAST, PIECE	TO	TOP OF
ADDL	ADDITIONAL	DET	DETAIL	HSB	HORIZONTALLY SLOTTED HOLES	PERP	PERPENDICULAR	TOC	TOP OF CURB, TOP OF CONCRETE
ADJ	ADJACENT	DF	DOUGLAS FIR/LARCH	HT	HEIGHT	PI	PLYWOOD INDEX	TOF	TOP OF FOOTING
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL	DIA OR Ø	DIAMETER	ID	INSIDE DIAMETER	PL OR PL.	PLATE	TEMP	TEMPERATURE: TEMPORARY
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	DIAG	DIAGONAL	IF	INSIDE FACE	PL	PROPERTY LINE	THRU	THROUGH
ALT	ALTERNATE	DIAPH	DIAPHRAGM	I-JST	I-JOIST	PLF	PONDS PER LINEAL FOOT	THK	THICKNESS/THICK
ALUM	ALUMINUM	DIM	DIMENSION	IN	INCH	PLCS	PLACES	THR	THREADED
ANCH	ANCHOR	DN	DOWN	INCL	INCLUDE	PLY	PLYWOOD	TOP or T	TOP
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	DO	DO OVER	INFO	INFORMATION	PROP	PROPERTY	TOS	TOP OF STEEL/TOP OF SLAB
APA	ENGINEERED WOOD ASSOCIATION (FORMERLY THE AMERICAN PLYWOOD ASSOCIATION)	DWG	DRAWING	INSP	INSPECTION	PW	PRESSURE TREATED	TOW	TOP OF WALL
APPROV	APPROVED	DWL	DOWEL	INT	INTERIOR	PJ	PLATE WASHER	TS	TRIMMER STUD
APPROX	APPROXIMATE	EA	EACH	JST	JOIST	PJP	PARTIAL JOINT PENETRATION WELD	TYP	TYPICAL
ARCH	ARCHITECTURAL: ARCHITECT	EF	EACH FACE	JT	JOINT	PREFAB	PREFABRICATED	UNO	UNLESS NOTED OTHERWISE
AWPA	AMERICAN WOOD PRESERVERS ASSOCIATION	EJ	EXPANSION JOINT	K	KIPS	PSF	POUNDS PER SQUARE FOOT	UT	ULTRA-SONIC TEST
AWS	AMERICAN WELDING SOCIETY	EL	ELEVATION	KS	KING STUD	PSI	POUNDS PER SQUARE INCH	VERT	VERTICAL
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION	ELEC	ELECTRICAL	KP	KING POST	PSL	PARALLEL STRAND LUMBER	VSH	VERTICAL SLOTTED HOLES
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	ELEV	ELEVATOR	KSI	KIPS PER SQUARE INCH	PVMT	PAVEMENT	W/	WITH
BEL	BELOW	EMBED	EMBEDMENT	LB(S) OR #	POUND(S)	#	POUND; NUMBER	W/O	WITHOUT
BLDG	BUILDING	EN	EDGE NAIL	LF	LINEAL FOOT	REF	REFERENCE	WO	WHERE OCCURS
BLK	BLOCK	ENGR	ENGINEER	LIN	LINEAL: LINEAR	REINF	REINFORCE: REINFORCING	WD	WOOD
BLKG	BLOCKING	EQ	EQUAL OR EQUIVALENT	LLH	LONG LEG HORIZONTAL	REQD	REQUIRED	WP	WORK POINT: WATERPROOF
BM	BEAM	EQUIP	EQUIPMENT	LLV	LONG LEG VERTICAL	RF	ROOF	WWF	WELDED WIRE FABRIC
BN	BOUNDARY NAIL	ES	EACH SIDE	LP	LOW POINT	RR	ROOF RAFTER		
BOT OR B	BOTTOM	EW	EACH WAY	LSH	LONG SLOTTED HOLES	Ø	ROUND; DIAMETER		
BRC	BRACE	EXIST or [E]	EXISTING	LSL	LAMINATED STRAND LUMBER	SCHED	SCHEDULE		
BRG	BEARING	EXT	EXTERIOR	LT WT	LIGHTWEIGHT	SECT	SECTION	W	W SHAPE
BTWN	BETWEEN	FDN	FOUNDATION	LVL	LEVEL OR LAMINATED VENEER LUMBER	SEP	SEPARATION	C	AMERICAN STD CHANNEL SHAPE
CANT	CANTILEVER	FIN	FINISH	MAS	MASONRY	SHT	SHEET	MC	MISC CHANNEL SHAPE
CAMB	CAMBER	FJ	FLOOR JOIST	MATL	MATERIAL	SHTG	SHEATHING	L	ANGLE SHAPE
CAM OR C	CAMBER	FLG	FLOOR	MAX	MAXIMUM	SHTG	SHEATHING	WT, ST, MT	STRUCT TEE SHAPE
CC	CENTER TO CENTER	FLR	FLOOR	MB	MACHINE BOLT	SIM	SIMILAR	PIPE	STANDARD PIPE SHAPE
CG	CENTER OF GRAVITY	FN	FIELD NAIL	MECH	MECHANICAL	SOG	SLAB ON GRADE	PIPE-X	EXTRA STRONG PIPE SHAPE
CIP	CAST-IN-PLACE	FOC	FACE OF CONCRETE	MFR	MANUFACTURER	SPECG	SPACING	PIPE-XX	DBL EXTRA STRONG PIPE SHAPE
CJ	CONSTRUCTION JOINT: CONTROL JOINT	FOM	FACE OF MASONRY	MIN	MINIMUM: MINUTE	SPECS	SPECIFICATIONS	HSS	HOLLOW STRUCTURAL SECTION
CL	CENTER LINE	FOS	FACE OF STUD	MISC	MISCELLANEOUS	SQ	SQUARE		
CLR	CLEARANCE: CLEAR	FOW	FACE OF WALL	[N]	NEW	SS	STAINLESS STEEL		
CMU	CONCRETE MASONRY UNIT	FRMG	FRAMING	N	NORTH	SSL	SHORT SLOTTED HOLES		
COL	COLUMN	FT	FOOT: FEET	NO or #	NUMBER	STD	STANDARD		
COMP	COMPRESSION	FTA	FLOOR TIE ABOVE	NTS	NOT TO SCALE	STGR	STAGGER		
CONC	CONCRETE	FG	FOOTING	OC	ON CENTER	STIFF	STIFFENERS		
CONN	CONNECTION: CONNECT	GALV	GALVANIZED	OD	OUTSIDE DIAMETER	STIRR	STIRRUP		
CONSTR	CONSTRUCTION	GB	GRADE BEAM	OF	OUTSIDE FACE	STL	STEEL		
CONT	CONTINUE: CONTINUOUS	GLB	GLUED LAMINATED BEAM	OH	OPPOSITE HAND	STRUCT	STRUCTURAL		
CONTR	CONTRACTOR	GR	GRADE	OPNG	OPENING	SW	SHEAR WALL		
CJP	COMPLETE JOINT PENETRATION WELD	GRND	GROUND	OPP	OPPOSITE	SYM	SYMMETRICAL		
CJR	CENTER			ORIG	ORIGINAL				
CTK	COUNTERSINK: COUNTERSUNK								

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SHEET INDEX, ABBREVIATION & SYMBOLS

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REINFORCING STEEL

1. REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 19 OF THE CODE AND WITH THE PROVISIONS OF ACI 318-19. ASTM A706, GRADE 60 UNO, ASTM A615 OR 60 STEEL MAY BE SUBSTITUTED FOR ASTM A706 GRA60 STEEL PER ACI 318-19 SECTION 20.2.2.5 PROVIDED THE FOLLOWING CONDITIONS ARE MET:

A. THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 18,000 PSI.

B. THE RATIO OF THE ACTUAL ULTIMATE TENSILE STRESS TO THE ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25.

C. WHERE REINFORCEMENT COMPLYING WITH ASTM A615 IS TO BE WELDED, CHEMICAL TESTS SHALL BE PERFORMED TO DETERMINE WELDABILITY IN ACCORDANCE WITH SECTION 26.6.4 OF ACI 318-19.
2. BARS SHALL BE CLEAN OF RUST, GREASE, OR OTHER MATERIALS LIKELY TO IMPAIR BOND. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
3. WELDED WIRE REINFORCEMENT (WWR), PLAIN OR DEFORMED, SHALL CONFORM TO ASTM A185. WELDED DEFORMED WIRE REINFORCEMENT (WWR) SHALL CONFORM TO ASTM A1064. ALL WWR FOR STAIR PANS AND ALL WWR FOR CONCRETE FILL ON METAL DECK TO BE PLAIN WWR. PROVIDE LAPS PER ACI 318-19 SECTION 25.5.3 OR 25.5.4 MINIMUM. WWR SHALL BE SUPPORTED ON APPROVED CHAIRS.
4. REINFORCING BAR LAP SPICES SHALL BE MADE AS INDICATED ON THE DRAWINGS. LAP ALL HORIZONTAL BARS AT CORNERS AND INTERSECTIONS. STAGGER ALL SPICES UNLESS NOTED OTHERWISE ON PLANS.

A. MINIMUM LAP SPICE LENGTH FOR REINFORCING STEEL BARS IN CONCRETE SHALL BE PER ACI 318-19 SECTION 25.5.2 AND THE REINFORCING SCHEDULE ON THE DRAWINGS.

B. MINIMUM LAP SPICE LENGTH FOR REINFORCING STEEL BARS IN MASONRY SHALL BE PER IMS 042-16 SECTION 6.1.6.1.1 AND THE REINFORCING SCHEDULE ON THE DRAWINGS.
5. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION IS MADE. ALL REINFORCING CONFORMING TO DIFFERING ASTM SPECIFICATIONS AND/OR OF DIFFERING GRADES SHALL BE CLEARLY MARKED TO DIFFERENTIATE THEM FROM OTHER REINFORCING STEEL IF CONCURRENTLY PRESENT ON SITE.
6. WHERE WELDING OF REINFORCING IS APPROVED BY THE STRUCTURAL ENGINEER, IT SHALL BE DONE BY AWS CERTIFIED WELDERS USING E60XX 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.
7. 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 EDITION.
8. 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 REINFORCEMENT, LAP SPICES, TIES, DOWELS, HEADED U-DOWELS, EMBED PLATES, ANCHOR BOLTS, ETC. AREAS OF CONGESTION SHALL BE DETAILED SUFFICIENTLY TO DEMONSTRATE THAT PLACEMENT OF REBAR MEETS SPACING REQUIREMENTS OF ACI 318-19.
10. MILL TEST REPORTS FOR GRADE 60 BARS SHALL BE SUBMITTED TO THE INSPECTOR OF RECORD PRIOR TO PLACEMENT OF CONCRETE PER ACI 318-19 SECTION 26.13.2.3 OF THE CODE.
11. 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.
12. CONCRETE PROTECTION FOR REINFORCEMENT

THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT IN CAST-IN-PLACE CONCRETE (NON-PRESTRESSED):	MINIMUM COVER, IN.
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
B. CONCRETE EXPOSED TO EARTH OR WEATHER: NO. 6 THROUGH NO. 18 BAR NO. 5 BAR, W31 OR D31 WIRE & SMALLER	2 1½
C. 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	1½ ¾ 1½

13. MECHANICAL BAR SPICE CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ACI 318-19 SECTION 25.5.7. USE OF MECHANICAL CONNECTIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. SPICES 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 SPICE CONNECTIONS IN SPECIAL STRUCTURAL WALLS, SPECIAL MOMENT FRAMES AND CONCRETE DIAPHRAGMS SHALL BE TYPE 2 CONFORMING TO THE REQUIREMENTS OF ACI 318-19 SECTION 18.2.7 & 18.12.7.4

CONCRETE

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

MATERIAL	ASTM STANDARD
PORTLAND CEMENT (TYPE II)	C150
CONCRETE AGGREGATES (HARDROCK)	C33
CONCRETE AGGREGATES (LIGHTWEIGHT)	C330
WATER	C1602
COAL FLY ASH OR POZZOLAN (CLASS F)	C618
NATURAL OR MANUFACTURED SAND	C33
SLAG	C989

- A. FOR SOILS WITH HIGH CONCENTRATIONS OF SULFATES (EXPOSURES S2 OR S3 PER ACI 318-19 TABLE 19.3.2.1) PORTLAND CEMENT SHALL BE TYPE V. VERIFY WITH PROJECT GEOTECHNICAL REPORT.
- B. WATER SHOULD ONLY BE ADDED AT THE BATCH PLANT. IN NO CASE SHALL THE DESIGN WATER/ CEMENT RATIO BE EXCEEDED.
- C. PUIMCE AGGREGATE SHALL NOT BE USED.
3. CONCRETE MIXES SHALL BE PROPORTIONED BASED ON SECTION 26.4.3 OF ACI 318-19. WHICH REFERENCES ACI 301-20 ARTICLE 4.2.3. MIX DESIGNS SHALL INCLUDE DOCUMENTATION OF MIX AVERAGE COMPRESSIVE STRENGTH THROUGH FIELD TEST DATA OR TRIAL MIXTURES IN ACCORDANCE WITH ACI 301-20 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 ^h (MAX)
CONCRETE FOUNDATIONS, GRADE BEAMS, TIE BEAMS	5,000	150	4	0.4	0.15
CONCRETE SLAB ON GRADE	5,000	150	4	0.4	0.15

- A. AS MEASURED BY CEMENTITIOUS WEIGHT
4. READY MIXED CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM C94 OR C685.
5. DEPOSITING AND CONVEYING OF CONCRETE SHALL CONFORM TO SECTION 26.5 OF ACI 318-19 AND PROJECT SPECIFICATIONS.
6. ALL CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE PLACED SHALL BE CLEANED AND ROUGHENED TO 1/4" AMPLITUDE.
7. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
8. 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 NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY SEOR.

b. NO CONDUITS SHALL BE PLACED IN CONCRETE FILL OVER METAL DECK.

c. PIPES SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS.

d. DO NOT STACK CONDUITS. SPACE EMBEDDED PIPES AND CONDUITS AT A MINIMUM OF 3 DIAMETERS CLEAR FROM OTHER EMBEDDED PIPES/CONDUITS AND REBAR.

FOUNDATION

1. GEOTECHNICAL INFORMATION AND FOUNDATION DESIGN IS BASED ON THE FOLLOWING:

A. DESIGN LATERAL SOIL LOADS ARE IN ACCORDANCE WITH 2022 CBC TABLE 1603.1

B. ALLOWABLE FOUNDATION BEARING AND LATERAL PRESSURES ARE IN ACCORDANCE WITH 2022 CBC TABLE 1806.2

C. VALUES LISTED SHALL BE VERIFIED BY A LICENSED GEOTECHNICAL ENGINEER
2. SPREAD OR CONTINUOUS FOOTINGS:

ELEMENT	ALLOWABLE BEARING CAPACITY (PSF) ^A	ALLOWABLE LATERAL RESISTANCE ^B	
		PASSIVE RESISTANCE (PSF/FT BELOW GRADE) ^C	COHESION (PSF)
CONT FOOTING	1,500	100	120

- NOTES:

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 (2022 CBC 1804.4)
- E. MAY BE DOUBLED FOR ISOLATED POLES PER 2022 CBC 1804.3.4

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. EXCAVATION FOR FOOTINGS SHALL BE APPROVED BY THE INSPECTOR OR GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE AND REINFORCING.
7. 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.
8. EXCAVATIONS SHALL BE CUT SQUARE AND SMOOTH, WITH LEVEL BOTTOMS.
9. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT AND APPROVED BY THE GEOTECHNICAL ENGINEER. FLOODING WILL NOT BE PERMITTED. ALL FILLS USED TO SUPPORT FOUNDATIONS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER REPRESENTATIVE PER SECTION 1705.6 OF THE CODE.
10. ALL ABANDONED FOOTINGS, UTILITIES, ETC., SHALL BE REMOVED. NEW FOOTINGS MUST EXTEND INTO UNDISTURBED SOILS.
11. PIPES WITHIN THE ZONE OF INFLUENCE OF BUILDING OR SITE ELEMENT FOUNDATIONS SHALL BE ENCASED IN LEAN CONCRETE AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER OF RECORD.

DEMOLITION

1. ALL DEMOLITION SHALL BE CARRIED ON IN SUCH A WAY AS NOT TO DAMAGE EXISTING ELEMENTS, WHICH ARE TO REMAIN IN THE FINISHED STRUCTURE.
2. ALL ELEMENTS OF THE STRUCTURE, WHICH ARE TO REMAIN, AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDITIONAL COST. EXISTING ELEMENTS SHALL BE PROTECTED TO THE FULLEST EXTENT POSSIBLE, IN ORDER TO MITIGATE DAMAGE.
3. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF ALL EXISTING ELEMENTS THAT ARE NECESSARY FOR THE INSTALLATION OF ALL NEW WORK.
4. WHERE EXISTING PARTITION WALLS ARE TO BE DEMOLISHED, CONTRACTOR SHALL VERIFY WALLS ARE NON-BEARING. PRIOR TO DEMOLITION, IF WALLS ARE FOUND TO BE BEARING, CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY

DESIGN INFORMATION

1. DEAD LOADS:

DEAD LOADS		
LOCATIONS		UNIFORM (PSF)
ROOF:	CLAY TILE OVER PRE-FAB TRUSS	25
EXTERIOR BEARING WALLS:	2x6 STUDS W/STUCCO EXT FINISH + INT GYP BOARD	18
INTERIOR BEARING WALLS:	2x6 STUDS W/GYP BOARD EACH FACE	8.7
INTERIOR NON BEARING WALLS:	2x4 STUDS W/GYP BOARD EACH FACE	8.7
ROOF LIVE LOADS (2022 CBC SECTION 1603.1.2)		

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

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

SNOW DESIGN DATA		
PARAMETER	VALUE	REFERENCE
GROUND SNOW LOAD	P _g = 0 PSF	ASCE 7-16 7.2

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

WIND DESIGN DATA		
PARAMETER	VALUE	REFERENCE
ULTIMATE DESIGN WIND SPEED (3-SEC GUST)	V _{ult} = 109 MPH	2022 CBC FIG. 1609.3
NOMINAL DESIGN WIND SPEED (3-SEC GUST)	V _{des} = 85 MPH	2022 CBC 1609.3.1
EXPOSURE CATEGORY	C	2022 CBC 1609.4.3
INTERNAL PRESSURE COEFFICIENT:	GCPi = ± 0.18	ASCE 7-16 TABLE 26.13-1

COMPONENTS & CLADDING WIND PRESSURES (PSF)			
LOCATION		COMPONENT TRIBUTARY AREA (SQ FT)	
		10	500
ROOF	ZONE 1	-36.9	-28.1
	ZONE 2e	-36.9	-28.1
	ZONE 2n	-58.8	-34.7
	ZONE 2r	-58.8	-34.7
	ZONE 3e	-58.8	-34.7
	ZONE 3r	-83.0	-43.5
	ALL ZONES	16.7	16.0
	ZONE 1	-47.8	-45.6
OVERHANG	ZONE 2e	-47.8	-45.6
	ZONE 2n	-69.8	-55.5
	ZONE 2r	-69.8	-55.5
	ZONE 3e	-83.0	-56.6
	ZONE 3r	-83.0	-56.6
	ZONE 4	-28.1	-24.4
	ZONE 5	-34.7	-27.0
	POSITIVE	25.9	21.5

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

SITE AND OCCUPANCY PARAMETERS		
PARAMETER	VALUE	REFERENCE
RISK CATEGORY	II	2022 CBC TABLE 1604.5
SEISMIC IMPORTANCE FACTOR	I = 1.0	ASCE 7-16 TABLE 1.5-2
MAPPED SPECTRAL RESPONSE ACCELERATIONS:	S _s = 2.308 S ₁ = 1.064	2022 CBC 1613.2.1
SITE CLASS	D (DEFAULT)	2022 CBC 1613.2.2
SPECTRAL RESPONSE COEFFICIENTS:	S _{DS} = 2.006 S _{D1} = 1.206	2022 CBC 1613.2.4

BUILDING PARAMETERS		
PARAMETER	VALUE	REFERENCE
SEISMIC DESIGN CATEGORY	SDC = E	2022 CBC 1613.2.5
BASIC SEISMIC FORCE RESISTING SYSTEM	LIGHT FRAME (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE	ASCE 7-16 TABLE 12.2-1
RESPONSE MODIFICATION FACTOR	R = 6½	
SYSTEM OVERSTRENGTH FACTOR	Ω ₀ = 3	
DEFLECTION AMPLIFICATION FACTOR	C _d = 4	
DESIGN BASE SHEAR	V = 9.4 k	ASCE 7-16 12.8.1
SEISMIC RESPONSE COEFFICIENTS	C _s = 0.309	ASCE 7-16 12.8.1.1
ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE PROCEDURE	ASCE 7-16 12.8

6. GEOTECHNICAL INFORMATION (2022 CBC SECTION 1603.1.6): REFER TO FOUNDATION GENERAL NOTES

EXISTING CONDITIONS

1. ALL INFORMATION SHOWN ON THE PLANS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE FROM PLANS SUPPLIED BY THE OWNER, BUT WITHOUT GUARANTEE OF ACCURACY.
2. WHERE ACTUAL CONDITIONS ARE NOT IN ACCORDANCE WITH THE INFORMATION PRESENTED, THE ARCHITECT AND/OR STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY. NO MODIFICATIONS OF THE PLANS FOR NEW CONSTRUCTION SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.

EXISTING UNDERGROUND UTILITIES

1. THE ARCHITECT AND ENGINEERS ARE NOT RESPONSIBLE FOR THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THE DRAWINGS. DRAWINGS, IF ANY, IS APPROXIMATE. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THE SITE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND/OR STRUCTURAL ENGINEER SHOULD ANY SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES WHICH MAY RESULT FROM HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES.
3. AN UNDERGROUND SERVICE ALERT INQUIRY IDENTIFICATION NUMBER MUST BE OBTAINED AT LEAST TWO WORKING DAYS BEFORE STARTING WORK WITH THIS PERMIT.

A. FOR PROJECTS IN SOUTHERN CALIFORNIA TELEPHONE NO. 1-800-422-4133.

B. FOR PROJECTS IN NORTHERN CALIFORNIA TELEPHONE NO. 1-800-227-2600.

GENERAL

1. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES AND STANDARDS:

A. 2022 CALIFORNIA BUILDING CODE, PART 2, VOLUME 2 OF 2, AND TITLE 24 C.C.R. 2022 EDITION AND LATEST REVISIONS (INCLUDING SUPPLEMENTS AND ERRATA) HEREIN REFERRED TO AS "THE CODE".

B. ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (CAL/OSHA).

C. CODES & STANDARDS REFERENCED IN THE CODE OR LISTED IN THESE NOTES AND SPECIFICATIONS.
2. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS, WHERE NO DETAILS ARE GIVEN. CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. IN NO INSTANCE SHALL DIMENSIONS BE SCALED FROM THE DRAWINGS.
5. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:

A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED

B. SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS UNLESS NOTED AND/OR DETAILED ON THE STRUCTURAL DRAWINGS

C. SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGE IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC

D. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN

E. FLOOR AND ROOF FINISHES

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. 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.,
10. ASTM SPECIFICATIONS ON THE DRAWINGS SHALL BE THE VERSION REFERENCED IN CHAPTER 35 OF THE CODE OR AS REFERENCED IN THE APPLICABLE DESIGN STANDARD.
11. 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.
12. 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.
13. 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. SHORING IS NOT THE RESPONSIBILITY OF THE SEOR. CONTRACTOR TO SUBMIT ANY SHORING DESIGN AND DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
14. AN UNDERGROUND SERVICE ALERT INQUIRY IDENTIFICATION NUMBER MUST BE OBTAINED AT LEAST TWO WORKING DAYS BEFORE STARTING WORK WITH THIS PERMIT.

G. FOR PROJECTS IN SOUTHERN CALIFORNIA TELEPHONE NO. 1-800-422-4133.

H. FOR PROJECTS IN NORTHERN CALIFORNIA TELEPHONE NO. 1-800-227-2600.
17. EDGE OF SLAB DIMENSIONS TO BE COORDINATED AND VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO FABRICATION.

DIMENSIONS

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



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

COACHELLA ADUS

COACHELLA, CA

GENERAL NOTES

DATED
JANUARY 11, 2024
SHEET

S-102

PUBLIC SET

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REQUIRED VERIFICATION AND INSPECTIONS			
WOOD CODE CHAPTER 17 AND REFERENCED 2018 NDS AND AWC SDPWS-2015			
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 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" O.C. - WOOD SHEAR WALLS - WOOD DIAPHRAGMS - DRAG STRUTS - SHEAR PANELS - HOLD-DOWNS	—	X	1705.12.2 1705.13.2
4. WOOD LATERAL FORCE-RESISTING SYSTEM WITH FASTENER SPACING OF THE SHEATHING GREATER THAN 4" O.C. (NOT REQUIRED) - WOOD SHEAR WALLS - WOOD DIAPHRAGMS - DRAG STRUTS - SHEAR PANELS - HOLD-DOWNS	—	—	1705.12.2 1705.13.2

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	—	X	
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	—	X	
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	—	X	
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X	—	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	—	X	

CONCRETE CONSTRUCTION				
CODE TABLE 1705.3				
SPECIAL INSPECTION OR TEST	CONTINUOUS	PERIODIC	REFERENCED STANDARD	CBC REFERENCE
3. INSPECT ANCHORS CAST IN CONCRETE	—	X	ACI 318: 26.7	—
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS ^(a)				
(a) ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X		ACI 318: 26.7.1	
(b) MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.0.	X		ACI 318: 26.7.1	—

STATEMENT OF SPECIAL INSPECTIONS	
1.	THIS STATEMENT OF SPECIAL INSPECTIONS HAS BEEN PREPARED PURSUANT TO SECTION 1704.3 OF THE CODE. THIS SECTION DETAILS BOTH REQUIRED SPECIAL INSPECTIONS AND TESTS INCLUDING TESTING PER SECTION 1705 OF THE CODE. THE FOLLOWING SHALL BE OBSERVED DURING THEIR IMPLEMENTATION: A. GENERAL: a. STRUCTURAL VERIFICATIONS, INSPECTIONS AND TESTS SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 17 OF THE CODE AND/OR THE APPLICABLE REFERENCE STANDARD. B. OWNER REQUIREMENTS: a. THE OWNER OR OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN SECTION 1705 OF THE CODE AND IN THIS STATEMENT OF INSPECTIONS. C. SPECIAL INSPECTOR QUALIFICATIONS: a. THE SPECIAL INSPECTIONS SHALL PROVIDE WRITTEN DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING HIS OR HER COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING. THE EXPERIENCE OR TRAINING SHALL BE CONSIDERED RELEVANT WHEN THE DOCUMENTED EXPERIENCE OR TRAINING IS RELATED IN COMPLEXITY TO THE SAME TYPE OF SPECIAL INSPECTION ACTIVITIES FOR PROJECTS OF SIMILAR COMPLEXITY AND MATERIAL QUANTITIES. D. CONTRACTOR REQUIREMENTS: a. SPECIAL INSPECTION IS IN ADDITION TO THE CONTRACTOR'S QUALITY CONTROL INSPECTIONS AND TESTING. THE CONTRACTOR'S QUALITY CONTROL INSPECTIONS AND TESTING SHALL OCCUR PRIOR TO SPECIAL INSPECTION AND REPORTS SHALL BE AVAILABLE TO THE SPECIAL INSPECTOR. b. THE CONTRACTOR SHALL ENSURE THAT THE WORK FOR WHICH SPECIAL INSPECTION IS REQUIRED REMAINS ACCESSIBLE AND EXPOSED FOR SPECIAL INSPECTION PURPOSES UNTIL COMPLETION OF THE REQUIRED SPECIAL INSPECTION. c. ANY CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE MAIN WIND OR SEISMIC FORCE RESISTING SYSTEM SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS. E. SPECIAL INSPECTOR REPORT REQUIREMENTS: a. THE SPECIAL INSPECTOR SHALL KEEP RECORD OF INSPECTIONS b. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD. c. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. d. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. e. IF NOT CORRECTED DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD PRIOR TO THE COMPLETION OF THAT PHASE OF WORK. f. A FINAL REPORT DOCUMENTING SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED SHALL BE SUBMITTED TO THE BUILDING OFFICIAL.

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. STEEL BUILDINGS (OR STEEL ELEMENTS IN OTHER BUILDINGS) a. FOR GENERAL STEEL BUILDINGS OR ELEMENTS THE FABRICATOR SHALL BE AN AISC CERTIFIED FABRICATOR IN ACCORDANCE WITH THE AISC CERTIFICATION PROGRAM FOR STRUCTURAL STEEL FABRICATORS (AISC 201-04). b. OTHER ACCREDITATION DEEMED ACCEPTABLE BY THE AUTHORITY HAVING JURISDICTION. c. IF FABRICATION IS PERFORMED BY AN APPROVED FABRICATOR A CERTIFICATE OF COMPLIANCE MUST BE PROVIDED TO THE BUILDING INSPECTOR THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE FABRICATOR ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. d. IF FABRICATION IS NOT PERFORMED BY AN APPROVED FABRICATOR WELDING INSPECTION REPORTS MUST BE SUBMITTED TO THE BUILDING OFFICIAL BY AN APPROVED TESTING AGENCY. d.a. NONDESTRUCTIVE TESTING (NDT) MAY BE PERFORMED BY THE FABRICATOR, HOWEVER THE QA AGENCY SHALL REVIEW THE FABRICATOR'S NDT REPORTS. B. WOOD BUILDINGS a. PREFABRICATED WOOD TRUSSES b. STRUCTURAL GLUED LAMINATED TIMBER

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-2021) 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: CLAY TILE W/ GYP CEILING: TOP CHORD DEAD LOAD: 18.6 PSF * (17.3 PSF SUPERIMPOSED) BOT CHORD DEAD LOAD: 5.9 PSF (4.6 PSF SUPERIMPOSED) ROOF - LIVE LOAD: 20 PSF DEFECTION CRITERIA: DEAD + LIVE LOAD L/240 LIVE LOAD ONLY L/360 *INCLUDES 4 PSF ALLOWANCE FOR PV PANELS b. (#-) EQUALS DRAG FORCE IN LBS. DRAG FORCE IS AT A FACTORED LEVEL (0.7E). DRAG FORCES CALCULATED IN ACCORDANCE WITH ASCE 7-16 12.10.1.1. IN STRUCTURES ENTIRELY BRACED BY LIGHT FRAME SHEAR WALLS, OR PORTIONS THEREOF, DRAG MEMBERS SHALL BE DESIGNED TO RESIST FORCES USING THE LOAD COMBINATIONS OF ASCE 7-16 SECTION 12.4.2.3. IN ALL OTHER STRUCTURES DRAGS SHALL INCLUDE THE EFFECT OF OVER STRENGTH PER ASCE 7-16 12.4.3.2. 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-81) b. TRUSS INSTALLATION SHALL COMPLY WITH INSTALLATION TOLERANCES SHOWN IN BCSI-81 c. TEMPORARY INSTALLATION RESTRAINT/BRACING FOR THE TRUSS SYSTEM AND THE PERMANENT TRUSS SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH BCSI-82. d. CONSTRUCTION LOADING ON TRUSSES SHALL BE DONE IN ACCORDANCE WITH BCSI-84. e. TRUSS DAMAGE, JOBSITE MODIFICATIONS & INSTALLATION ERRORS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE EOR AND THE TRUSS DESIGNER. REFERENCE BCSI-85. f. IF MOISTURE ABSORPTION IS EXPECTED, CUT THE STEEL BAND TO PREVENT DAMAGE g. 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. ACCUMULATE 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 1/2" 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 MAY BE USED IF FASTENER MANUFACTURER HAS RECEIVED ICC OR IAPMO APPROVAL FOR THE INTENDED USE. 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 THAN 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.

WOOD STRUCTURAL PANELS (SHEATHING)						
1. WOOD STRUCTURAL PANELS SHALL MEET THE FOLLOWING MINIMUM STANDARDS EXCEPT WHERE OTHERWISE NOTED:						
WOOD STRUCTURAL PANEL PROPERTIES						
USE	PLY	BOND CLASSIFICATION ^c	SHEATHING GRADE	PERFORMANCE RATING	SPAN RATING	RATING ^b REFERENCE ^a
ROOF	5	EXPOSURE 1	REFER TO TYPICAL DIAPHRAGM SCHEDULE		APA	2022 CBC 2303.1.5 (DOC PS 1-19 OR PS 2-18)
FLOOR	5	EXPOSURE 1				
WALL ^d	5	EXPOSURE 1	REFER TO TYPICAL SHEAR WALL SCHEDULE		APA	
TABLE NOTES:						
A. WOOD STRUCTURAL PANELS SHALL CONFORM TO THE REQUIREMENTS FOR THEIR TYPE IN ACCORDANCE WITH THE FOLLOWING VOLUNTARY STANDARDS BY THE ENGINEERED WOOD ASSOCIATION (AWA): 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 AN AWA TRADEMARK INDICATING CONFORMANCE TO THE APPLICABLE VOLUNTARY STANDARD						
C. WHERE PANELS ARE EXPOSED TO REPEATED WETTING AND REDRYING, LONG-TERM EXPOSURE TO WEATHER, OR CONDITIONS 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.						

SAWN LUMBER				
FRAMING LUMBER SHALL MEET THE FOLLOWING MINIMUM STANDARDS EXCEPT WHERE OTHERWISE NOTED:				
SAWN LUMBER PROPERTIES				
USE	SIZE	SPECIES	GRADE	REFERENCE
MUDSILLS	2x4	D.F.	STANDARD OR BETTER PRESSURE TREATED	2022 CBC 2303.1.9
	2x6 AND LARGER	D.F.	NO. 2 OR BETTER PRESSURE TREATED	
	2x	REDWOOD	FOUNDATION GRADE	
HORIZONTAL FRAMING LUMBER				
ROOF JOISTS AND RAFTERS	2x	D.F.	NO. 2	WCLUB & WWPA
FLOOR JOISTS	2x	D.F.	NO. 2	
HEADERS AND BEAMS	4x	D.F.	NO. 2	
ANY OTHER HORIZONTAL	4x4 AND SMALLER	D.F.	NO. 2	
	6x6 AND LARGER	D.F.	NO. 1	
VERTICAL FRAMING LUMBER				
TOP PLATES	2x	D.F.	NO. 2	WCLUB & WWPA
STUDS	2x4 & 3x4	D.F.	STUD	
	2x6 & 2x8	D.F.	NO. 2	
POSTS	4x4 & 4x6 POSTS	D.F.	NO. 2	
	6x6 & LARGER POSTS	D.F.	NO. 1	
ALL OTHER FRAMING LUMBER				
ALL OTHER FRAMING LUMBER, UNO	ALL SIZES	D.F.	STANDARD & BETTER	WCLUB & WWPA

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 AT BUILDINGS WITH 4 OR MORE STORIES.

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 2304.10.2. ALL NAILS SHALL BE COMMON WIRE NAILS. PREDRILL NAIL HOLES TO 70% OF NAIL SHANK DIAMETER WHERE NAILING TENDS TO SPLIT WOOD.

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'-0" O.C. BEGINNING AT 3" 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).

PRESERVATIVE TREATMENT:

A. WOOD MEMBERS SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH ATC 109-07, STANDARD FOR PRESERVATIVE TREATMENT, BASED ON THE SERVICE CONDITION PER THE USE CATEGORIES (UC#) SPECIFIED IN AWWA U1-20.

a. UC1 - INTERIOR CONSTRUCTION, ABOVE GROUND, DRY - NO PRESERVATIVE TREATMENT REQUIRED.

b. UC2 - INTERIOR CONSTRUCTION, ABOVE GROUND, WET - PRESERVATIVE TREATMENT REQUIRED IF THE HUMIDITY OR MOISTURE CONDENSATION IS 20% OR GREATER.

c. UC3 - EXTERIOR CONSTRUCTION ABOVE GROUND - PRESERVATIVE TREATMENT REQUIRED.

B. FOR ALL TREATED WOOD MEMBERS, ALL CUTS, HOLES OR INJURIES SUCH AS ABRASIONS OR HOLES FROM REMOVAL NAILS AND SPIKES WHICH MAY PENETRATE THE TREATED ZONE SHALL BE FIELD TREATED IN ACCORDANCE WITH AWWA M4-15. 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.

C. ALL LUMBER IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED LUMBER WITH AWWA TREATMENT C2 USING EITHER ALKALINE QUAT (AQO TYPE B AND D), COPPER AZOLE (CBA-A, CA-B), OR SODIUM BORATES (SBA) 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.

PROVIDE THE FOLLOWING BLOCKING AS A MINIMUM, UNLESS SHOWN OTHERWISE:

2x FULL DEPTH SOLID BLOCKING BETWEEN JOISTS OVER SUPPORT.

2x FULL DEPTH SOLID BLOCKING BETWEEN JOISTS OVER AND BELOW PARTITION WALLS.

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.

BRIDGING SHALL BE 2 X SOLID BLOCKS, INSTALLED AS FOLLOWS:

ROOF JOISTS MORE THAN 10' DEPTH, 8'-0" O.C. MAXIMUM, NOT MORE THAN 8'-0" FROM SUPPORT.

FLOOR JOISTS MORE THAN 10' DEPTH, 8'-0" O.C. MAXIMUM, NOT MORE THAN 8'-0" FROM SUPPORT.

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 MANUFACTURERS WITH EQUIVALENT LOAD CARRYING CHARACTERISTICS MAY BE USED WITH APPROVAL BY SEOR.

FIRE STOPPING, BACKING FOR INTERIOR FINISHES, NONBEARING WALLS, AND OTHER NON-STRUCTURAL FRAMING ARE NOT NECESSARILY SHOWN ON STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS.

HARDWARE AND CONNECTORS	
GENERAL: 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	
HOLD-DOWNS: 1. DO NOT OVER TIGHTEN NUTS ON TIE-DOWN ANCHOR RODS OR BOLTS. TIGHTEN ANCHOR ROD NUTS ONE-THIRD TO ONE-HALF TURN BEYOND FINGER TIGHT 2. INSTALL ALL HOLD-DOWNS 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 HOLD-DOWN HIGHER ON END STUD / POST 3. FOR HOLD-DOWNS 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: 1. THE TIE-DOWN AND COLLECTOR STRAPS SHALL BE INSTALLED STRAIGHT AND TRUE. DO NOT FOLD, BEND, KINK OR OTHERWISE ALTER CONNECTOR STRAPS 2. INSTALL THE TIE-DOWN STRAPS DIRECT TO POST IN LIEU OF OVER SHEATHING. STRAPS MAY BE INSTALLED ON THE UNSHEATHED SIDE OF THE END STUDS / POSTS	



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

COACHELLA ADUS

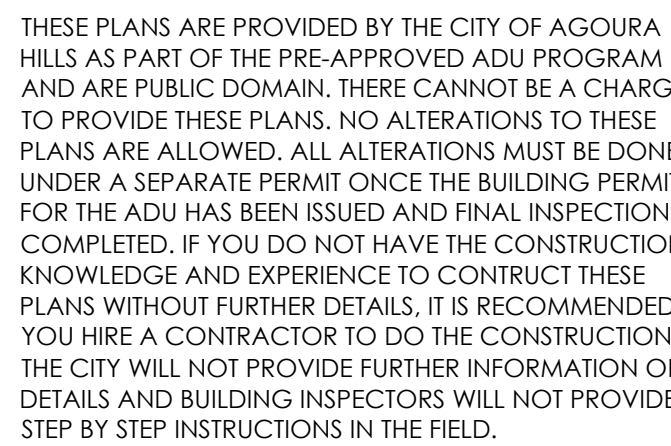
COACHELLA, CA

GENERAL NOTES, SPECIAL
INSPECTIONS & TESTS

DATE
JANUARY 11, 2024
SHEET

S-103

PUBLIC SET



COACHELLA, CA

FOUNDATION & ROOF FRAMING PLAN - MISSION REVIVAL

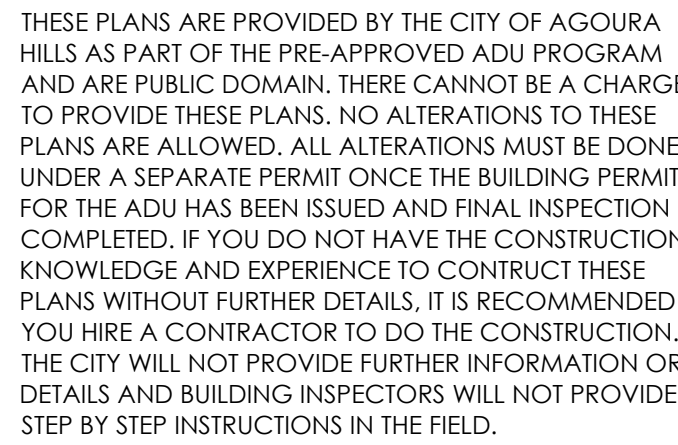
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PUBLIC SET

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



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VALUES ABOVE ARE FOR REINFORCEMENT WITH THE FOLLOWING PARAMETERS:

- A. GRADE 60 REINFORCEMENT
- B. NORMAL WEIGHT CONCRETE
 - a. FOR LIGHTWEIGHT CONCRETE MULTIPLY THE VALUES ABOVE BY 1.3
- C. NON-EPOXY COATED REINFORCEMENT
- D. HORIZONTAL BARS WITHOUT 12" OF CONCRETE BELOW (BOTTOM BARS), AND VERTICAL BARS
 - a. FOR TOP BARS WITH 12" OR MORE OF CONCRETE BELOW THE BAR MULTIPLY THE VALUES ABOVE BY 1.3
- E. CLEAR SPACING NOT LESS THAN d_n , CLEAR COVER NOT LESS THAN d_n AND STIRRUPS THROUGH L_d NOT LESS THAN MIN

OR

 CLEAR SPACING NOT LESS THAN $2d_n$ AND CLEAR COVER NOT LESS THAN db
 - a. FOR OTHER SPACING AND COVER CONDITIONS MULTIPLY THE VALUES ABOVE BY 1.5
- F. REINFORCEMENT NOT IN SHEAR WALLS
 - a. FOR REINFORCEMENT IN SHEAR WALLS MULTIPLY THE VALUES ABOVE BY 1.25

THE MULTIPLIERS LISTED IN NOTE 1 ABOVE ARE CUMULATIVE INCREASES IN DEVELOPMENT/LAP SPICE LENGTH. ALL LAP SPICES REFERRED IN THE PLANS SHALL BE CLASS B UNLESS NOTED OTHERWISE.

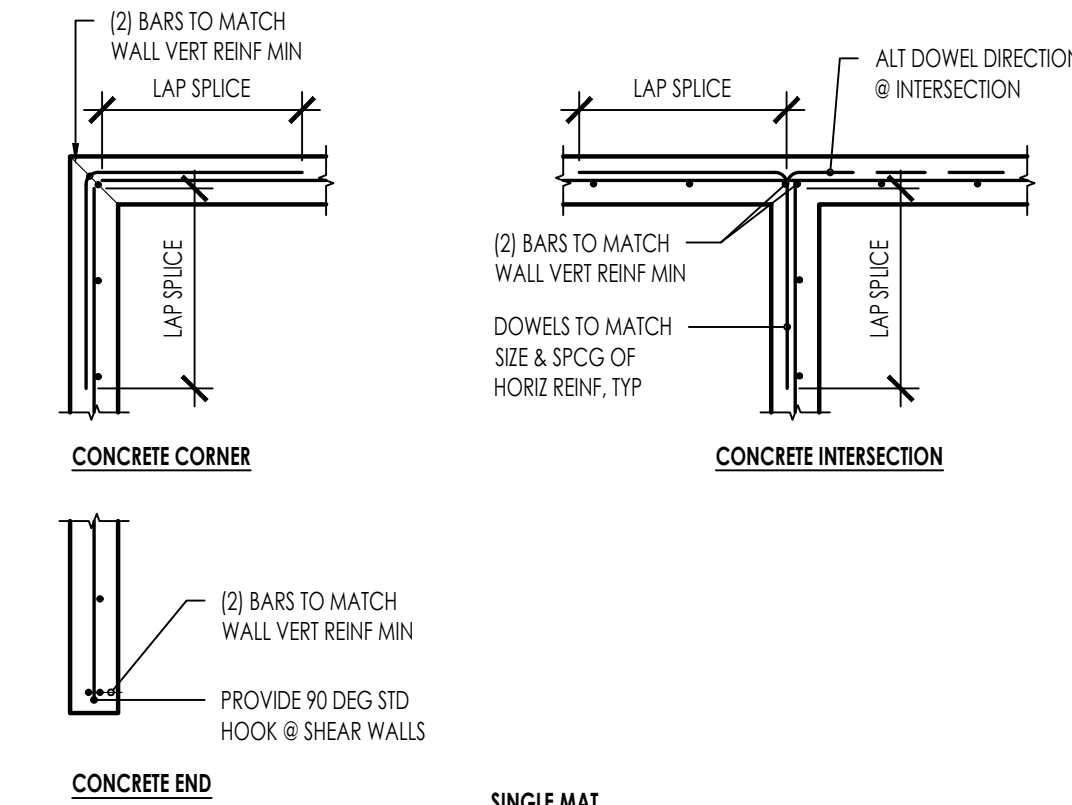
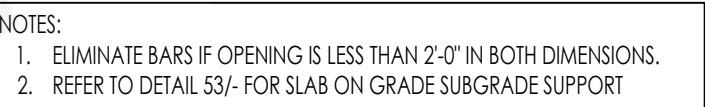
WHEN REINFORCING BARS OF TWO SIZES ARE LAP-SPLICED IN TENSION, USE THE LARGER OF THE TENSION CLASS B, ALL LAP SPICES LENGTH $[l_d]$ OF THE SMALLER BAR, AND THE CLASS A, TENSION DEVELOPMENT LENGTH $[l_d]$ OF THE LARGER BAR

STANDARD HOOK DEVELOPMENT LENGTH "L _{dh} "					
BAR SIZE	D	L _{dh}	NORMAL WEIGHT		
			2,500	3,000	4,000
#3	2 1/4"	6"	0'-9"	0'-9"	0'-8"
#4	3"	8"	1'-0"	0'-11"	0'-10"
#5	3 3/4"	10"	1'-3"	1'-2"	1'-0"
#6	4 1/2"	12"	1'-6"	1'-5"	1'-3"
#7	5 1/4"	1'-2"	1'-9"	1'-8"	1'-5"
#8	6"	1'-4"	2'-0"	1'-10"	1'-7"
#9	9 1/2"	1'-7 1/2"	2'-3"	2'-1"	1'-10"
#10	10 3/4"	1'-10"	2'-7"	2'-4"	1'-11"
#11	12"	2'-0 1/2"	2'-10"	2'-7"	2'-3"

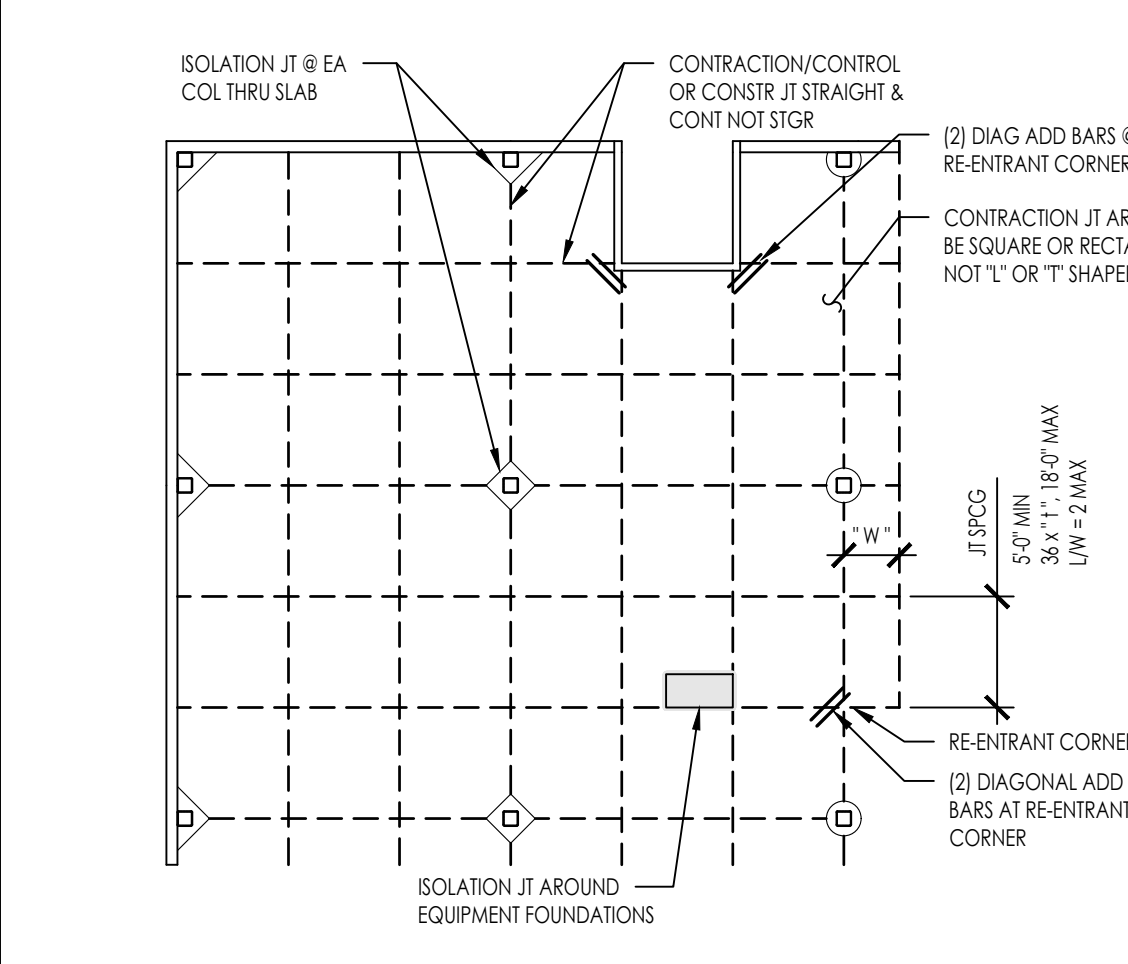
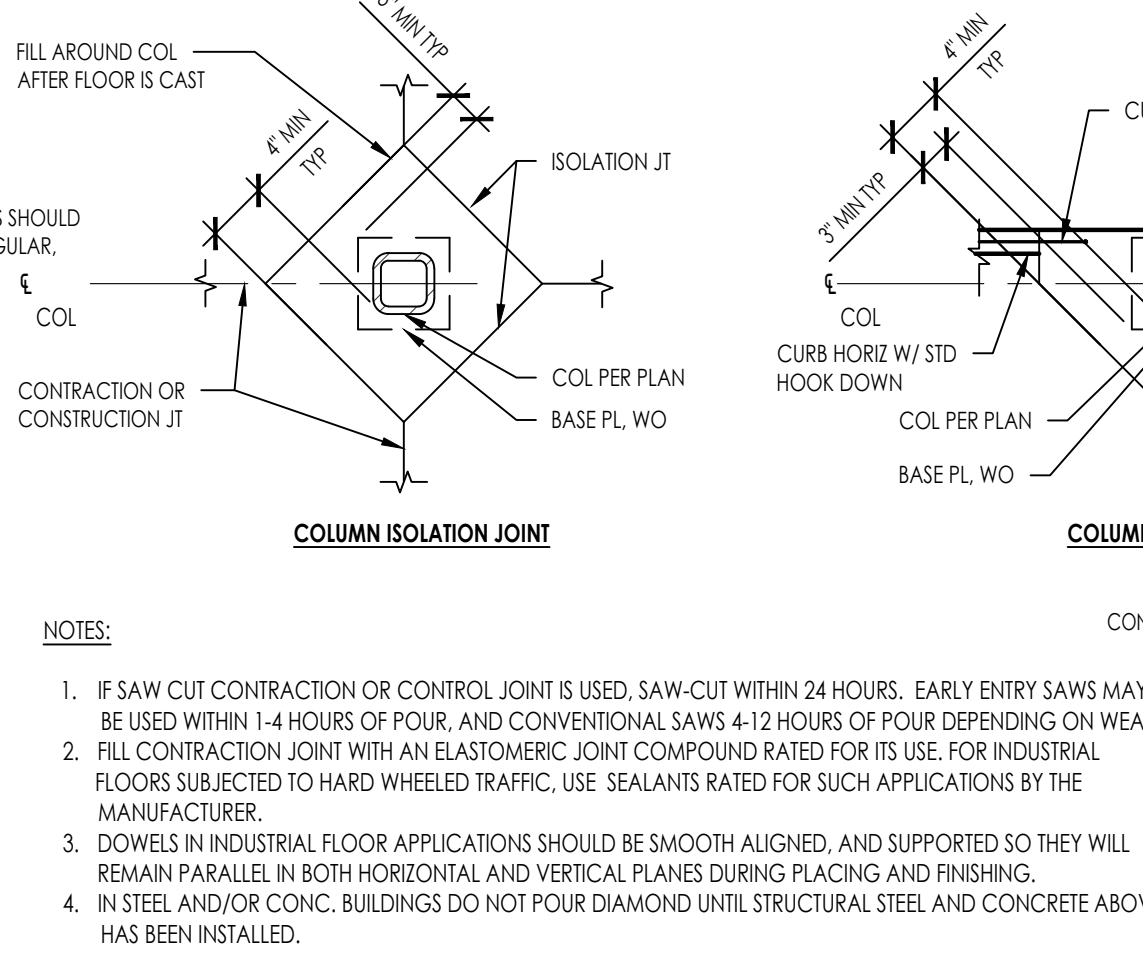
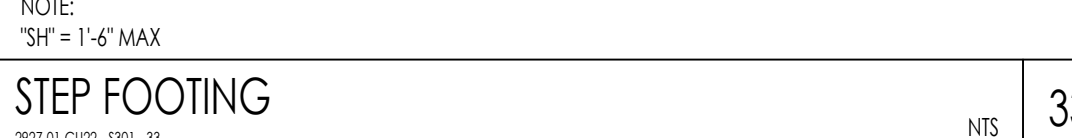
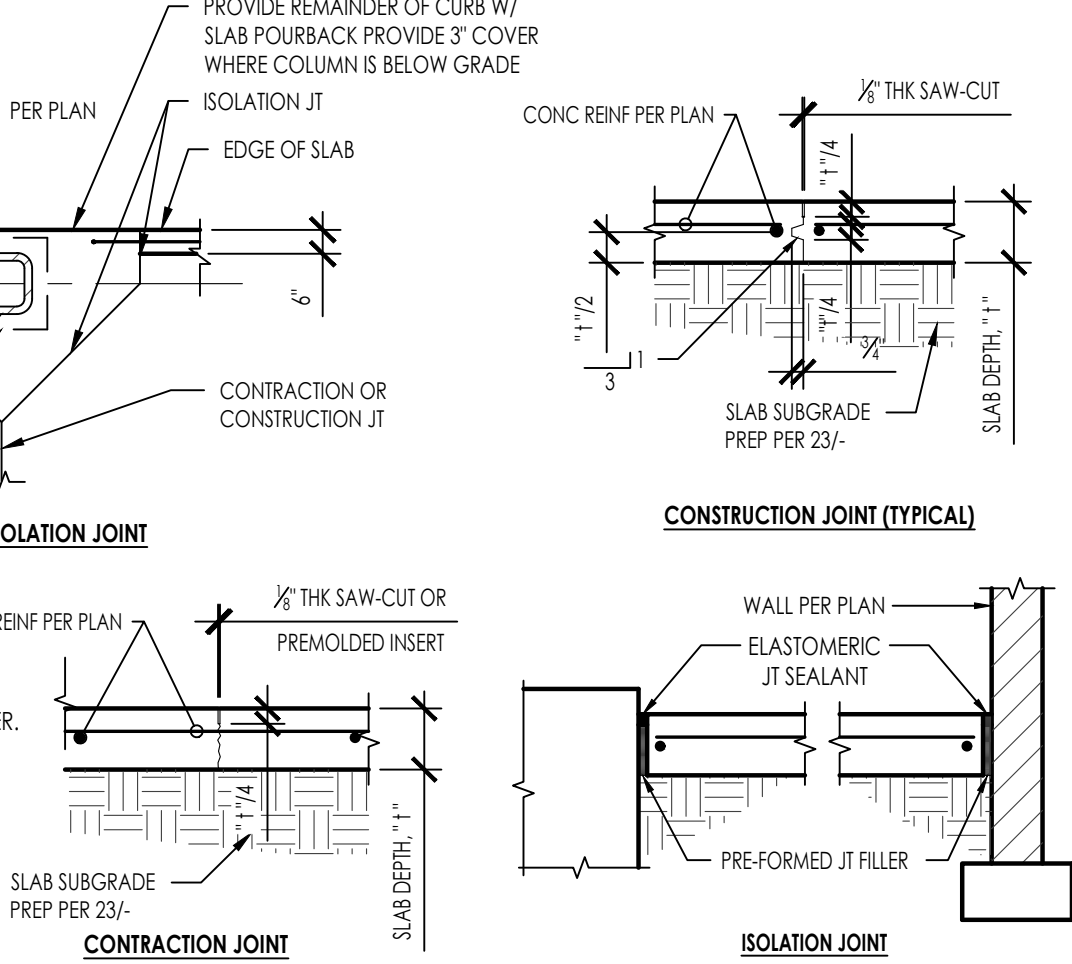
BAR SIZE	D
#3 THRU #8	6d
#9 THRU #11	8d

* PROVIDE 10d_b EXTENSIONS IN LIEU OF 6d_b AT ALL FRAME COLUMNS, GIRDERS, SHEAR WALLS AND SHEAR WALL BOUNDARY MEMBERS

STANDARD HOOK DEVELOPMENT LENGTH L_{dh}					
BAR SIZE	D	L_n	NORMAL WEIGHT		
			2,500	3,000	4,000
#3	2 1/4"	6"	0-9"	0-9"	0-8"
#4	3"	8"	1-0"	0-11"	0-10"
#5	3 3/4"	10"	1-3"	1-12"	1-0"
#6	4 1/2"	12"	1-6"	1-5"	1-3"
#7	5 1/4"	1-2"	1-9"	1-8"	1-5"
#8	6"	1-4"	2-0"	1-10"	1-2"
#9	9 1/2"	1-7 1/2"	2-3"	2-1"	1-10"
#10	10 3/4"	1-10"	2-7"	2-4"	2-1"
#11	12"	2-0 1/2"	2-10"	2-7"	2-3"

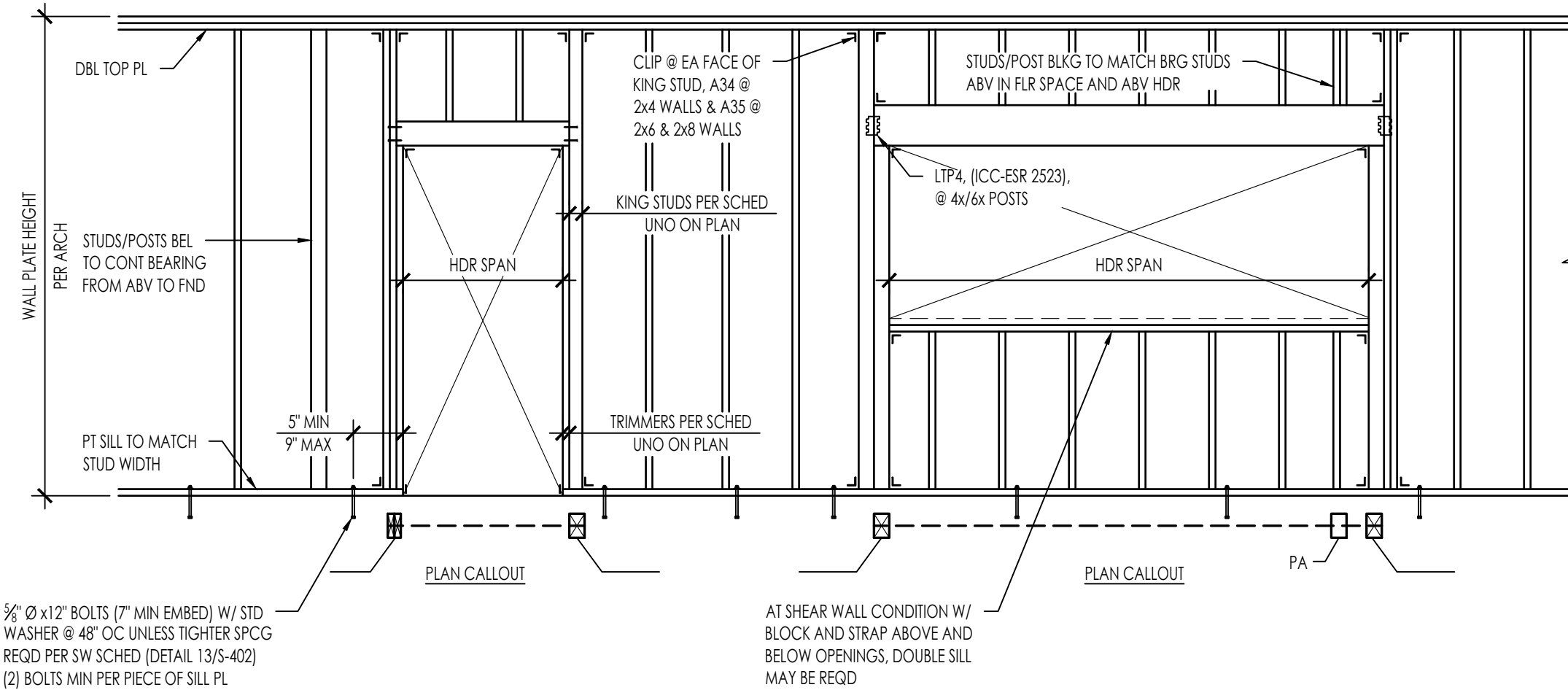


NOTE:
REINFORCEMENT SHOWN ON WALL ELEVATION(S),
BOUNDARY REINFORCING DETAILS, AND OTHER
SPECIFICALLY REFERENCED DETAILS SHALL TAKE
PRECEDENCE OVER REINFORCEMENT SHOWN HERE.



N:\2800\9899-01_C102-Coachella-Design-Services-ADU-Plans-Structural\ConDoc\Sheet\Files\2399-01_C102 - S401.dwg, S401.dwg, 2-Jan-16, 2024, 5:02pm, Alsupaz

BEARING/SHEAR WALL HEADER SCHEDULE					
1-STORY		6 INCH WALLS			
1-STORY	OPENING WIDTH	6x HEADER	SILL AT WINDOW	POST / TRIMMER	KING STUDS
	UP TO 3'-0"	6x4	2x	2x6	2x6
	3'-0" - 5'-0"	6x6	2x	2x6	2x6
	5'-0" - 7'-0"	6x8	(2) 2x	2x6	(2) 2x6



- NOTES:
- THIS DETAIL APPLIES AT ALL EXT WALLS AND INT LOAD BEARING WALLS AND ALSO APPLIES TO SHEAR WALL FRAMING.
 - FOR SHEAR WALLS SEE 34/5-402 FOR ADD'L REQUIREMENTS.
 - FOR INTERIOR NON-BEARING PARTITIONS SEE DETAIL 43/.
 - HEADERS, KING STUDS AND OTHER REFERENCES ON PLAN GOVERN OVER THIS TYPICAL SCHED/DETAILS
 - PROVIDE A34 @ 4" WALLS & A35 @ 6" OR GREATER WALLS (ICC-ESR 2353)

FASTENING SCHEDULE PER 2022 CBC 2304.10.2		
CONNECTION	FASTENING	LOCATION
1. BLOCKING BETWEEN CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	3-8d COMMON	EACH END, TOENAIL
2. BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TO TOP PLATE, TO RAFTER OR TRUSS	2-8d COMMON	EACH END, TOENAIL
3. FLAT BLOCKING TO TRUSS AND WEB FILLER	2-16d COMMON	END NAIL
4. CEILING JOIST TO TOP PLATE	16d COMMON @ 6" OC	FACE NAIL
5. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS	3-8d COMMON	EACH JOIST, TOENAIL
6. CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT)	3-16d COMMON	FACE NAIL
7. COLLAR TIE TO RAFTER	3-16d COMMON	FACE NAIL
8. RAFTER OR ROOF TRUSS TO PLATE	3-10d COMMON	TOENAIL ⁹
9. ROOF RAFTER TO RIDGE VALLEY OR HIP RAFTER; OR ROOF RAFTER TO 2-INCH RIDGE BEAM	2-16d COMMON	END NAIL
10. STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS	3-10d COMMON	TOENAIL
11. BUILT-UP HEADER (2" TO 2" HEADER)	16d COMMON	16" OC FACE NAIL
12. CONTINUOUS HEADER TO STUD	16d COMMON	16" OC EACH EDGE, FACE NAIL
13. TOP PLATE TO TOP PLATE	4-10d COMMON	TOENAIL
14. TOP PLATE TO TOP PLATE, AT END JOINTS	16d COMMON	16" OC FACE NAIL
15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING	8-16d COMMON	EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
16. STUD TO TOP OR BOTTOM PLATE	2-16d COMMON	16" OC FACE NAIL
17. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	4-8d COMMON	TOENAIL
18. JOIST TO SILL, TOP PLATE, OR GIRDER	2-16d COMMON	END NAIL
20. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	2-16d COMMON	FACE NAIL
21. 1"x6" SUBFLOOR OR LESS TO EACH JOIST	3-8d COMMON	TOENAIL
22. 2" SUBFLOOR TO JOIST OR GIRDER	8d COMMON	6" OC, TOENAIL
23. BUILT-UP GIRDER AND BEAMS, 2" LUMBER LAYERS	2-8d COMMON	FACE NAIL
24. LEDGER STRIP SUPPORTING JOIST OR RAFTERS	2-16d COMMON	FACE NAIL
26. JOIST TO BAND JOIST OR RIM JOIST	20d COMMON (4" x 0.192")	32" OC FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDE
27. BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS	3-16d COMMON	EACH JOIST OR RAFTER, FACE NAIL
	2-8d COMMON	END NAIL
		EACH END, TOENAIL

- NOTES:
- 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 OTHERWISE STATED
 - WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL

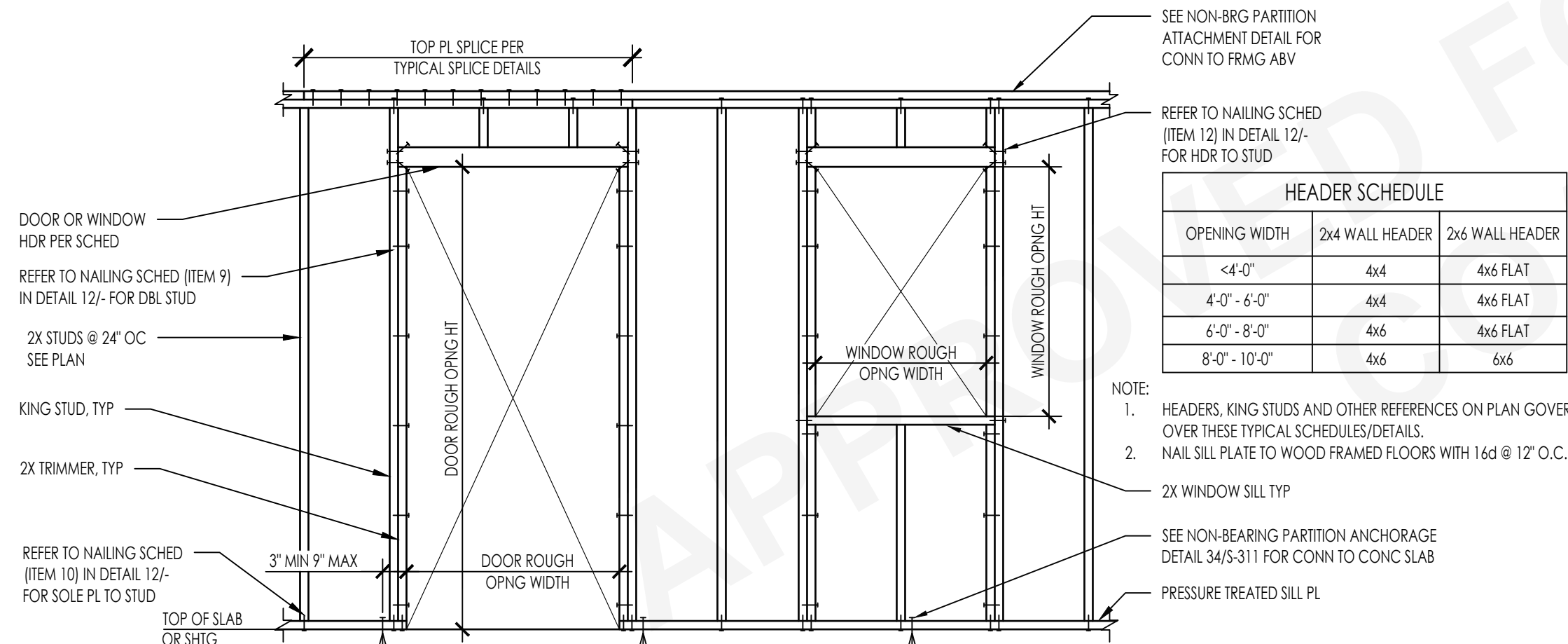


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EXTERIOR WALL / INTERIOR WALL BEARING WALL FRAMING

2937-01-C102 - S401 - 32

NTS 32

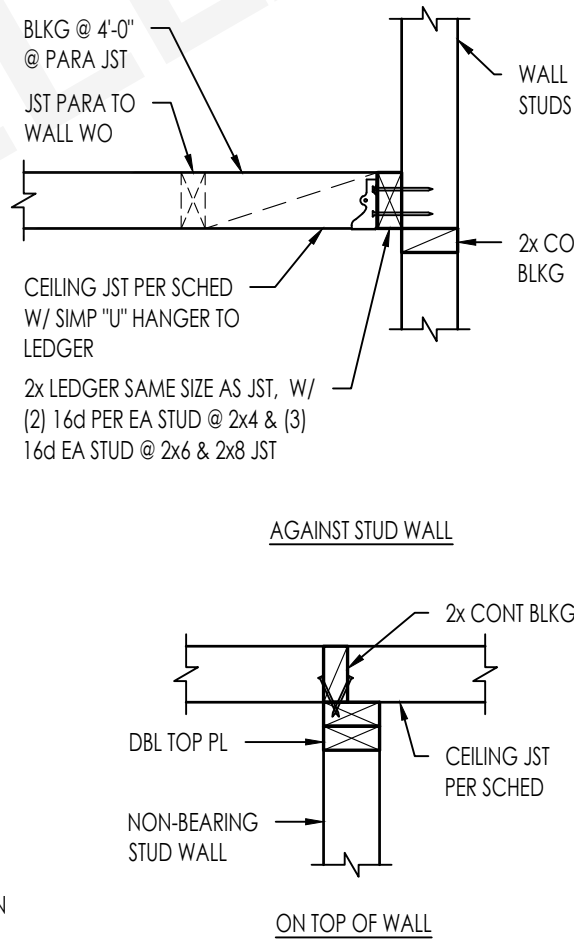


HEADER SCHEDULE		
OPENING WIDTH	2x4 WALL HEADER	2x6 WALL HEADER
<4'-0"	4x4	4x6 FLAT
4'-0" - 6'-0"	4x4	4x6 FLAT
6'-0" - 8'-0"	4x6	4x6 FLAT
8'-0" - 10'-0"	4x6	6x6

- NOTE:
- HEADERS, KING STUDS AND OTHER REFERENCES ON PLAN GOVERN OVER THESE TYPICAL SCHEDULES/DETAILS.
 - NAIL SILL PLATE TO WOOD FRAMED FLOORS WITH 16d @ 12" O.C.

CEILING JOIST SCHED	
JOIST SIZE	MAX SPAN
2x4 @ 16" OC	9'-0"
2x6 @ 16" OC	14'-0"
2x8 @ 16" OC	18'-0"

NOTE: THIS DETAIL IS INTENDED FOR CEILING JOIST THAT SPAN FROM WALL TO WALL @ CONTRACTORS OPTION



INTERIOR NON-BEARING PARTITION WALL FRAMING

2937-01-C102 - S401 - 43

NTS 43

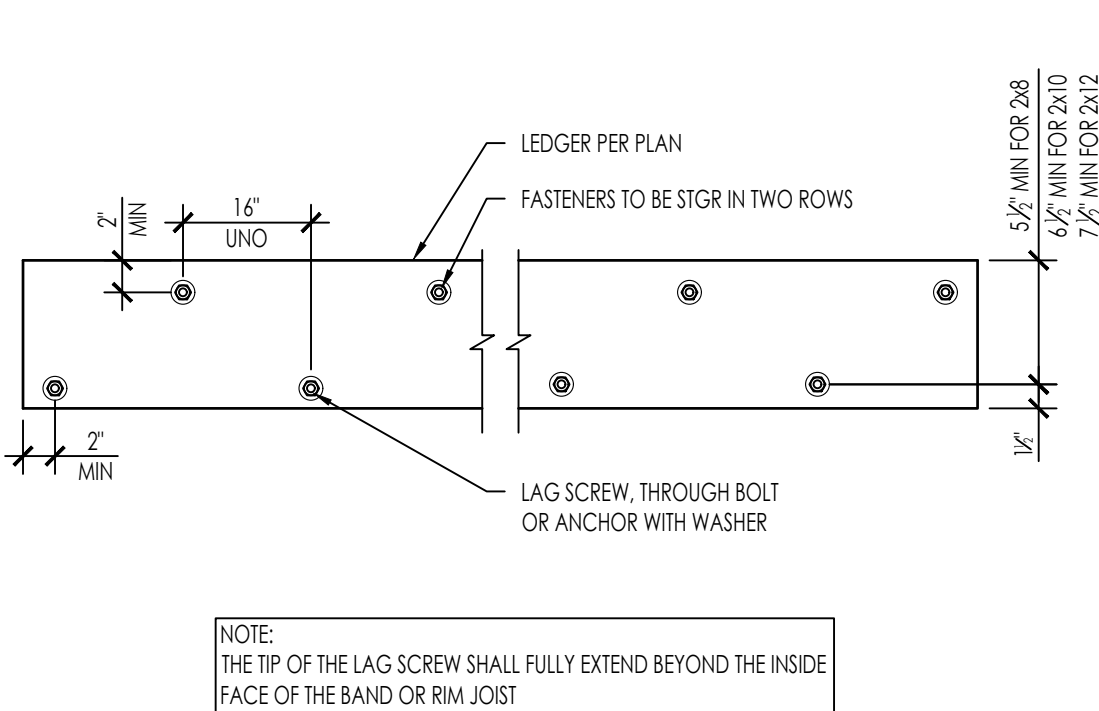
CEILING JOIST SCHED & DETAILS

2937-01-C102 - S401 - 33

NTS 33

TYPICAL WOOD STUD INTERSECTIONS

2937-01-C102 - S401 - 23



NOTE: THE TIP OF THE LAG SCREW SHALL FULLY EXTEND BEYOND THE INSIDE FACE OF THE BAND OR RIM JOIST

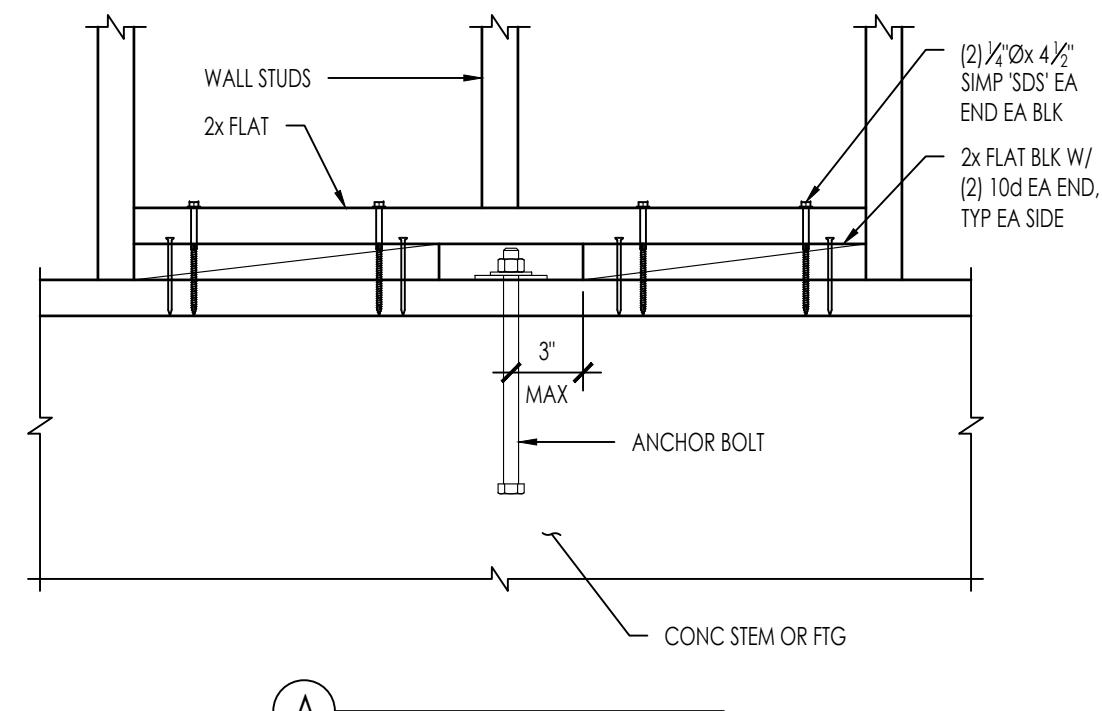
LEDGER DETAIL

2937-01-C102 - S401 - 24

NTS 24

MULTI-PLY MEMBER CONNECTION

2937-01-C102 - S401 - 13



A

ANCHOR BOLT AT WOOD STUD

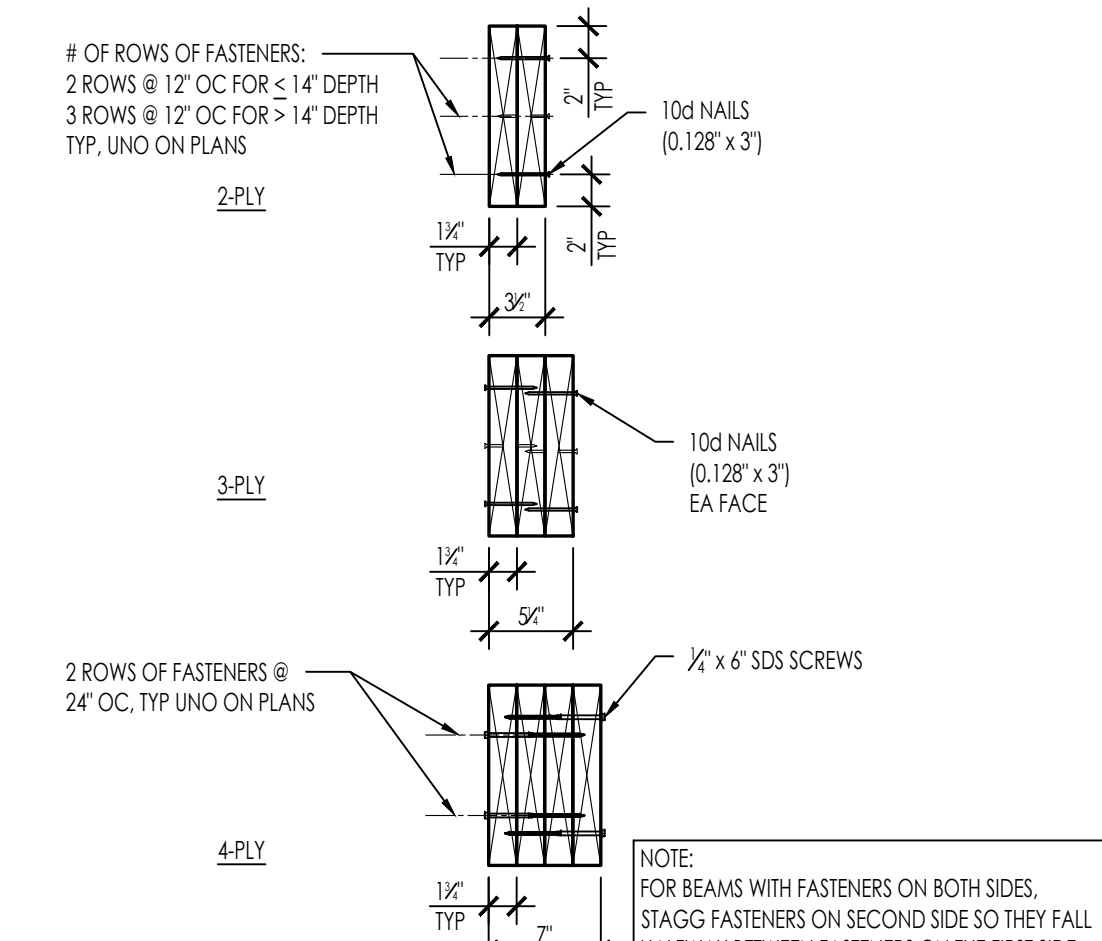
2937-01-C102 - S401 - 14

NTS 14

NAILING SCHEDULE

2937-01-C102 - S401 - 12

22



COACHELLA ADUS

COACHELLA, CA

TYPICAL WOOD DETAILS

DATE
JANUARY 11, 2024
SHEET

S-401

PUBLIC SET

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COACHELLA ADUS

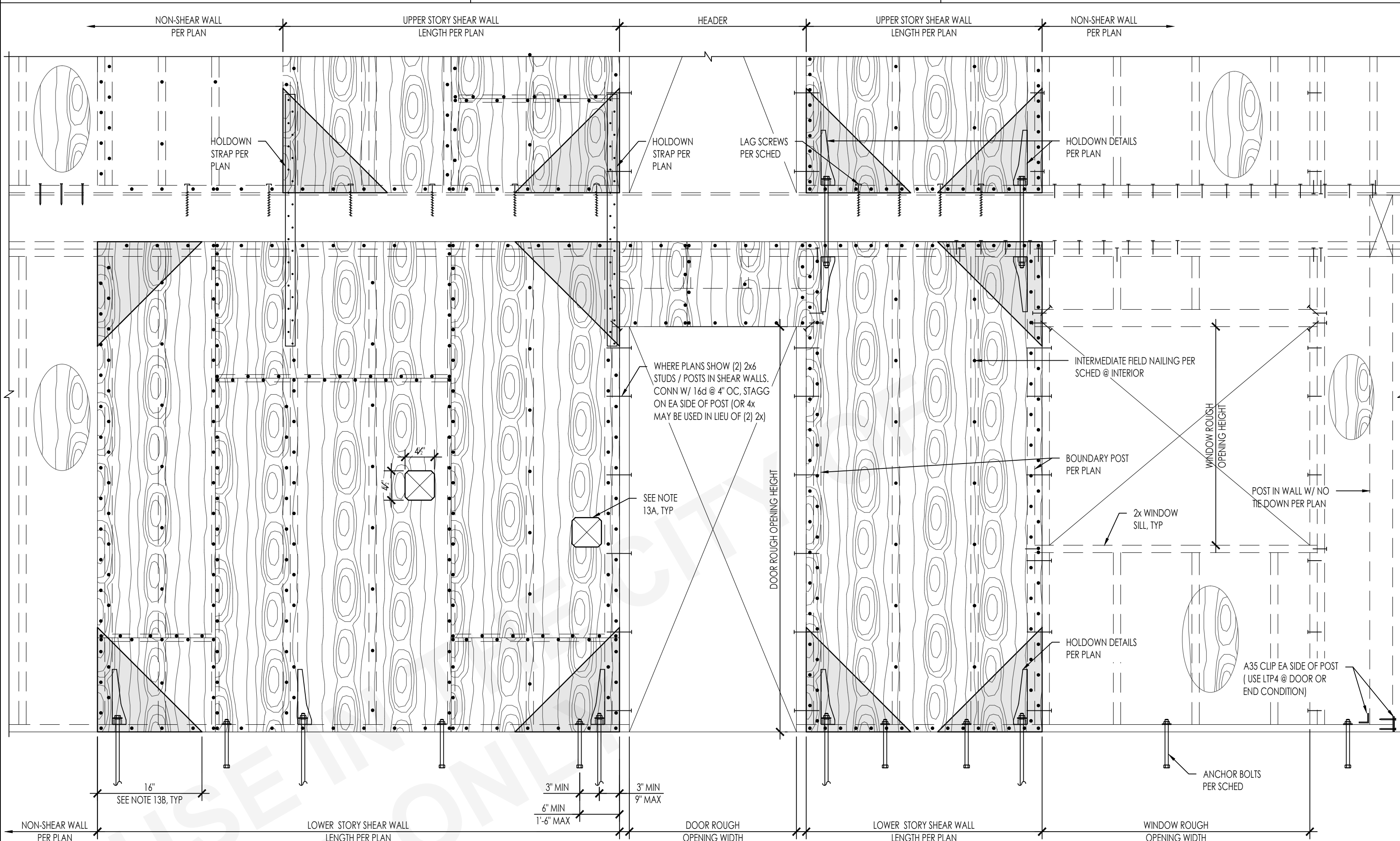
COACHELLA, CA

TYPICAL WOOD DETAILS

DATE
JANUARY 11, 2024
SHEET

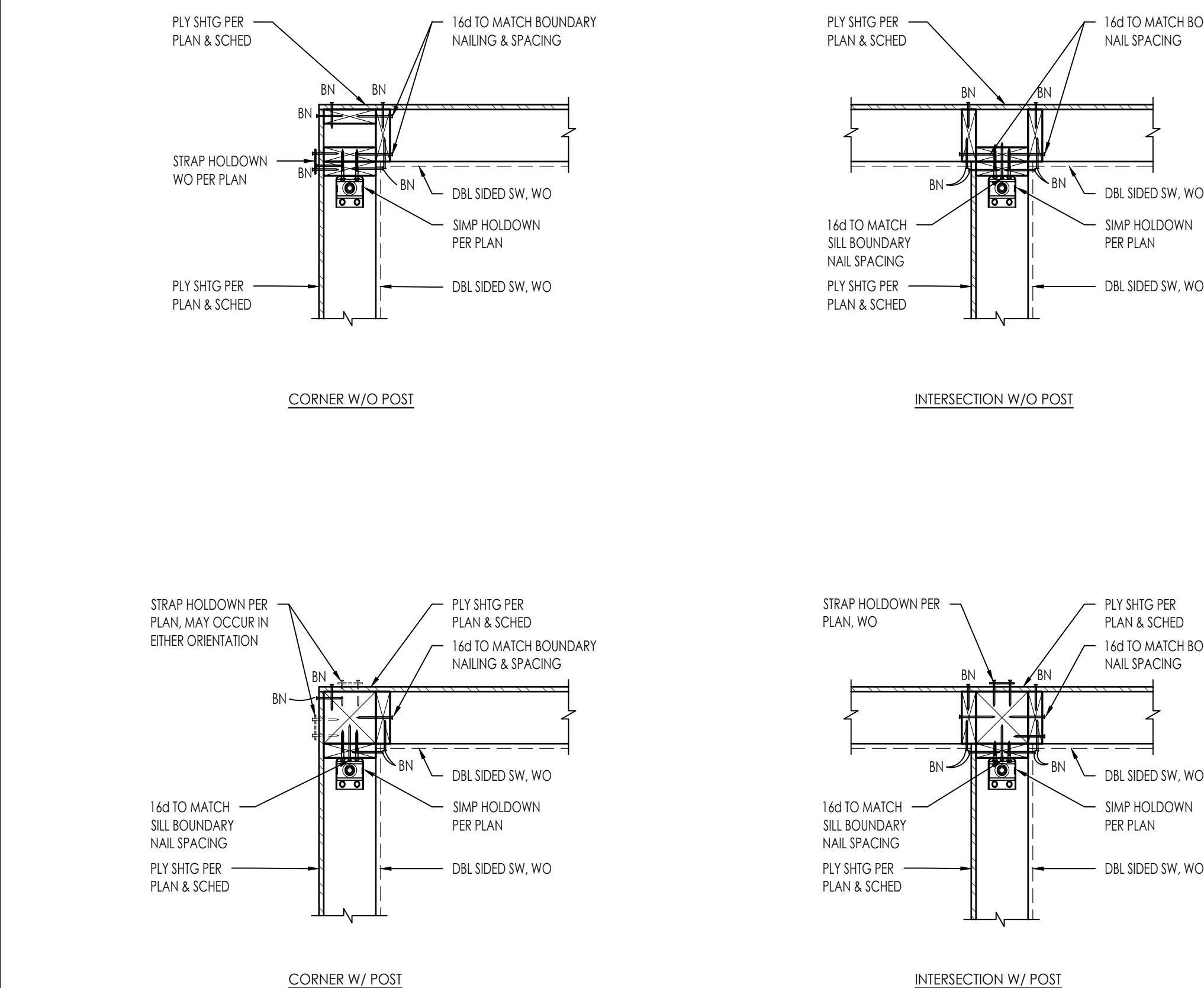
S-402

PUBLIC SET



SHEAR WALL SHEATHING / NAILING SCHEDULE									
WALL SYMBOL	STRUCT SHEATHING	1,12 FRAMING SIZE	6 NAILING		2,3,4 SILL NAILING		7 SDS SCREWS 14 OPTION	A35s	10, 11 ANCHOR BOLTING
			(2) 2x STUD	EDGE	INTERMEDIATE SUPPORTS	NAILS /LAG SCREWS			
△	15/32' STRUCT 1 PLYWOOD	2x	10d @ 9' OC	8d @ 6' OC	8d @ 12' OC	16d @ 6' OC	12' OC	24' OC	5/8" DIA @ 48" OC
△	15/32' STRUCT 1 PLYWOOD	2x	10d @ 8' OC	10d @ 6' OC	10d @ 12' OC	5/8" LAG SCREWS @ 16' OC	12' OC	16' OC	5/8" DIA @ 48" OC
△	15/32' STRUCT 1 PLYWOOD	2x	10d @ 5' OC	10d @ 4' OC	10d @ 12' OC	5/8" LAG SCREWS @ 16' OC	8' OC	12' OC	5/8" DIA @ 32' OC
△	15/32' STRUCT 1 PLYWOOD	2x	10d @ 4' OC	10d @ 3' OC	10d @ 12' OC	5/8" LAG SCREWS @ 16' OC	6' OC	8' OC	5/8" DIA @ 32' OC
△	15/32' STRUCT 1 PLYWOOD	2x	10d @ 3' OC	10d @ 2' OC	10d @ 12' OC	5/8" LAG SCREWS @ 8' OC	4' OC	8' OC	5/8" DIA @ 24' OC
△	15/32' STRUCT 1 PLYWOOD (EACH FACE OF WALL)	3x	(2) 10d @ 5' OC	10d @ 4' OC	10d @ 12' OC	5/8" LAG SCREWS @ 8' OC	(2) @ 8' OC *	6' OC	5/8" DIA @ 16' OC
△	15/32' STRUCT 1 PLYWOOD (EACH FACE OF WALL)	3x	(2) 10d @ 4' OC	10d @ 3' OC	10d @ 8' OC	5/8" LAG SCREWS @ 8' OC	(2) @ 6' OC *	A34 @ 4' OC	5/8" DIA @ 16' OC
△	15/32' STRUCT 1 PLYWOOD (EACH FACE OF WALL)	3x	(2) 10d @ 3' OC	10d @ 2' OC	10d @ 6' OC	5/8" LAG SCREWS @ 6' OC	(2) @ 4' OC *	16' OC	5/8" DIA @ 8' OC

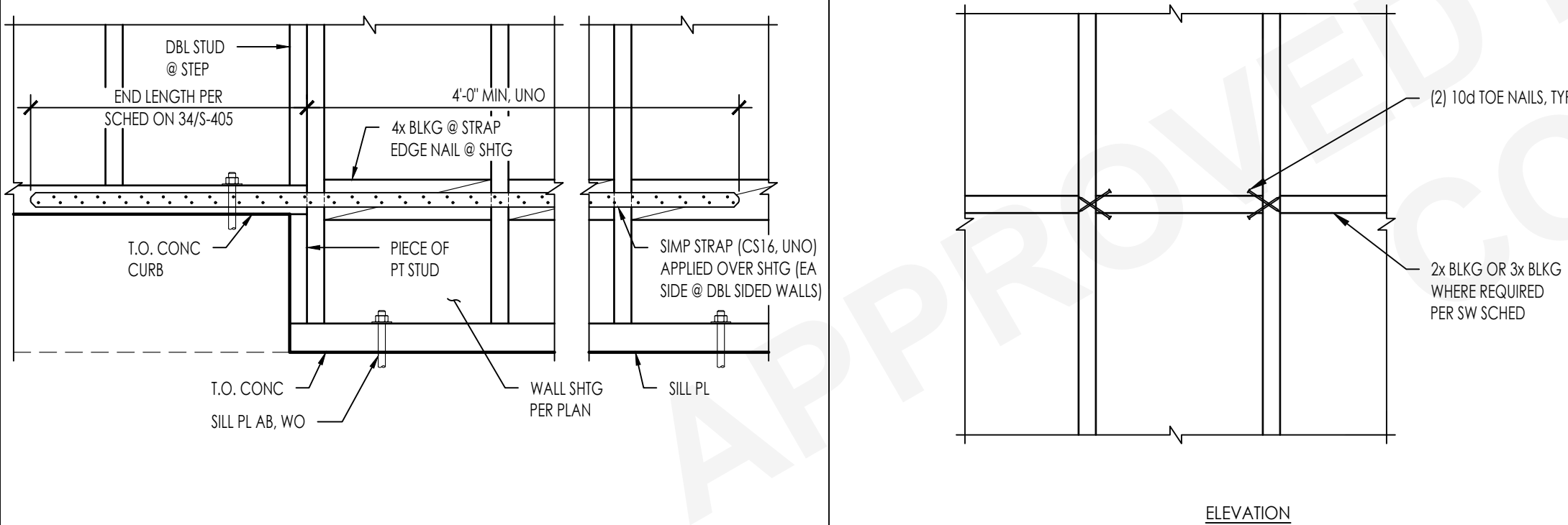
- NOTES:
- ALL PLYWOOD SHALL BE 5 PLY MINIMUM WITH A SPAN RATING OF 32/16 AND ALL PANEL EDGES SHALL BE BLOCKED. PROVIDE 1/8" GAP AT ALL PANEL JOINTS.
 - 8d NAIL DEFINED AS 0.131" DIAMETER SHANK x 2 1/2" LONG x 0.281" DIAMETER HEAD.
 - 10d NAIL DEFINED AS 0.148" DIAMETER SHANK x 3" LONG x 0.312" DIAMETER HEAD.
 - PROVIDE E.N. AT ALL END STUDS, STUDS/POSTS WITH HOLDOWNS OR TIE DOWN STRAPS, SILL PLATES AND TOP PLATES.
 - WHERE 10d NAILS ARE 3 INCHES ON CENTER OR LESS, NAILS SHALL BE STAGGERED.
 - NAILS SHALL BE 1/2 INCH MINIMUM FROM PLYWOOD PANEL EDGE AND 3/8 INCH MINIMUM FROM CONNECTING MEMBER EDGE WHERE SHEAR EXCEEDS 300 PLF.
 - USE 3x FRAMING AT BOTTOM SILL PLATES, BLOCKING AND ALL STUDS AT ADJACENT PANEL EDGES WHERE SHEAR EXCEEDS 700 PLF. STRUCTURALLY ACCEPTABLE TO USE (2) 2x INSTEAD OF 3x FRAMING AT BOTTOM SILL PLATES.
 - WHERE SILL SHEAR TRANSFER IS THROUGH LAG SCREWS, SILL PLATE SHALL BE A MINIMUM OF 2 1/2" THICK.
 - LAG SCREWS SHALL BE 6 INCHES LONG AND HOLES ARE TO BE PRE-DRILLED AS TO NOT SPLIT BLOCKING/RIM.
 - SEE ELEVATION ABOVE FOR TYPICAL CONSTRUCTION.
 - REFER TO PLATE WASHER DETAIL FOR REQUIREMENTS.
 - LENGTHEN ANCHOR BOLTS AS REQUIRED FOR EMBEDMENT AND SILL PLATE THICKNESS.
 - ORIENTED STRAND BOARD (OSB) MAY BE SUBSTITUTED FOR PLYWOOD NOTED ABOVE PROVIDED IT IS RATED BY APA'S PERFORMANCE STANDARD RATING AND IS OF THE SAME NUMBER OF LAYERS AS PLYWOOD PLY INDICATED.
 - LIMITATIONS OF MECHANICAL PENETRATIONS IN SHEAR WALLS:
 - A. 4 1/2" MAX PENETRATION
 - B. NO CUTS OR HOLES IN SHEATHING WITHIN 16" OF CORNERS. SQUARE PENETRATIONS SHALL RADIUS EDGES. DO NOT OVER CUT HOLE WITH SAW.
 - ASSUMES A 1 1/4" MIN LSL RIM BOARD. FASTENER EDGE DIST IS 5/8" MIN & 6" END DISTANCE MIN. 2" MIN PENETRATION INTO RIM BOARD.
 - WALL W/ DOUBLE SIDED PLYWOOD REQUIRE (2) RIM BOARDS.
 - SIMPSON LTP4 CLIP SHALL BE INSTALLED IN A HORIZONTAL ORIENTATION. IF CLIP IS INSTALLED OVER THE SHEATHING, 0.131" x 2 1/2" NAILS SHALL BE USED.



SHEAR WALL INTERSECTION

NTS

42



STRAP AT STEP IN SHEAR WALL SILL PLATE

NTS

TYPICAL BLOCKING DETAIL

NTS

43

TYPICAL SHEAR WALL ELEVATION AND SCHEDULE

NTS

13

MARK	# OF BLKG	SIMPSON STRAP	NAILS EA SIDE OF OPENING	STRAP LENGTH (IN)	ALLOWABLE TENSION LOADS (LBS)
▽	1	CS20	(12) 10d x 2 1/2"	32'	1,030
▽	1	CS16	(20) 10d x 2 1/2"		1,705
▽	1	CS14	(26) 10d x 2 1/2"		2,490
▽	2	CMSTC16	(50) 10d x 3 1/2"		4,690
▽	2	CMST14	(66) 10d x 2 1/2"	39'	6,475
▽	2	CMST12	(86) 10d x 2 1/2"		9,215

- NOTES:
- 2 BAYS OR 32" MIN STRAP LENGTH
 - EDGE NAILING FROM PLYWOOD TO STUDS / FRAMING SHALL OCCUR ALL AROUND OPENINGS AT THIS CONDITION
 - SEE TYPICAL SHEAR WALL ELEVATION FOR BALANCE OF INFO NOT SHOWN

FORCE TRANSFER AROUND OPENINGS

NTS

44

PLATE WASHER DETAIL

NTS

34

DOUBLE SIDED SHEAR WALL

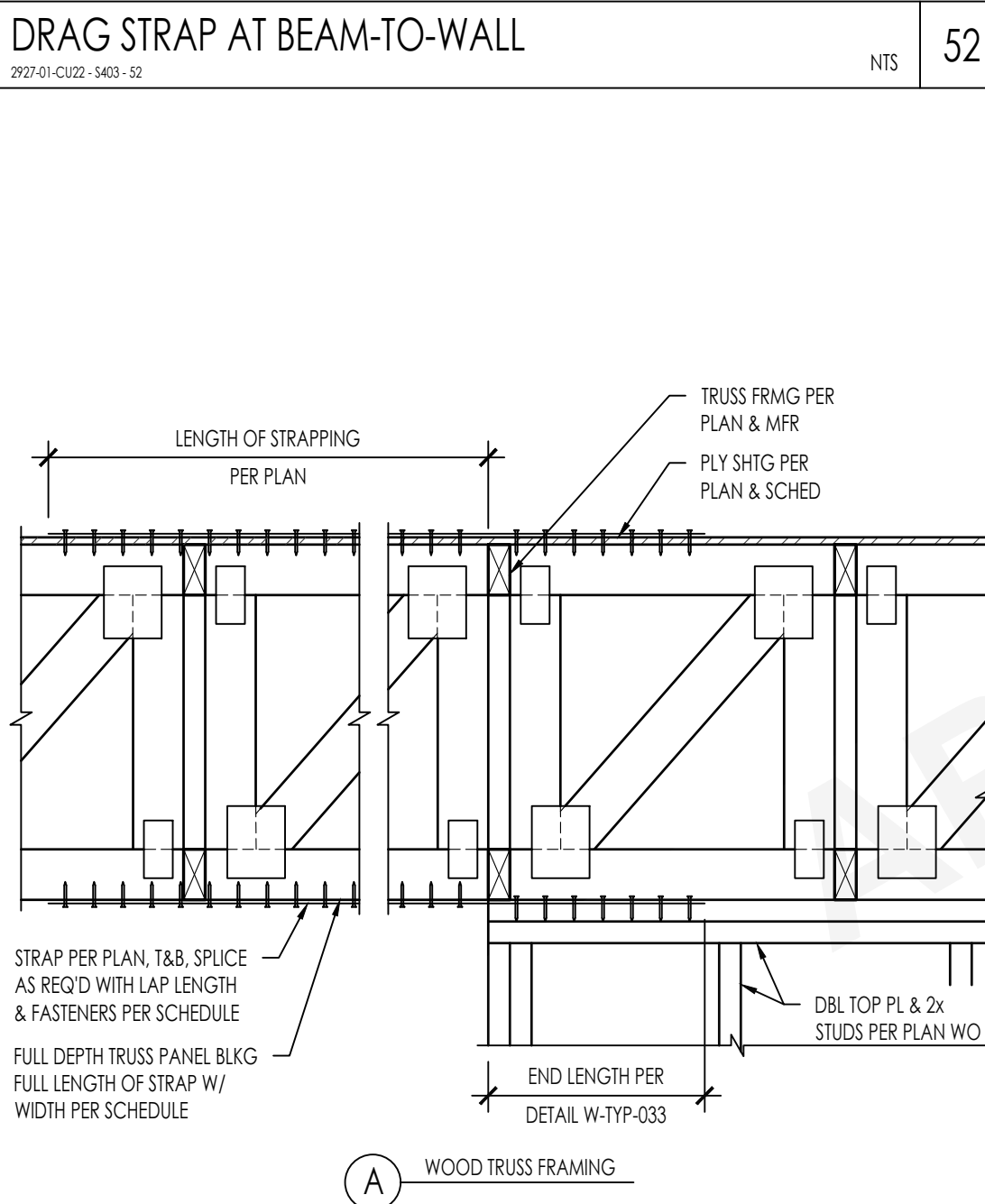
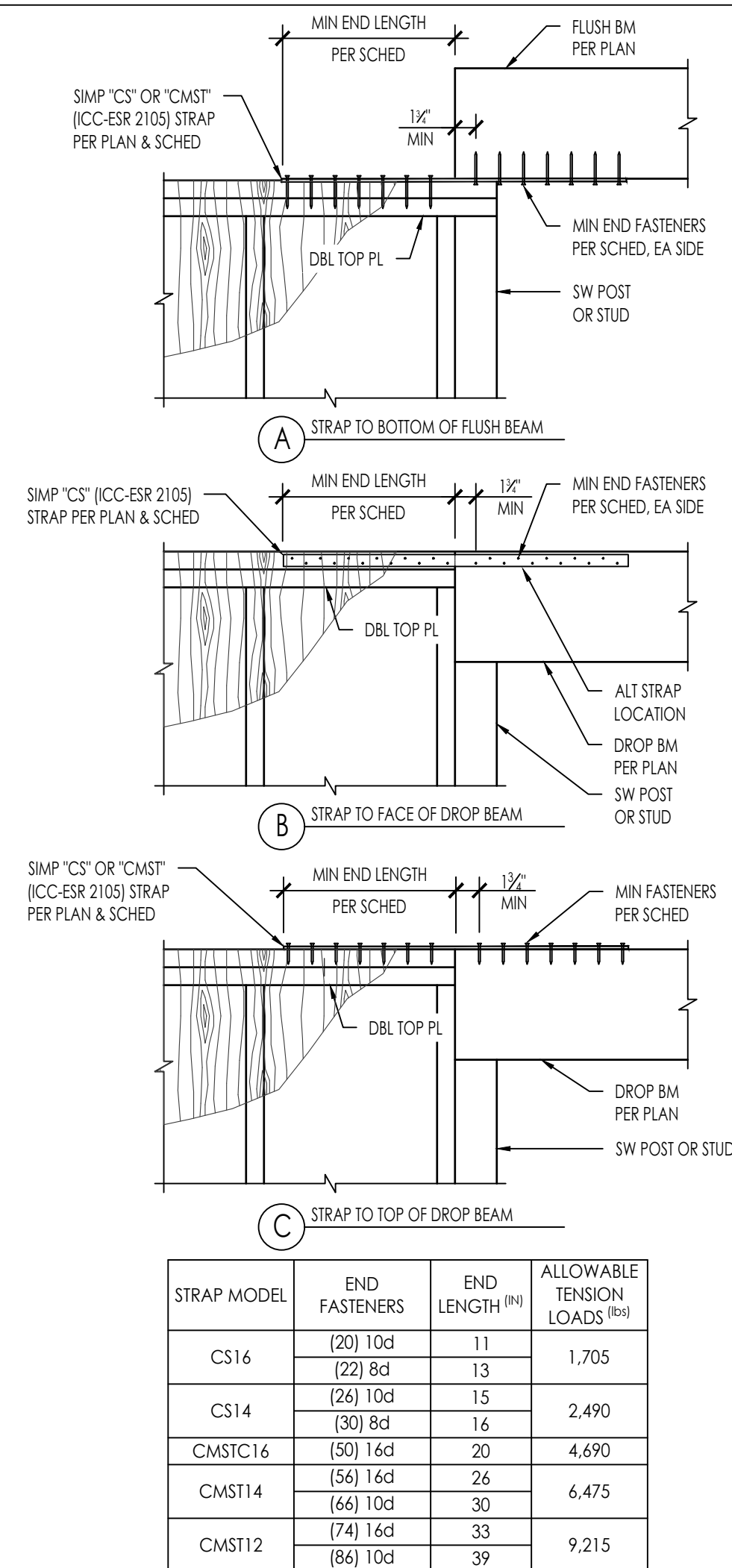
NTS

24

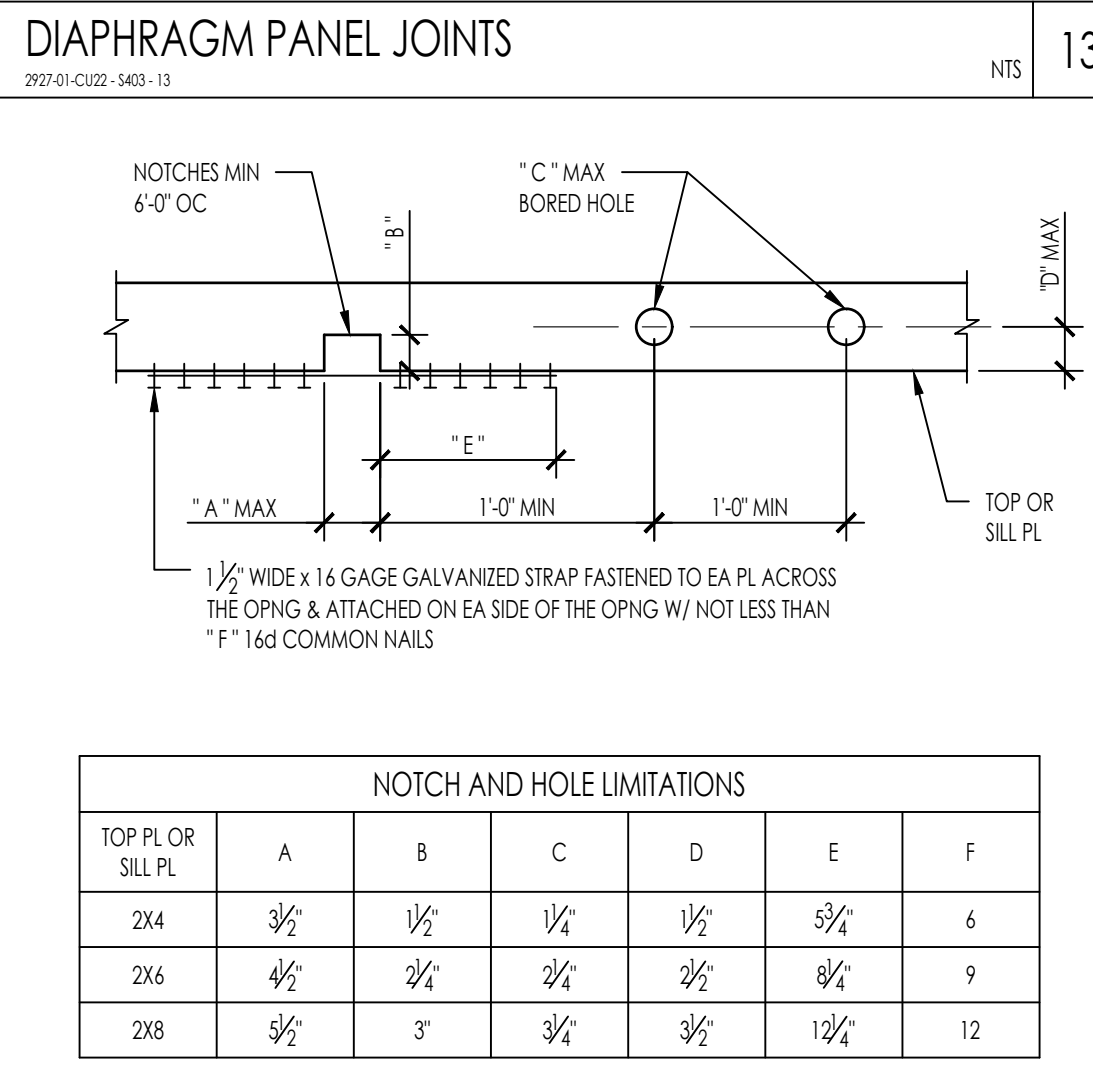
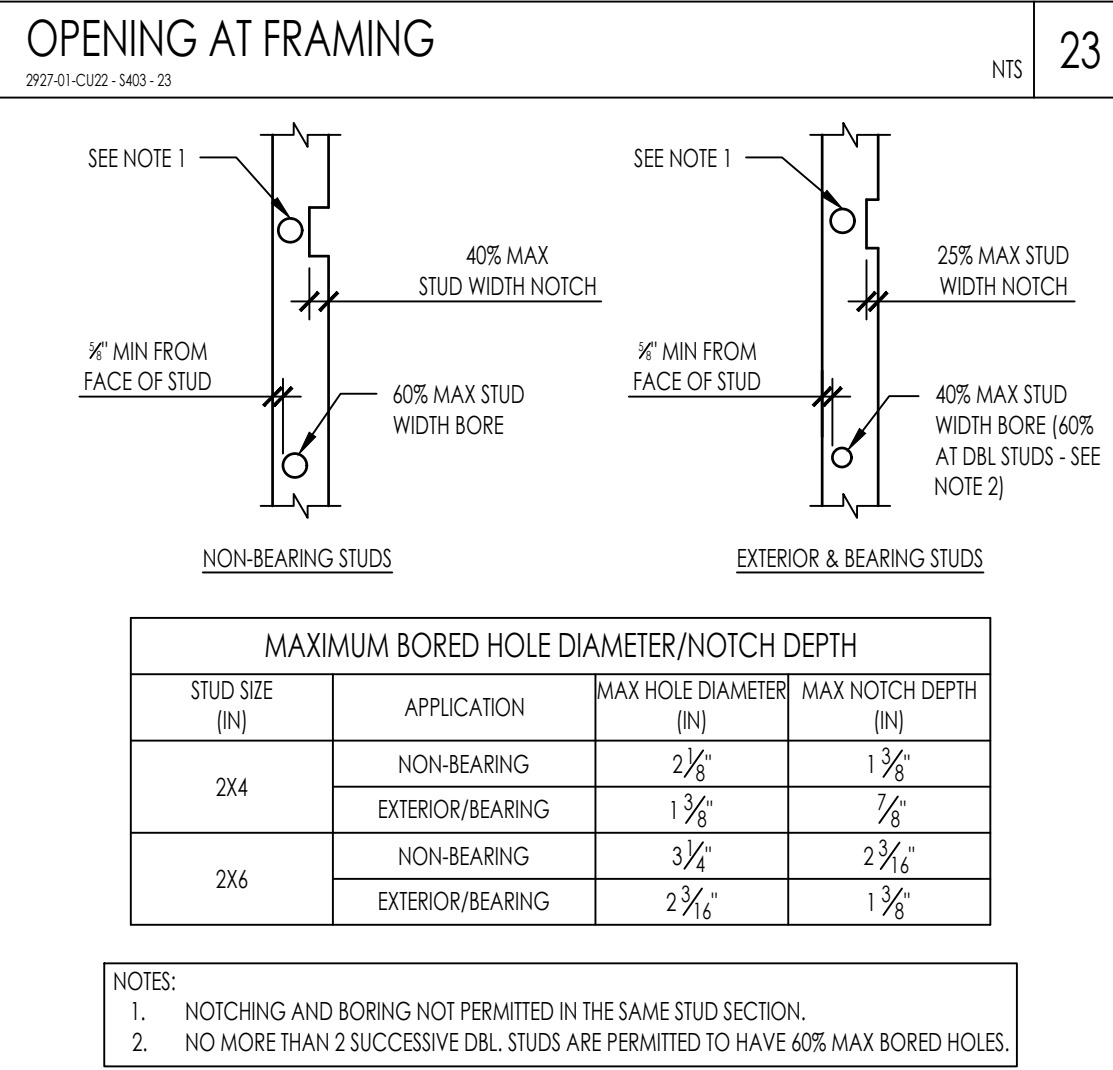
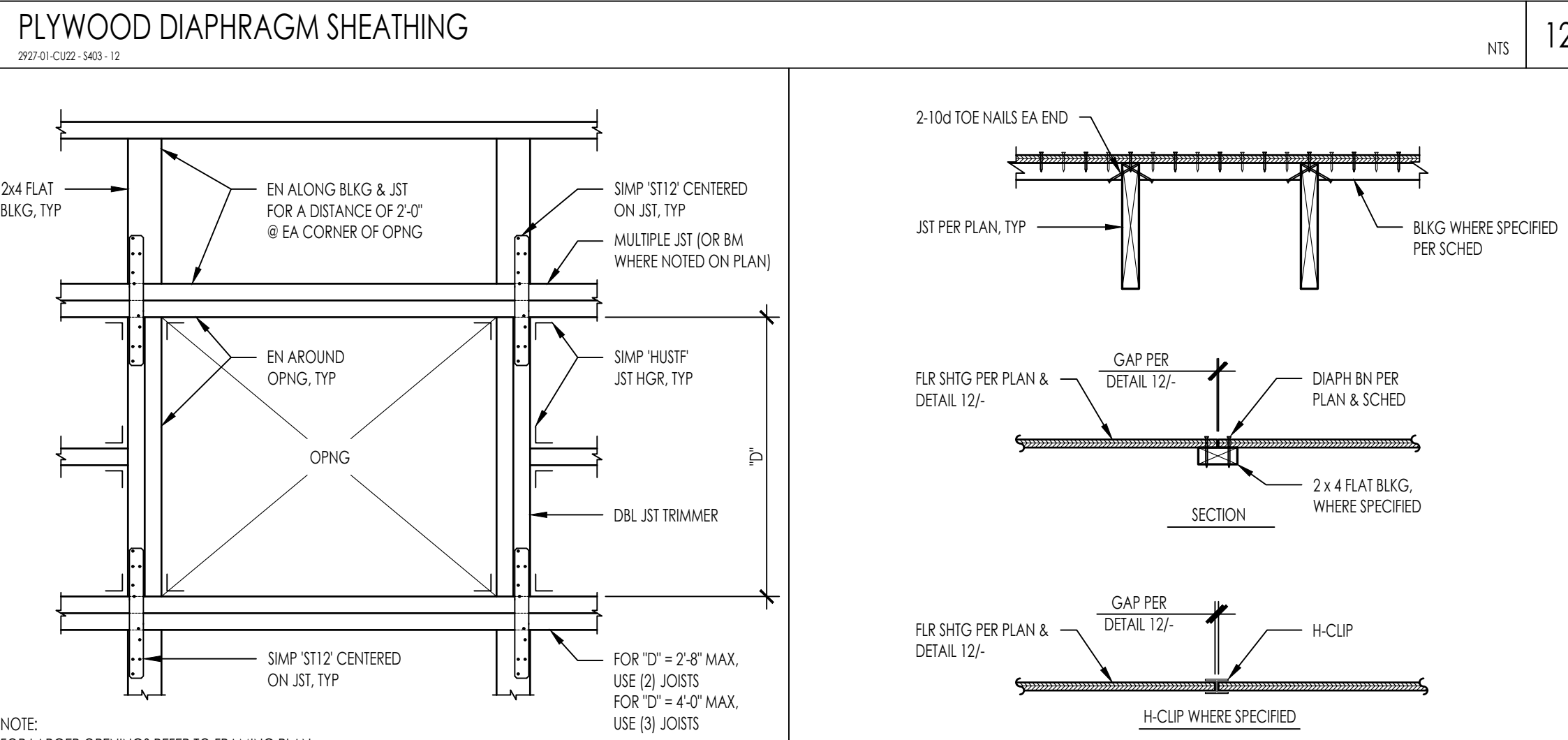
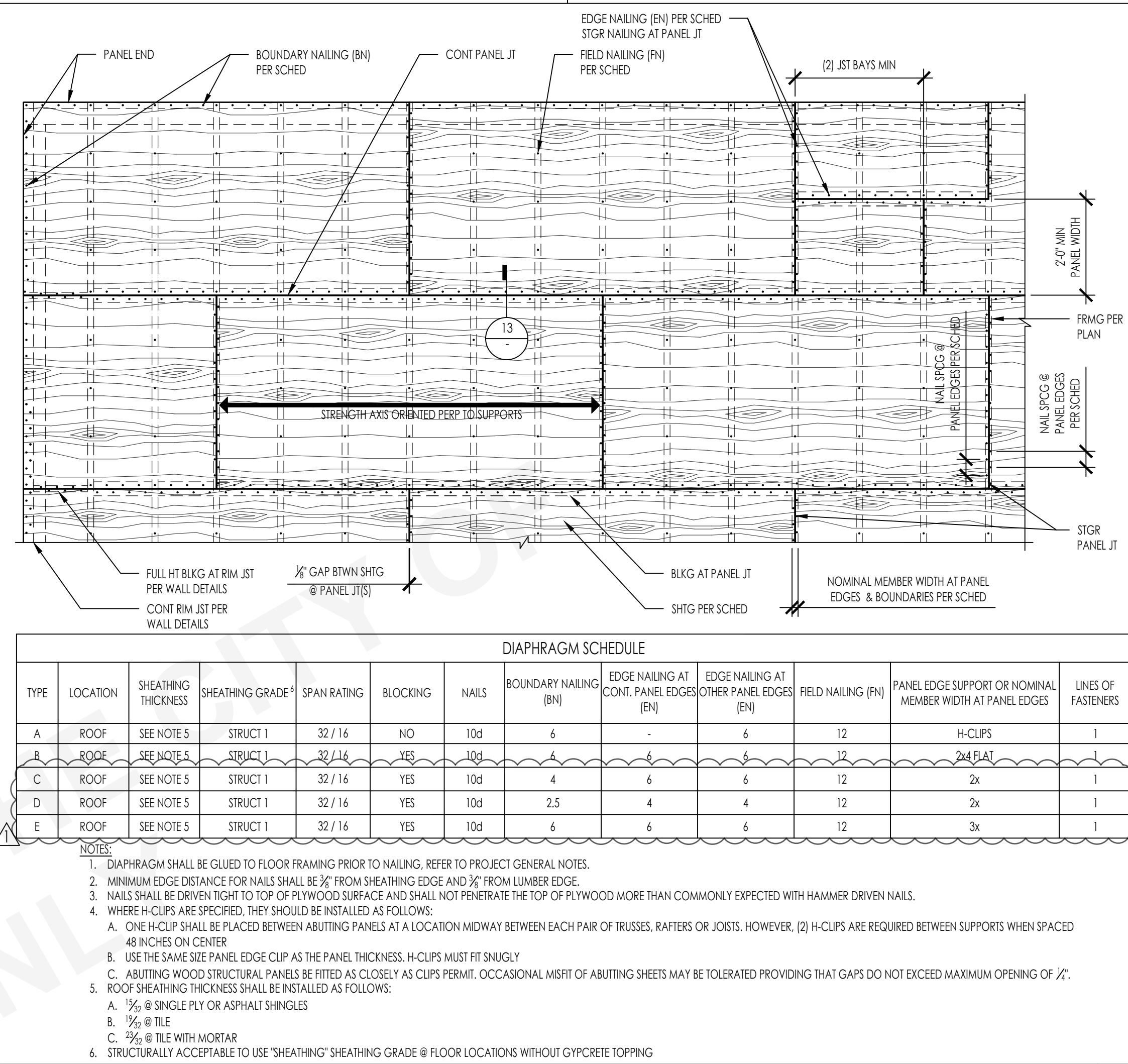
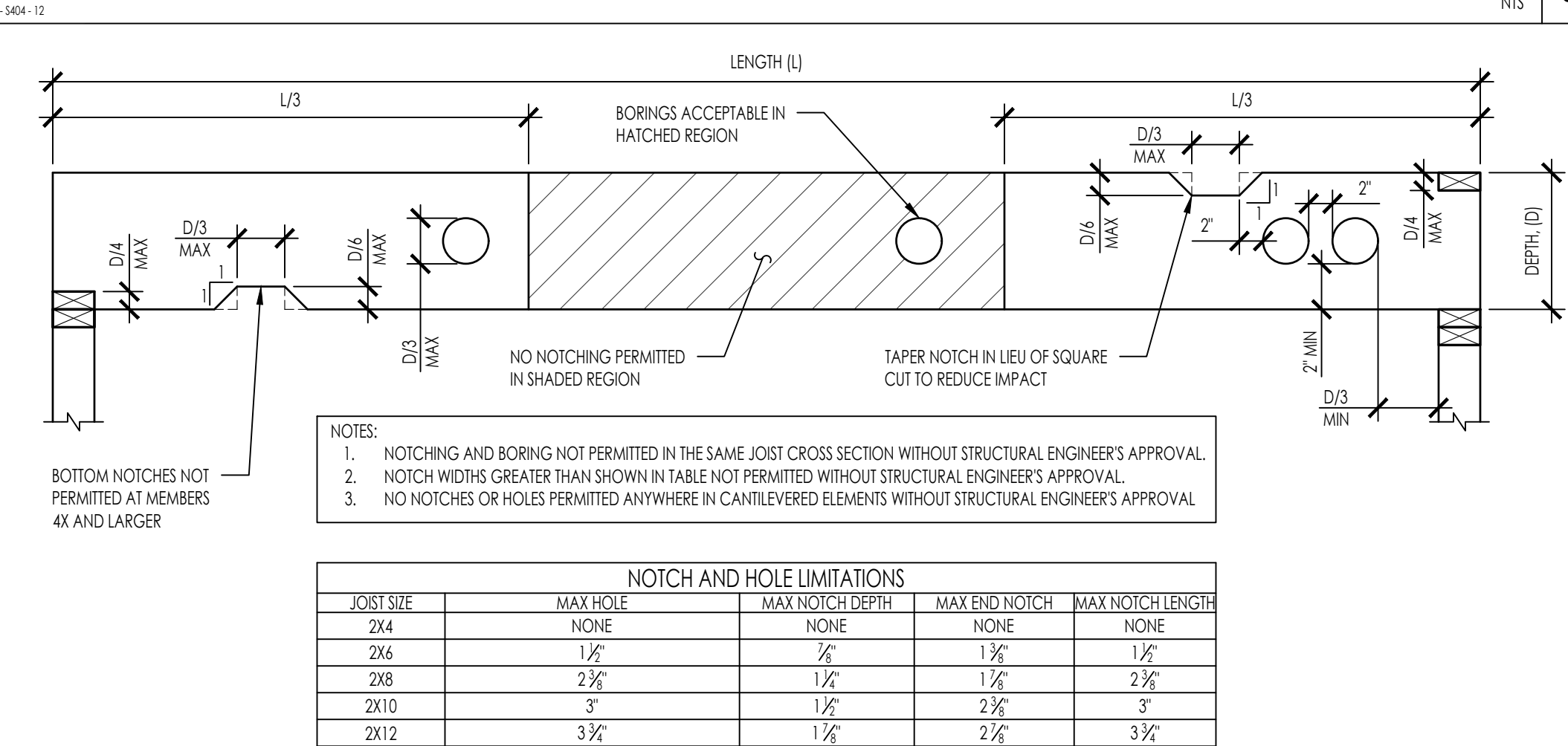
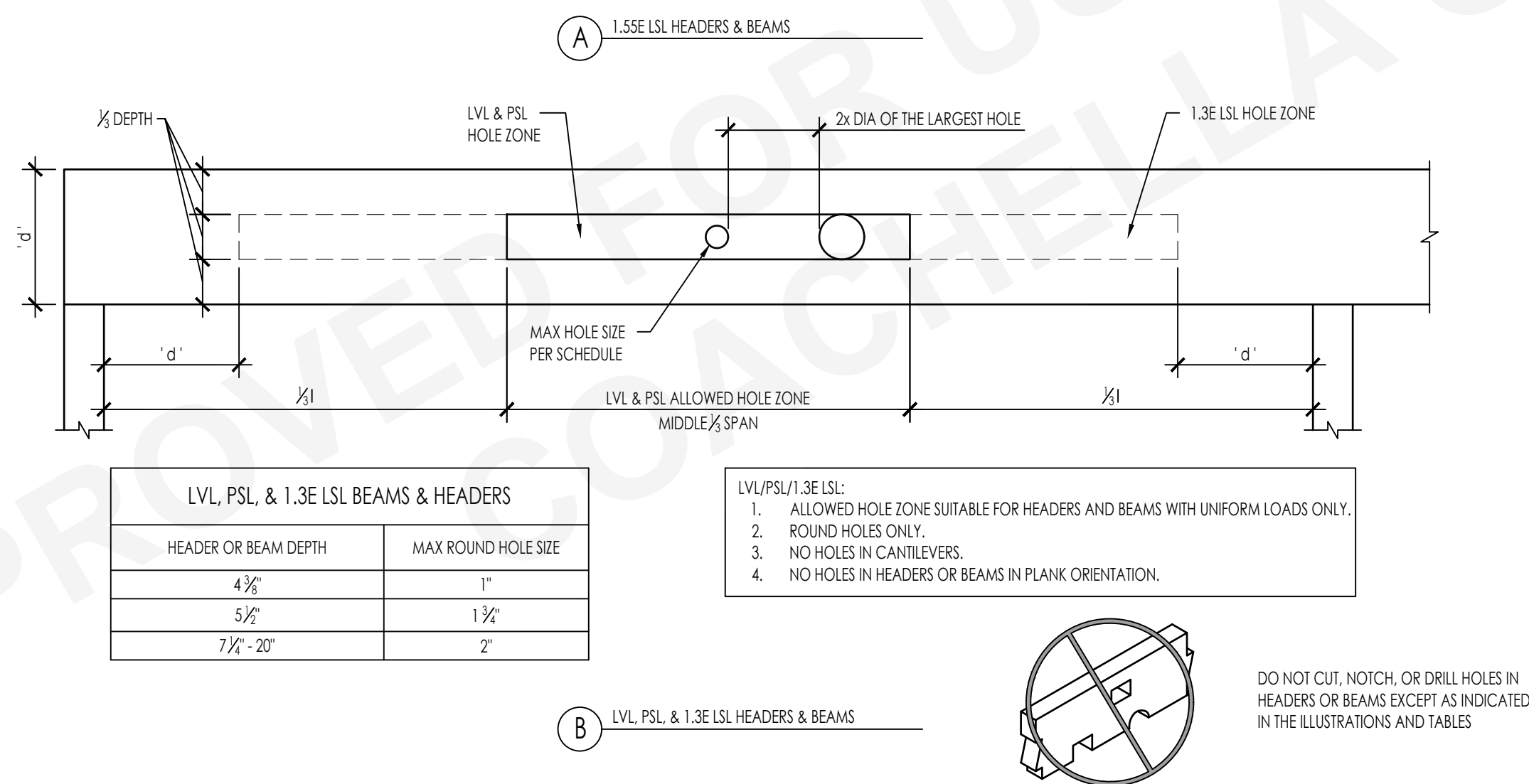
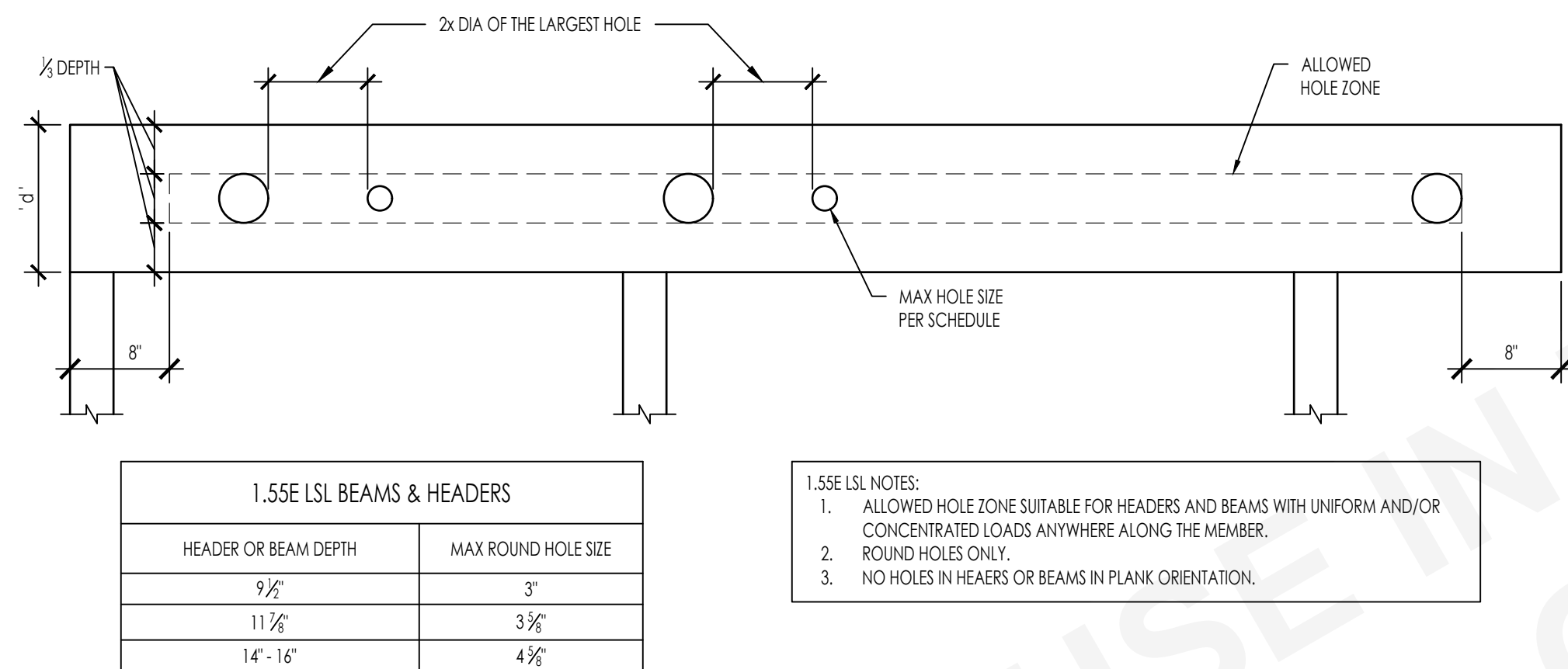
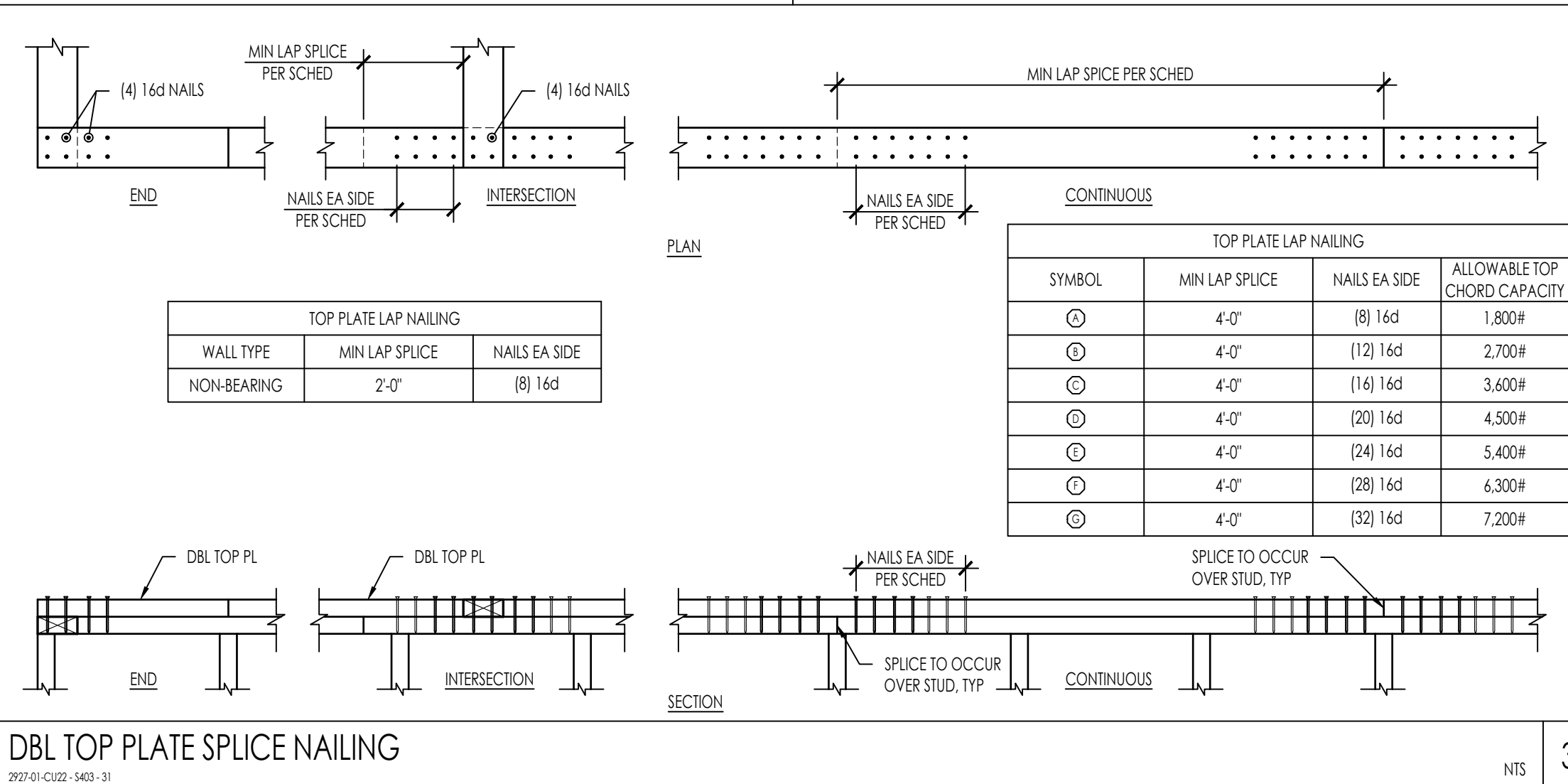
2x STUD NAILING @ ADJOINING PANEL EDGES

NTS

14



STRAP MODEL	FASTENERS PER SPLICE	SPLICE LENGTH ^(IN)	MIN BULK WIDTH	ALLOWABLE TENSION LOADS ^(LBS)
CS16	(5) 10d	8	1½"	1,705
	(6) 8d	9		
CS14	(6) 10d	9	1½"	2,490
	(7) 8d	10		
CMSTC16	(11) 16d	10	3¾"	4,690
	(11) 16d	10		
CMST14	(13) 16d	14	3¾"	6,475
	(15) 10d	15		
CMST12	(18) 16d	18	3¾"	9,215
	(22) 10d	21		



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COACHELLA ADUS

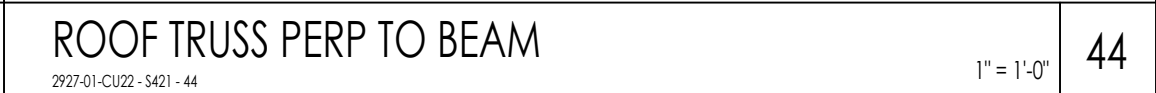
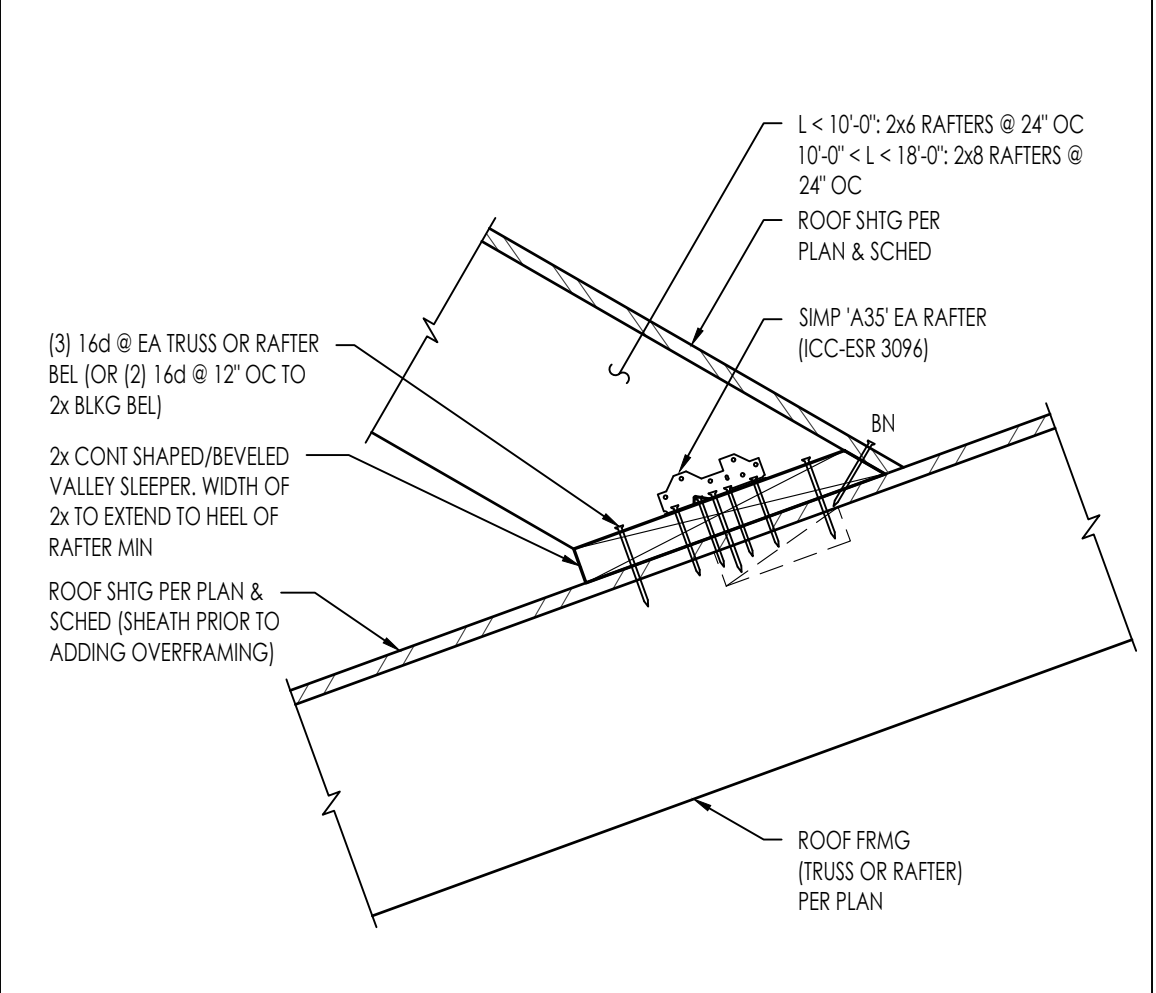
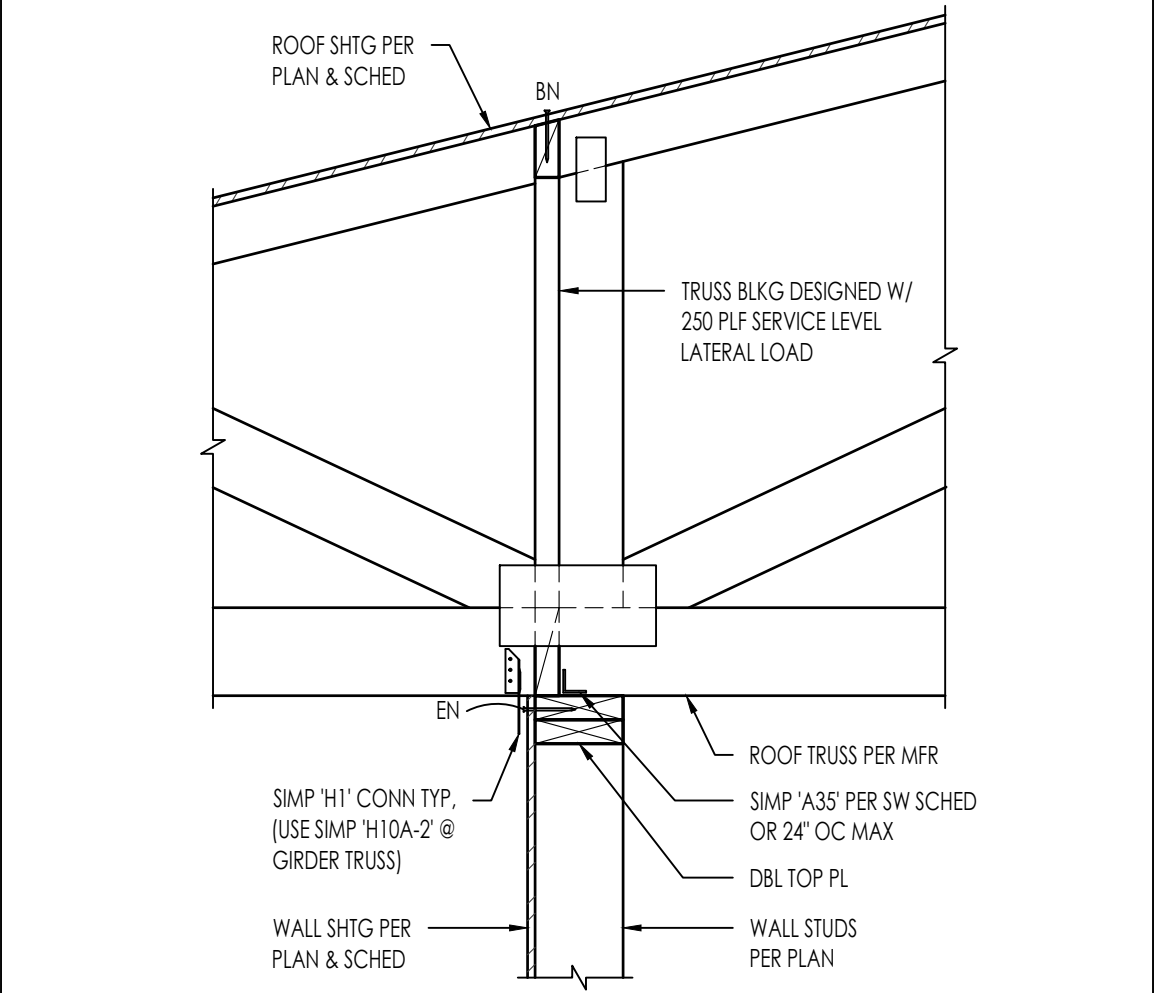
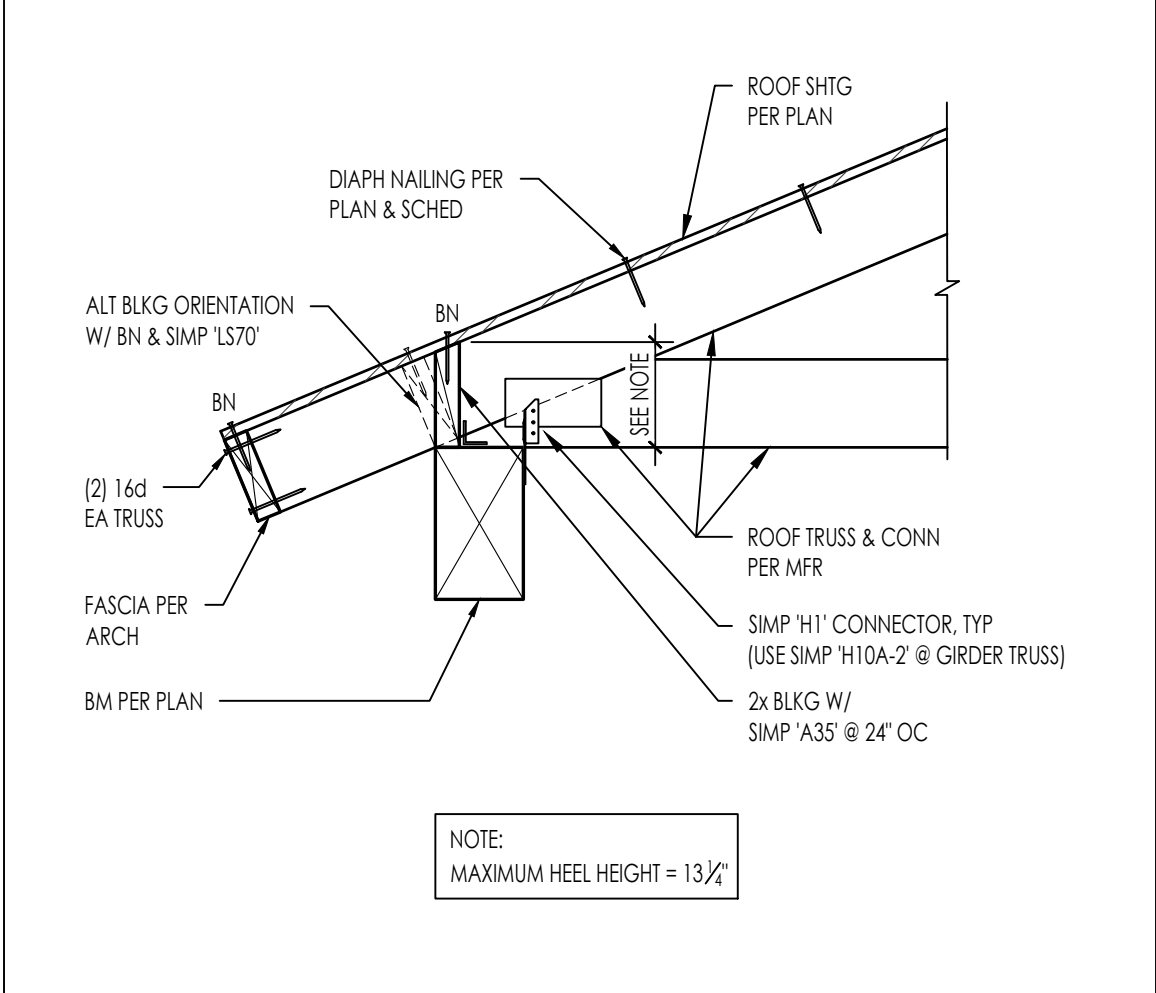
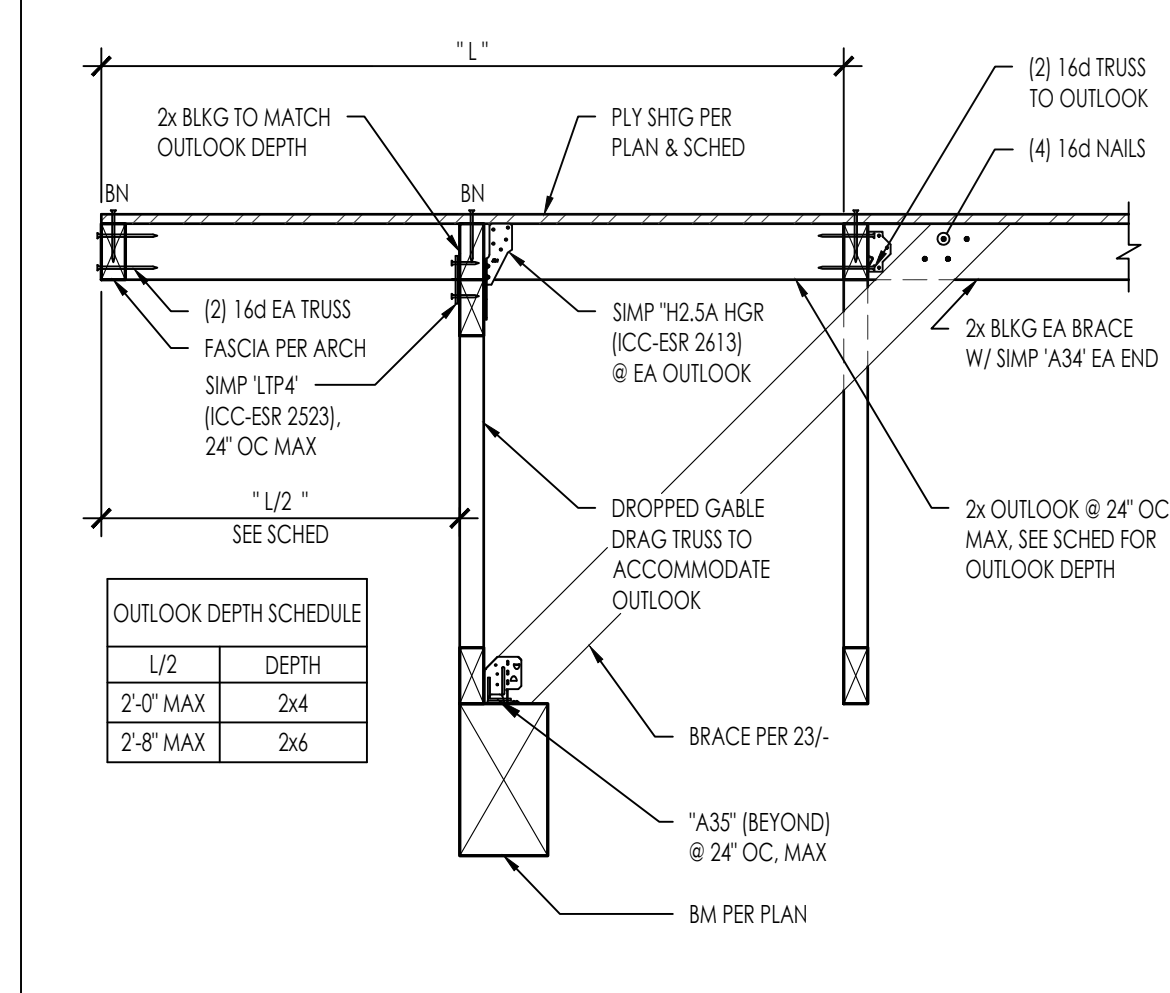
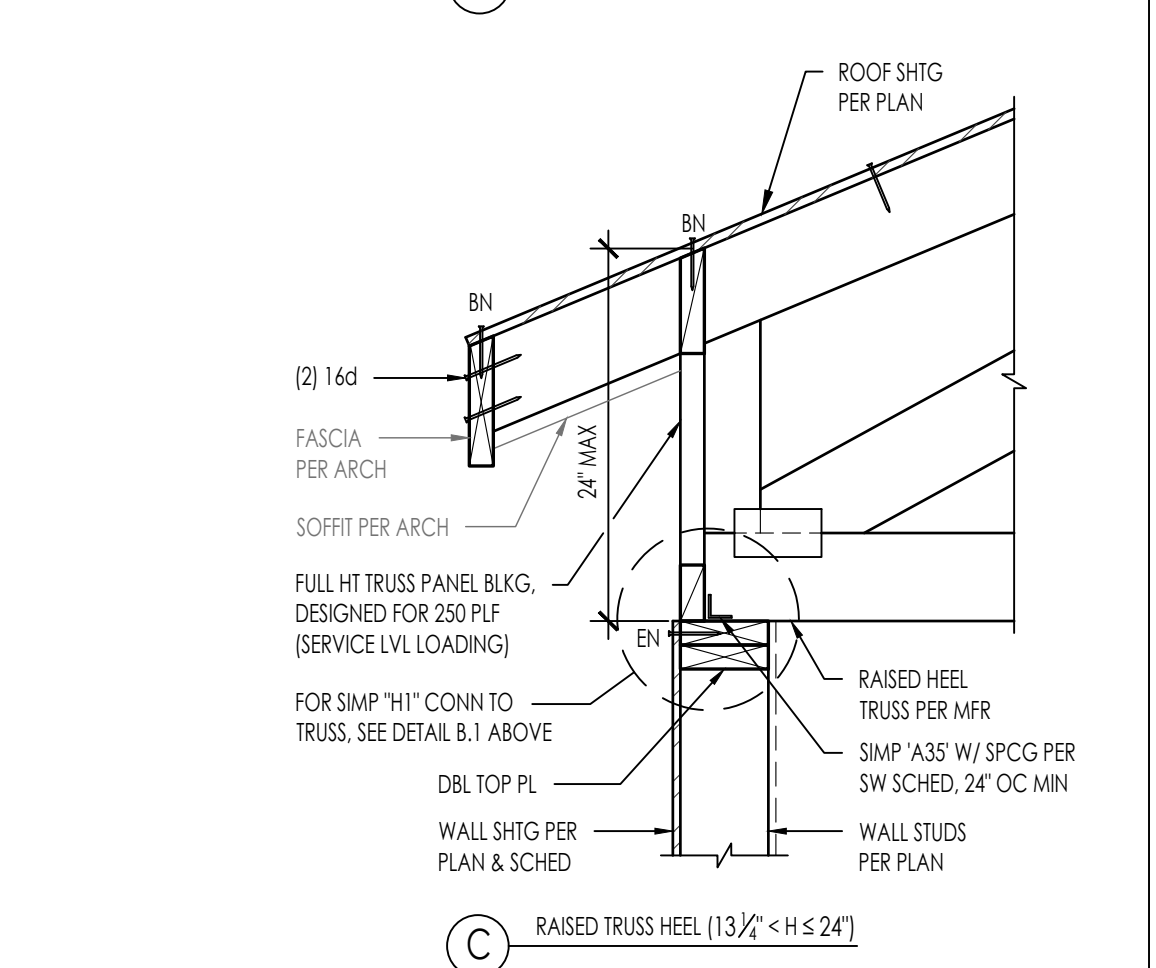
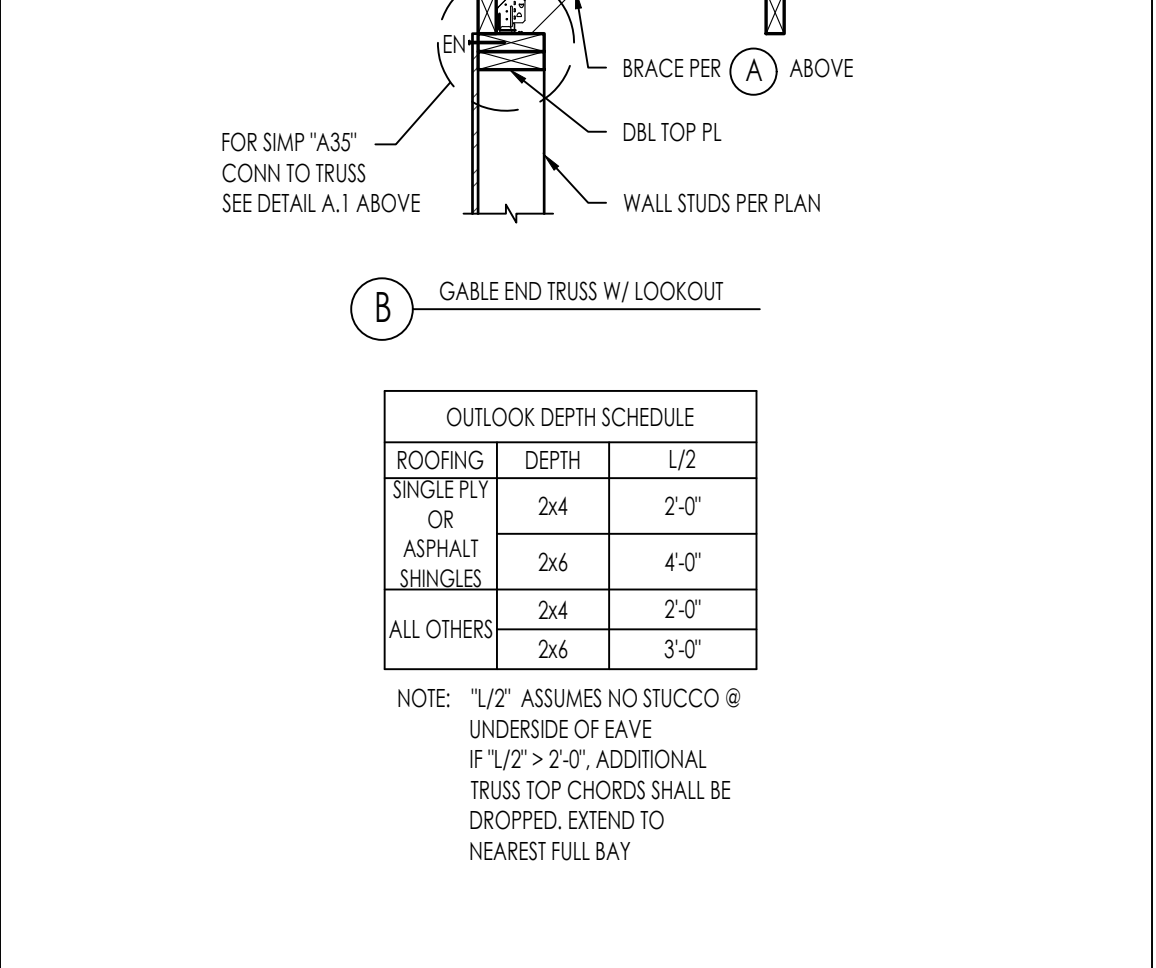
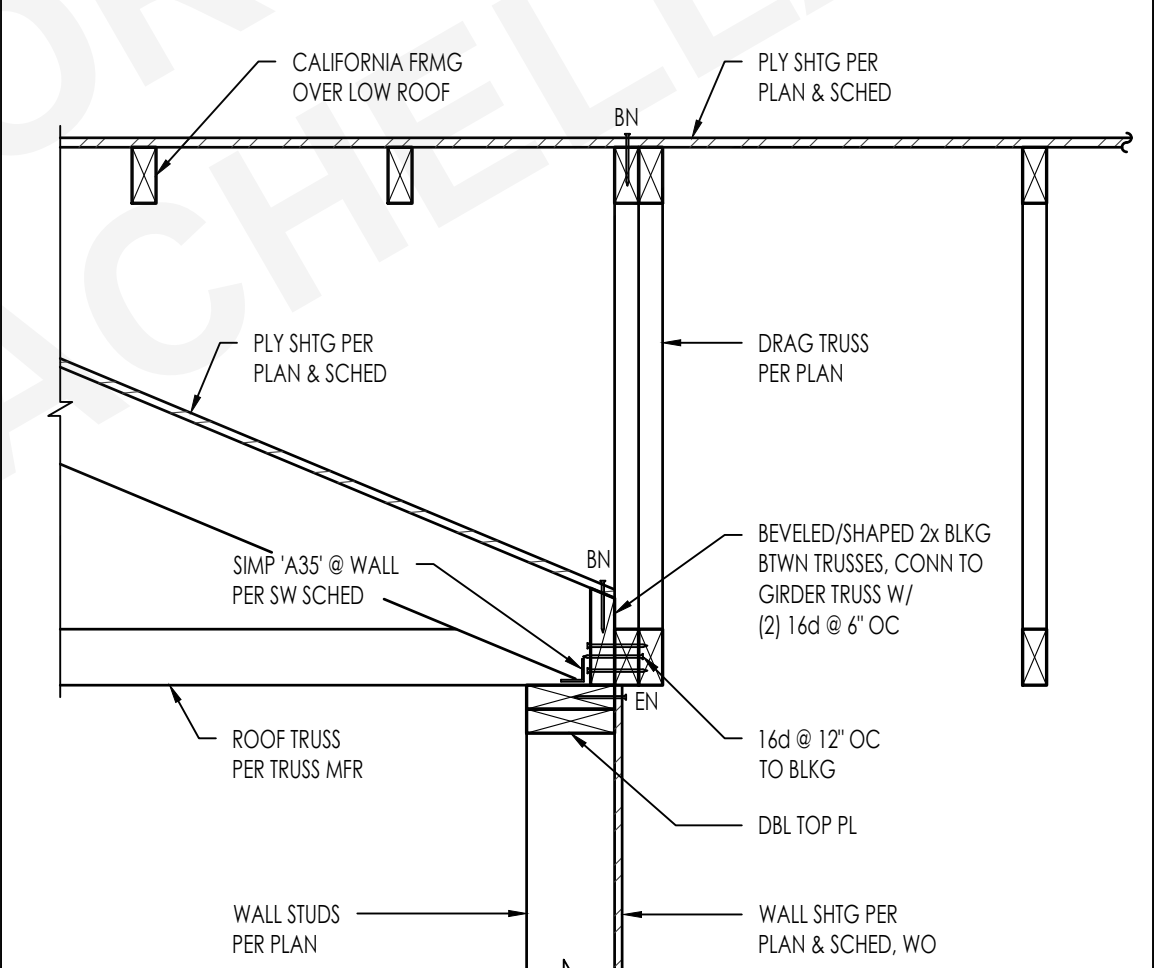
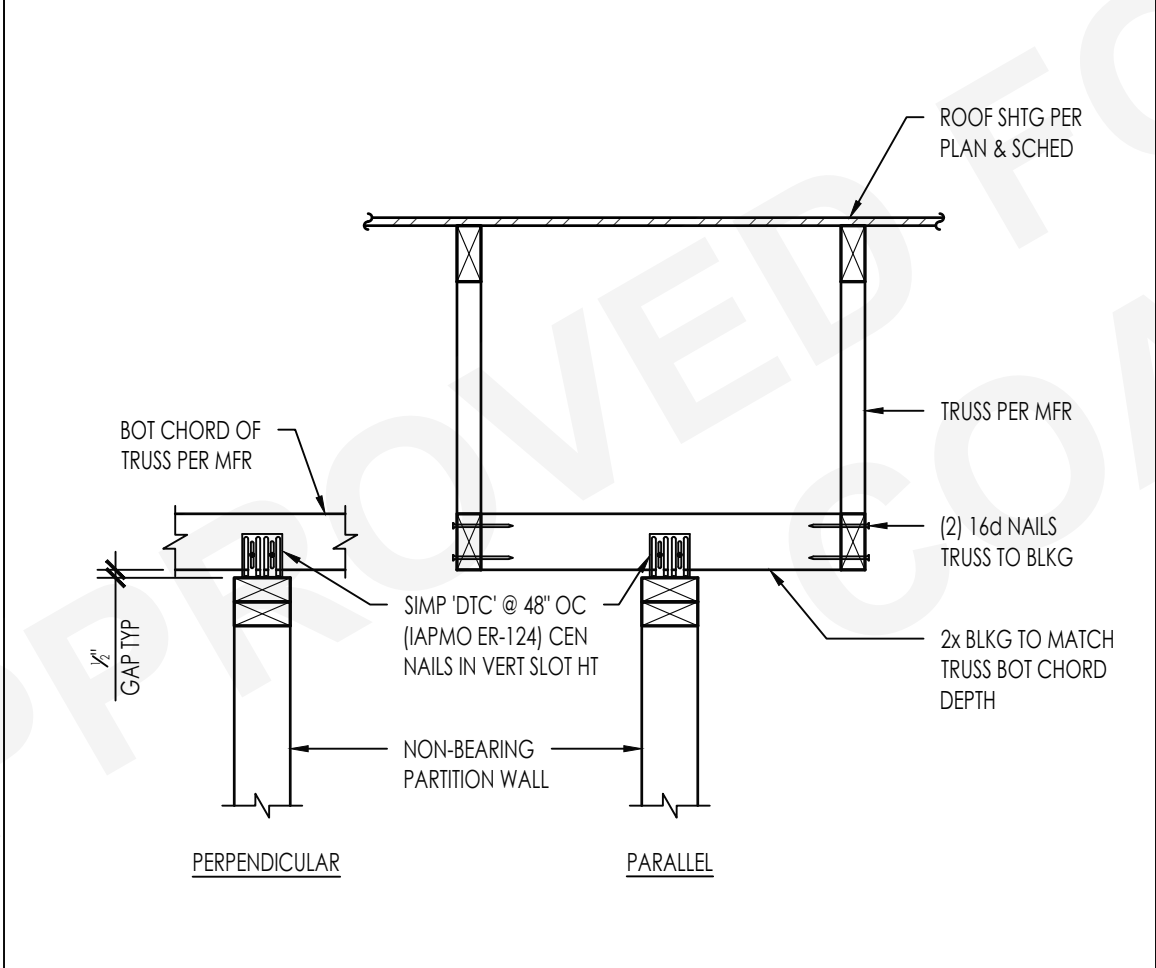
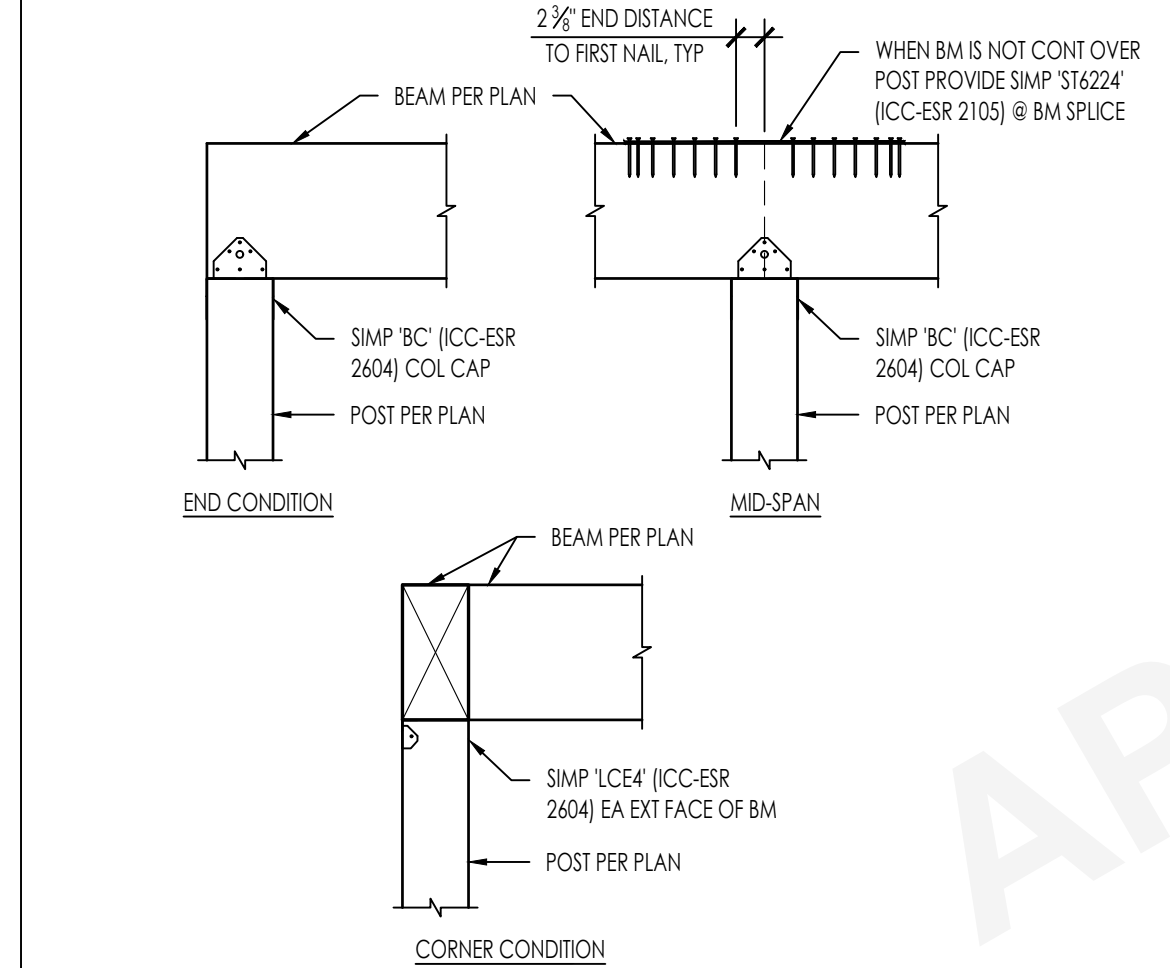
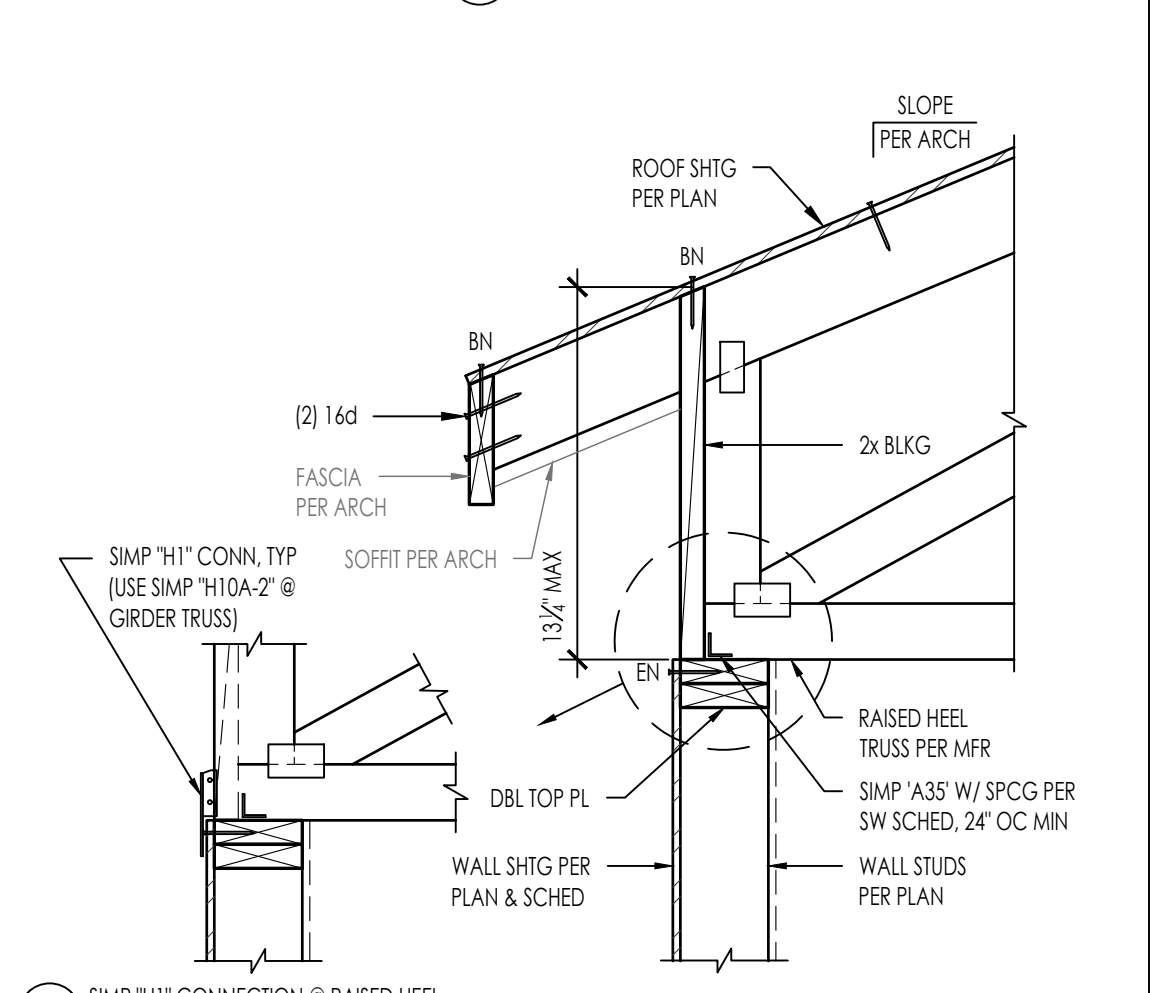
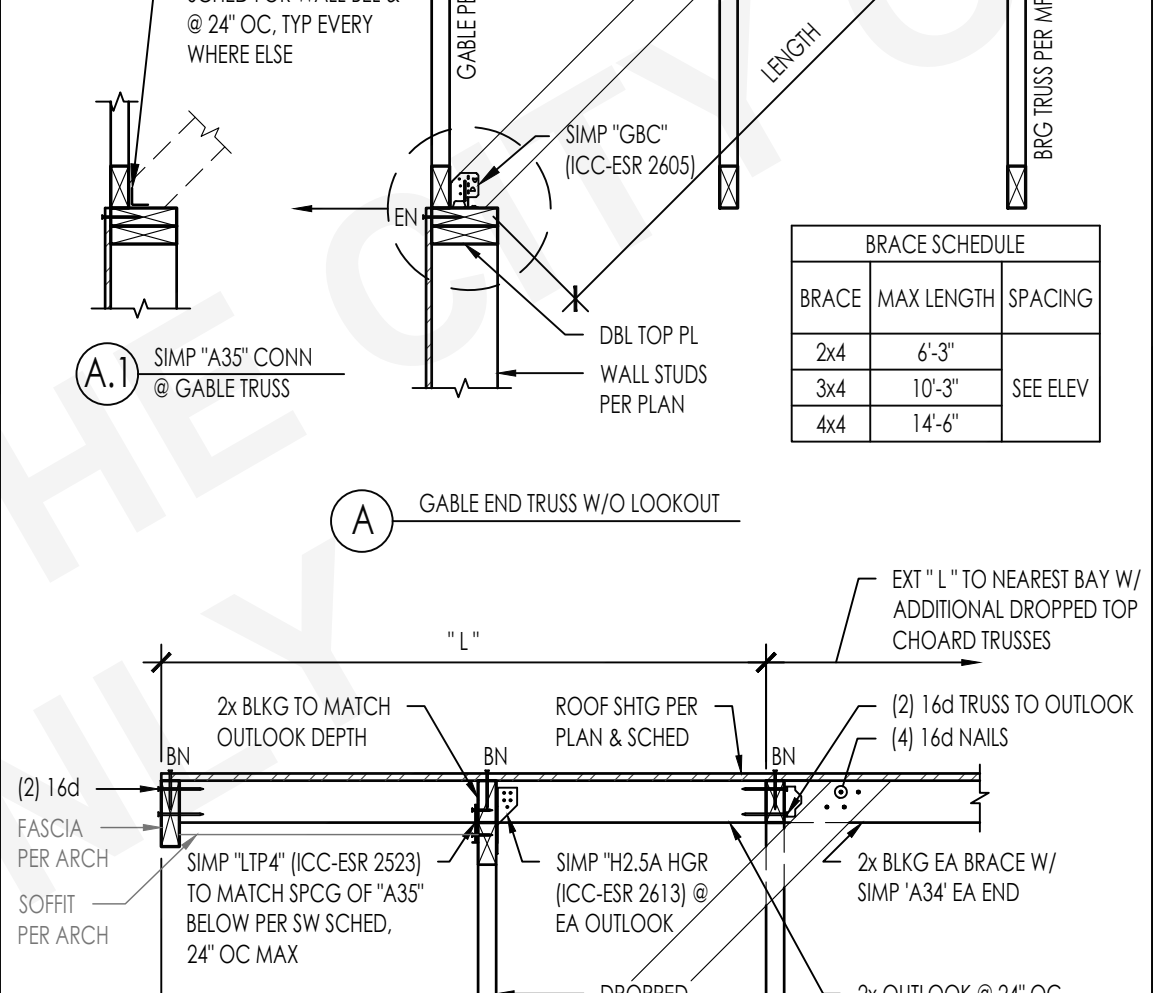
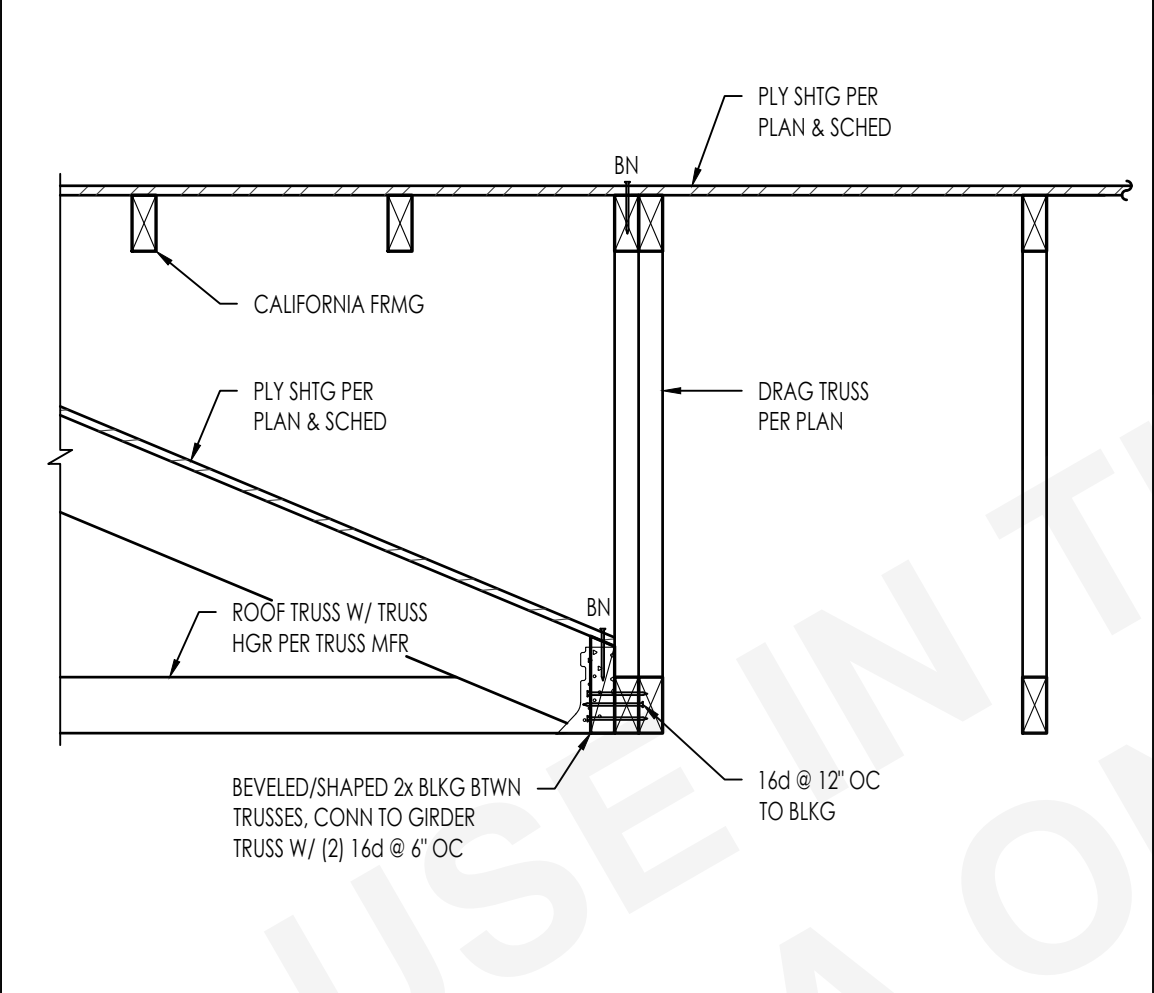
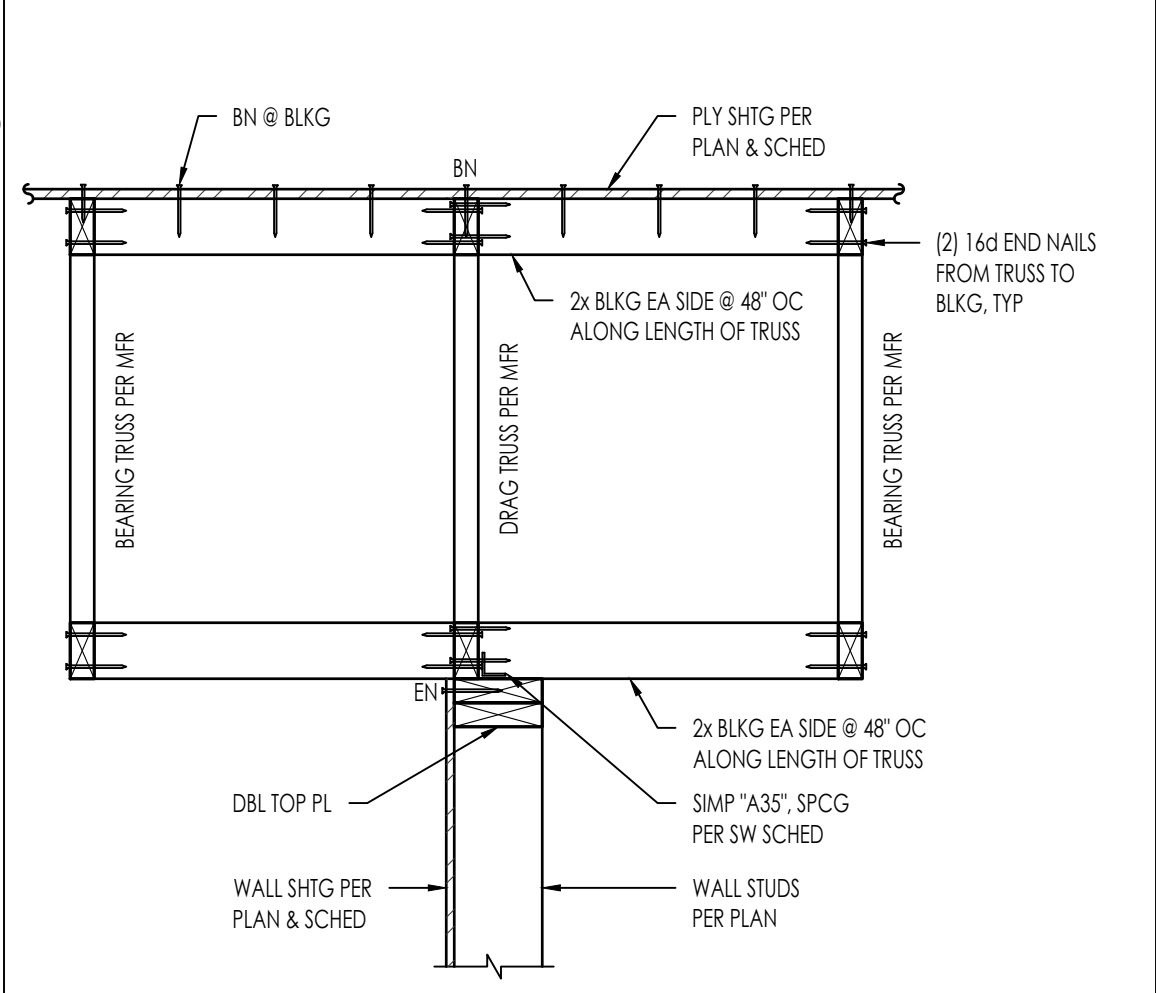
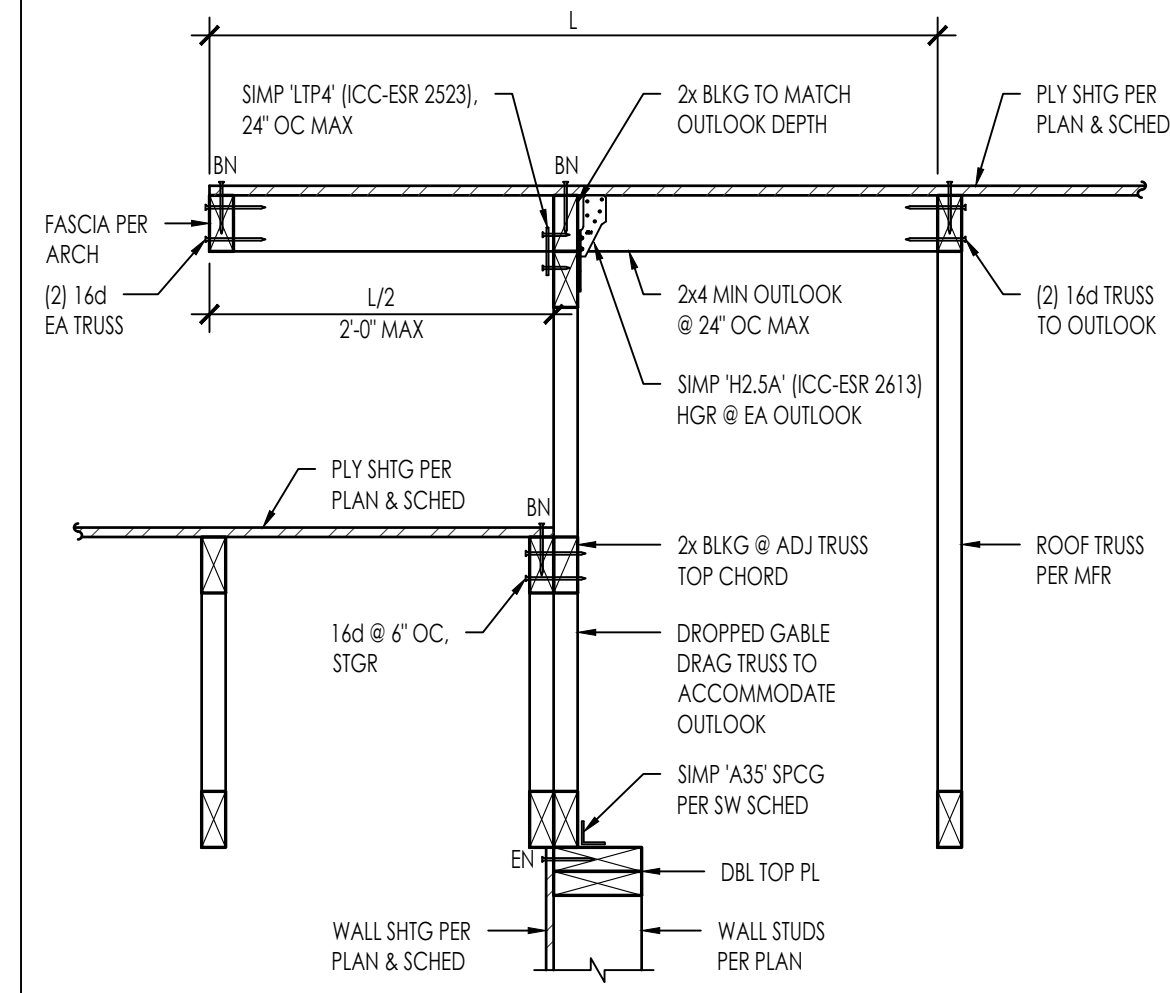
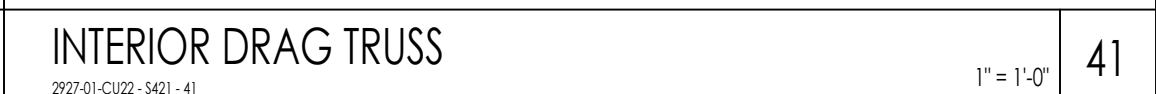
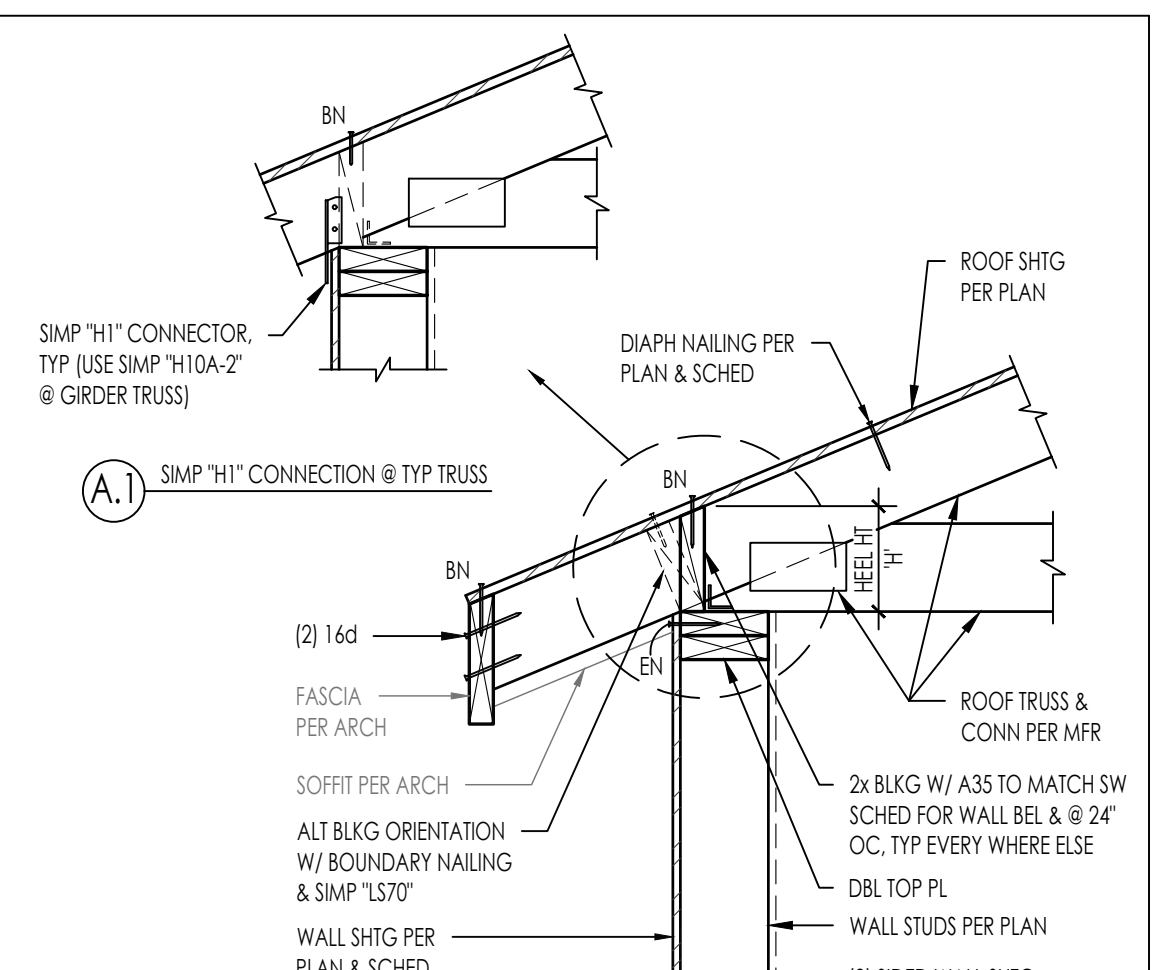
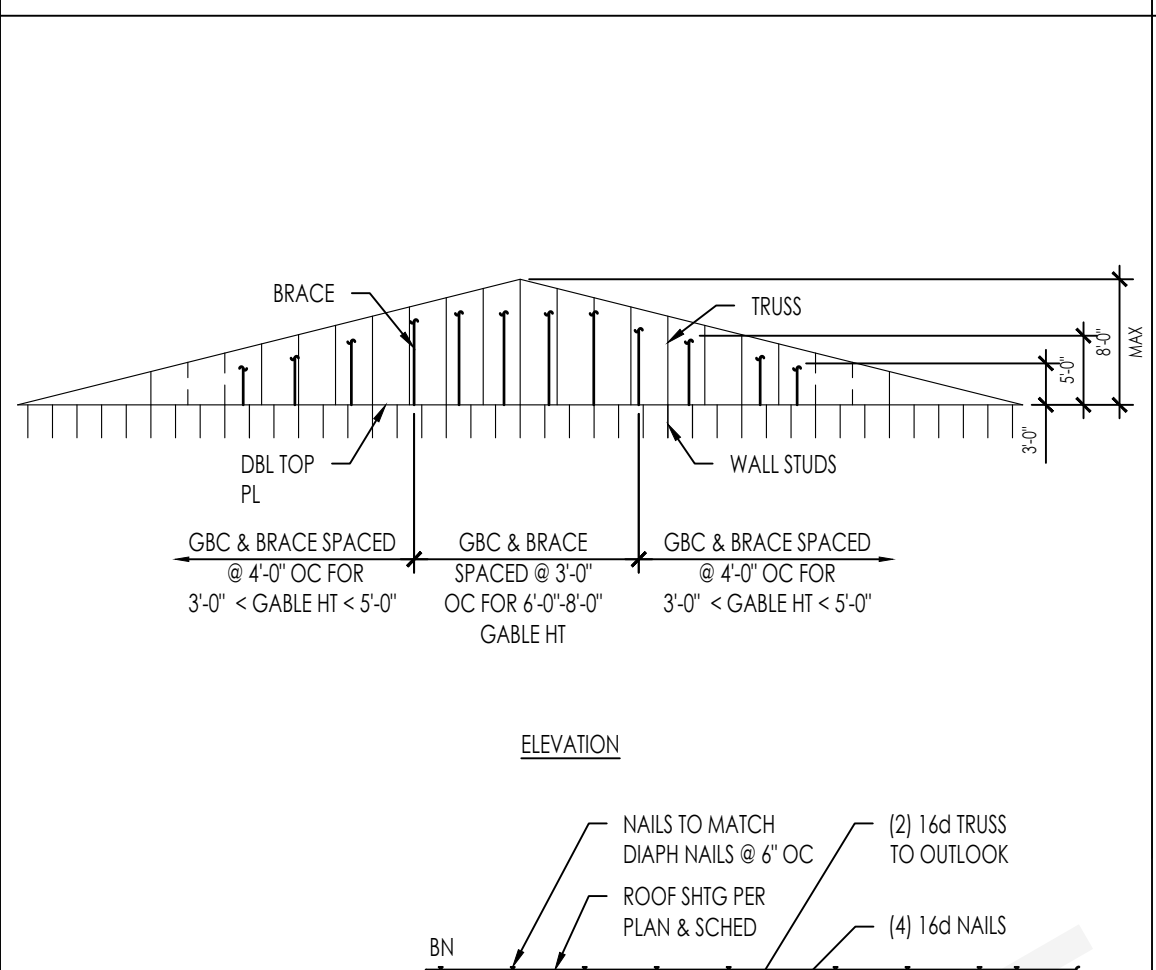
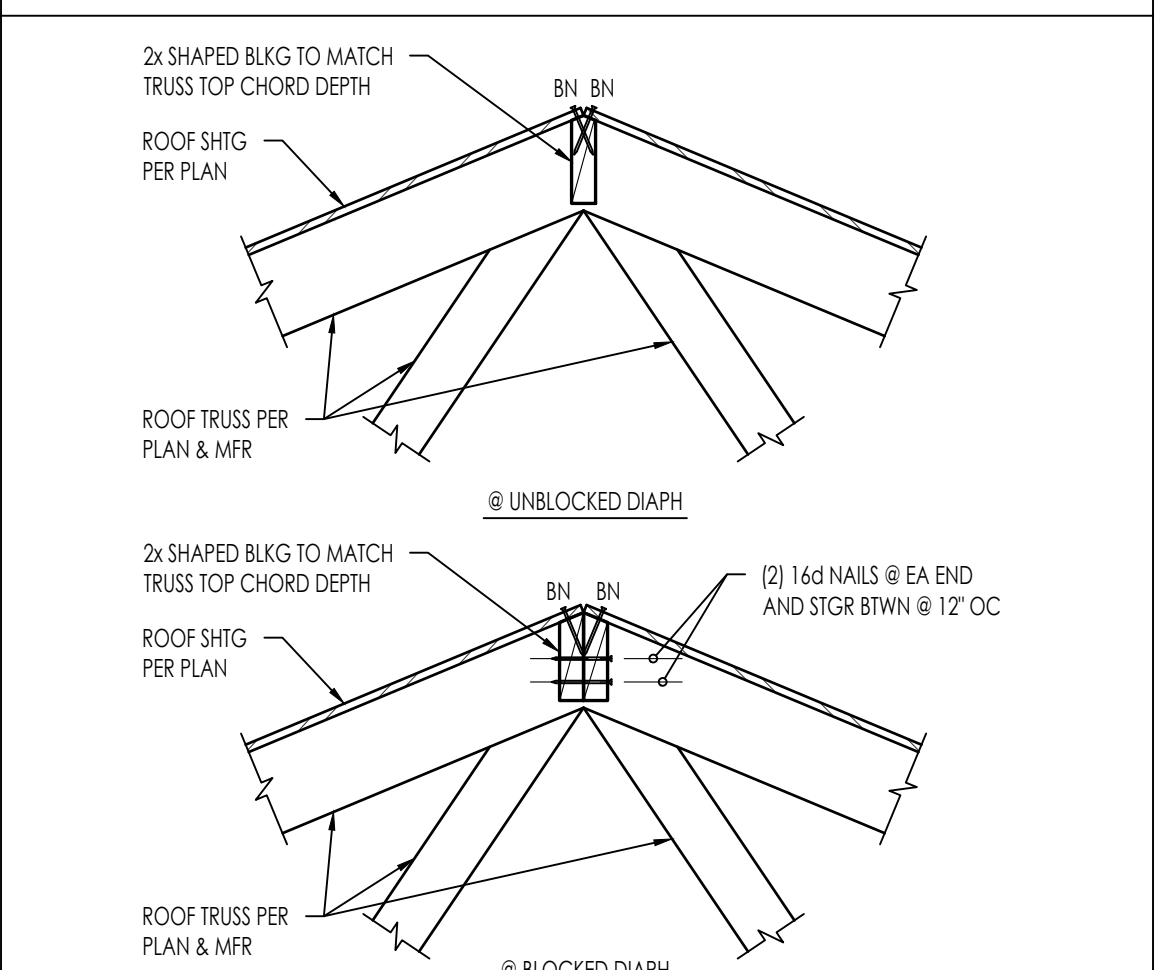
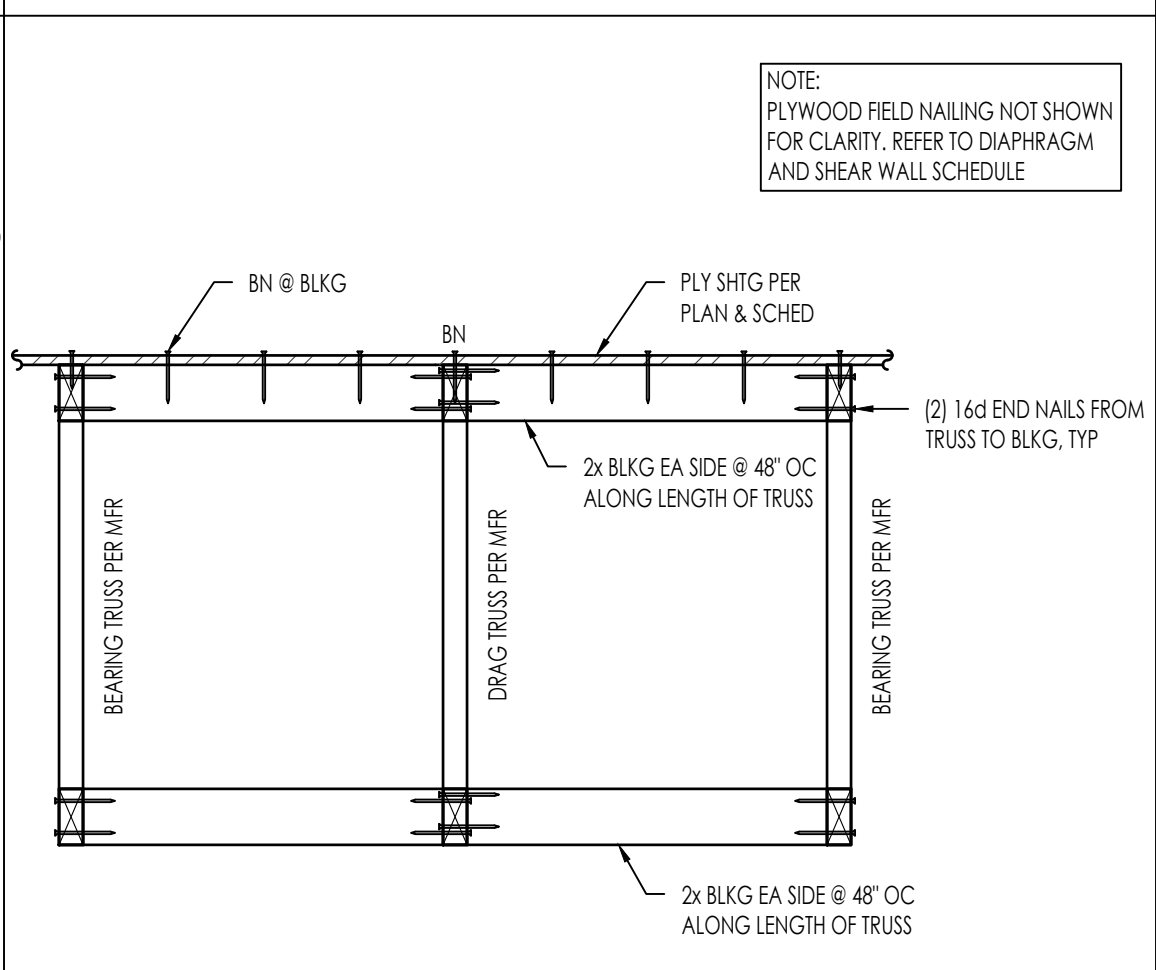
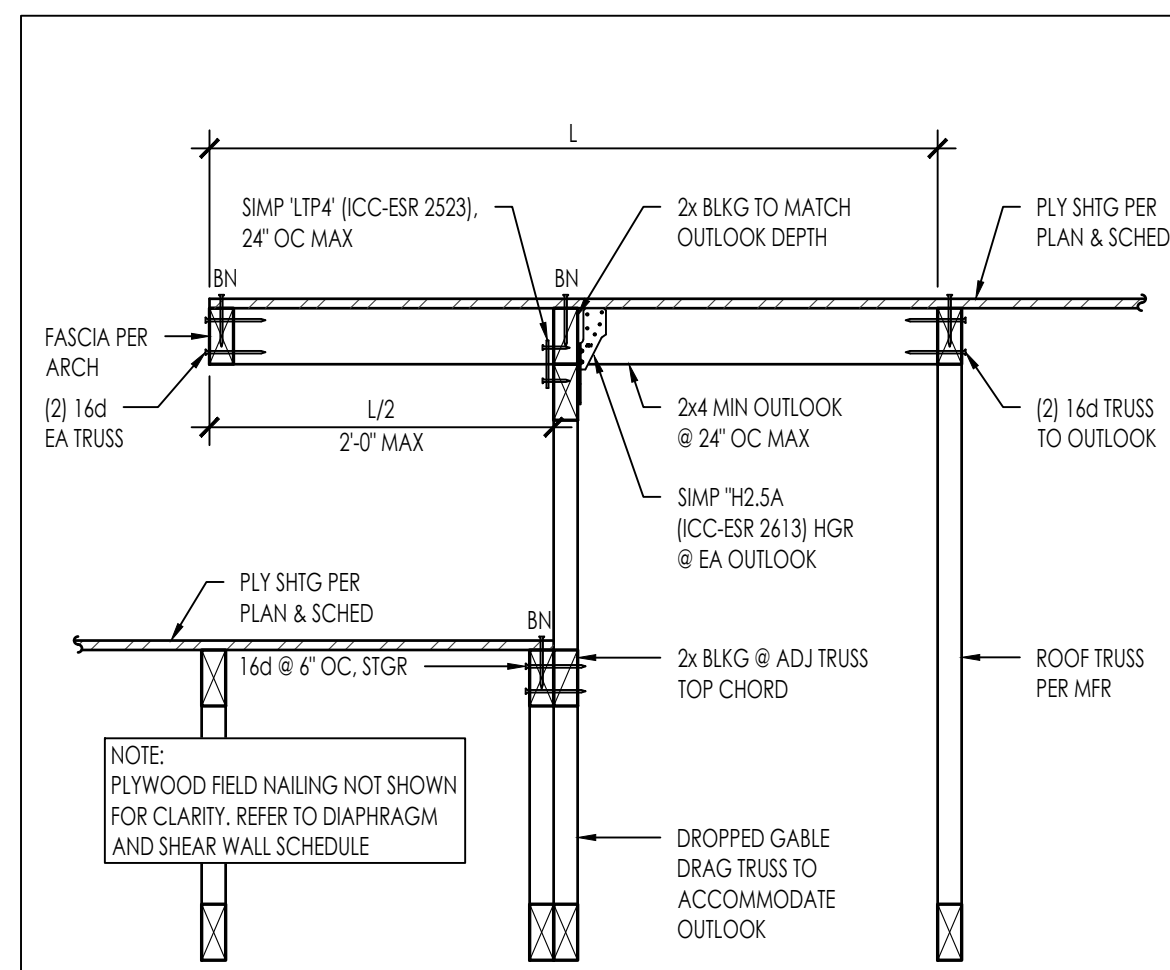
COACHELLA, CA

TYPICAL WOOD DETAILS

DATE
JANUARY 11, 2024
SHEET

S-403

PUBLIC SECTOR



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

COACHELLA ADUS

COACHELLA, CA

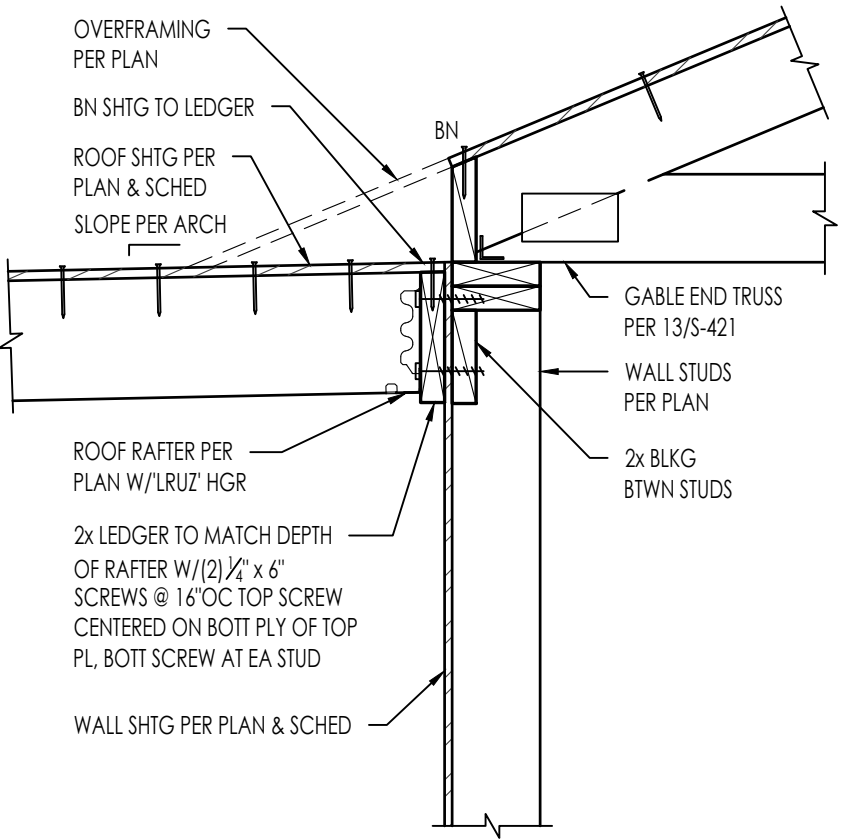
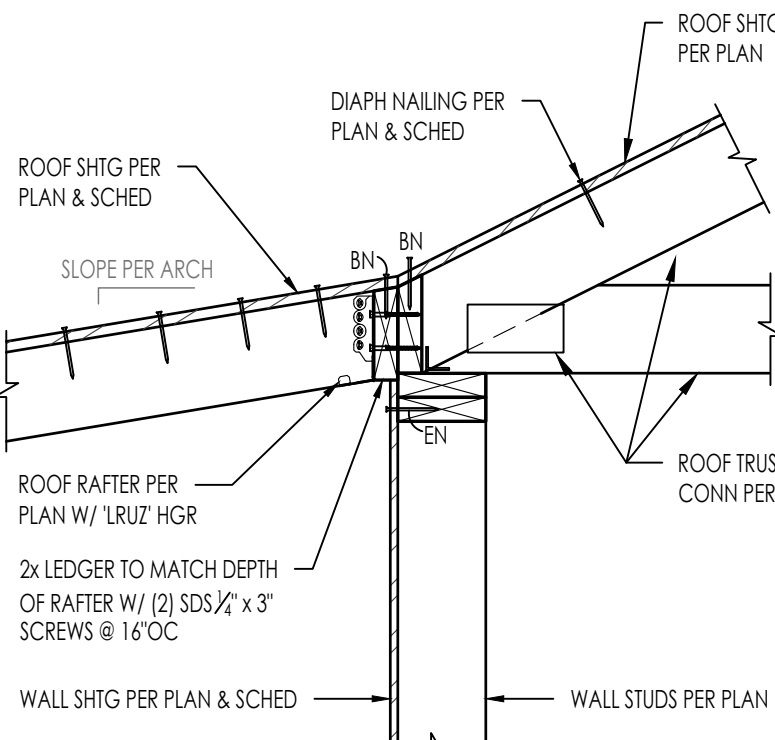
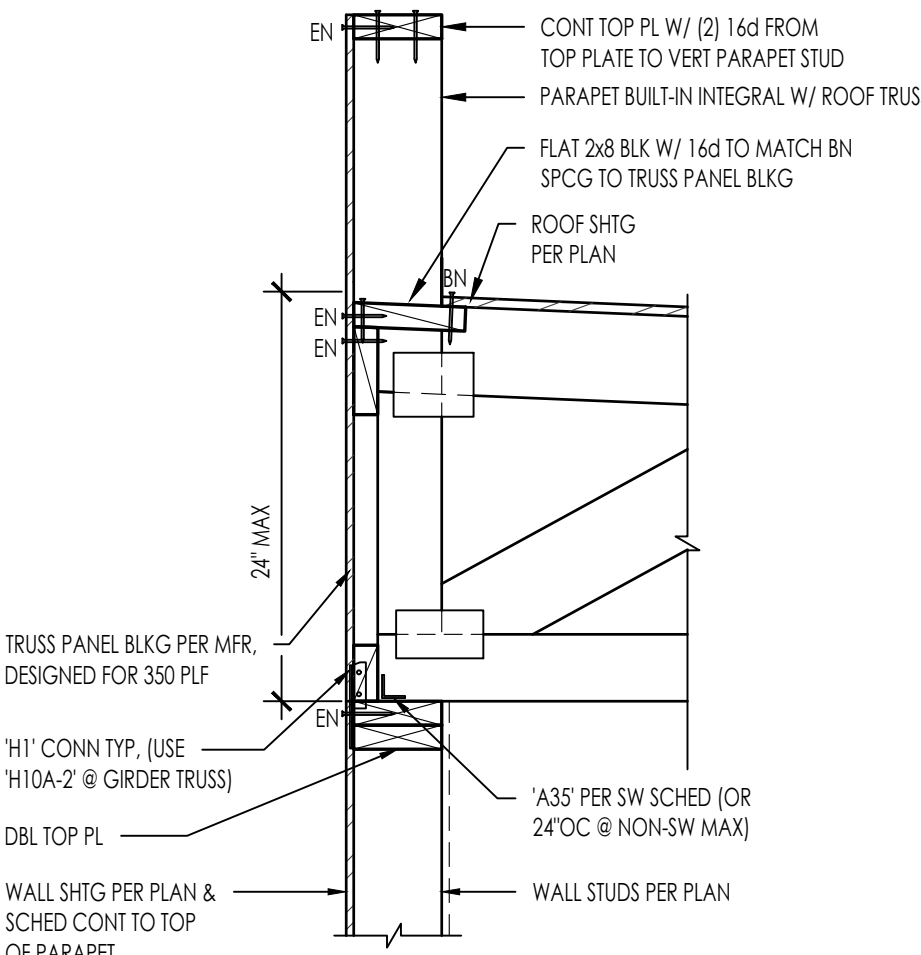
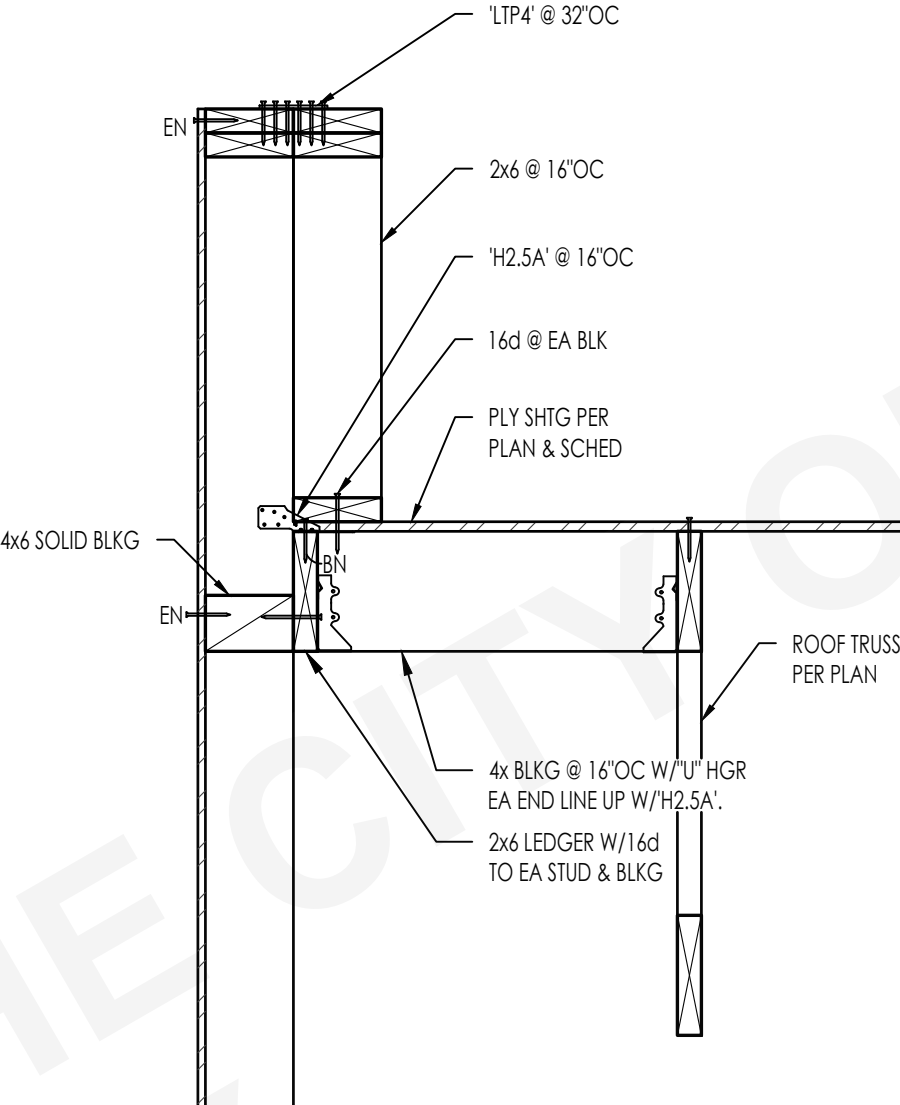
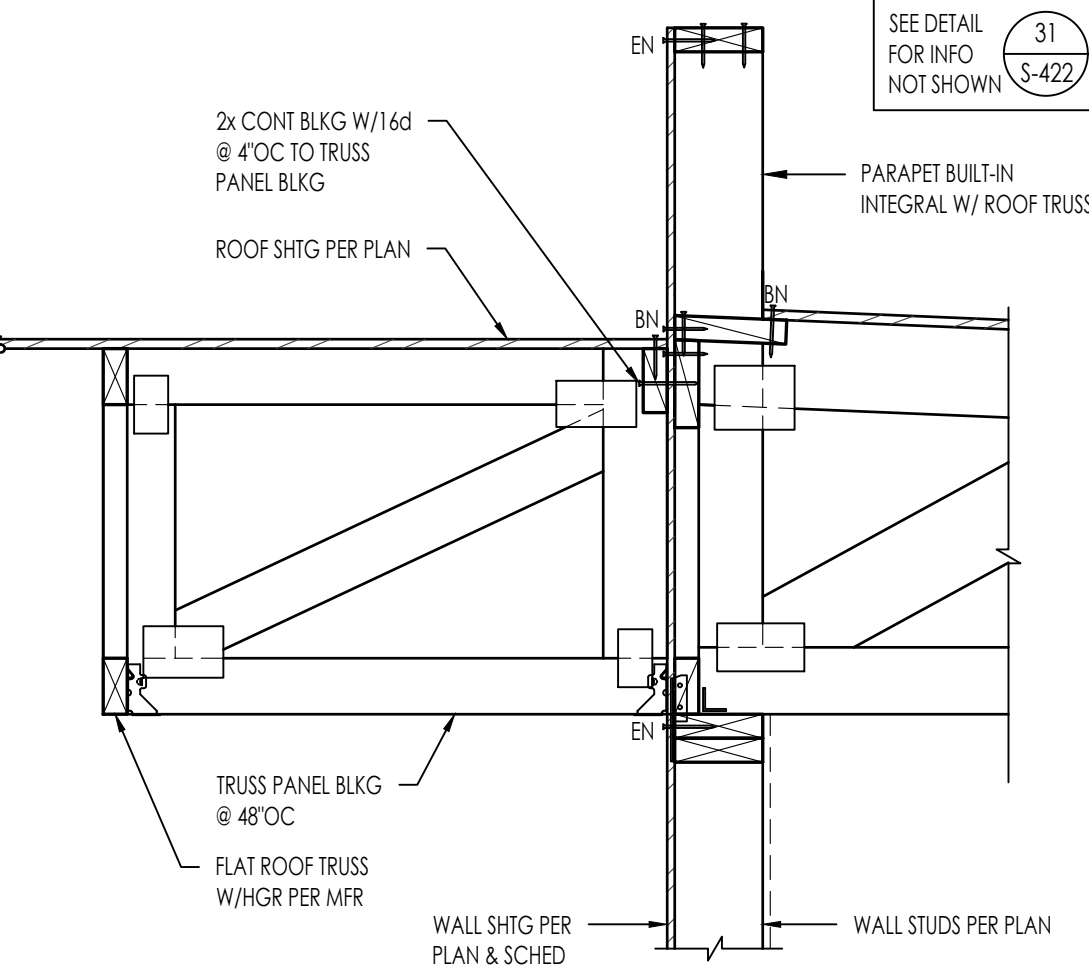
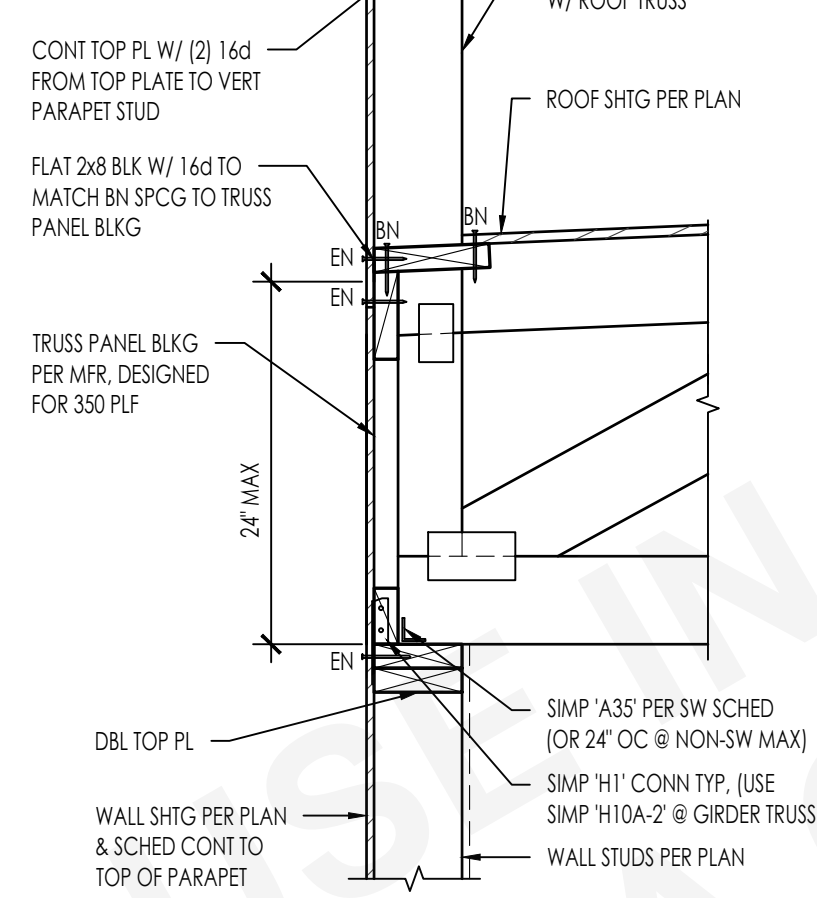
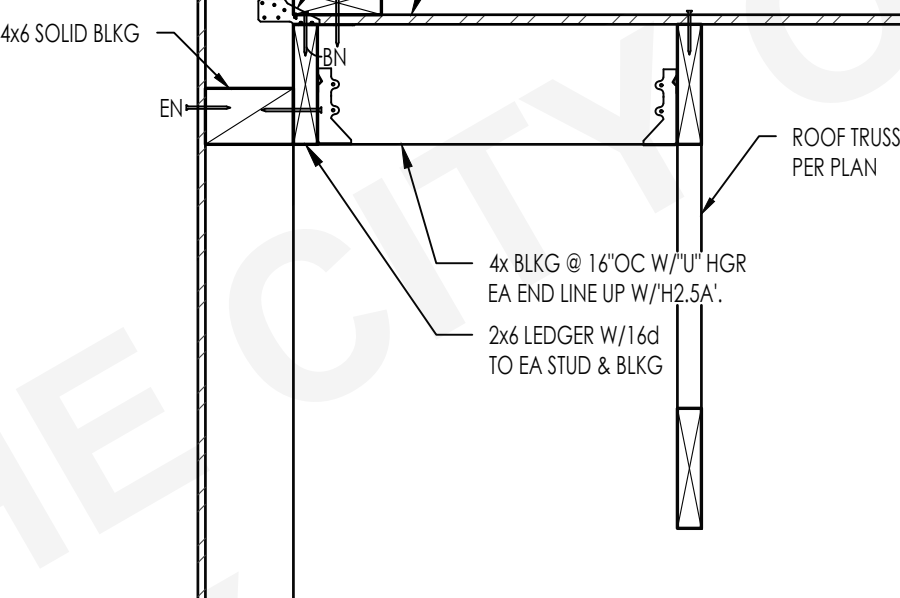
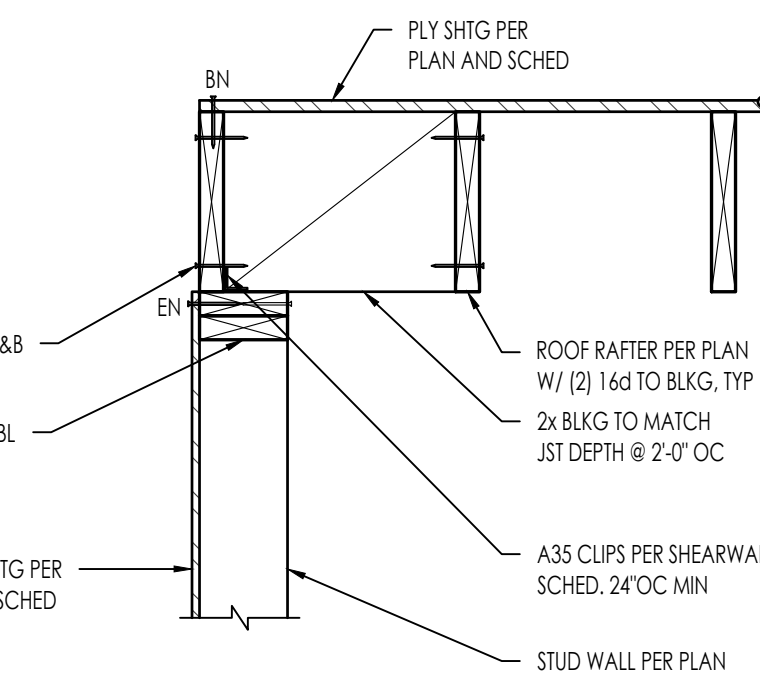
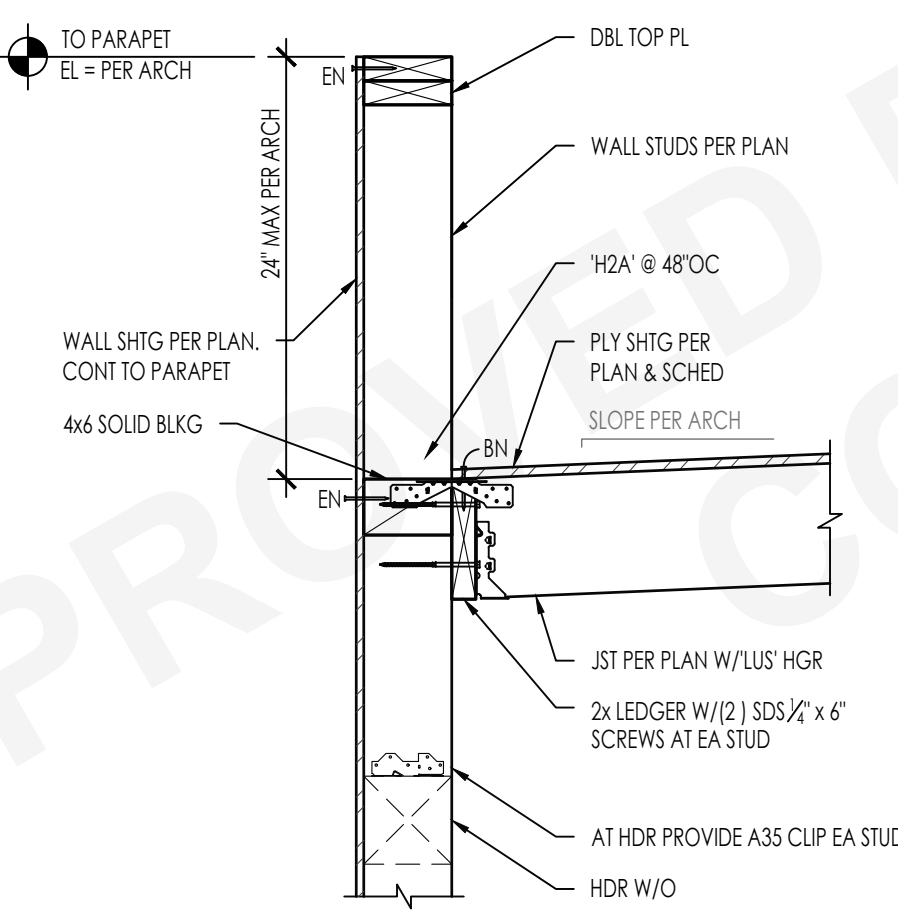
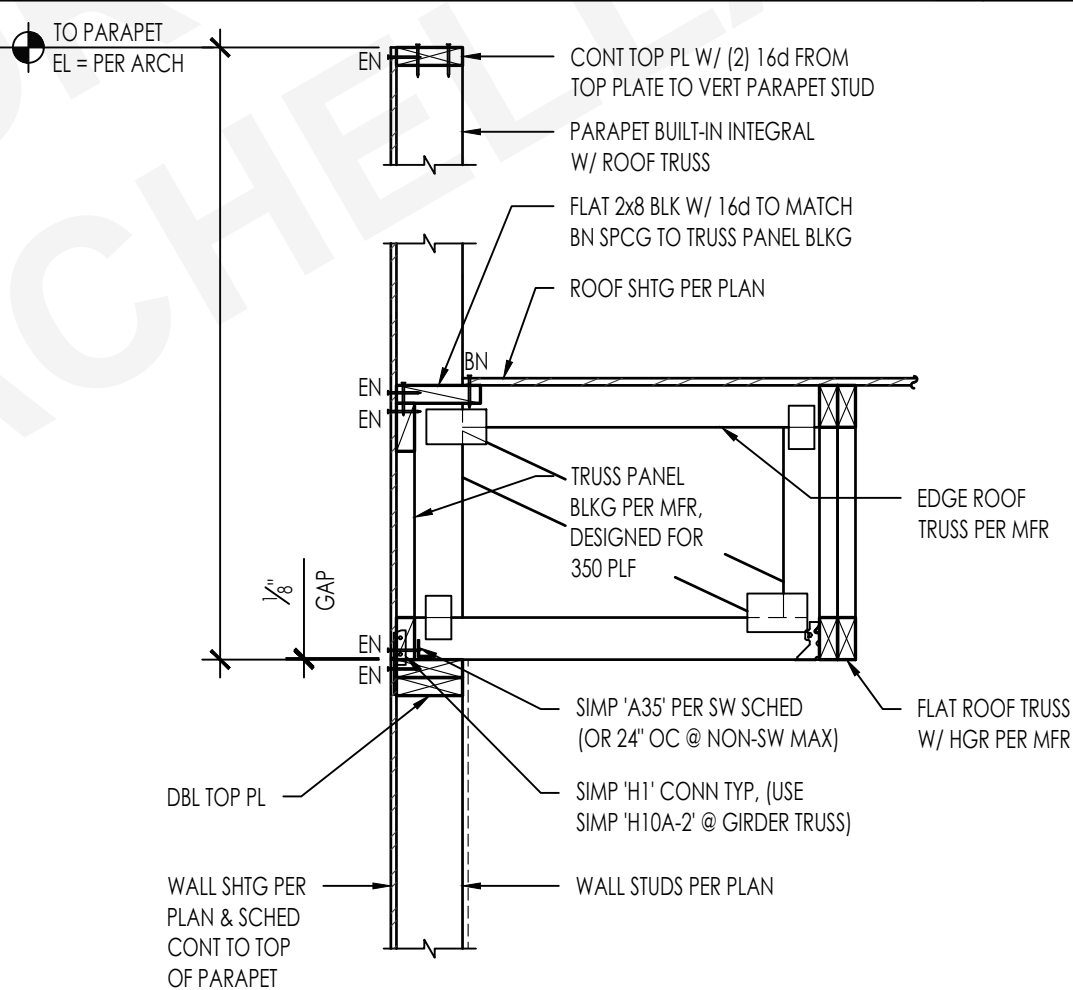
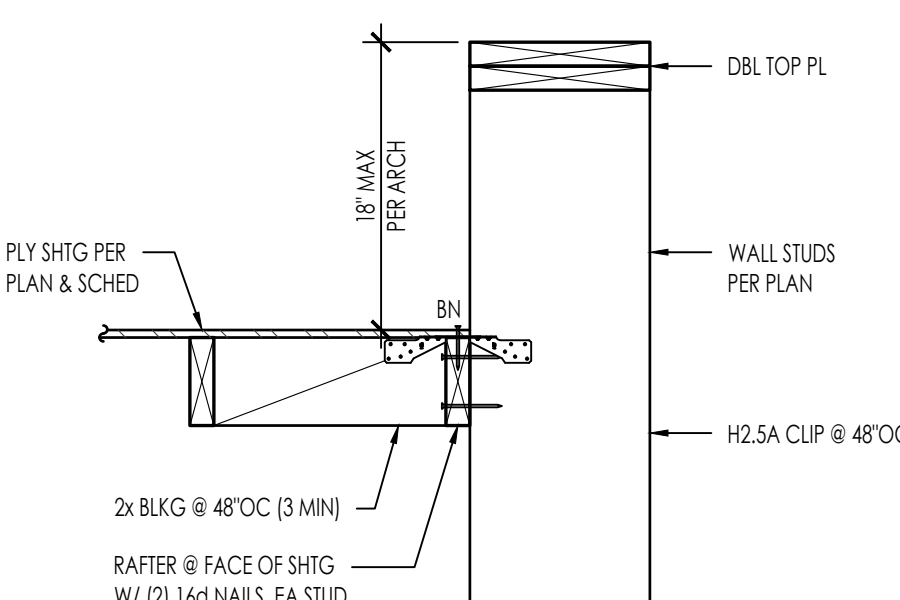
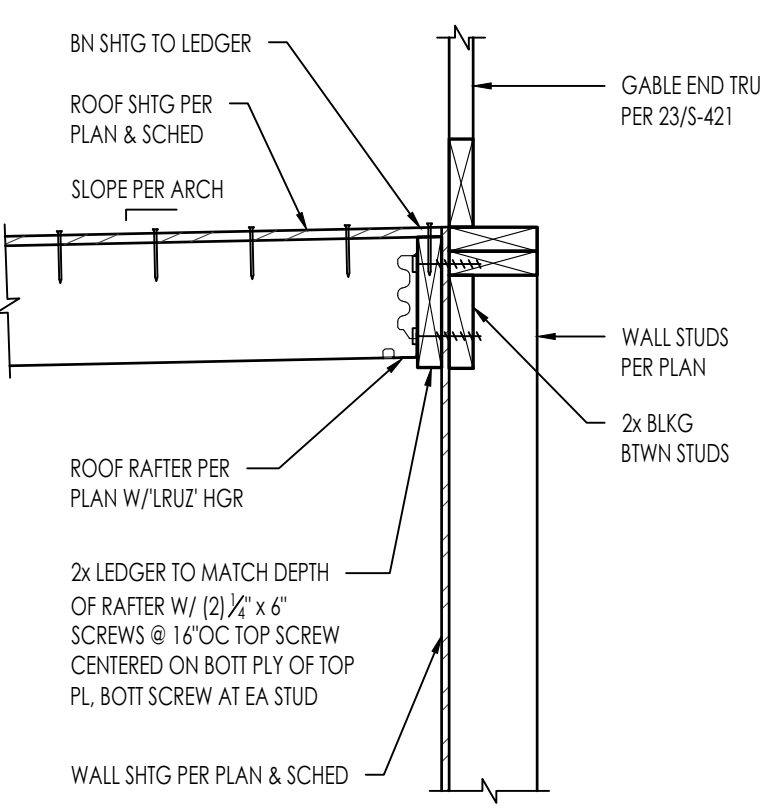
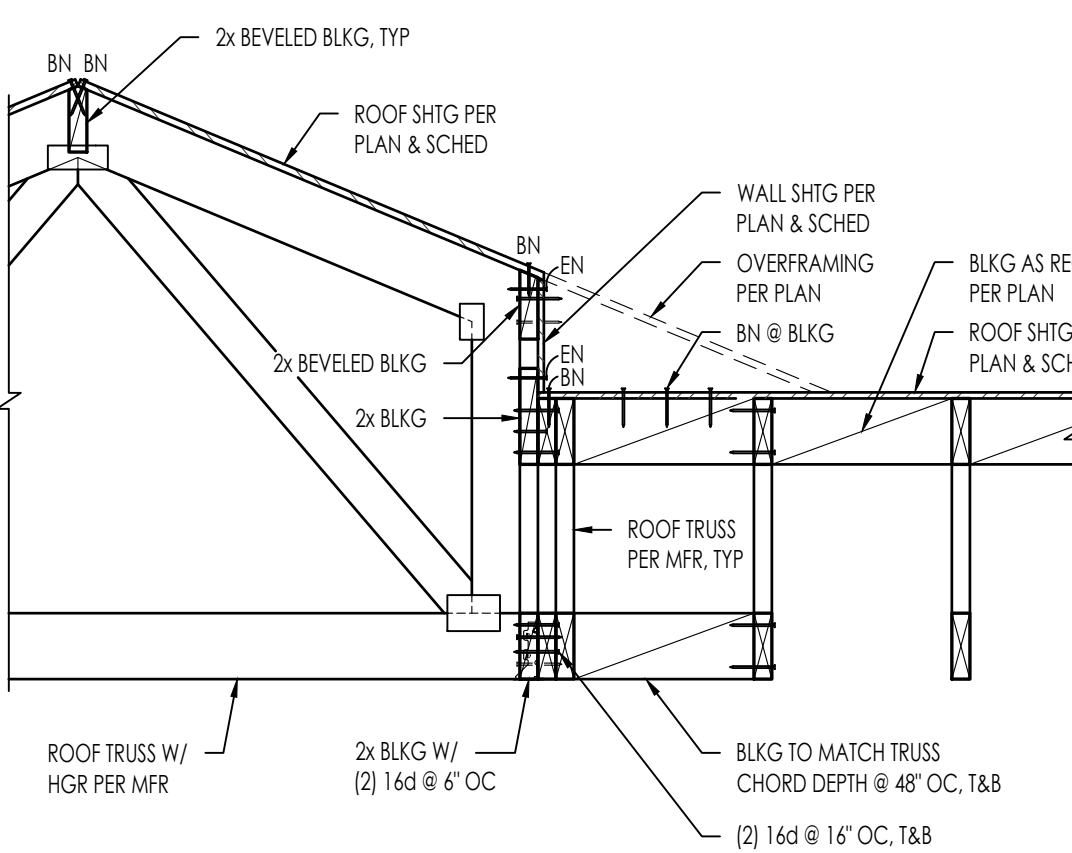
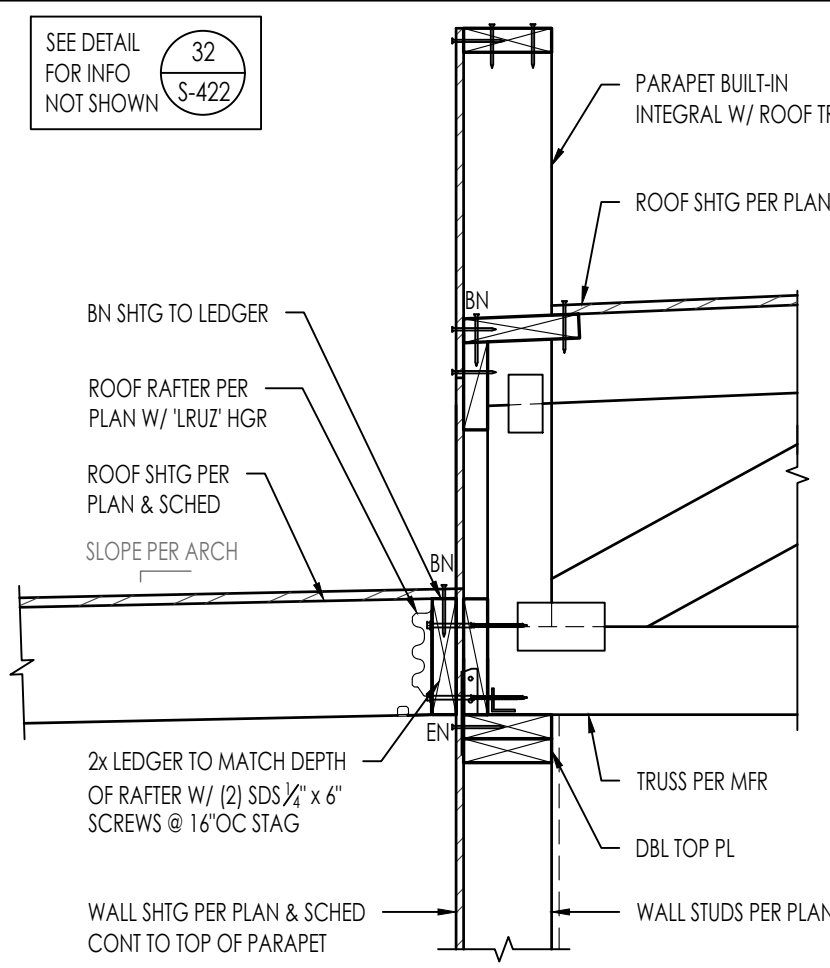
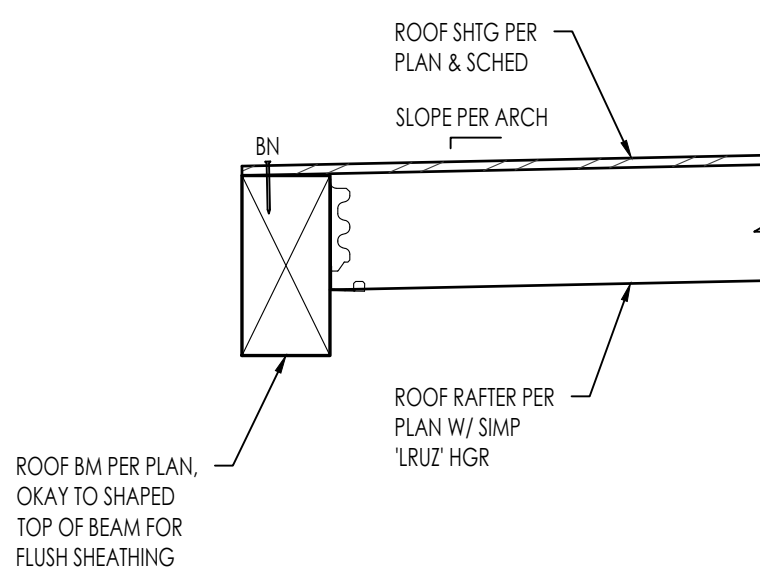
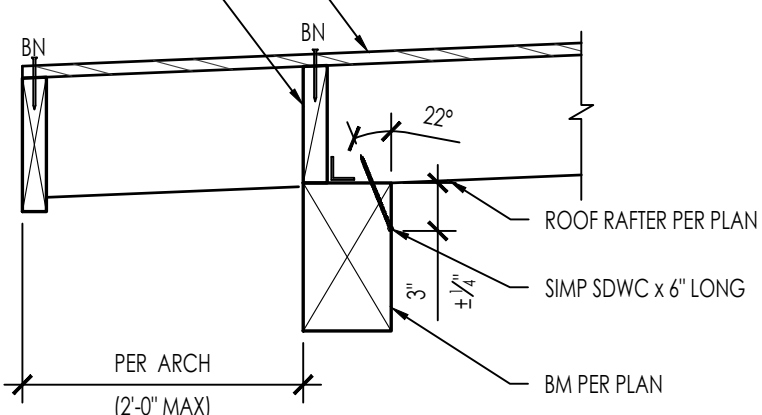
ROOF FRAMING DETAILS

DATE
JANUARY 11, 2024
SHEET

S-421

PUBLIC SET

N:\2800\9399-01_CU02\Coachella Design Services\ADU Plans\Structural\ConDoc\Sheet Files\2399-01_CU02 - S422.dwg, S422 Plot 2, Jan 16, 2024, 5:02pm, Alogosaz

	ROOF RAFTER TO EXTERIOR WALL 2939-01-CU02 - S422 - 51	1" = 1'-0"	51		PITCH BREAK AT EXTERIOR WALL 2939-01-CU02 - S422 - 51	1" = 1'-0"	41		ROOF TRUSS PERP TO EXT WALL 2939-01-CU02 - S422 - 51	NTS	31		BEAM POCKET THROUGH EXTERIOR WALL 2939-01-CU02 - S422 - 11	NTS	11
	ROOF TRUSS PERP TO EXTERIOR WALL 2939-01-CU02 - S422 - 52	NTS	52		ROOF TRUSS PERP TO EXTERIOR WALL 2939-01-CU02 - S422 - 52	NTS	32		PARAPET AT EXTERIOR WALL 2939-01-CU02 - S422 - 22	1" = 1'-0"	22		RAFTERS PARALLEL TO EXT WALL 2939-01-CU02 - S422 - 12	1" = 1'-0"	12
	PARAPET AT EXTERIOR WALL 2939-01-CU02 - S422 - 53	1" = 1'-0"	53		TRUSS @ EXTERIOR WALL 2939-01-CU02 - S422 - 33	3/4" = 1'-0"	33		ROOF RAFTER TO EXTERIOR WALL (PARA) 2939-01-CU02 - S422 - 23	1" = 1'-0"	23		RAFTERS PARALLEL TO EXT WALL 2939-01-CU02 - S422 - 13	1" = 1'-0"	13
	TRUSS GIRDER MID SLOPE 2939-01-CU02 - S422 - 54	3/4" = 1'-0"	54		ROOF TRUSS PERP TO EXTERIOR WALL AT PORCH 2939-01-CU02 - S422 - 34	NTS	34		RAFTER TO FLUSH BEAM 2939-01-CU02 - S422 - 24	1" = 1'-0"	24		ROOF RAFTER TO BEAM 2939-01-CU02 - S422 - 14	1" = 1'-0"	14

City of

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COACHELLA ADUS

COACHELLA, CA

ROOF FRAMING DETAILS

PUBLIC SET

DATE
JANUARY 11, 2024
SHEET
S-422