

CITY OF PICO RIVERA

PRE APPROVED STANDARD PLANS FOR ACCESSORY DWELLING UNIT

PROJECT ADDRESS: _____



CITY OF PICO RIVERA
COMMUNITY & ECONOMIC
DEVELOPMENT DEPARTMENT
6615 PASSONS BLVD.
PICO RIVERA, CA 90660
PHONE: (562) 801-4332

DATE: 1/1/2025

PICO RIVERA PRE - APPROVED ADU
PICO-RIVERA, CA

- FOR USE IN THE CITY OF PICO RIVERA ONLY -

THE PLANS ARE PRE-APPROVED FOR AN ADU IN CITY OF PICO RIVERA ONLY. HOWEVER, THE PRE-APPROVED ADU PLAN WILL STILL NEED TO BE SUBMITTED TO THE CITY FOR PLAN CHECK REVIEW FOR EACH INDIVIDUAL PROPERTY WHERE THE ADU WILL BE BUILT.

BY USING THESE PERMIT READY CONSTRUCTION DOCUMENTS, THE RECIPIENT, OWNERS AGREE TO RELEASE, HOLD HARMLESS, AND INDEMNIFY THE CITY OF PICO RIVERA, ITS ELECTED OFFICIALS AND EMPLOYEES AND THE ARCHITECT/ENGINEER WHO PREPARED THE CONSTRUCTION DOCUMENTS FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS, AND DEMANDS ON ACCOUNT OF ANY INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY, INCLUDING INJURY OR DEATH, OR ECONOMIC LOSSES, ARISING OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS. THE USE OF THESE PERMIT READY CONSTRUCTION DOCUMENT DOES NOT ELIMINATE OR REDUCE THE OWNER'S OR CONTRACTOR'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION RELEVANT TO THE RECIPIENT'S WORK AND RESPONSIBILITY ON THIS PROJECT.

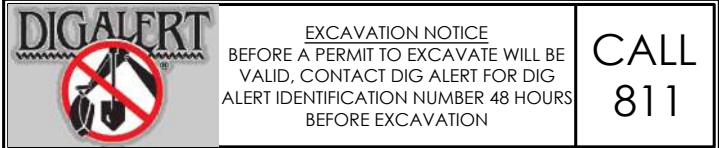
SHEET DESCRIPTION

COVER SHEET

SHEET NO.

T-0.0

GENERAL NOTES	USE OF THESE DOCUMENTS	PROJECT INFORMATION	SUPPORTING DOCUMENTS	SHEET INDEX
<div><div>1. AT THE TIME OF PERMIT ISSUANCE, CONTRACTOR SHALL SHOW THEIR VALID WORKERS' COMPENSATION INSURANCE CERTIFICATE.</div><div>2. ALL WORK SHALL CONFORM TO ALL REQUIREMENTS OF STATE OF CALIFORNIA TITLE 24 REGARDLESS OF THE INFORMATION INDICATED ON THESE PLANS. IT IS THE RESPONSIBILITY OF THE INDIVIDUAL SUPERVISING THE CONSTRUCTION TO ENSURE THAT THE WORK IS DONE IN ACCORDANCE WITH CODE REQUIREMENTS PRIOR TO REQUESTING INSPECTION.</div><div>3. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC RIGHT-OF-WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN DISPOSED OF AS A SOLID WASTE.</div><div>4. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC, THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEEP UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.</div><div>5. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.</div><div>6. TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.</div><div>7. FUELS, OILS, SOLVENTS AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER.</div><div>8. THE ISSUANCE OF A PERMIT SHALL NOT PREVENT THE BUILDING OFFICIAL FROM REQUIRING THE CORRECTION OF ERROR ON THESE PLANS OR FROM PREVENTING ANY VIOLATION OF THE CODES ADOPTED BY THE CITY, RELEVANT LAWS, ORDINANCES, RULES AND/OR REGULATIONS.</div><div>9. FOR SINGLE FAMILY DWELLINGS AND MULTI FAMILY DWELLINGS BUILT ON OR BEFORE JAN 1 1994: FOR ALL ALTERATIONS OR IMPROVEMENTS, AS A CONDITION FOR ISSUANCE OF A CERTIFICATE OF FINAL COMPLETION AND OCCUPANCY OR FINAL PERMIT APPROVAL, ALL NON COMPLIANT PLUMBING FIXTURES SHALL BE REPLACED WITH WATER CONSERVING FIXTURES PURSUANT TO CALIFORNIA CIVIL CODE SECTION 1101.1 AND THE CALIFORNIA GREEN BUILDING STANDARDS CODE SECTION 4.303.1</div><div>10.HERS WATER VERIFICATION IS REQUIRED FOR THIS PROJECT. SEE CR-1R FOR FEATURES REQUIRING HERS VERIFICATION.</div></div>	<div><div>THIS PLAN IS PROVIDED BY THE CITY OF PICO RIVERA PRE-APPROVED ADU PROGRAM AND IS PUBLIC DOMAIN. THERE SHALL NOT BE A CHARGE TO PROVIDE THIS PLAN.</div><div>THIS STANDARD PLAN SET MAY BE USED FOR PERMITTING AND CONSTRUCTION WITHIN THE DESIGN OF THIS PROTOTYPE. THESE PLANS MAY NOT BE MODIFIED AND SHALL NOT BE DEVIATED DURING CONSTRUCTION. ANY CHANGE, MODIFICATION OR DEVIATION SHALL INVALIDATE THE BUILDING PERMIT AND A RE-DESIGNED PLAN SHALL BE SUBMITTED TO THE CITY OF PICO RIVERA FOR REVIEW.</div><div>A CITY OF PICO RIVERA BUILDING PERMIT FOR CONSTRUCTION OF THE ACCESSORY DWELLING UNIT SHALL BE OBTAINED BEFORE COMMENCEMENT OF CONSTRUCTION. APPROVALS FROM APPLICABLE CITY DEPARTMENTS SHALL BE OBTAINED, AND REQUIRED FEES PAID PRIOR TO OBTAINING THE BUILDING PERMIT.</div><div>IF YOU DO NOT HAVE THE CONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONSTRUCT 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 THE BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.</div></div> <div><div>FIRE-RESISTANCE REQ.</div><div>DWELLING & ACCESSORIES WITHOUT AUTOMATIC RESIDENTIAL FIRE SPRINKLER PROTECTION [R302.1; TABLE R302.1(1)]<div><div>1. EXTERIOR WALLS LESS THAN 5-FT OF PROPERTY LINE SHALL BE ONE-HOUR RATED PER ASTM E 119 OR UL 263 WITH EXPOSURE FROM BOTH SIDES</div><div>2. PROJECTIONS THAT EXTEND BETWEEN 2-FT AND LESS THAN 5-FT OF THE PROPERTY LINE SHALL HAVE A ONE-HOUR FIRE RATED PROTECTION ON THE UNDERSIDE. PROJECTIONS CANNOT EXTEND CLOSER THAN 2-FT OF THE PROPERTY LINE.</div><div>3. OPENINGS IN EXTERIOR WALLS WITHIN 5-FT OF THE PROPERTY LINE IS LIMITED TO 25% OF THE WALL AREA. OPENINGS ARE NOT ALLOWED WHEN WALLS ARE CLOSER THAN 3-FT TO THE PROPERTY LINE.</div></div><div>DWELLING & ACCESSORIES WITH AUTOMATIC RESIDENTIAL FIRE SPRINKLER PROTECTION [R302.1; TABLE R302.1(2)]<div><div>1. EXTERIOR WALLS LESS THAN 3-FT OF PROPERTY LINE SHALL BE ONE-HOUR RATED PER ASTM E 119 OR UL 263 WITH EXPOSURE FROM BOTH SIDES</div><div>2. PROJECTIONS THAT EXTEND BETWEEN 2-FT AND LESS THAN 3-FT OF THE PROPERTY LINE SHALL HAVE A ONE-HOUR FIRE RATED PROTECTION ON THE UNDERSIDE. PROJECTIONS CANNOT EXTEND CLOSER THAN 2-FT OF THE PROPERTY LINE.</div><div>3. OPENINGS ARE NOT ALLOWED WHEN EXTERIOR WALLS ARE CLOSER THAN 3-FT TO THE PROPERTY LINE.</div></div></div><div><div>WHERE APPROVED SITE PLAN SPECIFIES 1-HR RATED WALLS:<div><div>• EXTERIOR WALLS SHALL COMPLY WITH DETAIL 1/A-40</div><div>• EXTERIOR PROJECTIONS SHALL COMPLY WITH EAVE AND RAKE DETAILS FOR 1-HR FIRE RESISTANT CONSTRUCTION</div></div></div><div>FIRE SPRINKLER SYSTEM IS REQUIRED FOR ADU PER CA ASSEMBLY BILL AB-976 IF ANY OF THE FOLLOWING CONDITIONS ARE PRESENT:<div><div>1. THE MAIN RESIDENCE HAS OR IS REQUIRED TO HAVE A FIRE SPRINKLER SYSTEM.</div><div>2. THE MINIMUM FIRE FLOW REQUIREMENT IS NOT MET (1000gpm @ 20psi, CFC 2022 SECTION B105). COPY OF FIRE FLOW CAN BE OBTAINED FROM THE WATER PURVEYOR SERVICING THE PARCEL.</div></div><div>PICO RIVERA WATER AUTHORITY - (562) 801-4404 PICO WATER DISTRICT - (562) 692-3756</div><div>3. THE MINIMUM REQUIRED DISTANCE TO NEAREST FIRE HYDRANT IS NOT MET (ALL EXTERIOR PORTION OF PROPOSED ADU'S 1ST FLOOR SHALL BE WITHIN 400-FT OF FIRE HYDRANT. (CFC 2022 SECTION 507.5.1)</div><div>WHEN SPRINKLERS ARE REQUIRED:<div><div>1. DETAILED SPRINKLER PLANS SHALL BE SUBMITTED TO THE FIRE DEPARTMENT AND APPROVED PRIOR TO INSTALLATION. PLANS AND INSTALLATION MUST BE BY A C16 LICENSED SPRINKLER CONTRACTOR.</div><div>2. SECTION 903.3.1.3 NFPA 13D SPRINKLER SYSTEMS AUTOMATIC FIRE SPRINKLER SYSTEMS INSTALLED IN ONE-AND TWO-FAMILY DWELLINGS, GROUP R-3, AND TOWNHOUSES SHALL BE PERMITTED TO BE INSTALLED THROUGHOUT IN ACCORDANCE WITH THE CURRENT EDITION OF NFPA 13D AMENDED IN CHAPTER 35.</div><div>3. SECTION 903.2.8 GROUP R - AN AUTOMATED SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3 SHALL BE PROVIDED THROUGHOUT ALL BUILDINGS WITH A GROUP R FIRE AREA.</div><div>4. SECTION 903.2.8.1 GROUP R-3 AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.3 SHALL BE PERMITTED IN GROUP R-3 OCCUPANCIES.</div><div>5. LOCATION AND SIZE OF WATER SERVICE UNDERGROUND SHALL BE INSTALLED AS SHOWN ON APPROVED FIRE SPRINKLER PLANS. A MINIMUM 1-INCH WATER SHALL BE INSTALLED.</div><div>6. A HYDRO INSPECTION OF THE FIRE SPRINKLER SYSTEM IS REQUIRED PRIOR TO FRAME INSPECTION. ONLY THE NEW PIPING SHALL BE TESTED.</div></div></div></div></div></div></div>	<div><div>PROJECT SCOPE:</div><div><div>1. CONSTRUCTION OF A NEW DETACHED SINGLE STORY ACCESSORY DWELLING UNIT (800 SQ.FT.) WITH (2)-BEDROOM, (1)-BATH, AND COVERED FRONT PORCH (68 SQ.FT.)</div><div>2. ALL SITE WORK WITHIN THE PROPERTY LINE</div><div>3. ALL WORK SHOWN IN THE DRAWINGS AND SPECIFICATIONS ONLY.</div></div><div><div>AREAS:</div><div>MAIN SFD: _____ SQ.FT.</div><div>ADU: _____ 800 SQ.FT.</div><div>PROPOSED HEIGHT: _____ 13'-1"</div></div><div><div>BUILDING INFORMATION: (OWNER TO COMPLETE)</div><div><div>• NUMBER OF STORIES: _____</div><div>• OCCUPANCY GROUP: _____ R-3</div><div>• CONSTRUCTION TYPE: _____ VB</div><div>• APN: _____</div><div>• ZONING DESIGNATION _____</div><div>• LOT SIZE: _____</div><div>• FIRE SPRINKLERS: _____</div><div>• EXISTING SQUARE FOOTAGE: _____</div></div><div>(THIS SHOULD INCLUDE EXISTING RESIDENCE, GARAGE, SHEDS, ETC)</div><div><div>• PROPOSED SQUARE FOOTAGE: _____</div></div><div><div>APPLICABLE CODES: 2022 CBC, 2022 CRC, 2022 CPC, 2022 CMC, 2022 CEC, 2022 CGC, 2022CenC W/ CITY OF PICO RIVERA AMENDMENTS</div></div><div><div>MAXIMUM ALLOWABLE LOT COVERAGE:</div><div><div>• S-F ZONE:<div>LOT < 5,500 SQ.FT. = 45 %</div><div>LOT > 5,500 SQ.FT. = 40 %</div></div><div>• R-E ZONE:<div>ANY LOT SIZE = 35 %</div></div></div><div><div>LOT COVERAGE CALCULATION</div><div><div>1. (E) MAIN SFD<div>2. (E) GARAGE<div>3. (E) ACCESSORY STRUCTURES</div></div></div><div><div>4. (N) PORCH 68.0 SQ.FT.</div><div>5. (N) ADU 800.0 SQ.FT.</div></div><div>TOTAL EXISTING LIVING SPACE<div>TOTAL EXISTING NON-LIVING SPACE</div></div><div>TOTAL NEW LIVING SPACE<div>TOTAL NEW NON-LIVING SPACE</div></div><div>FOOT PRINT AREA</div><div>LOT AREA<div>LOT COVERAGE</div></div></div></div></div></div></div>	<div><div>THE FOLLOWING SUPPORTING DOCUMENTS MUST BE SUBMITTED BY THE OWNER / APPLICANT FOR CITY APPROVAL PRIOR TO CONSTRUCTION:</div><div><div>1. SITE PLAN.</div><div>2. REGISTERED ENERGY CALCULATIONS TO BE SITE SPECIFIC.</div></div><div>FOR ENERGY INFORMATION VISIT:<div><div>WWW.ENERGY.CA.GOV</div><div>WWW.CHEERS.ORG/FIND-A-PRO/</div><div>WWW.ENERGYCODEACE.COM</div></div><div>3. A SOLAR PHOTOVOLTAIC ENERGY SYSTEM (SOLAR PV PANELS) MUST BE INSTALLED PURSUANT TO CALIFORNIA ENERGY CODE SECTION 150.1.C.14. A SEPARATE PERMIT MUST BE OBTAINED AND INSTALLATION OF THE PV SYSTEM MUST BE COMPLETE AND APPROVED BY THE BUILDING & SAFETY DIVISION PRIOR TO THE FINAL OF THE PERMIT.</div><div>CONTACT PICO RIVERA INNOVATIVE MUNICIPAL ENERGY (PRIME) AT (562) 801-4027 OR SUSTAINABILITY@PICO-RIVERA.ORG TO DISCUSS THE PRIME POWER CHOICE PROGRAM.</div><div>4. PROPERTY LINE SURVEY FOR NEW CONSTRUCTION WITHIN 5-FT FROM PROPERTY LINES.<div>4.1. THE PROPERTY LINES SURVEY SHALL BE DONE BY A CALIFORNIA STATE LICENSED LAND SURVEYOR OR ENGINEER. PROPERTY LINES SHALL BE STAKED AND PROPER DOCUMENTATION BY THE RESPONSIBLE LICENSED LAND SURVEYOR OR ENGINEER SHALL BE SUBMITTED TO THE BUILDING INSPECTOR PRIOR TO FOUNDATION INSPECTION APPROVAL.</div></div></div><div><div>SITE PLAN</div><div>THE FOLLOWING MINIMUM INFORMATION MUST BE PROVIDED ON AN OWNER-PROVIDED SITE PLAN AND MUST BE DRAWN TO SCALE ON A 24"x 36" SHEETS. ADDITIONAL INFORMATION MAY BE REQUESTED ON A CASE-BY-CASE BASIS.</div><div><div>• SIZE AND LOCATION OF ALL STRUCTURES ON SITE</div><div>• DIMENSION TO PROPERTY LINES<div>•• THE ADU SHALL MAINTAIN A MINIMUM 4-FT SETBACK TO PROPERTY LINES.</div></div><div>• DIMENSION TO OTHER STRUCTURES ON SITE MEASURED EAVE-TO-EAVE.</div><div>• ACCESS INTO THE SITE (DRIVEWAY)</div><div>• LOCATION OF ALL TREES ON SITE</div><div>• ALL ADDRESSES ON EACH UNIT</div><div>• VICINITY MAP DEMONSTRATING WHETHER THE PROPERTY IS LOCATED WITHIN ONE-HALF MILE WALKING DISTANCE OF A PUBLIC TRANSIT STOP.</div><div>• LOCATION & SIZE OF OF ELECTRICAL SERVICE PANEL & SUB-PANELS</div><div>• LOCATION OF PROPOSED HEATING / COOLING EQUIPMENT PER ENERGY DOCUMENTATION SERVING THE DWELLING<div>•• ASSOCIATED MECHANICAL EQUIPMENT (AC CONDENSER / HEAT PUMP) SHALL MAINTAIN A MINIMUM 3-FT SETBACK FROM PROPERTY LINE AND SHALL BE SCREENED FROM THE PUBLIC-RIGHT-OF-WAY AND NEIGHBORING PROPERTIES.</div></div><div>• LOCATION OF PROPOSED WATER HEATER PER ENERGY DOCUMENTATION SERVING THE DWELLING</div><div>• TANK WATER HEATER SHALL BE LOCATED WITHIN A METAL OR STUCCO ENCLOSURE PAINTED TO MATCH RESIDENCE.</div><div>• SEWER LINE ROUTE & CONNECTIONS</div><div>• SITE DRAINAGE AWAY FROM THE NEW FOUNDATION AND DIRECT SITE DRAINAGE TO A STORM SEWER CONVEYANCE SYSTEM, PUBLIC STREET, OR OTHER APPROVED POINT OF COLLECTION.<div>•• SHOW RELATIVE OR ACTUAL ELEVATION POINTS, SLOPE, AND/OR DIRECTION OF FLOW</div></div></div></div><div><div>FOUNDATION SYSTEM</div><div>1. THIS PROJECT IS DESIGNED WITH A SLAB-ON-GRADE FOUNDATION AND ASSUMED A FLAT SITE WITH STANDARD SOIL.</div><div>2. IF THE ADU IS TO BE LOCATED ON A SLOPE / HILLSIDE OR EXPANSIVE SOIL, THIS PLAN SET CANNOT BE USED FOR PERMITTING OR CONSTRUCTION.</div></div></div>	<div><div>GENERAL</div><div>T-0.0 COVER SHEET & PROJECT DATA</div><div>GRN-1 CA GREEN BUILDING STANDARDS</div><div>GRN-2 CA GREEN BUILDING STANDARDS</div><div>BMP-1 BEST MANAGEMENT PRACTICE</div></div> <div><div>ENERGY COMPLIANCE</div><div>T24-1 ENERGY ANALYSIS</div><div>T24-2 ENERGY ANALYSIS (SAMPLE - NO REGISTER) (OWNER TO PROVIDE SITE SPECIFIC ANALYSIS)</div></div> <div><div>ARCHITECTURAL</div><div>A-0.1 ARCHITECTURAL NOTES</div><div>A-1.0 SAMPLE SITE PLAN (OWNER TO PROVIDE SITE SPECIFIC SITE PLAN)</div><div>A-2.0 FLOOR PLAN</div><div>A-2.1 ROOF PLAN & CROSS SECTIONS</div><div>A-3.0 ELEVATIONS</div><div>A-4.0 ARCHITECTURAL DETAILS</div></div> <div><div>STRUCTURAL</div><div>SN STRUCTURAL NOTES</div><div>S-1 FOUNDATION PLAN & FRAMING PLAN</div><div>SD1 STRUCTURAL DETAILS</div><div>SD2 STRUCTURAL DETAILS</div></div> <div><div>DIRECTORY</div><div>PROPERTY OWNER</div><div>NAME: _____</div><div>ADDRESS: _____</div><div>PHONE: _____</div><div>E-MAIL: _____</div><div>SITE PLAN & TITLE SHEET INFORMATION PREPARED BY:</div><div>COMPANY: _____</div><div>CONTACT PERSON: _____</div><div>ADDRESS: _____</div><div>PHONE: _____</div><div>E-MAIL: _____</div><div>ENERGY CALCULATIONS PREPARED BY:</div><div>COMPANY: _____</div><div>CONTACT PERSON: _____</div><div>ADDRESS: _____</div><div>PHONE: _____</div><div>E-MAIL: _____</div><div>FOOTPRINTS</div><div>SCALE: 1/8" = 1'-0"</div><div><div>31'-0"</div><div>28'-0"</div><div>24'-0"</div><div>14'-0"</div><div>17'-0"</div><div>4'-0"</div><div>(N) ADU 800.0 SQ. FT.</div><div>(N) PORCH 68.0 SQ. FT.</div></div></div>



(January 2023)

	Y	=	YES
	N/A	=	NOT APPLICABLE
	RESPON. PARTY	=	RESPONSIBLE PARTY (i.e: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

CITY OF PICO RIVERA: PRE-APPROVED ADJ. DATE: 1/1/2025

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
RESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2023)

Y N/A RESPON. PARTY
MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram (g O3/g ROG).
MOISTURE CONTENT. The weight of the water in wood expressed in percentage of the weight of the oven-dry wood.
PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article.
REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.
VOC. A volatile organic compound (VOC) broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature.
4.503 FIREPLACES
4.503.1 GENERAL. Any installed gas fireplace shall be a direct-vent sealed-combustion type.
4.504 POLLUTANT CONTROL
4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION.
4.504.2 FINISH MATERIAL POLLUTANT CONTROL.
4.504.2.1 Adhesives, Sealants and Caulks.
4.504.2.2 Paints and Coatings.
4.504.2.3 Aerosol Paints and Coatings.
4.504.2.4 Verification.

TABLE 4.504.2 - SEALANT VOC LIMIT
TABLE 4.504.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS
TABLE 4.504.1 - ADHESIVE VOC LIMIT

Y N/A RESPON. PARTY
TABLE 4.504.5 - FORMALDEHYDE LIMITS
DIVISION 4.5 ENVIRONMENTAL QUALITY (continued)
4.504.3 CARPET SYSTEMS.
4.504.3.1 Carpet cushion.
4.504.3.2 Carpet adhesive.
4.504.4 RESILIENT FLOORING SYSTEMS.
4.504.5 COMPOSITE WOOD PRODUCTS.
4.504.5.1 Documentation.
4.505 INTERIOR MOISTURE CONTROL
4.505.1 General.
4.505.2 CONCRETE SLAB FOUNDATIONS.
4.505.2.1 Capillary break.
4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS.
4.506 INDOOR AIR QUALITY AND EXHAUST
4.506.1 Bathroom exhaust fans.
4.507 ENVIRONMENTAL COMFORT
4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN.

Y N/A RESPON. PARTY
CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS
702 QUALIFICATIONS
702.1 INSTALLER TRAINING.
702.2 SPECIAL INSPECTION [HCD].
703 VERIFICATIONS
703.1 DOCUMENTATION.



CITY OF PICO RIVERA
COMMUNITY & ECONOMIC
DEVELOPMENT DEPARTMENT
6615 PASSONS BLVD.
PICO RIVERA, CA 90660
PHONE: (562) 801-4332

DATE: 1/1/2025

PICO RIVERA PRE - APPROVED ADU
PICO-RIVERA, CA

- FOR USE IN THE CITY OF PICO RIVERA ONLY -
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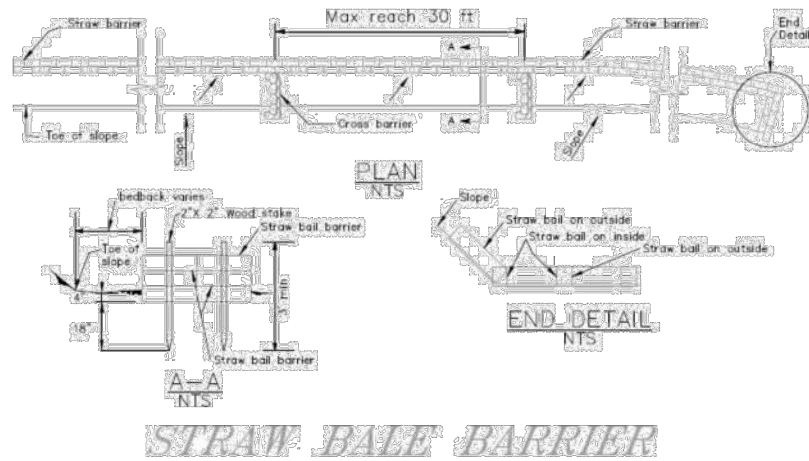
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SHEET DESCRIPTION
CALIFORNIA GREEN BUILDING STANDARDS

SHEET NO.

GRN-2

BEST MANAGEMENT PRACTICE



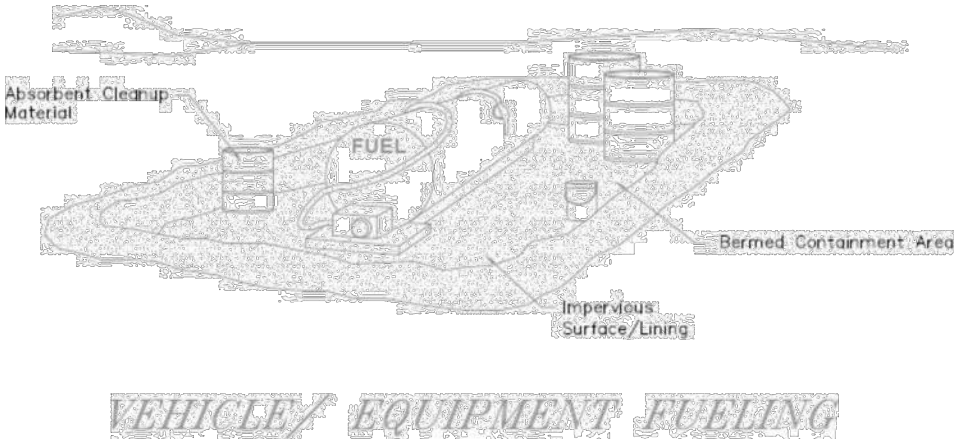
A straw bale border is a temporary linear sediment barrier consisting of straw bales, designed to intercept and slow sediment laden sheet flow runoff. Straw bale barriers allow sediment to settle from runoff before water leaves the construction site.

Notes:

1. Place along the perimeter of a site, streams and channels, and/or around stockpiles.
2. Place below the toe of exposed and erodible slopes.
3. Place downslope of exposed soil areas.
4. Place parallel to roadway to keep sediment off paved areas.
5. Do no use for drain inlet protection or in areas of concentrated flows.
6. Straw bale to be minimum of 14 inches wide, 18 inches in height, and 36 inches in length.
7. Shall be composed entirely of vegetative material, except for the binding material.
8. Bale bindings shall be either steel wire, nylon or polypropylene string placed horizontally.
9. Commercial quality lumber shall be used for 2 inch by 2 inch wood stakes of adequate length.
10. Limit the drainage area upstream of the border to 0.25 ac/100 ft.
11. Limit the slope length draining to the straw bale barrier to 100 ft.
12. Slopes of 2 percent or flatter area preferred.
13. If slope exceeds 10 percent, the length of the slope upstream of the barrier must be less than 50 ft.
14. Install straw barrier along a level contour, in a trench and tightly about adjacent bales.
15. Last straw bale on end needs to be turned up slope.
16. Inspect straw bale barriers before and after each rain event.
17. Inspect straw bale barriers for sediment accumulations and remove sediment when depth reaches 1/3 of barrier height.
18. Replace or repair damaged bales as needed.

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BEST MANAGEMENT PRACTICE

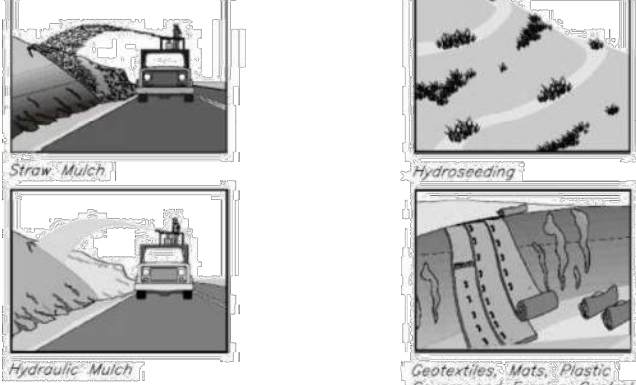


Notes:

1. Fueling shall be performed in a designated area and away from drainage courses.
2. Absorbent cleanup material shall be on site and used immediately in the event of a spill.
3. Drip pans or absorbent pads shall be used during vehicle and equipment fueling, unless the fueling is performed over an impermeable surface in a dedicated fueling area.
4. Dedicated fueling areas shall be protected from storm water run-on and runoff, and shall be located at least 50 feet from downstream drainage facilities and water courses. Fueling must be performed on level-grade areas.
5. Protect fueling areas with berms and/or dikes to prevent run-on, runoff, and to contain spills.

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BEST MANAGEMENT PRACTICE

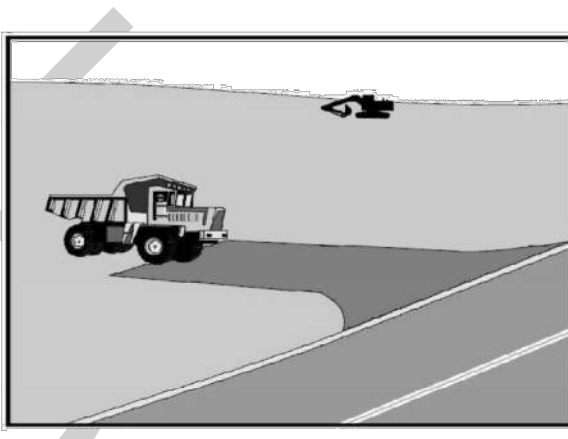


Notes:

1. Soil/Slope stabilization practices shall be designed to preserve existing vegetation where feasible and to re-vegetate open areas as soon as feasible after grading. These control practices shall include temporary seeding, permanent seeding, mulching, sod stabilization, vegetative hugger strips, protection of trees, or other soil stabilization practices.
2. Soil stabilization shall be implemented on all inactive disturbed areas from October 1 thru May 30 and on all disturbed areas during a rain event or potential rain.
3. Soil stabilization practices shall control/prevent erosion from the forces of wind and water.
4. Stabilization practices shall be implemented in conjunction with sediment trapping/filtering practices and practices to reduce the tracking of sediment onto paved roads.
5. When using straw mulching, the minimum application shall be 2 tons/acre. Mulch must be anchored immediately to minimize loss by wind or water.
6. When using hydros seeding/mulching, the minimum application of wood fiber shall be 1,500 lbs/acre, that does not contain more than 50 percent newsprint.
7. For seeding recommendations, contact: USDA, Natural Resource Conservation Service at 44811 Dale Ave, Lancaster, CA 95334-3136. Phone: (661) 945-2604
8. When using hydraulic mulch, the application shall be between 1 to 2 tons per acre.
9. Geotextiles, mats, plastic covers, and erosion control blankets should be considered when disturbed soils may be particularly difficult to stabilize.
10. For geotextiles, mats, and erosion control blankets, installation should be in accordance with manufacture's recommendations. Typically, overlap of geotextiles/mats edge is 2 to 3 inch end-over-end (single style) with 6 inch overlap and staple throughout overlapped area, approximately 12 inch apart.

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BEST MANAGEMENT PRACTICE



Notes:

1. Sediments and other materials shall not be tracked from the site by vehicle traffic. The construction entrance roadways shall be stabilized so as to prevent sediments from being deposited into the public roads. Sediment deposited on the roadway must be swept up immediately and may not be washed down by rain or other means into the storm drain system. See Type 1 and Type 2 details.
2. Stabilized construction entrance shall be:
 - a. Located at any point where traffic will be entering or leaving a construction site or from a public right of way, street, alley, and sidewalk or parking area.
 - b. A series of steel plates with "rumble strips" and/or min >3" and/or min <6" crushed aggregate with length, width & thickness as needed to adequately prevent any tracking onto paved surfaces.
3. Adding a wash rack with a sediment trap large enough to collect all wash water can greatly improve efficiency.
4. All vehicles accessing the construction site shall utilize the stabilized construction entrance sites.
 - a. Remove all sediment deposited on paved roadways immediately.
 - b. Sweep paved areas that receive construction traffic whenever sediment becomes visible.
 - c. Pavement washing with water is prohibited if it results in a discharge to the storm drain system.

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BEST MANAGEMENT PRACTICE

BEST MANAGEMENT PRACTICE NOTES:

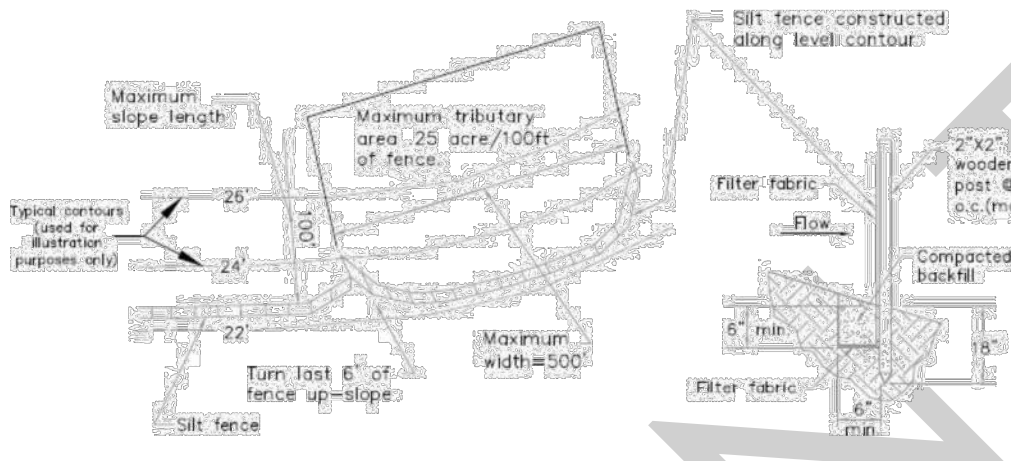
1. Every effort should be made to eliminate the discharge of non-storm water from the project site at all times.
2. Eroded sediments and other pollutants must be retained on-site and may not be transported from the site via sheet flow, swales, area drains, natural drainage courses or wind.
3. Stockpiles of earth and other construction related materials must be protected from being transported from the site by the forces of wind or water.
4. Fuels, oils, solvents, and other toxic materials must be stored in accordance with their listing and are not to contaminate the soil and surface waters. All approved storage containers are to be protected from the weather. Spills must be cleaned up immediately and disposed of in a proper manner. Spills may not be washed into the drainage system.
5. Excess or waste concrete may not be washed into the public way or any other drainage system. Provisions shall be made to retain concrete wastes on-site until they can be disposed of as solid waste.
6. Trash and construction related solid wastes must be deposited into a covered receptacle to prevent contamination of rainwater and dispersal by wind.
7. Sediments and other materials may not be tracked from the site by vehicle traffic. The construction entrance roadways must be stabilized so as to inhibit sediments from being deposited into the public way. Accidental depositions must be swept up immediately and may not be washed down by rain or other means.
8. Any slopes with disturbed soils or vegetation must be stabilized so as to inhibit erosion by wind and water.

"I certify that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I am aware that submitting false and/or inaccurate information, failing to update the plans to reflect current conditions, or failing to properly and/or adequately implement BMP's may result in revocation of grading and/or other permits or other sanctions provided by law."

Print Name _____
(Owner or authorized agent of the owner)
Signature _____ Date _____
(Owner or authorized agent of the owner)

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BEST MANAGEMENT PRACTICE

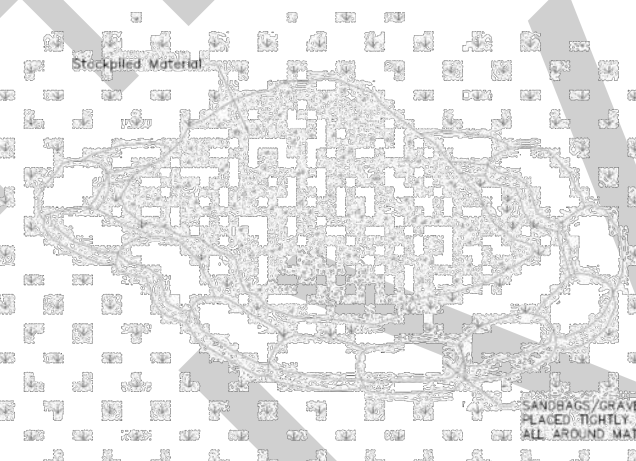


Notes:

1. Construct the silt fence along a level contour.
2. Silt fences shall remain in place until the disturbed area is permanently stabilized.
3. Provide sufficient room for runoff to pond behind the fence and allow sediment removal equipment to pass between the silt fence and toe of slope or other obstructions. About 1,200 sq.-ft. of ponding area shall be provided for every acre draining to the fence.
4. Turn the ends of the filter fence uphill to prevent storm water from flowing around the fence.
5. Leave an undisturbed or stabilized area immediately downslope from the fence.
6. Do not place in live stream or intermittently flowing channels.
7. When standard filter fabric is used, a wire mesh support fence shall be fastened securely to the upslope side of the post using heavy-duty (0.6 inch) wire staples at least 1.75 inches long, tie wires or hog rings.
8. Filter fabric shall be woven polypropylene geotextile with a minimum width of 36 inches and a minimum tensile strength of 100 lb force.
9. Wood stakes shall be commercial quality lumber no less than 2 inch by 2 inch. Wood stakes shall be driven to a depth of no less than 18 inches from surface.

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BEST MANAGEMENT PRACTICE

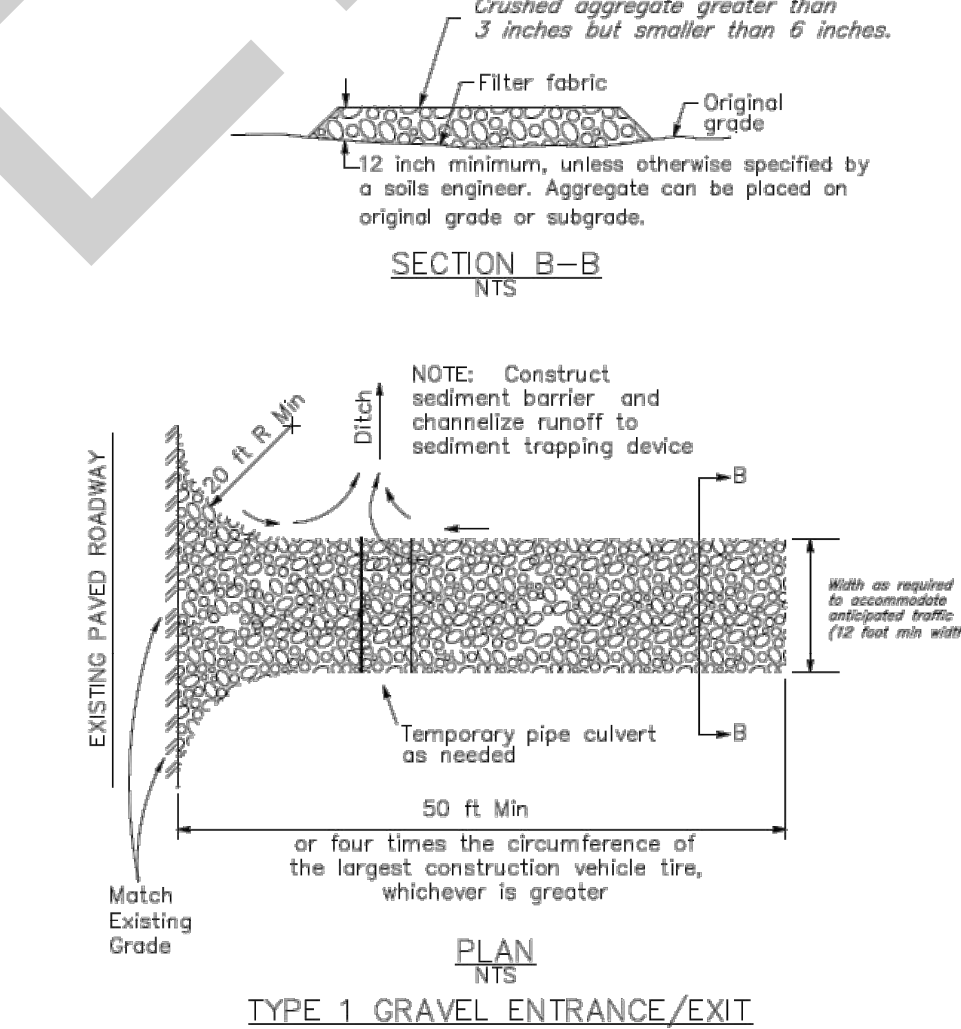


Notes:

1. Stockpile management procedures and practices are designed to reduce or eliminate air and storm water pollution from stockpiles of soil, and paving materials such as Portland cement concrete (PCC) rubble, asphalt concrete (AC), asphalt concrete rubble, aggregate base, aggregate sub-base or pre-mixed aggregate, asphalt binder and pressure treated wood.
2. Protection of stockpile is a year-round requirement.
3. Locate stockpiles a minimum of 50 feet away from concentrated flows of storm water, drainage course, and drain inlets.
4. Implement wind erosion/transport control practices as appropriate.
5. All stockpiles shall be covered, stabilized, or protected with a temporary linear barrier (i.e. sandbags, etc.) prior to the onset of precipitation.

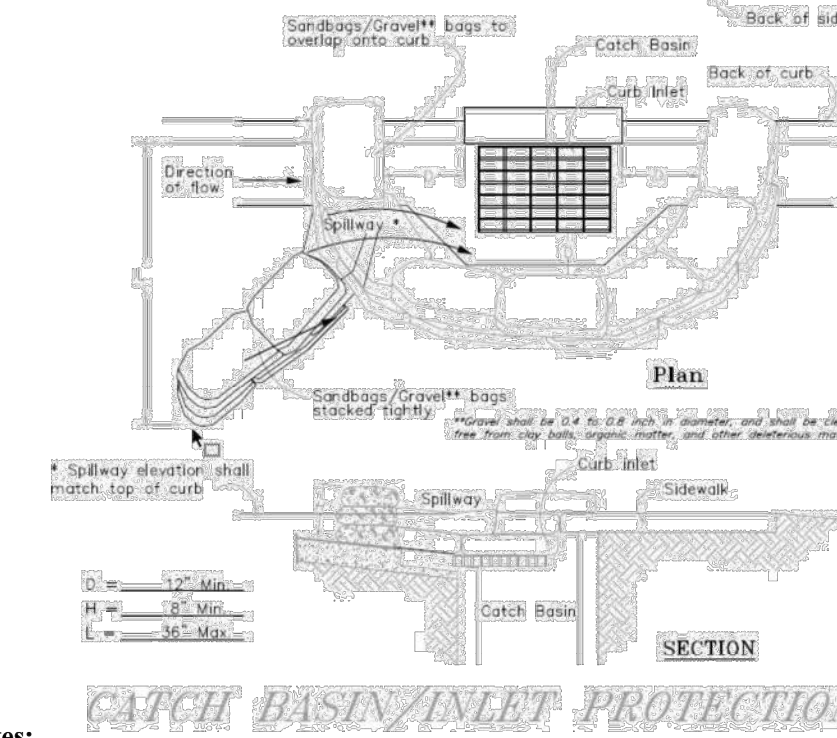
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BEST MANAGEMENT PRACTICE



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BEST MANAGEMENT PRACTICE

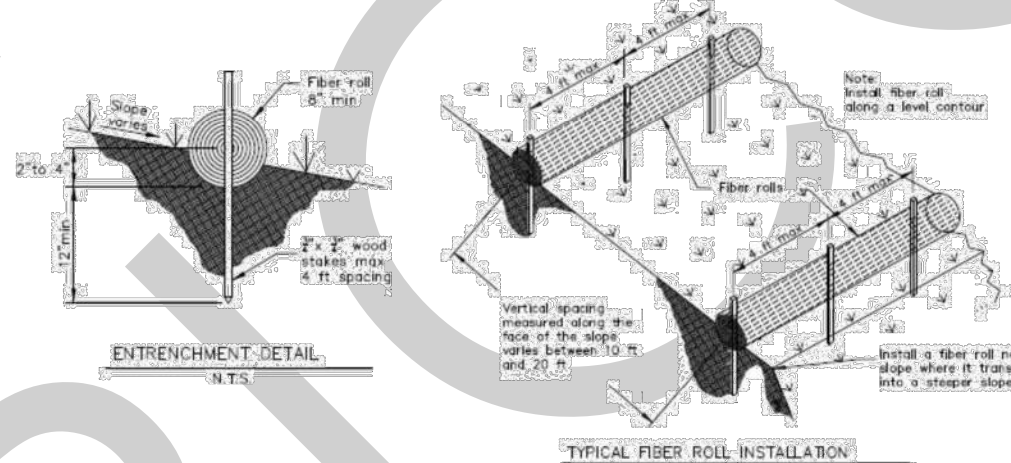


Notes:

1. Catch Basin/Inlet protection shall be installed wherever there is a potential of storm water or non-storm water being discharged into it.
2. Inlet protection is required along with other pollution prevention measures, such as erosion control, soil stabilization, and measures to prevent tracking onto paved surfaces.
3. Modify inlet protection as needed to avoid creating traffic hazards.
4. Include inlet protection measures at hillside v-ditches and misc. drainage swales.
5. Inlet protection shall be inspected and accumulated sediments removed. Sediment shall be disposed of properly and in a manner that assures that the sediment does not enter the storm drain system.
6. Damage bags shall be replaced immediately.
7. Additional sandbag sediment traps shall be placed at intervals as indicated on site plan.

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BEST MANAGEMENT PRACTICE

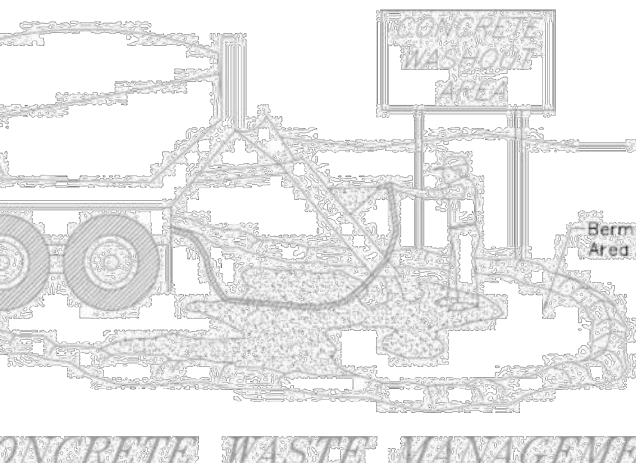


Notes:

1. Place along the toe, top, face, and at grade breaks of exposed and erodible slopes.
2. Place on the down-slope of exposed soil areas.
3. Place around temporary stockpiles.
4. Place along the perimeter of a project.
5. Slopes greater than 1:5 may require the use of 20 inch diameter fiber rolls at the top of slopes.
6. Fiber rolls shall be either prefabricated or rolled tubes of erosion control blankets with a minimum 8 inch diameter.
7. Slopes 1:4 or flatter require fiber rolls to be placed no more than 20 feet apart.
8. Slopes 1:4 to 1:2 require fiber rolls to be placed no more than 15 feet apart.
9. Slopes 1:2 or greater require fiber rolls to be placed no more than 10 feet apart.
10. Fiber rolls shall be placed in a 2 to 4 inch deep trench.
11. Wooden commercial grade stakes, 1/2" x 1/2", shall be used to secure the fiber roll to the ground surface. Stakes shall be a minimum length of 24 inches and driven a minimum 12 inches.
12. A single-stake installation required the stakes to be placed no more than 2 feet apart.
13. If more than one fiber roll is placed in a row, the rolls shall be overlapped, not abutted a minimum of 1 foot.

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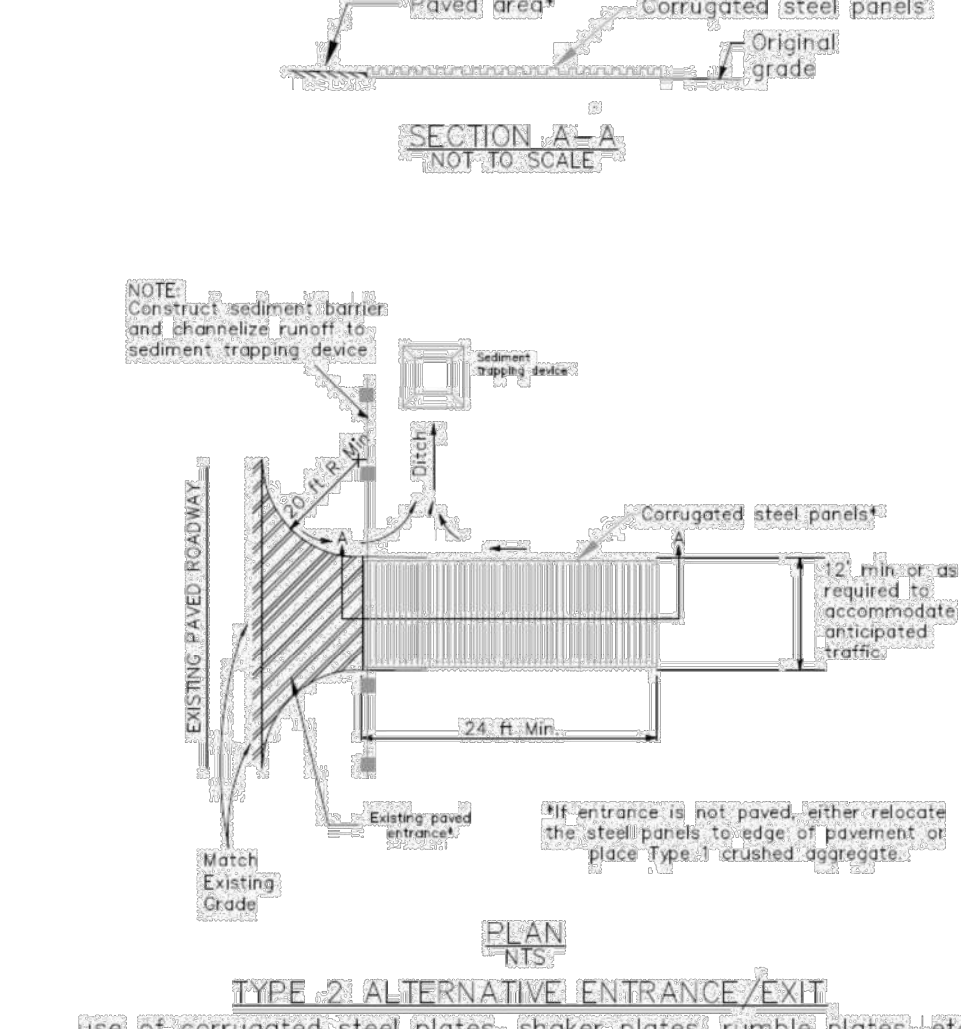


Notes:

1. Excess and waste concrete shall not be washed into the street or into a drainage system.
2. For washout of concrete and mortar products, a designated containment facility of sufficient capacity to retain liquid and solid waste shall be provided on site and disposed of properly off site.
3. Slurry from concrete and asphalt saw cutting shall be vacuumed or contained, dried, picked up, and disposed of properly.

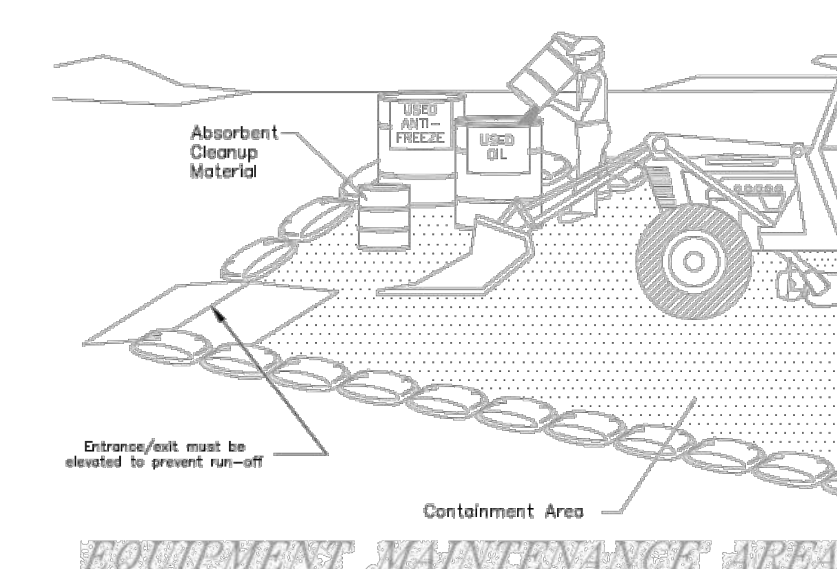
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BEST MANAGEMENT PRACTICE



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BEST MANAGEMENT PRACTICE



Notes:

1. Leaking vehicles and equipment shall not be allowed on site. Equipment and vehicles shall be inspected frequently for leaks and shall be repaired immediately. Clean up spills and leaks promptly with absorbent materials. Do not flush with water.
2. Vehicles and equipment shall be maintained and repaired on site only in designated areas. Prevent run-on and run-off from designated areas. Containment devices shall be provided and areas shall be covered if necessary.
3. Designate onsite vehicle and equipment maintenance areas, away from storm drain inlets and water courses.
4. Always use secondary containment, such as a drain pan or drop cloth, to catch spills and leaks when removing or changing fluids.
5. Legally dispose of used oils, fluids, lubricants, and batteries.
6. Provide spill containment dikes or secondary containment around stored oil, fuel, and chemical drums.
7. Maintain an adequate supply of absorbent spill cleanup materials in designated area.
8. It is the contractor's responsibility to regularly inspect the vehicle and equipment maintenance area(s).

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PICO RIVERA PRE - APPROVED ADU
PICO RIVERA, CA

- FOR USE IN THE CITY OF PICO RIVERA ONLY -
THE PLANS ARE PRE-APPROVED FOR AN ADU IN CITY OF PICO RIVERA ONLY. HOWEVER, THE PRE-APPROVED ADU PLAN WILL STILL NEED TO BE SUBMITTED TO THE CITY FOR PLAN CHECK REVIEW FOR EACH INDIVIDUAL PROPERTY WHERE THE ADU WILL BE BUILT.

BY USING THESE PERMIT READY CONSTRUCTION DOCUMENTS, THE RECIPIENT, OWNERS AGREE TO RELEASE, HOLD HARMLESS, AND DEEMIFY THE CITY OF PICO RIVERA, ITS ELECTED OFFICIALS AND EMPLOYEES AND THE ARCHITECT/ENGINEER WHO PREPARED THE CONSTRUCTION DOCUMENTS FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS, AND DEMANDS ON ACCOUNT OF ANY INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY, INCLUDING INJURY OR DEATH, OR ECONOMIC LOSSES, ARISING OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS. THE USE OF THESE PERMIT READY CONSTRUCTION DOCUMENT DOES NOT ELIMINATE OR REDUCE THE OWNER'S OR CONTRACTOR'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION RELEVANT TO THE RECIPIENT'S WORK AND RESPONSIBILITY ON THIS PROJECT.

SHEET DESCRIPTION
BEST MANAGEMENT PRACTICES

SHEET NO.
BMP-1

CITY OF PICO RIVERA: PRE-APPROVED ADU, DATE: 1/1/2025

2022 Single-Family Residential Mandatory Requirements Summary

§ 500.00	<p>Energy Storage System (ESS) Ready. All single-family residences must meet all of the following: Either ESS-ready interconnection equipment with backed up capacity of 60 amps or more and four or more ESS supplied branch circuits, or a dedicated roadway from the residence to a substation that is capable of supporting the ESS, and a dedicated branch circuit for the ESS, and a dedicated power source collocated at a single paneled subcircuit to be supplied by the ESS, with one circuit supplying the refrigerator, one lighting circuit, one primary exit, and one dedicated branch circuit for the ESS. Or the ESS is installed in a single-family residence with a minimum of 225 amps; sufficient space must be reserved to allow future installation of a system isolation equipment transfer switch within 3' of the main panelboard, with roadway installed between the panelboard and the switch and the switch to allow the connection of backup power source.</p> <p>Lump Space Heater Ready. All single-family residences must meet all of the following: Either a dedicated branch circuit for the heater installed 240V/branch circuit wiring installed within 3' of the furnace with circuit conductors rated at least 30 amps with the black cover identified as "240V ready," and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."</p> <p>Electric Cooktop Ready. Systems using gas or propane cooktop to serve individual dwelling units must include: A dedicated unswitched 240V/branch circuit wiring installed within 3' of the cooktop with circuit conductors rated at least 30 amps with the black cover identified as "240V ready," and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."</p> <p>240V/branch Circuit Dryer Ready. Either dryers locations with gas or propane plumbing to serve individual dwelling units must include: A dedicated unswitched 240V/branch circuit wiring installed within 3' of the dryer location with circuit conductors rated at least 30 amps with the black cover identified as "240V ready," and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."</p>
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*Exceptions may apply

5/6/22



Space Conditioning system Airflow Rate and Fan Efficiency. Space conditioning systems that use ducts to supply cooling to have a hole for the placement of a static pressure probe, or a permanently installed static pressure probe in the supply plenum. Airflow must be ≥ 300 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficiency ≥ 0.45 watts per CFM for gas furnace air handlers and ≥ 0.58 watts per CFM for electric air handlers. Small ductwork may be used for the supply and return air ductwork, but the cooling capacity, and the air-handling unit fan capacity ≥ 0.62 watts per CFM. Field verification testing is required in accordance with Reference Residential Appendix R3.3.*

Ventilation and Indoor Air Quality:

Requirements for Ventilation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.001(c).
A **Fan Integrated (FI) Ventilation System.** Continuous operation of FI or fan handles is not allowed to provide the whole-dwelling unit ventilation airflow required per § 150.001(C). A motorized damper(s) must be installed on the ventilation duct(s) that prevents all airflow through the space conditioning duct system when the damper(s) is closed and controlled per § 150.001(b)(4)(ii). CFI ventilation systems must have controls that track outdoor air ventilation run time, and either open or close the motorized damper(s) for compliance with § 150.001(C).

Whole-Dwelling Unit Mechanical Ventilation for Single-family Detached and Attached Units. Single-family detached dwelling units and attached dwelling units with two or more dwelling units on the same lot must have mechanical ventilation systems, public-garages, commercial spaces must have mechanical ventilation airflow specified in § 150.001(d)(4)(i)-(ii).

Local Mechanical Exhaust. Kitchens and bathrooms must have local mechanical exhaust; nonenclosed kitchens must have demand-controlled exhaust systems that meet the requirements of § 150.001(d)(4)(ii). Bathrooms must have mechanical exhaust with continuous exhaust meeting § 150.001(G) G1(a). Airflow must be measured by the installer per § 150.001(J)(1), and ratio for sound per § 150.001(G).

Airflow Measurement and Sound Ratings of Whole-Dwelling Unit Ventilation Systems. The airflow required per § 150.001(C) must be measured by using a flow hood, flow grid, or other airflow measuring device at the fan's inlet or outlet terminal/registers per Reference Residential Appendix R3.7. Whole-dwelling unit ventilation systems must be rated for sound per ASHRAE 62.2.31.4 or less than the minimum airflow rate required.

Field Verification and Diagnostic Testing. Whole-Dwelling Unit ventilation airflow, vented range hood airflow and sound rating, and HRV and ERV fan efficiency must be verified in accordance with Reference Residential Appendix R3.7. Vented range hoods must be verified per Reference Residential Appendix R3.7.4.3 to confirm it is rated by HRV or AHAM to comply with the sound and sound requirements per § 150.001(G).

Pool and Spa Systems and Equipment:

# 104.0(a)	<p>Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following compliance features:</p> <ul style="list-style-type: none"> (1) The manufacturer's name and address printed on the heater. (2) A label affixed to the heater stating the model number and serial number of the heater. (3) The heater without adjusting the thermostat setting; a permanent waterstopper plate or card with operating instructions; and must not use electric resistance heating.
# 104.0(b)	<p>Any pool or spa heating system or equipment must be installed with at least 36 inches of pipe between the filler and the heater, or dedicated suction and return lines, or built-in or built-up connections to allow for future seal replacement.</p>
# 104.0(c)	<p>Covers, Outdoor pools or spas that have a heat pump or gas heater must have a cover.</p>
# 104.0(d)	<p>Directional Intakes and Time Switches for Heats. Pools must have directional intakes that adequately mix the pool water, and a time switch to shut off the circulation pumps to be set or programmed to shut off during the night.</p>
# 104.0(e)	<p>Pilot Light. Natural gas pool and spa heaters must not have a continuously burning pilot light.</p>
# 105.0	<p>Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pumps, sizing, flow rate, piping, filters, and valves."</p>
# 105.0(f)	
Lighting:	
# 105.0	<p>Lighting Controls and Components. All lighting control devices and switches, ballasts, and luminaires must meet the applicable requirements of § 109.9 ."</p>
# 105.0(A)	<p>Luminaire Efficacy. All installed luminaires must meet the requirements in Table 500-0-A, except lighting integral to exhaust fans, kitchen range hoods, bank vanity mirrors, and garage door openers, navigation lighting less than 5 volts, and lighting integral to drivers, cabinets and line voltage lighting with an efficacy of at least 80 lumens per watt.</p>
# 105.0(B)(1)	<p>Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8 ."</p>
# 105.0(C)(1)	<p>Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must not contain screw based sockets, must be airtight, and must be used with a gasket or cap. California Electrical Code § 410.16(c) allows some exceptions.</p>
# 105.0(D)(1)	<p>LED sources in Enclosed or Recessed Luminaires. Lamps and other available light sources that are not compliant with the JAE exceed temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.</p>
# 105.0(E)(1)	<p>Blank Electrical Boxes. The number of electrical boxes that are more than five feet above the finished floor and do not contain a light source must not be more than the number of bedrooms. These boxes must be secured by a drilled , weather resistant anchor, low voltage wiring, or fan speed control.</p>
# 105.0(F)(1)	<p>Lighting Integral to Exhaust Fans. Lighting integral to exhaust fans (except where provided by the manufacturer), kitchen exhaust hood(s) and bathroom exhaust fans must be listed as "integral to exhaust fans" and labeled with the applicable requirement of § 105.0(A)." </p>

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

Building Envelope:

S (110.5a)(1)	Air Leakage. Manufactured, fenestration, exterior doors, and exterior door pull-outs must limit air leakage to 0.3 CFM per square foot or less when tested per NFRC-400, ASTM E283, or AAMA/WDMA/CSA 1011.5/284A:2011.
S (110.5b)(1)	Field Fabricated Exterior Doors. Field fabricated exterior doors must meet the same air leakage requirements as 110.5a(1).
S (110.6b)(1)	Field Fabricated Exterior Doors and Fenestration Products must use U-factors and solar heat gain coefficient (SHGC) values from Tables 110.6(a), 110.6(b), or 110.6(c) for exterior doors. They must be caulked and/or weather-stopped.
S (110.7)	Glazing, Penetration, and Other Openings in the building envelope that are potential sources of air leakage must be caulked, gasketed, or weather stopped.
S (110.8)	Insulation Certification by Manufacturers. Insulation must be certified by the Department of Consumer Affairs, Bureau of Household Goods and Services (BHGS).
S (110.8a)	Insulation Requirements for Heated Slab Floors. Heated slab floors must be insulated per the requirements of 110.8(a).
S (110.8b)	Roofing Products Solar Reflectance and Thermal Emittance. The thermal emittance and aged solar reflectance values of the roofing material must meet the requirements of 110.8(b) and be labeled per 110.13(b) when the installation of a cool roof is specified or required.
S (110.9)	Radiant Barrier. When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Consumer Affairs.
S (110.9a)	Roof Ceiling and Rafter Insulation. Roof decks in newly constructed attic in climate zones 4 and 15-a weighted average U-factor must not exceed U-0.184. Ceiling and rafter roofs minimum R-22 insulation in wood-frame ceiling; or air-sealed average U-factor must not exceed 0.043. Rafter roof alterations minimum R-19 or air sealing which equals U-factor of 0.054 or less. Air access doors must be permanently closed and insulated with adhesive or mechanical fasteners. The attic access must be gasketed to prevent air leakage. Insulation is installed in direct contact with a roof or ceiling which is sealed to limit infiltration and exfiltration as specified in 110.7. U-factor must be adjusted to adjust for air leakage through the roof or ceiling on the top or a rafter ceiling.
S (110.9b)	Loose-fill Insulation. Loose fill insulation must meet the manufacturer's required density for the labeled R-value.
S (110.9c)	Wall Insulation. Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less, or a R-20 in 2x6 inch wood framing or have a U-factor of 0.071 or less.Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0.102. Masonry walls must meet Tables 110-A or B.
S (110.9d)	Raised-Roof Insulation. Minimum R-19 insulation in raised wood framed roof or 0.027 maximum U-factor.
S (110.9e)	Edge Insulation. Slab edge insulation must meet all of the following: have a water absorption ratio; for the insulation material alone without facings, no greater than 0.3 percent; have a water vapor permeance no greater than 20 perm per inch; be protected from physical damage and UV light deterioration; and, when installed as part of a heated slab roof, meet the requirements of 110.9(d).
S (110.9f)	Vapor Retarder. In climate zones 14 and 15, the exterior wall, ceiling, and roof must have a Class I Vapor Retarder for Class vapor retarder. This requirement also applies to controlled ventilation crawl space for buildings complying with the exception to 150.0(d).
S (110.9g)	Vapor Retarder. In climate zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all insulation in all exterior walls, vented attics, and unvented attics with air permeable insulation.
S (110.9h)	Exterior Wall and Roofing Fenestration, including Adjacent Fenestration. Fenestration in exterior walls, roofs, and roof-ceiling assemblies must have a maximum U-factor of 0.45; or air-sealed average U-factor of 0.45; or air-sealed average U-factor of all fenestration must exceed 0.45.
S (110.10)	Fireplaces, Decorative Gas Appliances, and Gas Logs:
S (110.5e)	Pilot Light. Continuously burning pilot lights are not allowed for indoor and outdoor fireplaces.
S (110.5a)(1)	Closable Doors. Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebox.
S (110.5b)(2)	Combustion Intake. Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inches in area and is located within the room and is easily accessible, openable, and closable.
S (110.5c)(2)	Flue Damper. Masonry or factory-built fireplaces must have a flue damper with a readily accessible intake.
Space Conditioning: Heating, and Plumbing System:	
S (110.6) & 110.13	Water Control: Heating, ventilation, and air conditioning (HVAC) equipment, water heaters, showers, faucets, and all other plumbing must be manufactured by the Department of Energy Efficiency and Energy Conservation.
S (110.6)	HVAC Efficiency. Equipment must meet the applicable efficiency requirements in Table 110.2-A through Table 110.2-N.
S (110.2b)	Controls for Heat Pumps with Supplementary Electric Resistance Heaters. Heat pumps with supplementary electric resistance heaters must have controls that prevent supplementary heater operation when the heating load can be met by the heat pump alone, or when the heat pump is in defrost mode, or when the compressor has been on for more than 15 minutes, or when the heating and the out-of-temperature for compression heating is higher than the out-of-temperature for supplementary heating.
S (110.2c)	Thermostats. All heating or cooling systems not controlled by a central energy management control system (CEMS) must have a setback thermostat.
S (110.2d)	Insulation. Unaired service water heater storage tanks and solar water-heating backup tanks must have adequate insulation, or the tank must have less rating.
S (110.3)(c)	Insulation Vents. Instantaneous water heaters with an input rating greater than 6.8 kBtu per hour (2 kW) must have isolation vents, with hose bibbs or other fittings on both hot and cold water lines in order to flush the water heater when the valves are isolated.
S (110.3)(c)(8)	

5/6/22



§ 110.5.	<p>Pilot Lights. Continuously burning pilot lights are prohibited for natural gas, fan-type central furnaces, household cooking appliances or water heaters without an electrical supply voltage connection to pilot lights that assumes less than 150 Btu per hour, and pilot and gas spacers.⁴</p>	
§ 150.0(m)(1).	<p>Building Cooling and Heating Loads. Heating and/or cooling loads are calculated in accordance with the ASHRAE Handbook, Equipment Volume, Applications Volume, and Fundamentals Volume, and the California Mechanical Control System Installation Code, as amended, or the equivalent.</p>	
§ 150.0(h)(3)(A).	<p>Clearances. Air conditioners and heat pump outdoor condensing units must have a clearance of at least five feet from the ground or any other obstruction.</p>	
§ 150.0(h)(3)(B).	<p>Liquid Drier. Air conditioners and heat pump systems must be equipped with liquid filter driers if required, as specified by the manufacturer's instructions.</p>	
§ 150.0(h)(1).	<p>Water Piping. Solar Water-Heating System Piping, and Space Conditioning System Line Piping. All domestic hot water piping must be installed as specified in § 609.11 of the California Plumbing Code.</p>	
§ 150.0(h)(2).	<p>Insulation Protection. Piping insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind as provided for (§120.30). Insulation exposed to weather must be water resistant and protected from UV light (no bare pipe tapes). Insulation on piping located outdoors must be protected from weather. Insulation on piping located indoors must include, or be protected by, a Class I or Class II vapor retarder. Pipe insulation buried below grade must be installed in a waterproof and non-crushable casing or sleeve.</p>	
§ 150.0(m)(1).	<p>Propane Water-Heating Systems. Systems using gas or propane water heaters to serve individual dwelling units must designate a space of at least 25 X 25 X 7' suitable for the future installation of a heat pump water heater, and meet electrical and plumbing requirements, based on the distance between this designated space and the water heater location, and a condensate drain no more than 7' higher than the water heater.</p>	
§ 150.0(m)(2).	<p>Solar Water-Heating Systems. Solar water-heating systems and collectors must be certified and rated by the Solar Rating and Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing (IAPMO R&T), or by a listing agency that is approved by the executive director.</p>	
Ducts and Fans.		
§ 110.0(g)(3).	<p>Ducts. Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC). If contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement.</p>	
§ 150.0(m)(1).	<p>CMC Compliance. All air-distribution system ducts and plenums must meet CMC §§ 601-606.0.5 and ANSIS/ACCA 900-2006 HVAC Construction Standards (ANSI/ACCA 900-2006, 2nd Edition). All ductwork and plenums must be insulated to meet the requirements for R-6.0 or higher; ducts located entirely in conditioned space as confirmed through field verification and diagnostic testing (§134.4.3.8) do not require insulation. Connections of metal ducts and inner core of flexible ducts must be mechanically fastened. Openings must be sealed with mastic tape. The insulation on the exterior of the system must be protected from weather. Insulation on piping located indoors must include, or be protected by, a Class I or Class II vapor retarder. The combination of mastic and either mesh or tape must be used to seal openings greater than 1/4". If mastic or tape is used, building cavities, air handler support platforms, and plenums designed or constructed with materials other than sealed steel metal, duct board or other ducts must not be used unless specifically conditioned air. Building cavities and support platforms may contain ducts; ducts installed in these spaces must not be compressed.⁴</p>	
§ 150.0(m)(2).	<p>Factory-Fabricated Duct Systems. Factory-fabricated duct systems must comply with applicable requirements for duct construction and installation. Ducts and plenums in unconditioned space must be insulated. Duct systems in conditioned space must not be sealed with cloth back rubber adhesive duct tapes unless such tapes are used in combination with mastic and draw bands.</p>	
§ 150.0(m)(3).	<p>Field-Fabricated Duct Systems. Field-fabricated duct systems must comply with applicable requirements for: pressure-sensitive tapes, duct board, and duct board joints.</p>	
§ 150.0(m)(7).	<p>Backdraft Damper. Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic damper.</p>	
§ 150.0(m)(8).	<p>Gravity Ventilation Dampers. Gravity ventilation systems serving conditioned space must have either automatic or readily accessible, manually operated dampers in all openings to the outside, except combustion intake and outlet air openings and elevator shafts.</p>	
§ 150.0(m)(9).	<p>Protection of Insulation. Insulation must be protected from damage due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather must be suitable for outdoor use (e.g., protected by aluminum, steel, metal, painted canvas, or plastic sheeting). Cellular foam insulation must be protected from weather. Insulation on piping located outdoors must be protected from weather.</p>	
§ 150.0(m)(10).	<p>Porous Inner Core Flex Duct. Porous inner cores of flex ducts must have a non-porous layer all barrier between the inner core and outer vapor barrier.</p>	
§ 150.0(m)(11).	<p>System Sealing and Leakage Test. When space conditioning systems use forced air duct systems to supply conditioned air to an occupiable space, the ducts must be sealed and duct leakage tested, as accomplished through field verification and diagnostic testing, in accordance with Reference Residential Appendix RA3.1.</p>	
§ 150.0(m)(12).	<p>Atticition. Space conditioning systems with ducts exceeding 10 feet and the supply side of ventilation systems must have HVRV or equivalent filters. Filters for space conditioning systems must have a two inch depth or can be one inch if sized per Equation 150.0-A. Clean-filter pressure drop and labeling must meet the requirements in §150.0(m)(12). Filters must be accessible for regular service. Filter removal or gaskets must use gaskets, sealing, or other means to close gaps around the inserted filter and to prevent air from bypassing the filter.</p>	

5/6/22

PICO RIVERA PRE - APPROVED ADU
PICO-RIVERA, CA

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CITY OF PICO RIVERA: PRE-APPROVED ADU, DATE: 1/1/2025

CITY OF PICO RIVERA
COMMUNITY & ECONOMIC
DEVELOPMENT DEPARTMENT
6615 PASSONS BLVD.
PICO RIVERA, CA 90660
PHONE: (562) 801-4332

DATE: 1 / 1 / 2025

RESIDENTIAL MANDATORY MEASUREMENTS

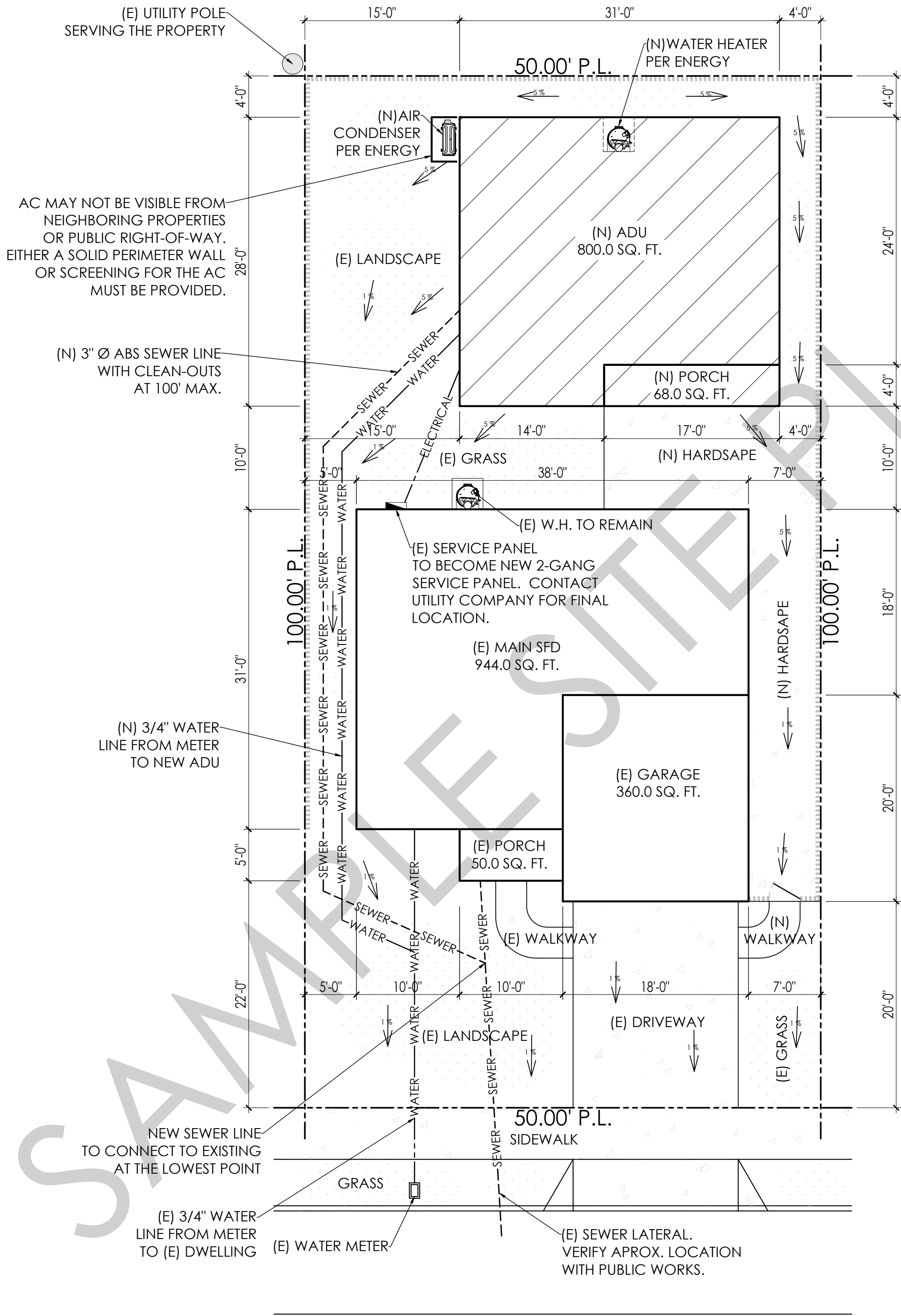
SHEET NO.

T24-1

ELECTRICAL LOAD CALCULATION				
PANEL:	ADU			
QTY.	EQUIPMENT	VA PER UNIT	VA	
800	GENERAL LIGHTING & RECEPTACLES	3	2,400	
2	SMALL APPLIANCE	1500	3,000	
1	REFRIGERATOR	1500	1,500	
1	DISHWASHER	900	900	
1	DISPOSAL	600	600	
1	MICROWAVE	1500	1,500	
1	RANGE/OVEN	9600	9,600	
1	DRYER	4500	4,500	
1	LAUNDRY	1500	1,500	
1	WATER HEATER	4500	4,500	
		SUB-TOTAL:	30,000	
DEMAND CALCULATION				
	FIRST 10,000 VA @ 100%			10,000
		REMAINDER	20,000	
	REMAINDER @ 40%		8,000	
HVAC EQUIPMENT				
1	COND/HEAT PUMP TO 4 TON.	5500	5,500	
2	EXHAUST FANS	60	120	
		TOTAL VA	23,620	
	(TOTAL VA/240) TOTAL AMPS:		98.42	

ADU - SIZING CHART				
TABLE 702.1 - DRAINAGE FIXTURE UNITS VALUES (DFU)				
FIXTURE	MIN. SIZE TRAP & TRAP ARM (IN.)	DFU (EA.)	QTY.	TOTAL DFU
BATH/SHOWER	1 1/2	2	1	2
WASHER	2	3	1	3
DISHWASHER	1 1/2	2	1	2
LAVATORY	1 1/4	1	1	1
LAVATORY IN SE	1 1/2	2	0	0
KITCHEN	1 1/2	2	1	2
LAUNDRY SINK	1 1/2	2	0	0
W.C. (1.6 GPF)	3	3	1	3
		TOTAL DFU:		13
3" MAIN SANITARY DRAINAGE				

ADU - SIZING CHART				
TABLE 610.3 - WATER SUPPLY FIXTURE UNITS (WSFU)				
FIXTURE	MIN. BRANCH PIPE SIZE (IN.)	WSFU (EA)	QTY.	TOTAL WSFU
BATH/SHOWER	1/2	4	1	4
WASHER	1/2	4	1	4
DISHWASHER	1/2	1.5	1	1.5
HOSE BIDD	1/2	2.5	1	2.5
LAVATORY	1/2	1	1	1
KITCHEN	1/2	1.5	1	1.5
LAUNDRY SINK	1/2	1.5	0	0
W.C. (1.6 GPF)	1/2	2.5	1	2.5
		TOTAL WSFU:		17
SERVICE SIZE:	3/4"	METER SIZE:	3/4"	
	OVER 60 PSI @ 150'			
	PER 2022 CPC (TABLE 610.4)			



A SAMPLE SITE PLAN

Scale: 1/8"=1'-0"

LOT COVERAGE CALCULATION

1. (E) MAIN SFD	944.0 SQ.FT.
2. (E) GARAGE	360.0 SQ.FT.
3. (E) PORCH	50.0 SQ.FT.
4. (N) PORCH	68.0 SQ.FT.
5. (N) ADU	800.0 SQ.FT.

TOTAL EXISTING LIVING SPACE	944.0 SQ.FT.
TOTAL EXISTING NON-LIVING SPACE	410.0 SQ.FT.

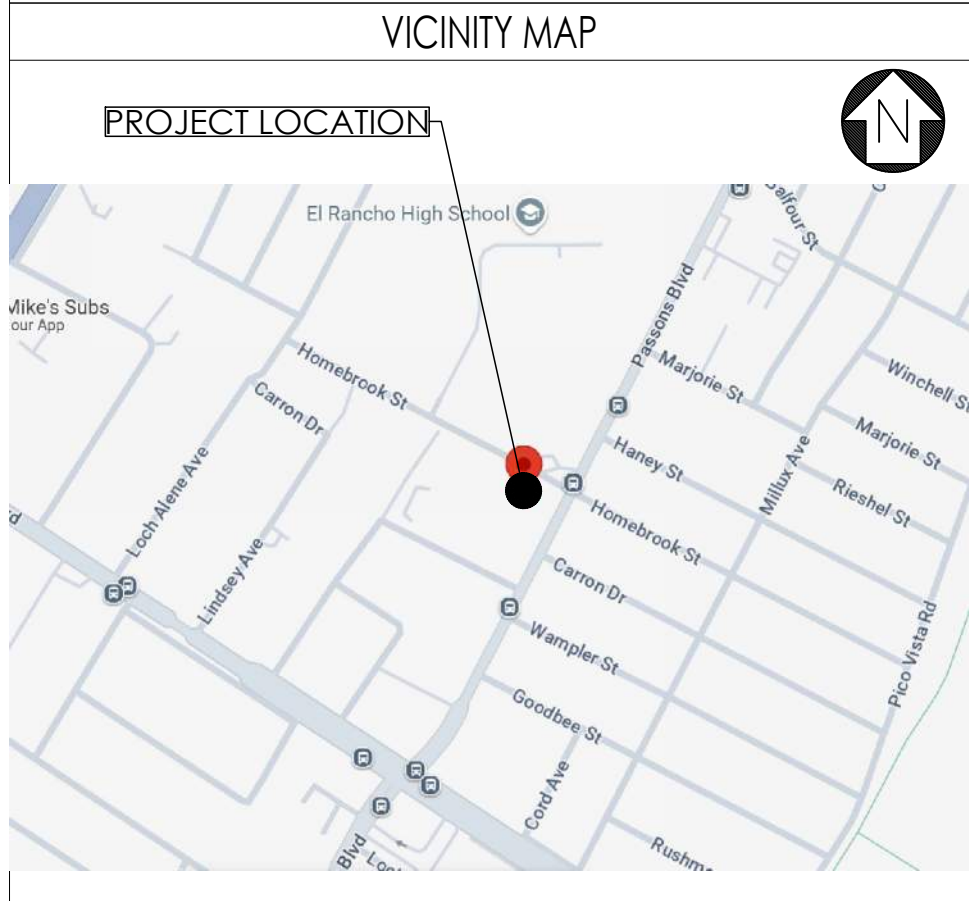
TOTAL NEW LIVING SPACE	1,744.0 SQ.FT.
TOTAL NEW NON-LIVING SPACE	478.0 SQ.FT.

FOOT PRINT AREA	2,222.0 SQ.FT.
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LOT AREA	5,000.0 SQ.FT.
LOT COVERAGE	44.4 %

LEGEND	
	SITE SLOPED DRAINAGE. 5% SLOPED AWAY FROM STRUCTURE. 1% SLOPED AT SITE.
	NEW PROPOSE CONSTRUCTION
	PROPERTY LINE
	STRUCTURES/ROOF LINE
	CONCRETE EDGE LINE
	CONCRETE SLAB, I.E. DRIVEWAY, WALKWAY, SIDEWALK.
	LANDSCAPE /GRASS
	ELECTRICAL SERVICE PANEL
	WATER HEATER
	(E) CONCRETE BLOCK WALL, 6' HIGH
	3" Ø ABS SEWER LINE
	3/4" Ø COPPER-TYPE L WATER LINE

- ### SITE PLAN NOTES
- THE SANITARY DRAINAGE FOR A DETACHED OR ATTACHED ACCESSORY DWELLING UNIT IS NOT REQUIRED TO HAVE A SEPARATE-INDEPENDENT CONNECTION TO THE PUBLIC SEWER IN THE PUBLIC STREET. THE SANITARY DRAINAGE FOR AN ADU IS ALLOWED TO CONNECT TO THE EXISTING SEWER LATERAL OF THE MAIN DWELLING WHERE THIS METHOD OF CONNECTION IS A STANDARD FOR ADU SANITARY DRAINAGE. THE DRAIN LINE FOR THE ADU SHOULD BE INSTALLED WITHIN THE PROPERTY'S COURT, YARD, OR DRIVEWAY - OR, WHERE COMPLIANT, UNDER THE RAISED FLOOR OF THE EXISTING DWELLING.
1.1. 5 OR MORE TOILETS REQUIRED 4" SEWER LINE.
(TABLE 703.2 NOTE #4 CPC)
 - PV SYSTEM REQUIRED, UNDER SEPARATE PERMIT. SEE ENERGY ANALYSIS FOR MINIMUM PV SYSTEM SIZE.
 - ADDRESS IDENTIFICATION. NEW AND EXISTING BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS, BUILDING NUMBERS OR APPROVED BUILDING IDENTIFICATION PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. THESE NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND. ADDRESS NUMBERS SHALL BE ARABIC NUMBERS OR ALPHABETICAL LETTERS. NUMBERS SHALL BE A MIN. OF 4" HIGH WITH A MIN. STROKE OF 0.5" FOR SINGLE FAMILY RESIDENTIAL STRUCTURES. WHERE ACCESS IS BY MEANS OF A PRIVATE ROAD AND THE BUILDING CANNOT BE VIEWED FROM A PUBLIC WAY, A MONUMENT, POLE OR OTHER ACCEPTABLE SIGN OR MEANS SHALL BE USED TO IDENTIFY THE STRUCTURE.
 - PROVISIONS FOR CONTRIBUTORY DRAINAGE SHALL BE MADE AT ALL TIMES.
 - ONSITE RUNOFF SHALL BE CARRIED TO THE STREET OR STORM DRAIN FACILITIES. ALL THE EXISTING DRAINAGE COURSES ON THE PROJECT SITE MUST CONTINUE TO FUNCTION AT ALL TIMES; ESPECIALLY DURING STORM CONDITIONS. APPROVED PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT ADJOINING PROPERTIES DURING THE PROJECT. IN ANY CASE, THE CONTRACTOR AND OWNERS SHALL BE HELD LIABLE FOR ANY DAMAGE DUE TO CONSTRUCTION.
 - DO NOT DRAIN OR DIRECT SITE DRAINAGE TO ADJACENT PROPERTIES.



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BY USING THESE PERMIT READY CONSTRUCTION DOCUMENTS, THE RECIPIENT, OWNERS AGREE TO RELEASE, HOLD HARMLESS, AND INDEMNIFY THE CITY OF PICO RIVERA, ITS ELECTED OFFICIALS AND EMPLOYEES AND THE ARCHITECT/ENGINEER WHO PREPARED THE CONSTRUCTION DOCUMENTS FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS, AND DEMANDS ON ACCOUNT OF ANY INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY, INCLUDING INJURY OR DEATH, OR ECONOMIC LOSSES, ARISING OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS. THE USE OF THESE PERMIT READY CONSTRUCTION DOCUMENT DOES NOT ELIMINATE OR REDUCE THE OWNERS OR CONTRACTOR'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION RELEVANT TO THE RECIPIENT'S WORK AND RESPONSIBILITY ON THIS PROJECT.

SHEET DESCRIPTION

SAMPLE SITE PLAN

SHEET NO.

A-1.0

ELECTRICAL LOAD CALCULATION			
PANEL:	ADU		
QTY.	EQUIPMENT	VA PER UNIT	VA
800	GENERAL LIGHTHING & RECEPTACLES	3	2,400
2	SMALL APPLIANCE	1500	3,000
1	REFRIGERATOR	1500	1,500
1	DISHWASHER	900	900
1	DISPOSAL	600	600
1	MICROWAVE	1500	1,500
1	RANGE/OVEN	9600	9,600
1	DRYER	4500	4,500
1	LAUNDRY	1500	1,500
1	WATER HEATER	4500	4,500
		SUB-TOTAL:	30,000
DEMAND CALCULATION			
	FIRST 10,000 VA @ 100%		10,000
		REMAINDER	20,000
	REMAINDER @ 40%		8,000
HVAC EQUIPMENT			
1	COND/HEAT PUMP TO 4 TON.	5500	5,500
2	EXHAUST FANS	60	120
		TOTAL VA	23,620
	(TOTAL VA/240) TOTAL AMPS:		98.42

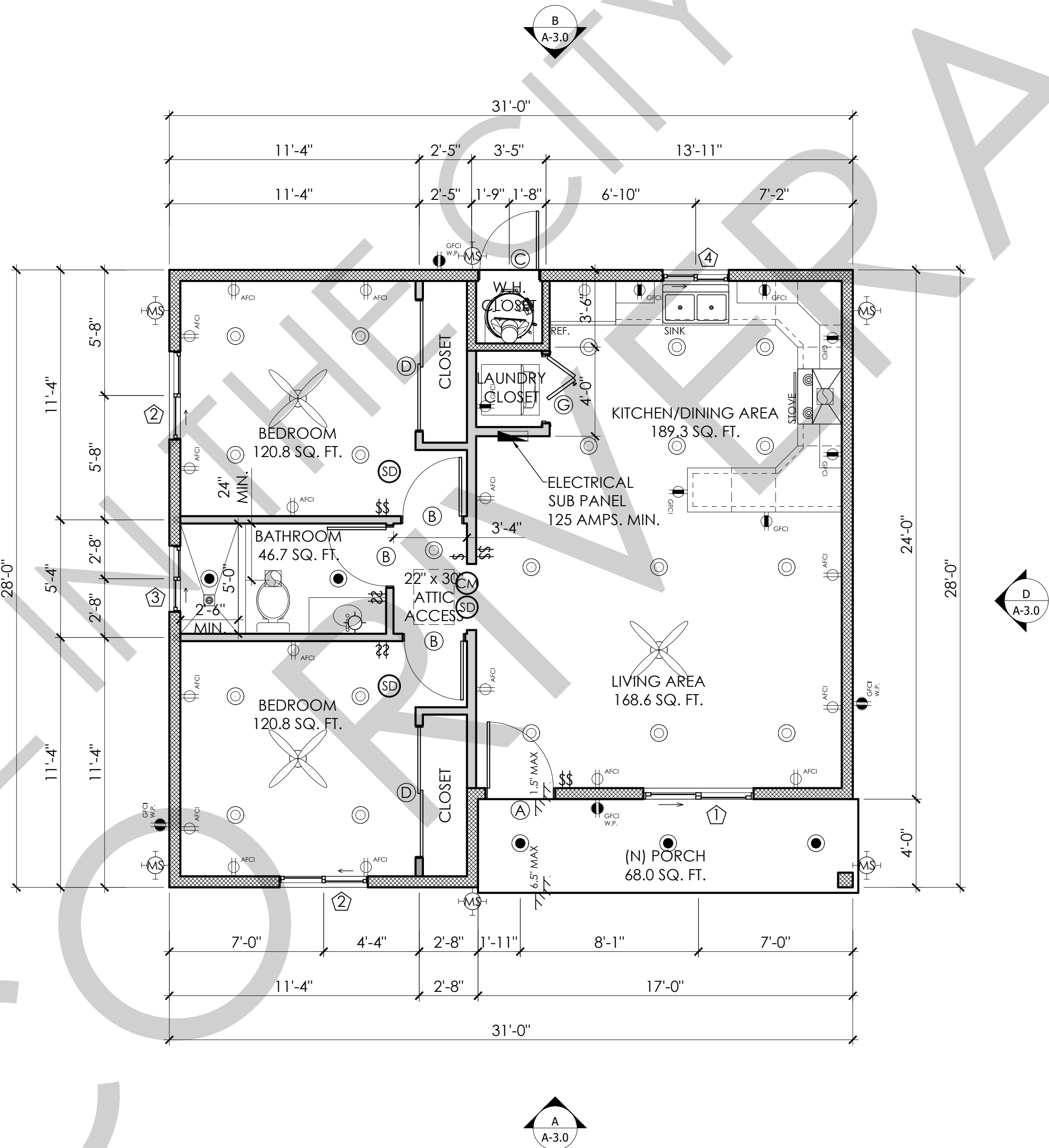
ADU - SIZING CHART				
TABLE 702.1 - DRAINAGE FIXTURE UNITS VALUES (DFU)				
FIXTURE	MIN. SIZE TRAP & TRAP ARM (IN.)	DFU (EA.)	QTY.	TOTAL DFU
BATH/SHOWER	1 1/2	2	1	2
WASHER	2	3	1	3
DISHWASHER	1 1/2	2	1	2
LAVATORY	1 1/4	1	1	1
LAVATORY IN SE	1 1/2	2	0	0
KITCHEN	1 1/2	2	1	2
LAUNDRY SINK	1 1/2	2	0	0
W.C. (1.6 GPF)	3	3	1	3
				TOTAL DFU: 13
3" MAIN SANITARY DRAINAGE				

ADU - SIZING CHART				
TABLE 610.3 - WATER SUPPLY FIXTURE UNITS (WSFU)				
FIXTURE	MIN. BRANCH PIPE SIZE (IN.)	WSFU (EA)	QTY.	TOTAL WSFU
BATH/SHOWER	1/2	4	1	4
WASHER	1/2	4	1	4
DISHWASHER	1/2	1.5	1	1.5
HOSE BIDD	1/2	2.5	1	2.5
LAVATORY	1/2	1	1	1
KITCHEN	1/2	1.5	1	1.5
LAUNDRY SINK	1/2	1.5	0	0
W.C. (1.6 GPF)	1/2	2.5	1	2.5
				TOTAL WSFU: 17
SERVICE SIZE:	3/4"		METER SIZE:	3/4"
	OVER 60 PSI @ 150'			
	PER 2022 CPC (TABLE 610.4)			

WINDOW SCHEDULE					DOOR SCHEDULE				
	SIZE & TYPE	GLAZING AREA (S.F.)	LOCATION (ROOM)	TEMPERED GLAZING		SIZE	MATERIAL	LOCATION	NOTE
①	5'-0" X 4'-0" SL	20.0	LIVING	NO	(A)	36" X 80"	SOLID CORE	ENTRY	TEMPERED
②	4'-0" X 4'-0" SL	16.0	BEDROOM	NO	(B)	36" X 80"	HOLLOW CORE	INTERIOR	SINGLE PANEL
③	3'-0" X 1'-6" SL	4.5	BATHROOM	YES	(C)	36" X 80"	SOLID CORE	EXTERIOR	VENTED
④	3'-0" X 3'-0" SL	9.0	KITCHEN/ DINING	NO	(D)	72" X 80"	HOLLOW CORE	CLOSET	SLIDING
					(E)	30" X 80"	HOLLOW CORE	LAUNDRY	LOUVER

WALL LEGEND	
	2X6 1-HR FIRE RATED STUD WALL PER DETAIL 1/A-4.0. U.N.O. (SEE REGISTER ENERGY CALCULATIONS BY OTHERS)
	2X4 INTERIOR WALL
ELECTRICAL LEGEND	
	RECESS LIGHT FIXTURE (I.C. RATED), HIGH EFFICIENCY LIGHTING OR BE CONTROLLED BY DIMMER SWITCHES
	LIGHT FIXTURE, HIGH EFFICIENCY LIGHTING OR BE CONTROLLED BY MANUAL ON OCCUPANT SENSOR OR DIMMER SWITCHES
	OUTDOOR LIGHTING ATTACHED TO THE BUILDING CONTROLLED BY A MOTION SENSOR WITH INTEGRAL PHOTO CONTROL
	DUPLEX CONVENIENCE OUTLET +15" TO 48" UNLESS NOTED
	DUPLEX CONVENIENCE GFI OUTLET +15" TO 48" UNLESS NOTED
	HUMIDITY CONTROLLED EXHAUST FAN 50 CFM MIN. ENERGY STAR COMPLIANT & TO BE DUCTED TO TERMINATE TO THE OUTSIDE OF BUILDING. MAX SOUND 3 SONES
	SINGLE POLE TOGGLE SWITCH +4" UNLESS NOTED
	SINGLE POLE TOGGLE 2 WAY SWITCH +4" UNLESS NOTED
	120 V. HARD WIRED SMOKE DET. W/ BATT. BACK UP BATT. OPERATED SMOKE DET. AT EXIST'G SLEEPING AREA IS OK. SMOKE DETECTOR SHALL SOUND AN ALARM AUDIBLE IN ALL SLEEPING AREAS
	120 V. HARD WIRED CARBON MONOXIDE DET. W/ BATT. BACK UP BATT. OPERATED CARBON MONOXIDE DET. AT EXIST'G AREA IS OK. CARBON MONOXIDE DETECTOR SHALL BE INTERCONNECTED SUCH THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL ALARMS
	WEATHER-PROOF
	ELECTRICAL SERVICE PANEL
	INDOOR AIR QUALITY (IAQ) FAN - 50 CFM MIN. U.N.O.
	KITCHEN EXHAUST FAN: THIS FAN IS TO BE USED FOR LOCAL VENTILATION EXHAUST. MINIMUM 130 CFM (OVER ELECTRIC RANGE) FAN TESTED AT A STATIC PRESSURE OF .25 WC AND RATED @ 3 SONES OR LESS REQUIRED TO BE INSTALLED. FAN MUST BE ATTACHED TO A MINIMUM 6" SMOOTH DUCT AND NO LONGER THAN 85'. SUBTRACT 15' OF ALLOWED LENGTH FOR EACH ELBOW
	CEILING FAN (OPTIONAL)

FLOOR PLAN NOTES	
1.	ALL EXTERIOR WALLS TO BE 2X6 STUDS @ 16" O.C. U.N.O. SEE ENERGY CALCULATIONS.
2.	POSTS AT PORCH MUST BE 5'-0" MIN. FROM ALL PROPERTY LINES.
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.
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 KEYNOTES ON SHEET FOR ADDITIONAL RATINGS, REQUIREMENTS, AND INFORMATION.
5.	FIRE-BLOCKING TO BE LOCATED AT THE FOLLOWING LOCATIONS PER 2022 CRC SECTION R302.11:
A.	SECTION R302.11 -
A.A.	FIRE-BLOCKING SHALL BE PROVIDED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS:
A.A.A.	VERTICALLY AT CEILING AND FLOOR LEVELS
A.A.B.	HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET.
A.B.	AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS SOFFITS, DROP CEILINGS AND COVE CEILINGS.
A.C.	IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN, ENCLOSED SPACES UNDER STAIRS SHALL COMPLY WITH SECTION R302.7.
A.D.	AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES AND WIRES AT CEILINGS AND FLOOR LEVEL, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME PRODUCTS OF COMBUSTION. THE MATERIAL FILLING THIS ANNULAR SPACE SHALL NOT BE REQUIRED TO MEET THE ASTM E136 REQUIREMENTS.
A.E.	FOR THE FIRE-BLOCKING OF CHIMNEYS AND FIREPLACES, SEE SECTION R1003.19.
A.F.	FIRE-BLOCKING OF CORNICES OF A TWO-FAMILY DWELLING IS REQUIRED AT THE LINE OF DWELLING-UNIT SEPARATION.
B.	SECTION R302.11.1 - FIRE-BLOCKING MATERIALS SHALL CONSIST OF FOLLOWING MATERIALS:
B.A.	TWO-INCH NOMINAL LUMBER
B.B.	TWO THICKNESS OF ONE-INCH NOMINAL LUMBER WITH BROKEN LAP JOINTS
B.C.	THE THICKNESS OF 0.719-INCH WOOD STRUCTURAL PANELS WITH JOINTS BACKED BY 0.719-INCH WOOD STRUCTURAL PANELS
B.D.	THE THICKNESS OF 0.75-INCH PARTICLE BOARD WITH JOINTS BACKED BY 0.75-INCH PARTICLE BOARD
B.E.	ONE-HALF-INCH GYPSUM BOARD
B.F.	ONE-FOURTH-INCH CEMENT-BASED MILLBOARD
B.G.	BATTS OR BLANKETS OF MINERAL WOOL, MINERAL FIBER OR OTHER APPROVED MATERIAL INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE
B.H.	CELLULOSE INSULATION INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263, FOR THE SPECIFIC APPLICATION.
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.
7.	RECESS LIGHTING FIXTURES SHALL BE RATED AS AIR-TIGHT (AT) AND, WHEN INSTALLED IN AN INSULATED CEILING SHALL HAVE AN APPROVED ZERO CLEARANCE INSULATION COVER (IC). (CENC SECTION 150)
8.	ALL INSTALLED LUMINARIES SHALL BE HIGH EFFICIENCY FIXTURES (CENC 150.0)(1.1).
9.	OUTDOOR LIGHTING MUST BE HIGH EFFICACY LIKE INDOOR LIGHTING. MUST INCLUDE MANUAL ON/OFF SWITCH AND ONE OF THE FOLLOWING:
A.	PHOTOCONTROL AND MOTION SENSOR.
B.	PHOTOCONTROL AND AUTOMATIC TIME SWITCH CONTROL.
C.	ASTRONOMICAL TIME SWITCH CONTROL.
D.	ENERGY MANAGEMENT CONTROL SYSTEM.
4.	CALIFORNIA GREEN BUILDING STANDARDS CODE REQUIRES REPLACEMENT OF ALL EXISTING NON-COMPLIANCE PLUMBING FIXTURES. (GBSC 301.1.1)(GBSC 301.3.1).
5.	SHOWERS SHALL HAVE A MINIMUM INTERIOR AREA OF 1024 SQUARE INCHES AND ENCOMPASS A 30" DIAMETER CIRCLE. DOOR(S) MUST BE OF TEMPERED GLASS AND SWINGS OUTWARD WITH A MINIMUM OPENING OF 22". (CPC 408.5, 408.6)
6.	CONTROL VALVES AND SHOWERHEADS SHALL BE LOCATED THAT THE SHOWER DOES NOT DISCHARGE DIRECTLY AT THE ENTRANCE TO THE BATH TUB COMPARTMENT ALLOWING FOR TEMPERATURE ADJUSTMENT WITHOUT STEPPING INTO THE SHOWER SPRAY. (CPC 408.9)
7.	SHOWERS AND TUB SHOWER COMBINATIONS SHALL HAVE VALVES THAT ARE PRESSURE BALANCING AND THERMOSTATIC. (CPC 408.3).
8.	ALL BRANCH CIRCUITS THAT SUPPLY 125 VOLT, SINGLE PHASE, 15 AND 20 AMPERE OUTLETS INSTALLED IN DWELLING UNITS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER(S). REQUIREMENT IS FOR THE ENTIRE CIRCUIT, NOT JUST THE OUTLETS. REQUIREMENT APPLIES TO ALL NEW OUTLETS, NOT JUST BEDROOMS.
9.	TAMPER RESISTANT OUTLETS PER CEC 406.1.1
10.	BATHROOM OUTLET(S) SHALL BE ON A DEDICATED 20 AMP. CIRCUIT.
11.	2-20 AMP. MIN. KITCHEN CIRCUITS.
12.	20 AMP. MIN. DEDICATED CIRCUIT FOR LAUNDRY.



A FLOOR PLAN Scale: 1/4"=1'-0"



CITY OF PICO RIVERA
COMMUNITY & ECONOMIC
DEVELOPMENT DEPARTMENT
6615 PASSONS BLVD.
PICO RIVERA, CA 90660
PHONE: (562) 801-4332

DATE: 1/11/2025

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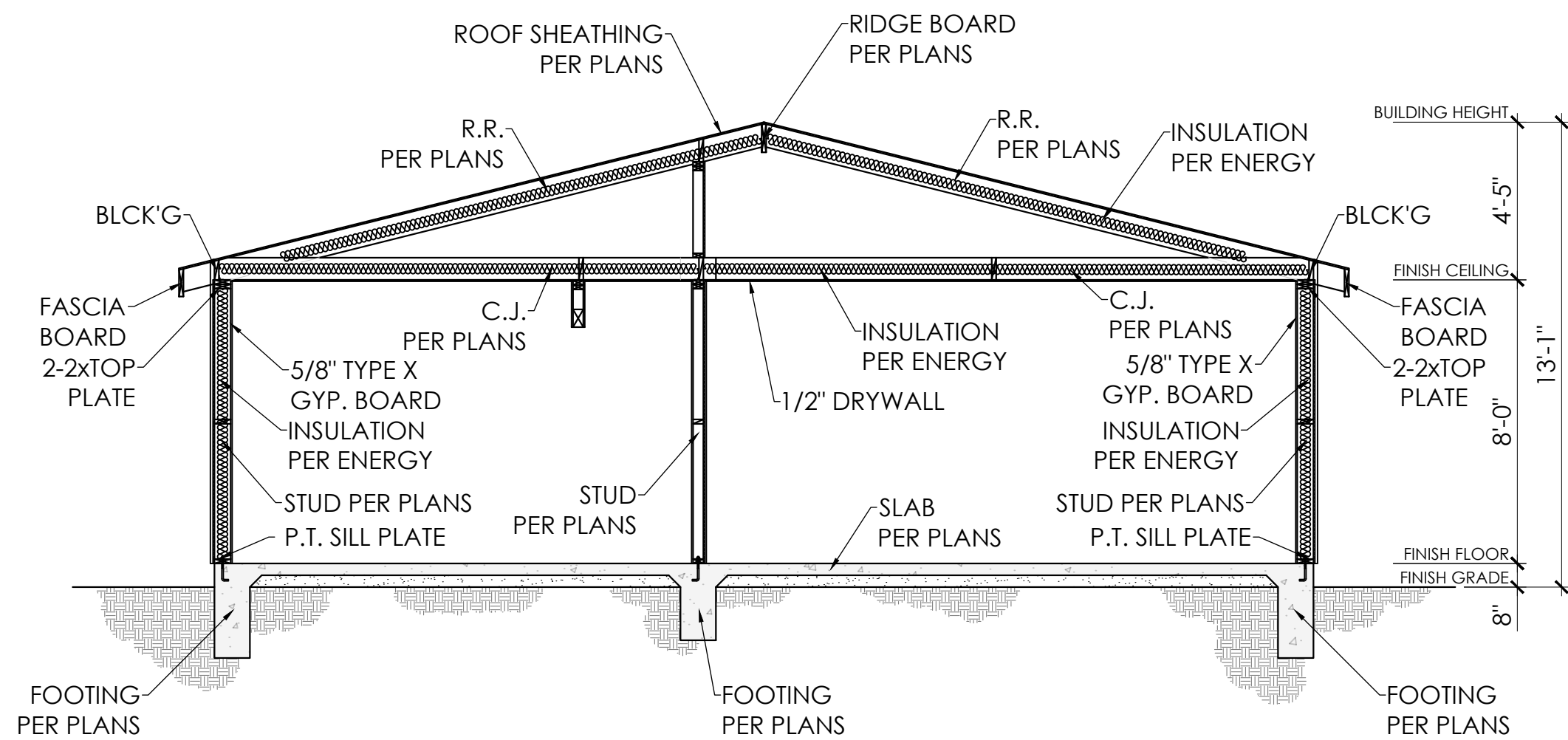
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SHEET DESCRIPTION

FLOOR PLAN
& ROOF PLAN

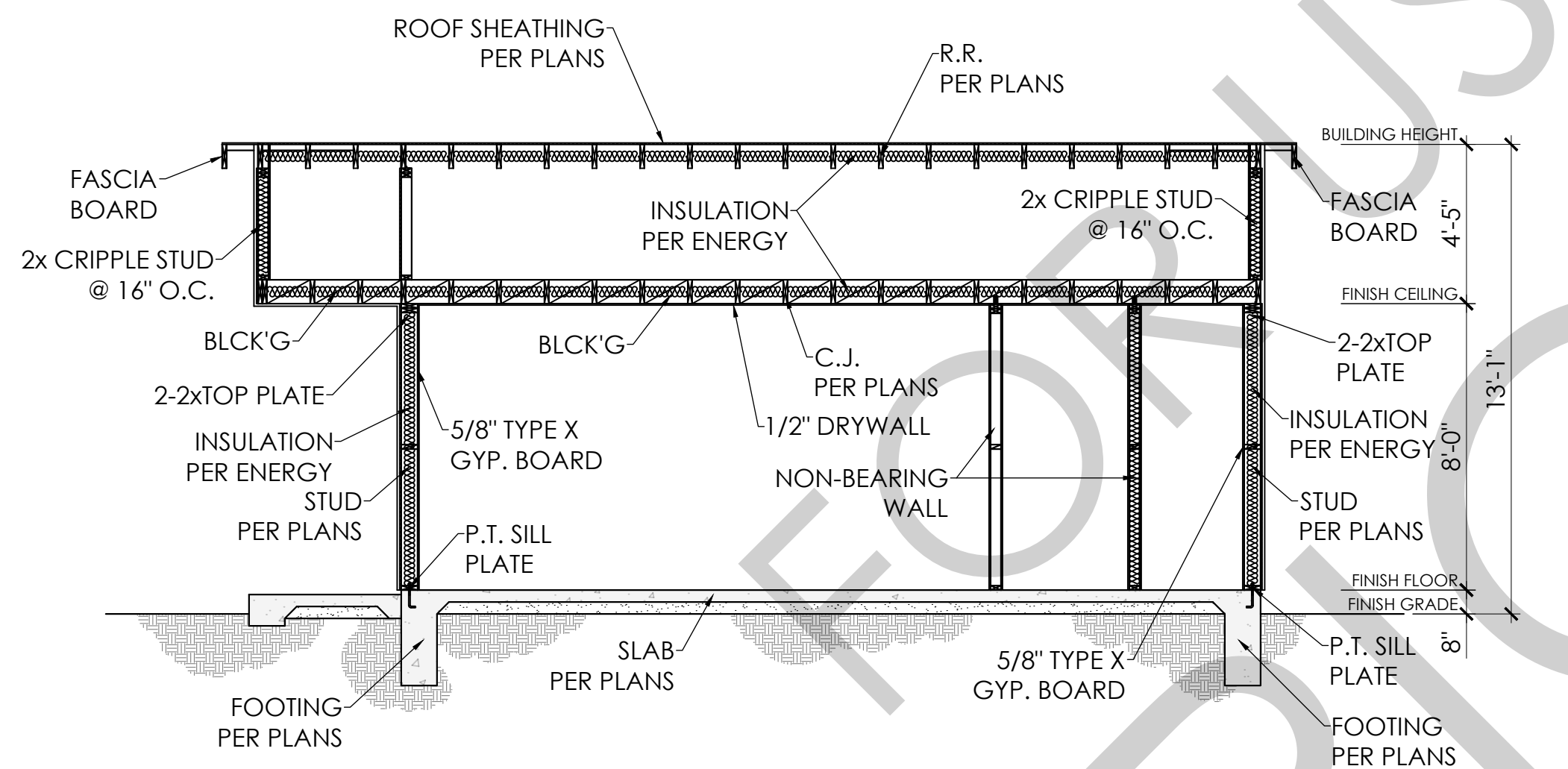
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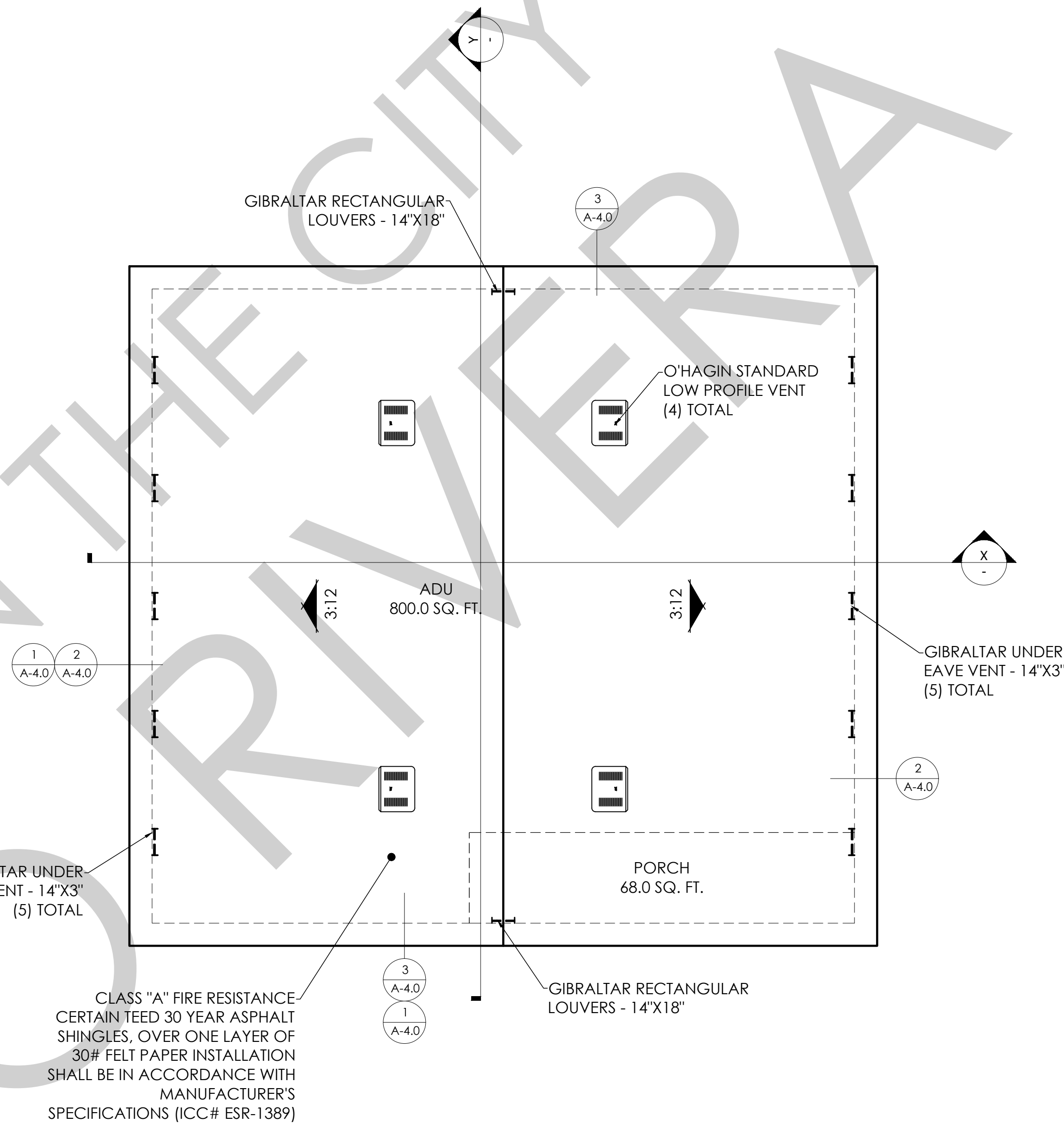
FIRE WALL ASSEMBLIES SHALL EXTEND TO AND BE TIGHT AGAINST EXTERIOR WALLS, EXTEND FROM THE FOUNDATION TO THE UNDERSIDE OF THE ROOF SHEATHING. (R302.3)

SECTION X-X
Scale: 1/4"=1'-0"



FIRE WALL ASSEMBLIES SHALL EXTEND TO AND BE TIGHT AGAINST EXTERIOR WALLS, EXTEND FROM THE FOUNDATION TO THE UNDERSIDE OF THE ROOF SHEATHING. (R302.3)

SECTION Y-Y
Scale: 1/4"=1'-0"



CLASS "A" FIRE RESISTANCE CERTAIN TEED 30 YEAR ASPHALT SHINGLES, OVER ONE LAYER OF 30# FELT PAPER INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS (ICC# ESR-1389)

ROOF PLAN
Scale: 1/4"=1'-0"

ATTIC VENTILATION	
1.	THE MINIMUM NET FREE VENTILATING AREA SHALL BE 1/50 OF THE AREA OF THE VENTED SPACE.
2.	WHERE EAVE OR CORNICE VENTS ARE INSTALLED, INSULATION SHALL NOT BLOCK THE FREE FLOW OF AIR. A MINIMUM OF A 1-INCH SPACE SHALL BE PROVIDED BETWEEN THE INSULATION AND THE ROOF SHEATHING AND THE LOCATION OF THE VENT.
3.	INSTALL VENTS SO AS TO PROVIDE PROPER CROSS VENTILATION.
4.	VENTS SHALL BE COVERED WITH CORROSION-RESISTANT METAL MESH WITH MESH OPENINGS OF 1/2". USE MESH OPENING OF 1/8" AT FIRE RATED WALLS.
VENTILATION CALCS:	
SQUARE FOOTAGE = 868 S.F.	
868 S.F. X 1/150 = 5.78 S.F. (833.3 SQ.IN.) - REQUIRED	
-O'HAGIN STANDARD - LOW PROFILE VENT	
NET FREE AIR SPACE: 72 SQ.IN.	
(4) X 72 SQ.IN. = 288 SQ.IN.	
-GIBRALTAR UNDER EAVE VENT - 16"x4"	
NET FREE AIR SPACE: 28 SQ.IN.	
(10) X 28 = 280 SQ.IN.	
-GIBRALTAR RECTANGULAR LOUVERS VENT - 14"x18"	
NET FREE AIR SPACE: 110 SQ.IN.	
(2) X 110 = 440 SQ.IN.	
TOTAL VENTILATION PROVIDED: 1,008 SQ.IN.	



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DATE: 1/11/2025

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- FOR USE IN THE CITY OF PICO RIVERA ONLY -
THE PLANS ARE PRE-APPROVED FOR AN ADU IN CITY OF PICO RIVERA ONLY. HOWEVER, THE PRE-APPROVED ADU PLAN WILL STILL NEED TO BE SUBMITTED TO THE CITY FOR PLAN CHECK REVIEW FOR EACH INDIVIDUAL PROPERTY WHERE THE ADU WILL BE BUILT.

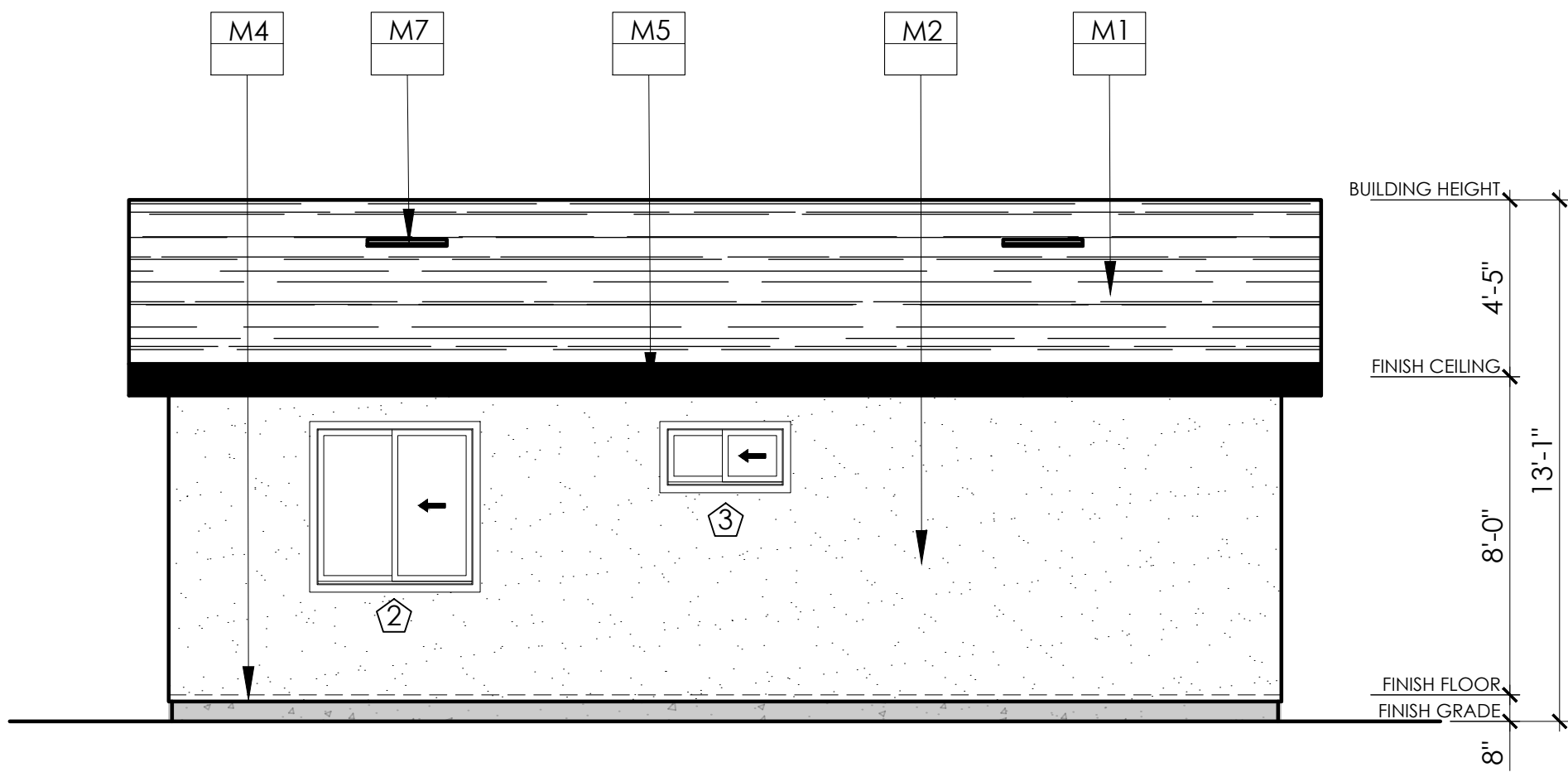
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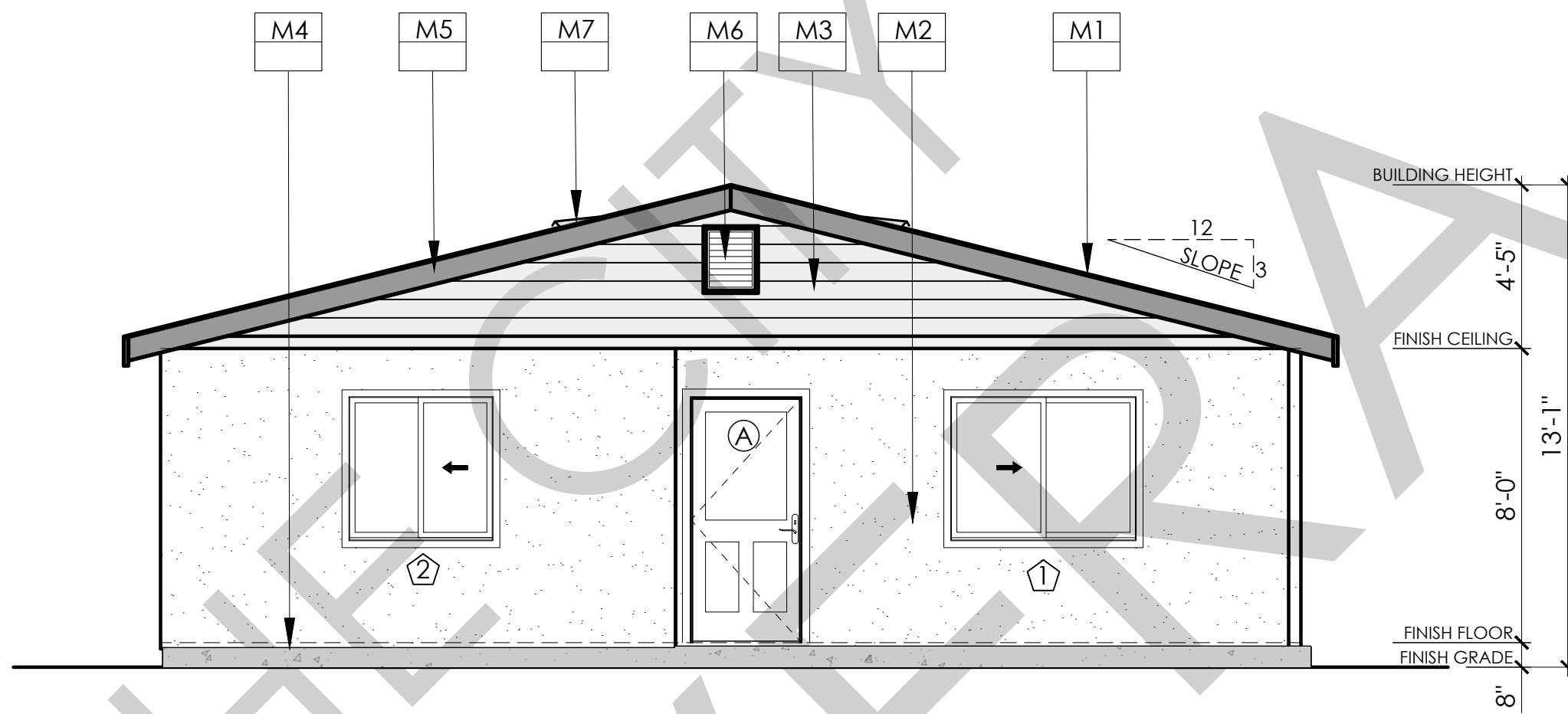
ROOF PLAN
& CROSS SECTIONS

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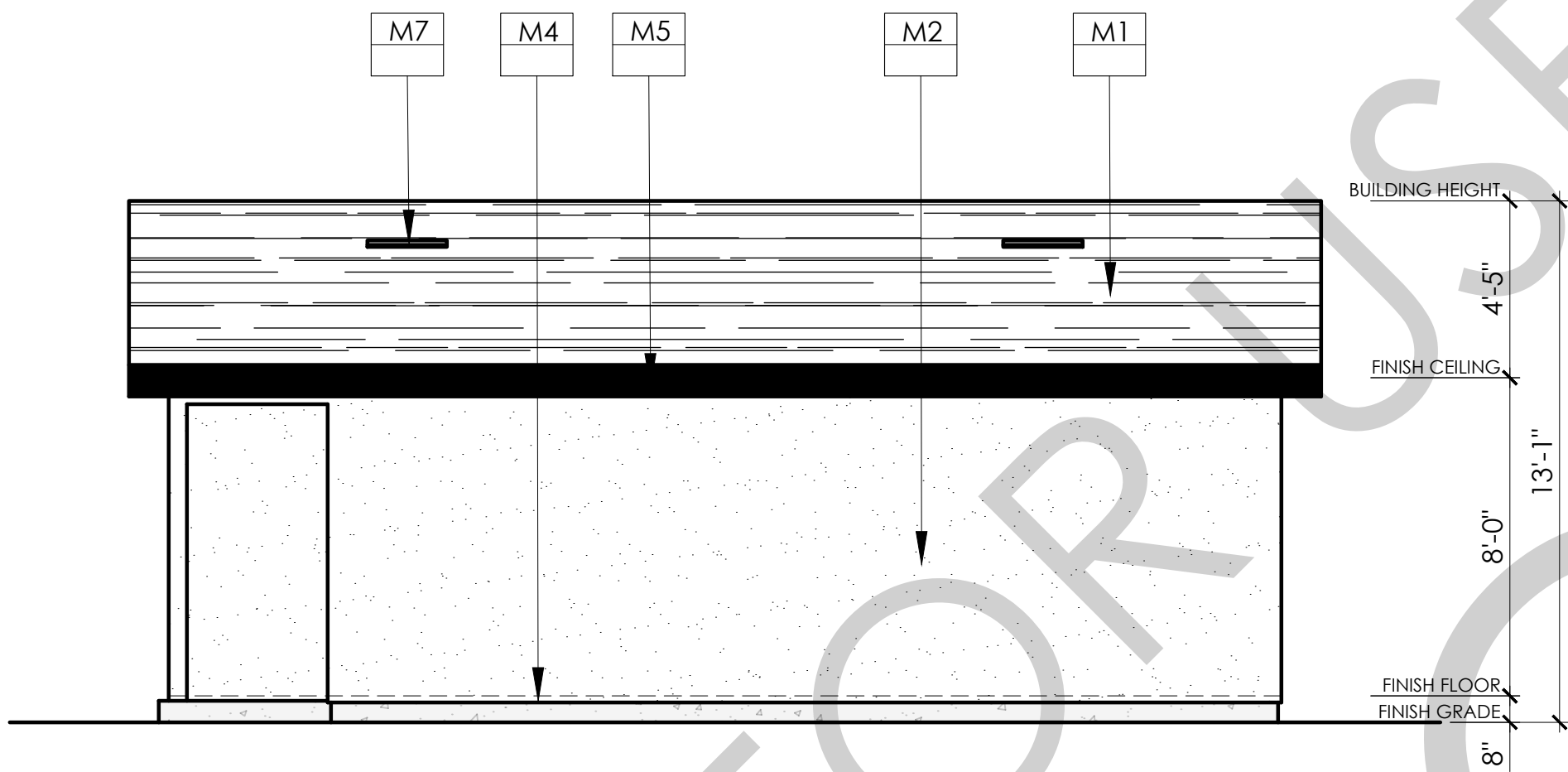
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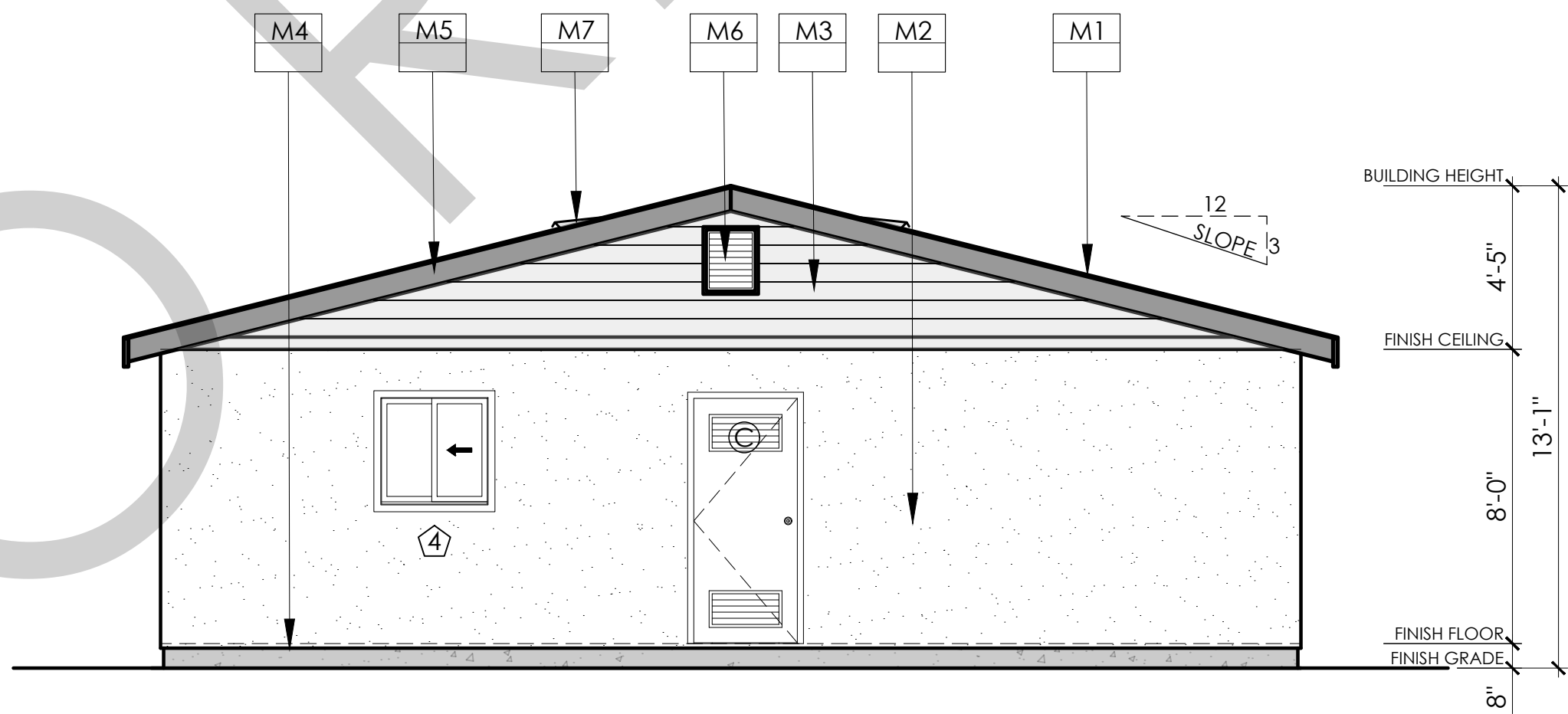
C RIGHT SIDE ELEVATION
Scale: 1/4"=1'-0"



A FRONT ELEVATION
Scale: 1/4"=1'-0"



D LEFT SIDE ELEVATION
Scale: 1/4"=1'-0"



B REAR SIDE ELEVATION
Scale: 1/4"=1'-0"

FINISH MATERIAL	
M1	CLASS A FIRE RESISTANCE CERTAIN TEED 30 YEAR ASPHALT SHINGLES, OVER ONE LAYER OF 30# FELT PAPER INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS (ICC# ESR-1389) NO SECONDS ALLOWED
M2	(N) 7/8" STUCCO OVER 15# FELT PAPER TO MATCH EXISTING. LA HABRA ICC-ESR:2564
M3	HARDIEPLANK SIDING OVER 15# FELT PAPER ICC- ESR#2290 (HORIZONTAL)
M4	WEEP SCREED 4" ABOVE THE EARTH OR 2" ABOVE PAVED AREA
M5	2"x 6" FASCIA BOARDS, WITH 1'-0" MAX. OVERHANG AT EAVE.
M6	GIBRALTAR RECTANGULAR LOUVERS - 14"X18"
M7	O'HAGIN STANDARD LOW PROFILE VENT
ELEVATION GENERAL NOTES	
1. REFER TO GENERAL NOTES SHEET A-0.1 FOR ADDITIONAL REQUIREMENTS	
2. SEE DETAILS FOR ADDITIONAL REQUIREMENTS.	
3. FRAMING ELEVATIONS, INCLUDING FLOOR PLATES AND FLOOR LEVEL ELEVATIONS ARE MEASURED FROM BUILDING FINISH FLOOR, U.N.O.	
4. REFER TO ROOF PLAN FOR ROOF PITCH, OVERHANGS, AND APPROXIMATE DOWNSPOUT LOCATIONS, U.N.O. FASCIA PER DETAILS. PROVIDE ALUMINUM GUTTER.	
5. REFER TO DOOR AND WINDOW SCHEDULES FOR TYPE AND ADDITIONAL INFORMATION.	
6. PAINT GRILLES AND LOUVERS TO MATCH ADJACENT FINISH WHERE OCCURS.	
7. THE ADU BUILDING COLORS AND MATERIALS SHALL BE THE SAME OR SIMILAR TO THE PRINCIPAL RESIDENCE. CONTRACTOR TO VERIFY COLOR SCHEME WITH OWNER BEFORE PERFORMING THE WORK.	

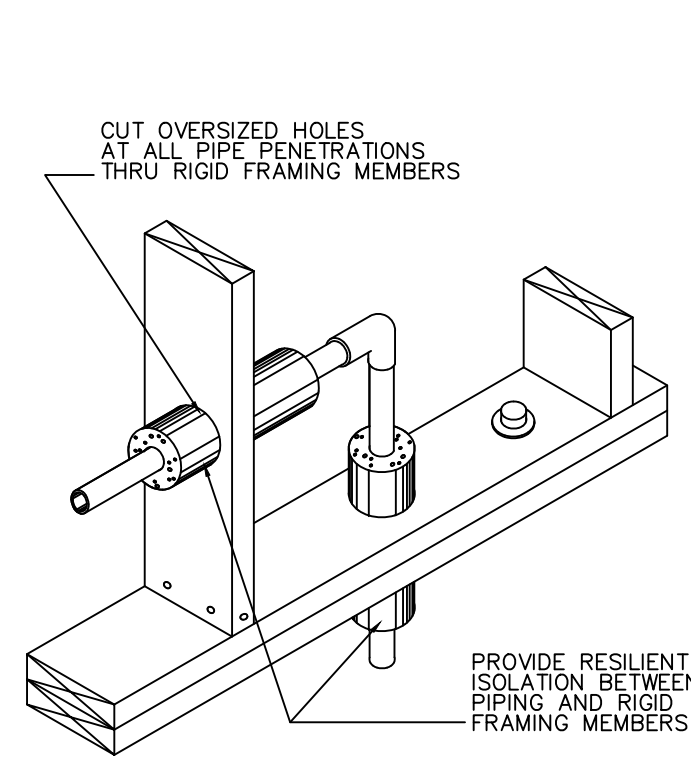
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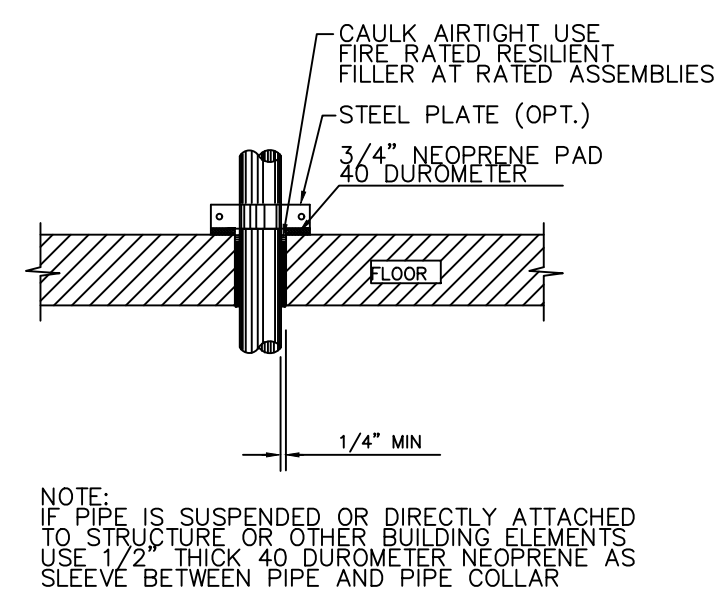
ELEVATIONS

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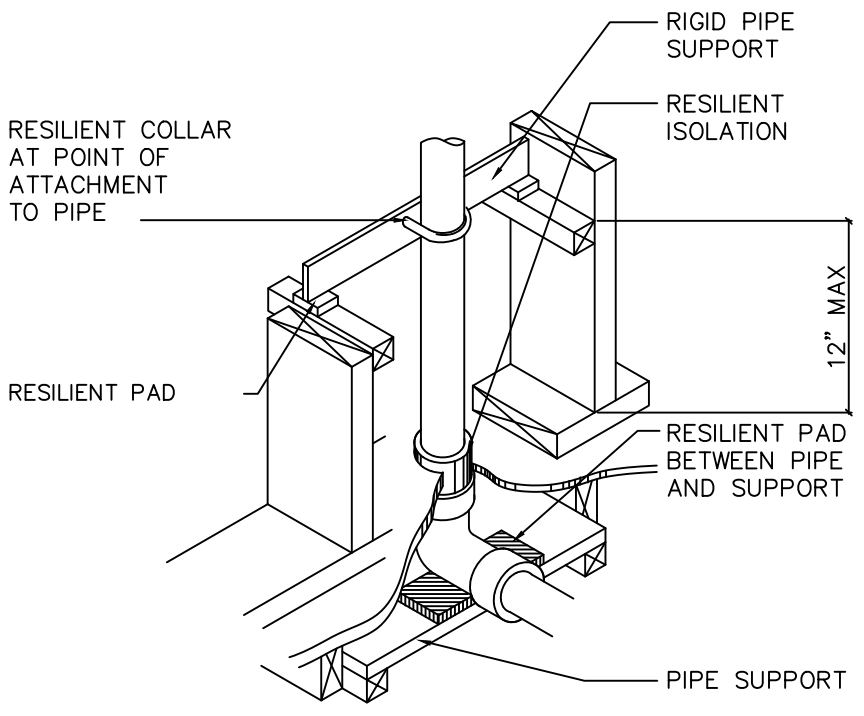
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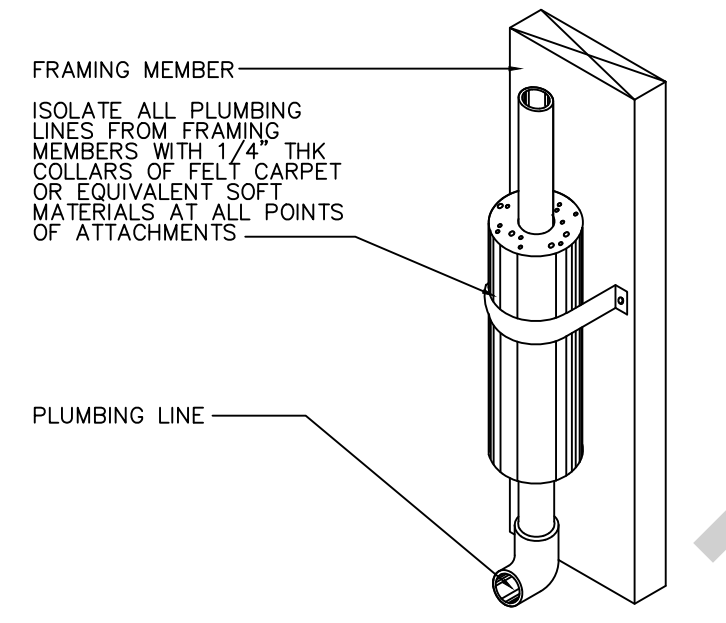
RESILIENT ISOLAT. AT PENETRAT. NTS 8



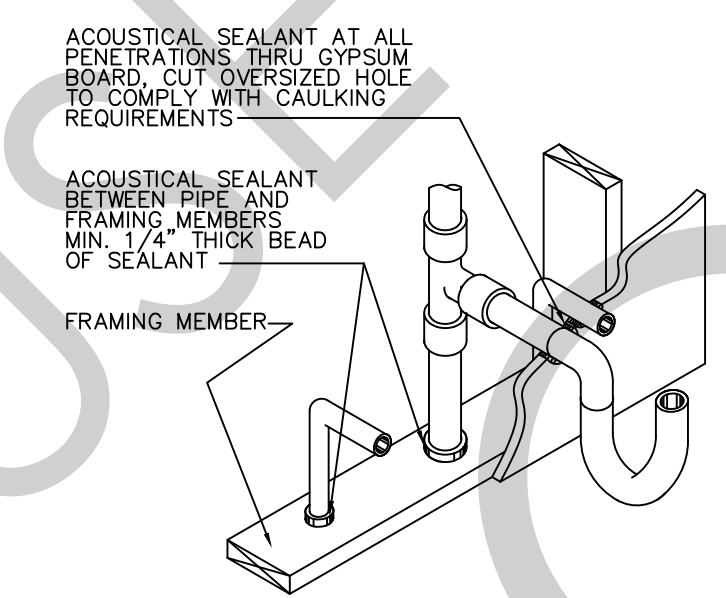
PIPE ISOL. FOR WASTE/SUPPLY NTS 9



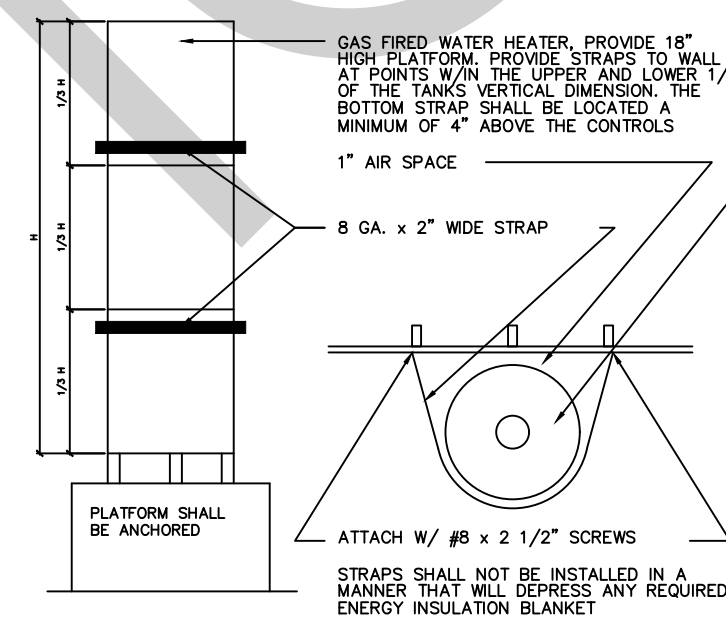
RIGID PIPE SUPPORT NTS 4



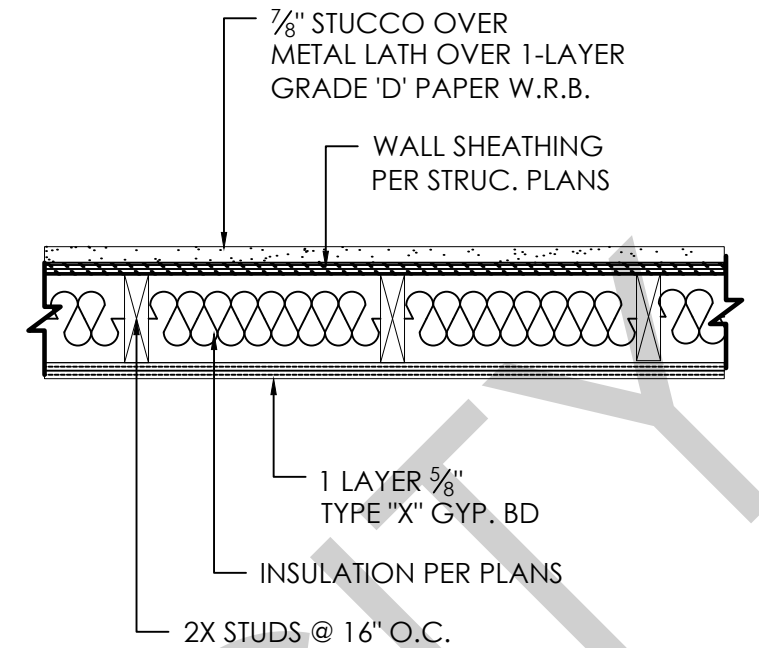
PLUMBING ISOLATION NTS 5



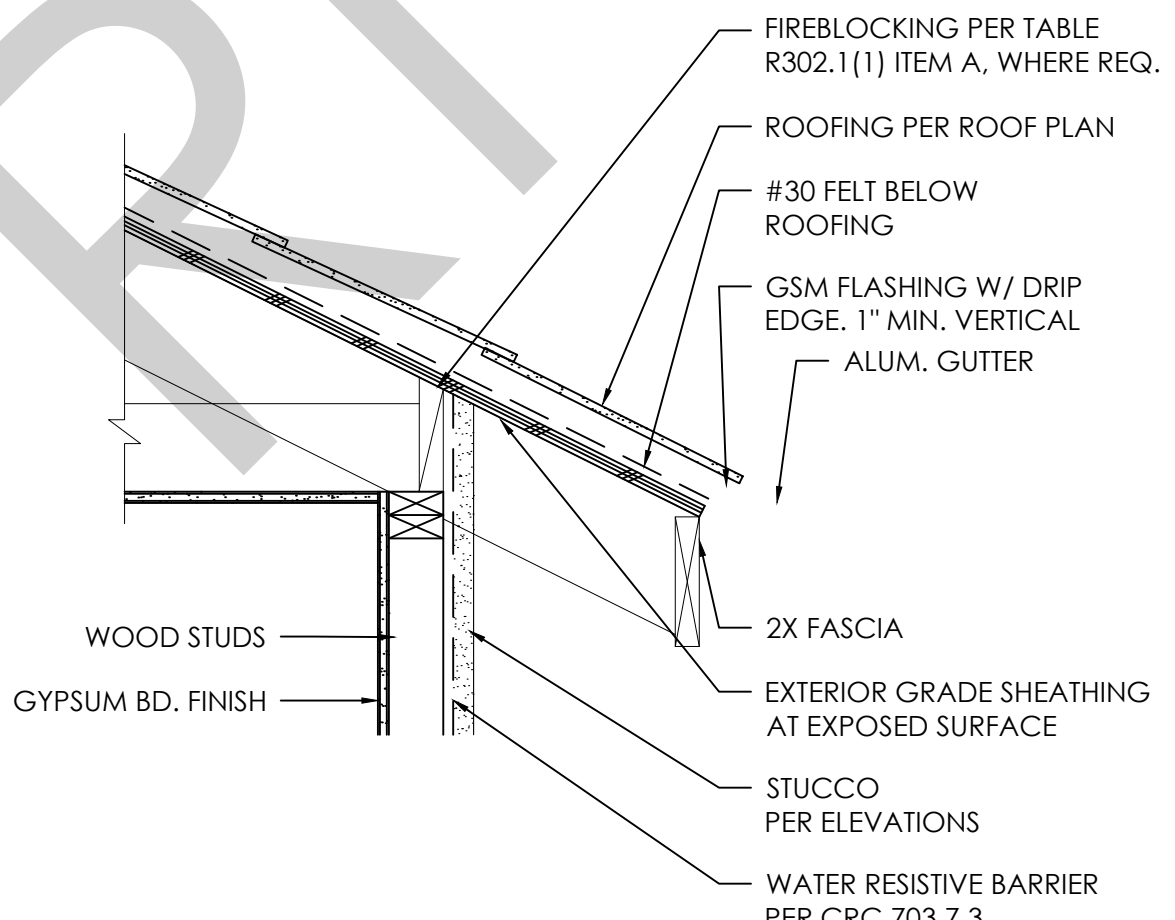
ACOUSTICAL SEAL. AT PENETRAT. NTS 6



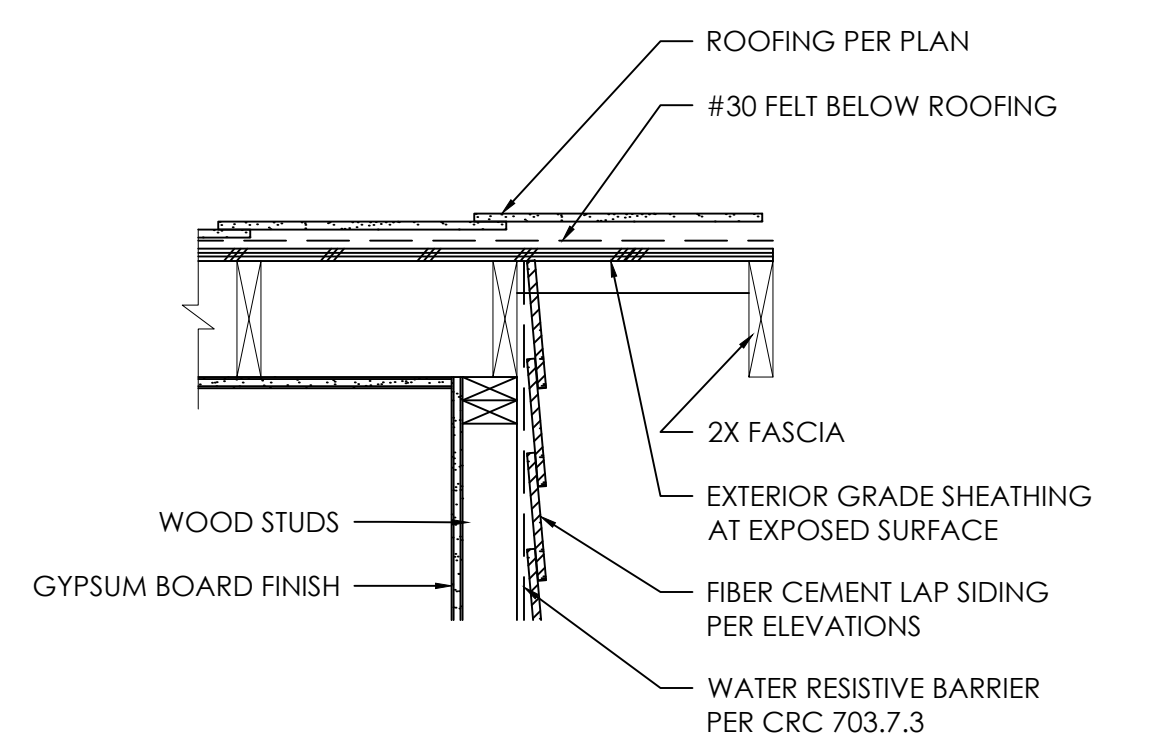
WATER HEATER STRAP NTS 7



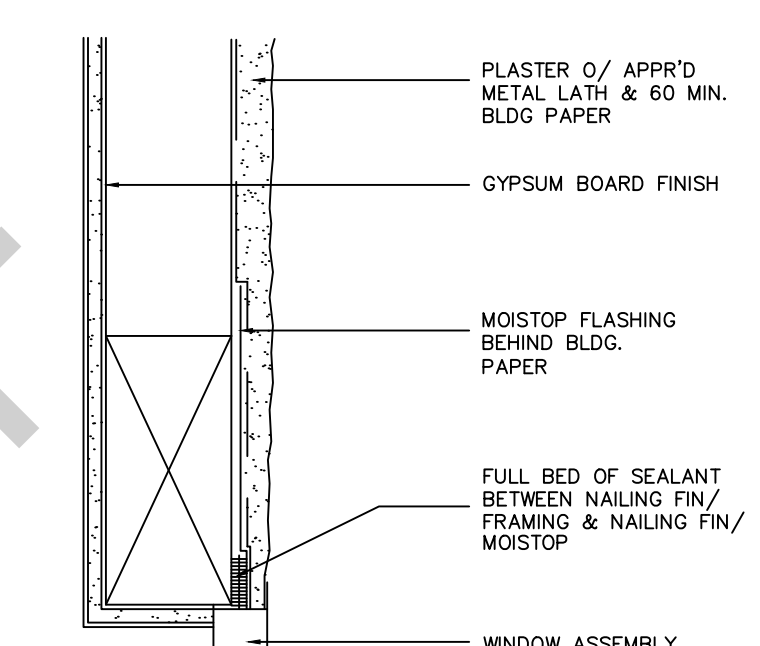
- FIRE PERFORMANCE TEST NO. UL DES U327 (1 HR. FIRE RATING)
- ACOUSTICAL PERFORMANCE TEST NO. BBN-760903 (STC 50)
- FIRE WALL ASSEMBLIES SHALL EXTEND TO AND BE TIGHT AGAINST EXTERIOR WALLS, EXTEND FROM THE FOUNDATION TO THE UNDERSIDE OF THE ROOF SHEATHING. (R302.3)



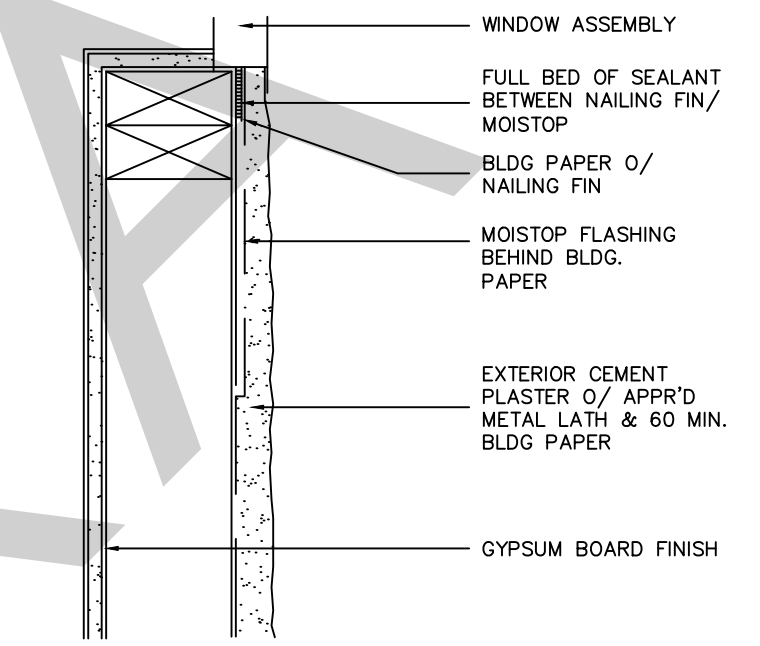
EAVE DETAIL NTS 2



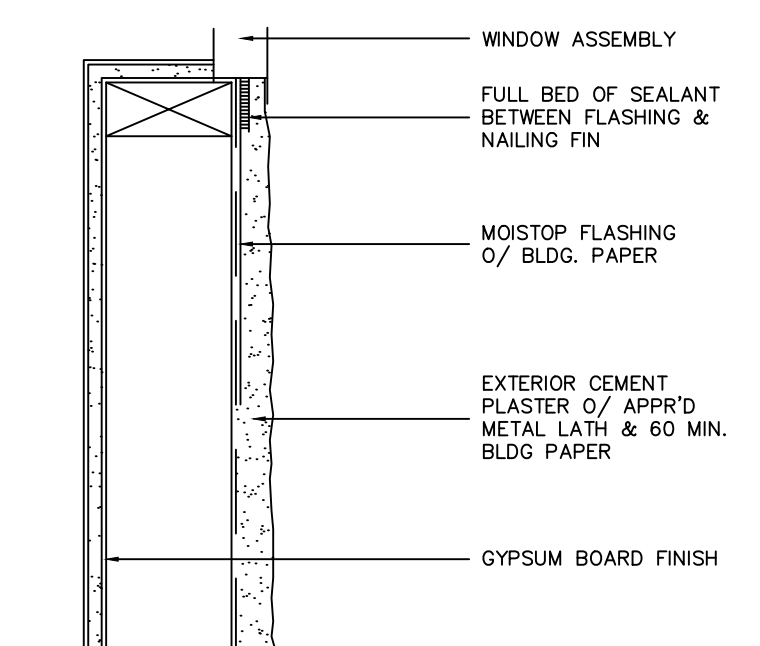
RAKE DETAIL NTS 3



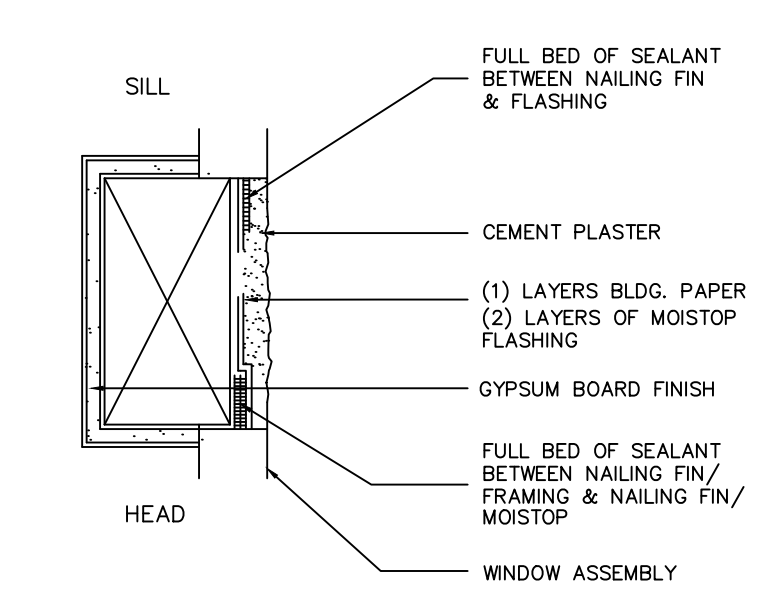
WINDOW HEAD DETAIL



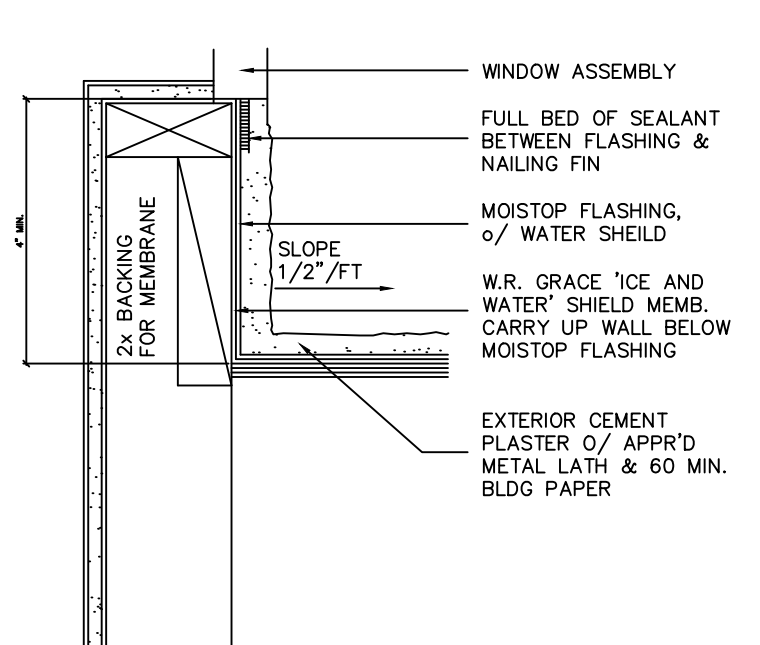
WINDOW JAMB DETAIL



WINDOW SILL DETAIL

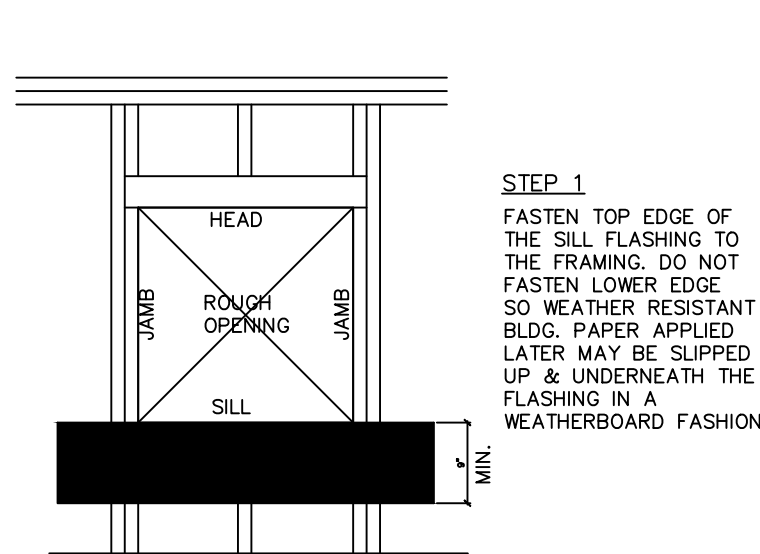


HORIZONTAL MULLION DETAIL

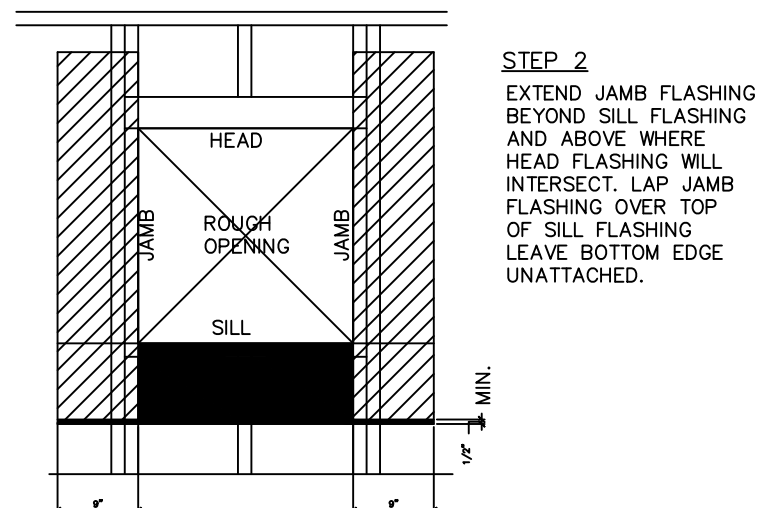


WINDOW SILL DETAIL

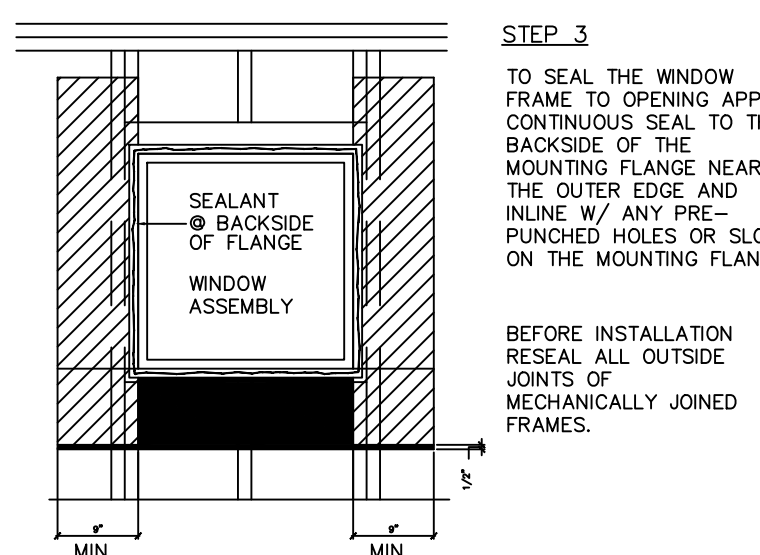
WINDOW/TYP. OPENING FLASHING DETAIL



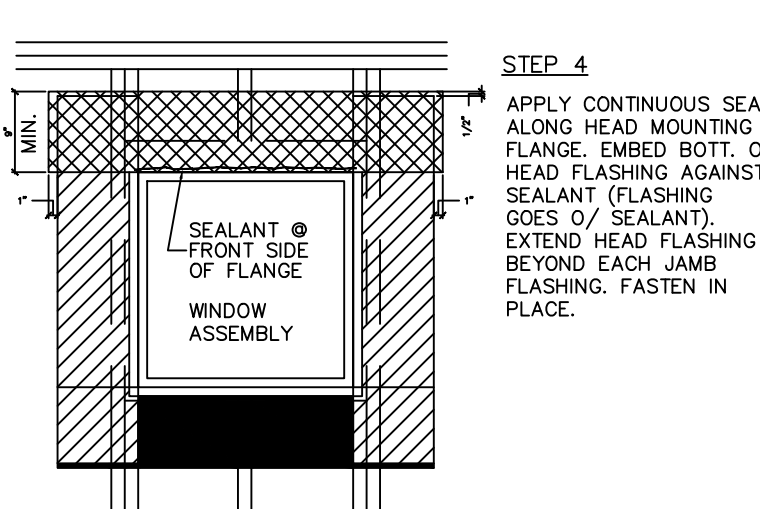
STEP 1
FASTEN TOP EDGE OF THE SILL FLASHING TO THE FRAMING. DO NOT FASTEN LOWER EDGE SO WEATHER RESISTANT BLDG. PAPER APPLIED LATER MAY BE SUPPLIED UP & UNDERNEATH THE FLASHING IN A WEATHERBOARD FASHION.



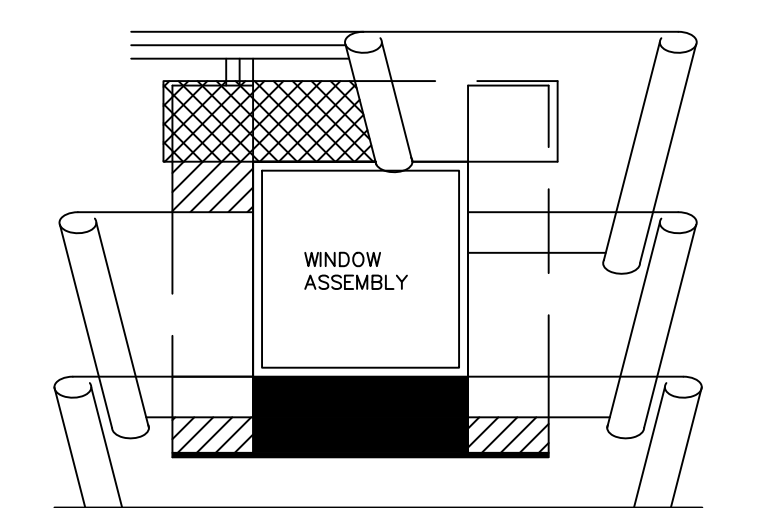
STEP 2
EXTEND JAMB FLASHING BEYOND SILL FLASHING AND ABOVE WHERE HEAD FLASHING WILL INTERSECT. LAP JAMB FLASHING OVER TOP OF SILL FLASHING. LEAVE BOTTOM EDGE UNATTACHED.



STEP 3
TO SEAL THE WINDOW FRAME TO OPENING APPLY CONTINUOUS SEAL TO THE BACKSIDE OF THE MOUNTING FLANGE NEAR THE OUTER EDGE AND NAILING W/ ANY PRE-PUNCHED HOLES OR SLOTS ON THE MOUNTING FLANGE. BEFORE INSTALLATION RESEAL ALL OUTSIDE JOINTS OF MECHANICALLY JOINED FRAMES.



STEP 4
APPLY CONTINUOUS SEAL ALONG HEAD MOUNTING FLANGE. EMBED BOTTL. OF SEALANT (FLASHING GOES O/ SEALANT). EXTEND HEAD FLASHING BEYOND EACH JAMB FLASHING. FASTEN IN PLACE.



SLIP BOTTOM OF JAMB FLASHING & SILL FLASHING O/ BUILDING PAPER AT BOTTOM OF WINDOW SILL. INSTALL ALL EXTERIOR WALL COVERINGS PER CBC SEC 1402. INSTALL BUILDING PAPER, INSULATION BD OR OTHER MATERIALS O/ HEAD FLASHING & O/ TOP OF NAIL-ON HEAD FLANGE OF WINDOW.

NOTES

1. STANDARD FLASHING APPLICATION FOR OPENINGS WITH A MOUNTING FLANGE SHOWN TO INCLUDE BUT NOT LIMITED TO WINDOWS, DOORS, VENTS, ETC.
2. THE ABOVE IS A RECOMMENDATION BY THE AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION (SEE AAMA 2004-02, METHOD 'B' FOR ADDITIONAL INFORMATION).
3. MANUFACTURERS INSTALLATION PROCEDURES & SPECIFICATIONS GOVERN. IF MANUFACTURERS INSTALLATION PROCEDURES AND SPECIFICATIONS DIFFER FROM THE ABOVE, NOTIFY ARCHITECT AND BUILDER IMMEDIATELY.
4. USE 'MOISTOP' FLASHING BY FORTIFIBER CORP. OR EQUAL FOR FLASHING MATERIAL.
5. USE WINDOWS THAT ARE WATERTIGHT.
6. USE WIRE, WHEN USED AS BACKING TO SUPPORT WATER-RESISTANT BLDG. PAPER OR FELT BENEATH LATH FOR STUCCO SHOULD BE INSTALLED ACCORDING TO INDUSTRY STANDARDS AND PRACTICE. NO ATTACHMENT DEVICE NOR WIRE BACKING SHOULD COVER OR PENETRATE FLASHING MATERIAL PERIPHERAL FLASHING AT ALL EDGES OF WALL OPENINGS MUST COVER WIRE BACKING.



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SHEET DESCRIPTION

ARCHITECTURAL
DETAILS

SHEET NO.

A-4.0

A

FASTENING SCHEDULE (TABLE R602.3(1))			
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a,b,c}	SPACING AND LOCATION
ROOF			
1	BLOCKING BETWEEN CEILING JOIST OR RAFTERS TO TOP PLATE	4-8d BOX (2 ½"x0.131"); OR 3-8d COMMON (2 ½"x0.131"); OR 3-10d BOX (3"x0.128"); OR 3-3"x0.131" NAILS	TOE NAIL
2	CEILING JOIST TO TOP PLATE	4-8d BOX (2 ½"x0.131"); OR 3-8d COMMON (2 ½"x0.131"); OR 3-10d BOX (3"x0.128"); OR 3-3"x0.131" NAILS	PER JOIST, TOE NAIL
3	CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (SEE SECTION R802.3.1, R802.3.2 AND TABLE R802.5.1 (9)).	3-16d COMMON (3 ½"x0.162"); OR 4-3"x0.131" NAILS	FACE NAIL
4	CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT) (SEE SECTION R802.3.1, ADN R802.3.2 AND TABLE R802.5.1 (9)).	TABLE R802.5.1 (9)	FACE NAIL
5	COLLAR TIE TO RAFTER, FACE NAIL OR 1 ½" X 20 GA. RIDGE STRAP TO RAFTER	4-10d BOX (3"x0.128"); OR 3-16d COMMON (3 ½"x0.162"); OR 4-3"x0.131" NAILS	FACE NAIL EA. RAFTER
6	RAFTER OR ROOF TRUSS TO TOP PLATE	3-16d BOX (3"x0.135"); OR 3-10d COMMON (3"x0.148"); OR 4-10d BOX (3"x0.128"); OR 4-3"x0.131" NAILS	2 TOE NAIL ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS
7	ROOF RAFTER TO RIDGE, VALLEY OR HIP RAFTERS OR ROOF RAFTER TO MINIMUM 2" RIDGE BEAM	4-1-16d (3"x0.135"); OR 3-10d COMMON (3"x0.148"); OR 4-10d BOX (3"x0.128"); OR 4-3"x0.131" NAILS	TOE NAIL
WALL			
8	STUD TO STUD (NOT AT BRACED WALL PANELS)	3-16d COMMONS (3 ½"x0.162") 10d BOX (3"x0.128"); OR 3"x0.131" NAILS	24" O.C. FACE NAIL
9	STUD TO STUD ADN ABUTTING STUDS AT INTERSECTION WALL CORNERS (AT BRACED WALL PANELS.)	3-16d COMMON (3 ½"x0.162") 3"x0.131" NAILS	16" O.C. FACE NAIL 12" O.C. FACE NAIL
10	BUILT-UP HEADER (2" TO 2" HEADER WITH ½" SPACER)	16d COMMONS (3 ½"x0.162") 16d BOX (3 ½"x0.135)	16" O.C. FACE NAIL 12" O.C. EACH EDGE FACE NAIL
11	CONTINOUS HEADER TO STUD	5-8d BOX (2 ½"x0.113"); OR 4-8d COMMON (2 ½"x0.131"); OR 4-10d BOX (3"x0.128"); OR	TOE NAIL
12	TOP PLATE TO TOP PLATE	16d COMMON (3 ½"x0.162") 10d BOX (3"x0.128"); OR 3"x0.131" NAILS	16" O.C. FACE NAIL 12" O.C. FACE NAIL
13	DOUBLE TOP PLATE SPLICE FOR SDCs A-D2 WITH SEISMIC BRACED WALL LINE SPACING <25"	3-16d COMMON (3 ½"x0.162"); OR 2-16d BOX (3"x0.135) OR 12-10d BOX (3"x0.128) OR 12-3"x0.131" NAILS	FACE NAIL ON EACH SIDE OF END JOINT (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
14	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	3-16d COMMON (3 ½"x0.162") 16d BOX (3"x0.135) OR 3"x0.131" NAILS	16" O.C. FACE NAIL 12" O.C. FACE NAIL
15	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (AT BRACED WALL PANELS)	3-16d COMMON (3 ½"x0.162") OR 2-16d COMMON (3 ½"x0.162") OR 4-3"x0.131" NAILS	3 EACH 16" O.C. FACE NAIL 2 EACH 16" O.C. FACE NAIL 4 EACH 16" O.C. FACE NAIL
16	TOP OR BOTTOM PLATE TO STUD	4-8d BOX (2 ½"x0.113) OR 4-8d COMMON (2 ½"x0.131") OR 4-10d BOX (3"x0.128) OR 4-3"x0.131" NAILS	TOE NAIL
17	TOP OR BOTTOM PLATE TO STUD	3-16d BOX (3 ½"x0.135) OR 2-16d COMMON (3 ½"x0.162") OR 3-10d BOX (3"x0.128) OR 3-3"x0.131" NAILS	END NAIL
17	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	3-10d BOX (3"x0.128) OR 2-16 d COMMON (3 ½"x0.162") OR 3-3"x0.131" NAILS	FACE NAIL
18	1" BRACE TO EACH STUD AND PLATE	3-8d BOX (3"x0.128) OR 2-8d COMMON (2 ½"x0.162") OR 2-10d BOX (3"x0.128) OR 2-8d BOX (2 ½"x0.113) OR	FACE NAIL
19	1" X 6" SHEATHIGN TO EACH BEARING	2-8d COMMON (2 ½"x0.162") OR 2-10d BOX (3"x0.128) OR 2-8d BOX (2 ½"x0.113) OR	FACE NAIL
20	1"x8" AND WIDER SHEATHIGN TO EACH BEARING	3-8d COMMON (2 ½"x0.162") OR 3-10d BOX (3"x0.128)	FACE NAIL
FLOOR			
21	JOIST TO SILL, TOP PLATE OR GIRDER	4-8d BOX (2 ½"x0.113) OR 3-8d COMMON (2 ½"x0.131") OR 3-10d BOX (3"x0.128) OR 3-3"x0.131" NAILS	TOE NAIL
22	RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATION ALSO)	3-16d COMMON (3 ½"x0.162") OR 3-10d COMMON (2 ½"x0.131") OR 8d COMMON (2 ½"x0.131) OR 10d BOX (3"x0.128) OR 3"x0.131" NAILS	4" OC TOE NAIL 6" OC TOE NAIL
23	1" X 6" SUBFLOOR OR LESS TO EACH JOIST	3-8d BOX (2 ½"x0.113) OR 2-8d COMMON (2 ½"x0.131") OR 3-10d BOX (3"x0.128) OR	FACE NAIL
24	2" SUBFLOOR TO JOIST OR GIRDER	3-16d BOX (3 ½"x0.135) OR 3-16d COMMON (3 ½"x0.162") OR 3-16d BOX (3 ½"x0.135) OR	BLIND AND FACE NAIL
25	2" PLANKS (PLAN & BEAM - FLOOR & ROOF)	2-16d COMMON (3 ½"x0.162") OR 3-16d COMMON (3 ½"x0.162)	AT EACH BEARING, FACE NAIL
26	BAND OR RIM JOIST TO JOIST	3-16d COMMON (3 ½"x0.162) 4-10d BOX (3"x0.128) OR 4-3"x0.131" NAILS	END NAIL
27	BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER LAYERS	20d COMMON (4"x0.192) OR 10d BOX (3"x0.128) OR 3"x0.131" NAILS	NAIL EACH LAYER AS FOLLOWS: 32" OC AT TOP AND BOTTOM AND STAGGERED.
		10d BOX (3"x0.128) OR 3"x0.131" NAILS	
		2-20d COMMON (4"x0.192) OR 3-10d BOX (3"x0.128) OR 3-3"x0.131" NAILS	24" OC FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
28	LEDGER STRIP SUPPORTING JOIST OR RAFTER	4-16d BOX (3 ½"x0.135) OR 3-16d COMMON (3 ½"x0.162) OR 4-10d BOX (3"x0.128) OR 4-3"x0.131" NAILS	FACE NAIL AT ENDS ADN AT EACH SPLICE
29	BRIDGING TO JOIST	2-10d (3"x0.128)	AT EACH JOIST OR RAFTER, FACE NAIL

- o. NAILS ARE SMOOTH-COMMON, BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED. NAILS USED FOR FRAMIGN AND SHEATHING CONNECTIONS SHALL HAVE MINIMUM AVERAGE BENDING YIELD STRENGTHS AS SHOWN: 80KSI FOR SHANK DIAMERER OF 0.192" (20d COMMON NAILS), 90KSI FOR SHANK DIAMETER LARGER THAN 0.142" BUT NOT LARGER THAN 0.172" AND 100KSI FOR SHANK DIAMETERS OF 0.142" OR LESS.
- d. STAPLES ARE 16 GAGE WIRE AND HAVE A MINIMUM 1 7/8" ON DIAMETER CROWN WIDTH.
- c. NAILS SHALL BE SPACED AT NO MORE THAN 6" OC AT ALL SUPORTS WHERE SPANS ARE 48" OR GREATER.
- d. FOUR-FOOT BY 8-FOOT OR 4-FOOT BY 9-FOOT PANELS ASHALL BE APPLIED VERTICALLY.
- e. SPACING OF FASTENERS NOT INCLUDED IN THIS TABLE SHALL BE BASED ON TABLE R602.3(2).
- f. WHERE THE ULTIMATE DESIGN WIND SPEED IS 130MPH OR LESS, NAILS FOR ATTACHIGN WOOD STRUCTURAL PANEL ROOF SHEATHING TO GABLE END WALL FRAMIGN SHALL BE SPACED 6" O.C., WHERE THE ULTIMATE DESIGN WIND SPEED IS GREATER THAN 130MPH, NAILS FOR ATTACHING PANEL ROOF SHEATHING TO INTERMEDIATE SUPPORTS SHALL BE SPACED 6" OC,. FOR MINIMUM 48" DISTANCE FROM RIDGES, EAVES ADN GALBE END WALLS; AND 4" O.C. TO GABLE END WALL FRAMIGN.
- g. GYPSUM SHEATHING SHALL CONFORM TO ASTM C1396 AND SHALL BE INSTALLED IN ACCORDANCE WITH GA 253. FIBERBOARD SHEATHING SHALL CONFORM TO ASTM C208.
- h. SPACING OF FASTENERS ON FLOOR SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBER SAND REQUIRED BLOCKING AND AT FLOOR PERIMETERS ONLY SPACING ON ROOF SHETAHIGN PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRES BLOCKING. BLOCKING OF ROOF OR FLOOR SHEATHIGN PANELS EDGES PERMIDEICULAR TO THE FRAMIGN MEMBERS NEED TO NO BE PROVIDED EXCEPT AS REQUIRED B OTHER PROVISION OF THIS CODE. FLOOR PERIMER SHALL BE SUPPORTED BY FRAMIGN MEMBERS OR SOLID BLOCKING.
- i. WEHRE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE, PROVIDE TWO TOE NAILS ON ONE SIDE OF THE RAFTER AND TOE NAILS FROM THE CEILING JOIST TO TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE. THE TOE NAIL ON THE OPPOSITE SIDE OF THE RAFTER SHALL NOT BE REQUIRED.

SOILS & FOUNDATION
1. THE FOUNDATION DESIGN IS BASED ON MINIMUM BEARING CAPACITY AS PER CBC 2022 EQUAL TO 1300 PSF.
2. THE ENGINEER OF RECORD MUST BE INFORMED OF ANY CHANGES IN DESIGN CRITERIA MADE BY THE SOIL ENGINEER IN THE COURSE OF CONSTRUCTION.
3. ALL FOOTINGS AND SLABS SHALL BE FOUNDON ON FIRM UNDISTURBED NATURAL SOILS OR COMPACTED FILL.
4. ALL COMPACTED FILL SHALL BE PLACED IN AN APPROVED MANNER WITH A MINIMUM DENSITY OF 90% OF THE MAXIMUM OBTAINABLE IN ACCORDANCE WITH ASTM D 1557.
5. SYSTEM AND ALL DRAINAGE SHALL BE CONDUCTED TO THE STREET IN AN ACCEPTABLE MANNER AND IN A NON-EROSIVE DEVICE.
6. REFER TO FOUNDATION PLANS, NOTES & DETAILS FOR ADDITIONAL INFORMATION.
7. ALLOWABLE SOIL BEARING PRESSURE: 1300 PSF INTO UNDISTURBED

CONCRETE NOTES
1. ALL CONCRETE, UNLESS NOTED OTHERWISE, SHALL BE REGULAR WEIGHT, HARD ROCK TYPE (150 PCF), AGGREGATES SHALL CONFORM TO ASTM C33 WITH PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN 0.05%.
2. CEMENT SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C150 - TYPE II.
3. MINIMUM 28-DAY ULTIMATE COMPRESSIVE STRENGTH 2,500 PSI, U.N.O. CONTINUOUS INSPECTION BY A DEPUTY INSPECTION IS NOT REQUIRED.
4. CONCRETE COVERAGE OF REINFORCING STEEL: SLAB-ON-GRADE: 4" ON-CENTER MAXIMUM U.N.O. ON SHEAR WALL SCHED. EMBEDDED 7" INCH MINIMUM IN CONCRETE. BOLTS SHALL HAVE PLATE WASHERS (SEE S.W. SCHEDULE) AND PROPERLY SIZED NUTS. MINIMUM 2 BOLTS PER PLATE, ONE BOLT WITHIN 12 INCHES BUT NO LESS THAN 7 BOLT DIAMETERS. OF PLATE END AND CORNERS.
FORMED AND/OR FINISHED SURFACES EXPOSED TO EARTH OR WEATHER. #5 BAR AND SMALLER 1-1/2 INCHES #6 BAR AND LARGER 2 INCHES
5. FORMS AND SHORING SHALL REMAIN UNDISTURBED AS FOLLOWS: VERTICAL SURFACES 7 DAYS STRUCTURAL SLAB 10 DAYS
6. ALL REINFORCING STEEL, DOWEL, EMBEDDED HARDWARE, HOLD DOWN BOLTS, STRAPS, AND POST BASES MUST BE WELL SECURED IN PROPER LOCATIONS PRIOR TO PLACING CONCRETE.
7. MAXIMUM IN-PLACE DENSITY OF NONSTRUCTURAL LIGHTWEIGHT CONCRETE FLOOR TOPPING IS TO BE 100#/CUBIC FT.
8. REFER TO SLAB PLAN NOTES FOR ADDITIONAL INFORMATION, U.N.O.

REINFORCING STEEL	
1. ALL REINFORCING STEEL: NOTE: #3 AND SMALLER #4 AND LARGER	ASTM A-615, GRADE 40 ASTM A-615, GRADE 60
2. WELDED WIRE FABRIC	ASTM A-185
3. REINFORCING MARKED CONT. (CONTINUOUS) MAY BE SPLICED WITH LAPS, AS SPECIFIED IN THE CODE, UNLESS OTHERWISE SPECIFIED.	

HARDWARE AND WOOD CONNECTORS
1. ALL WOOD FRAMING CONNECTORS SHALL BE SIMPSON "STRONG-TIE". INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH SIMPSON'S PRODUCT AND INSTRUCTION MANUAL/CATALOG C-2013, OR EQUAL OR BETTER. ALL THE NAILS / SCREWS / BOLTS LISTED ON THE CATALOG APPLY UNLESS SPECIFICALLY NOTED OTHERWISE.
2. ALL HOLD DOWN ANCHOR NUTS SHALL BE TIGHTENED JUST PRIOR TO COVERING WALL FRAMING. (LEAVE ENOUGH SPACE BETWEEN THE SILL AND THE HD TO ALLOW FOR SOME SLIP AT POST CONNECTION WHEN TIGHTENING.

ICC ESR REFERENCE LIST				
MANUFACTURER	PRODUCT	DESCRIPTION	ICC#	LABR#
SIMPSON	A34/A34LP4	MISC. FRAMING CLIPS	ESR-2606	25716
SIMPSON	HIT	TENSION TIE	ES-130	25818
SIMPSON	HCU	HOLDOWNS	ESR-2330	25790
SIMPSON	HCU/HUS	HANGERS	ESR-2552	25801
SIMPSON	LUS/HUS	HANGERS	ESR-2549	25802
SIMPSON	INSTLST/ST/CS/C/MST	STRAPS	ESR-2105	25783
SIMPSON	SOS/SDWS	WOOD SCREWS	ESR-2236	25711
W.R. GRACE	BITUTHENE	WATERPROOFING	---	24386
SIMPSON	PC/C	COLUMN CAP	ESR-2604	24386
SIMPSON	GLB	BEAM SEAT	ESR-2877	25806
HILTI	X-C	SHOT PIN	ESR-1663	25646
OR LAURENCE	GAS	GUARDRAIL SHOE	ESR-3269	---
HARDY FRAME	HFX	MANUFACTURED SHEAR WALL	ESR-2089	25759
BOISE CASCADE	BCI	I-JOISTS	ESR-1336	24999
SIMPSON	GLB	BEAM SEAT	ESR-2877	25806
HILTI	HIT-RE 70	EPOXY FOR MASONRY	ESR-3342	25947
HILTI	HIT-RE 500 SD	EPOXY	ESR-2322	25700
HILTI	KWIKBOLT 3	WEDGE ANCHOR	ESR-1385	25577

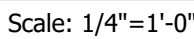
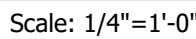
WOOD ROUGH FRAMING
1. ALL LUMBER USED FOR STRUCTURAL PURPOSES SHALL BE DOUGLAS FIR-LARCH, GRADED IN ACCORDANCE WITH THE WEST COAST LUMBER INSPECTION BUREAU. ALL LUMBER SHALL BE LESS THAN 19% MOISTURE CONTENT FOR ALL CONSTRUCTION. CONTRACTOR SHALL TEST AND MANAGE MOISTURE CONTENT TO ENSURE PROPER MOISTURE CONTENT DURING ALL STORAGE AND HANDLING OPERATIONS.
2. THE MINIMUM GRADES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON PLANS (ALL WOOD MUST BE GAGE MARKED): HORIZONTAL FRAMING MEMBERS (JOIST AND BEAMS) 2X D.F. #2 4X12 OR SMALLER D.F. #2 4X14 OR LARGER D.F. #1 6X D.F. #1
VERTICAL FRAMING MEMBERS (STUD AND POST) 2X4 D.F. #2 2X6 D.F. #2 4X4, 4X6 D.F. #2 6X OR LARGER D.F. #1
MISC. LUMBER SILL PLATE (GROUND FLOOR) P.T. D.F. #2 SOLE PL. (UPPER FLOORS) D.F. #2 2X TOP PLATE D.F. #2 SHEAR BLOCKING D.F. #2
NON-STRUCTURAL BLOCKING & BRIDGING UTILITY
3. ALL BLOCKING SHALL BE CUT TO FIT FLUSH AGAINST SHEATHING AND OTHER FRAMING MEMBER.
4. ALL SILL PLATES BEARING ON MASONRY OR CONCRETE FOUNDATION WALL OR SLAB ON GRADE SHALL BE PRESSURE TREATED. IN ACCORDANCE WITH CBC 2308.4.4 SILL PLATES SHALL BE BOLTED TO THE FOUNDATION WITH 5/8 INCH DIAMETER BOLTS AT 4'-0" ON-CENTER MAXIMUM U.N.O. ON SHEAR WALL SCHED. EMBEDDED 7" INCH MINIMUM IN CONCRETE. BOLTS SHALL HAVE PLATE WASHERS (SEE S.W. SCHEDULE) AND PROPERLY SIZED NUTS. MINIMUM 2 BOLTS PER PLATE, ONE BOLT WITHIN 12 INCHES BUT NO LESS THAN 7 BOLT DIAMETERS. OF PLATE END AND CORNERS.
5. WALL-FRAMING TO BE 2X STUDS AT 16 INCHES ON-CENTER ON EXTERIOR WALLS AND 2X STUDS AT 16 INCHES ON-CENTER AT INTERIOR WALLS. U.N.O. PROVIDE DOUBLE TOP PLATE ON ALL WALLS WITH MINIMUM 48 INCH LAP SPLICE. UNLESS SPECIFICALLY NOTED ON PLANS, THE MAXIMUM STUD HEIGHT FOR 2X4 EXTERIOR WALL IS 10 FEET, FOR 2X4 INTERIOR WALL IS 14 FEET, MAXIMUM NON-BEARING STUD HEIGHT FOR 2X6 STUDS IS 20 FEET, U.N.O.
6. PROVIDE 0.058" X 1-1/2" WIDE STEEL TIE STRAPS WITH 6-16d NAILS AT EACH SIDE WHERE PLATES ARE INTERRUPTED BY UTILITY PENETRATIONS @ NON-SHEAR WALLS. IF PENETRATIONS WILL OCCUR @ SHEAR WALL, NOTIFY THE ENGINEER PRIOR TO STARTING WORK.
7. PROVIDE 1X4 LET-IN DIAGONAL BRACES AT EACH 25 UNLEAF FEET OF NON-SHEAR WALL EACH CORNER, AND ALL MAIN CROSS STUD PARTITIONS. LET-IN TO CROSS 4 STUD SPACES AT 45 DEGREES WHERE POSSIBLE. SOLID BLOCKING SHALL BE PROVIDED AT ALL HORIZONTAL JOINTS OCCURRING IN BRACED WALLS.
8. PROVIDE SINGLE ONE ADDITIONAL JOIST UNDER NON-BEARING PARTITION WHEN WALL PARALLEL W/ JOISTS.
9. ROOF SHEATHING SHALL BE INSPECTED PRIOR TO PLACING INSULATION AND ROOFING.
10. ALL RATED SHEATHING SHALL BE IDENTIFIED WITH THE GRADE TRADEMARK OF APA- THE ENGINEERED WOOD ASSOCIATION AND SHALL MEET THE REQUIREMENTS OF PRODUCTS STANDARD PS 1409, PS2-10 OR APA PRP 108 ALL APA RATED SHEATHING WHICH HAS ANY EDGE OR SURFACE PERMANENTLY EXPOSED TO THE WEATHER SHALL BE OF THE EXTERIOR TYPE. APA RATED SHEATHING SHEET LESS THAN 24 INCHES IN ANY DIMENSION SHALL NOT BE USED IN SHEAR WALLS, FLOOR, OR ROOF DIAPHRAGMS.
11. FLOOR JOIST ARE NOT DESIGNED TO SUPPORT WATER BEDS. ENGINEER OF RECORD TO BENOTIFIED IF WATER BEDS ARE TO BE USED.
12. STRUCTURAL MEMBERS SHALL NOT BE CUT OR NOTCHED UNLESS SPECIFICALLY DETAILED BY THE ENGINEER OF RECORD.
13. FRAMING FOR PRE-FABRICATED FIREPLACE FLUES SHALL BE BALLOON FRAMED FULL HEIGHT USING 2X4 STUDS AT 16" O.C. BRACED AT MID-HEIGHT AND AT THE PLATE HEIGHTS. U.N.O. ON PLAN MAXIMUM UN-BRACED LENGTH IS 14'.
14. ALL BEAMS TO BE SUPPORTED WITH FULL BEARING MULTISTUD OR POST, U.N.O.
15. CARRY ALL MULTIPLE STUDS OR POSTS FROM FLOOR ABOVE DOWN TO FLOOR OR BEAM BELOW. PROVIDE 4X SOLID BLOCKING AT FLOOR LEVEL TO TRANSFER LOAD FROM UPPER POST TO LOWER POST.
16. INTERIOR NON-BEARING HEADERS MAY BE 2X4 PLAT, INSTALL 4X4 AT 6' AND 8'.
17. DECK / BALCONY SHEATHING: DO NOT USE OSB UNLESS APPROVED BY EOR/JARCH.
18. FOR LAG BOLTS: PROVIDE LEAD HOLES 65% TO 75% OF SHANK DIA. AND FULL DIA. FOR SHANK PORTION. SOAP, PARAFFINOR OR OTHER APPROVED LUBRICANT SHALL BE USED ON THREADS. INSTALLATION SHALL BE BY SCREWING, NO HAMMERSING. CARE SHALL BE TAKEN TO AVOID OVER TIGHTENING OF THE BOLT.
19. ALL MULTISTUDS ARE TO BE LAMINATED WITH 16d AT 12" O.C.
20. ALL BALLOON FRAMED WALLS SHALL BE BRACED TO CONFORM TO CBC 2022 TABLE 2308.5.1
21. PROVIDE PRE-DRILLING WHERE NECESSARY TO AVOID SPLITTING.
22. ONLY COMMON NAILS SHALL BE USED FOR ALL WOOD SHEAR WALLS AND SHEAR TRANSFER CONNECTIONS. NAIL GUNS USING "CLIPPED HEADS" OR "SINKER" NAILS ARE NOT ACCEPTABLE.
23. PROVIDE MINIMUM OF 1/2" EDGE DISTANCE FOR ALL PLYWOOD BOUNDARY NAILING IN SHEAR WALLS. ALL PLYWOOD EDGES SHALL BE BLOCKED, MIN. WIDTH OF BLOCKING TO RECEIVE PLYWOOD NAILING MUST NOT BE LESS THAN THE THICKNESS OF BOUNDARY MEMBER AS SPECIFIED ON SHEAR WALL SCHEDULE.
24. OMIT SHEATHING B.N. UNDER CMST STRAP. INSTALL CMST OVER SHEATHING, U.N.O.
25. HOLDOWN ANCHORS MUST BE TIED IN PLACE PRIOR TO FOUND. INSPECTION.
26. DIAPHRAGM SHEATHING NAILS OR OTHER APPROVED SHEATHING CONNECTORS SHALL BE DRIVEN SO THAT THEIR HEAD OR CROWN IS FLUSH WITH THE SURFACE OF THE SHEATHING.
27. NO UTILITY LINE PENETRATION IS ALLOWED AT SHEAR WALLS.

FOUNDATION & FRAMING NOTES
1. HOLD-DOWN CONNECTOR BOLTS INTO WOOD FRAMING REQUIRES APPROVED WASHERS; AND HOLD-DOWNS SHALL BE FINGER TIGHT AND ½ TURN WREN JUST PRIOR TO COVERING THE WOOD FRAMING. 2305.5 OF THE BUILDING CODE.
2. ROOF DIAPHRAGM NAILING TO BE INSPECTED BEFORE COVERING. FACE GRAIN PLYWOOD SHALL BE PERPENDICULAR TO SUPPORTS. FLOOR SHALL HAVE TONGUE AND GROOVE OR BLOCKED EDGES. PLYWOOD SPAN SHALL CONFORM WITH TABLE 2308.4.7
3. ALL DIAPHRAGM AND SHEA WALL NAILING SHALL UTILIZE COMMON NAILS OR GALVANIZED BOX.
4. ALL BOLT HOLES SHALL BE DRILLED ½" TO ¾" OVERSIZED.
5. HOLD-DOWN HARDWARE MUST BE SECURED IN PLACE PRIOR TO FOUNDATION INSPECTION.
6. FASTENERS FOR PRESERVATIVE-TREATED OR FIRE-RETARDANT TREATED WOOD SHALL BE OF HOT DIPPED ZINC-COATED GALVANIZED STEEL IN ACCORDANCE WITH ASTM A15.

STRUCTURAL ABBREVIATIONS			
AB	ANCHOR BOLT	EWB	ENGINEERED WOOD BEAM
ABV	ABOVE	EXT	EXTERIOR
ADDL	ADDITIONAL	FA	FROM ABOVE
ALT	ALTERNATE	FDN	FOUNDATION
BEW	BOTTOM EACH WAY	FH	FULL HEIGHT
BLK	BLOCK	FJ	FLOOR JOIST
BLKG	BLOCKING	FL	FLUSH
BLW	BELOW	FLR	FLOOR
BM	BEAM	FNGR	FINGER
BN	BOUNDARY NAILING	FRMG	FRAMING
BO	BOTTOM OF	FT	FEET
BOB	BOTTOM OF BEAM	GA	GAGE
BOW	BOTTOM OF WALL	GLB	GLULAM BEAM
BRG	BEARING	GT	GIRDER TRUSS
BTM	BOTTOM	HDR	HEADER
BTWN	BETWEEN	HGR	HANGER
BTK	BETTER	HT	HIP TRUSS
CB	CALIFORNIA BUILDING CODE	IBC	INTERNATIONAL BUILDING CODE
CENT./C	CENTER LINE	IN	INCH
CLG	CEILING	INFO	INFORMATION
CONC	CONCRETE	INT	INTERIOR
DBL	DOUBLE	JST	JOIST
DF	DOUGLAS FIR	KS	KING STUD
DIA	DIAMETER	LVL	LAMINATED STRAND LUMBER
DJ	DECK JOIST	LVL	LAMINATED VENEER LUMBER
DP	DEEP	MAX	MAXIMUM
DTP	DROP	MAN	MANUFACTURER
EA	EACH	MIN	MINIMUM
EI	EXPANSION INDEX	MPH	MILES PER HOUR
EMBED	EMBEDMENT	MULT	MULTIPLE
EN	END NAILING	OVER	OVER
EW	EACH WAY	OC	ON CENTER
PI	PLASTICITY INDEX		
PLT/P	PLATE		
PLYWD	PLYWOOD		
PNL	PANEL		
PSF	POUNDS PER SQUARE FOOT		
PSI	POUNDS PER SQUARE INCH		
PSL	PARALLEL STRAND LUMBER		
PT	POST TENSION		
REV	REVISION		
RF	ROOF		
RR	ROOT RAFTER		
SHTG	SHEATHING		
SIM	SIMILAR		
SNK(S)	SINKER(S)		
SPN	SOLE PLATE NAILING		
SQ	SQUARE		
SQSH	SQUASH		
STD	STANDARD		
TOW	TOP OF WALL		
TO	TOP OF		
TOB	TOP OF BEAM		
TOW	TOP OF WALL		
TP	TOP PLATE		
TR	TRIMMER		
TRS	TRUSS		
TSI	TRIANGULAR STRAND LUMBER		
TYP	TYPICAL		
UBC	UNIFORM BUILDING CODE		
UNO	UNLESS NOTED OTHERWISE		
WWM	WELDED WIRE MESH		
W/	WITH		
W/O	WITHOUT		

GENERAL NOTES
ALL WORK TO CONFORM TO THE 2022 CBC, 2022 CRC, AND CITY OF PICO RIVERA AMENDMENTS.
1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS, CONDITIONS AT THE JOBSITE, AND TO CROSS CHECK ALL DETAILS AND DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH RELATED REQUIREMENTS ON THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND/OR CIVIL DRAWINGS AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING WORK.
2. FLOOR AND WALL OPENINGS, SLEEVES, VARIATIONS IN STRUCTURAL SLAB ELEVATIONS, DEPRESSED AREAS AND ALL OTHER ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND/OR CIVIL REQUIREMENTS MUST BE COORDINATED BEFORE THE CONTRACTOR PROCEEDS WITH CONSTRUCTION.
3. IN ALL CASES WHERE A CONFLICT MAY OCCUR SUCH AS BETWEEN ITEMS INCLUDED IN THE SPECIFICATIONS AND NOTES ON THE DRAWINGS OR BETWEEN GENERAL NOTES AND SPECIFIC DETAILS, THE ENGINEER SHALL BE NOTIFIED AND WILL INTERPRET THE INTENT OF THE CONTRACT DOCUMENT.
4. DETAIL MARKED "TYPICAL" SHALL APPLY IN ALL SIMILAR CASES UNLESS SPECIFICALLY INDICATED OTHERWISE.
5. WHERE NO SPECIFIC DETAIL IS SHOWN, THE FRAMING OR CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION.
6. EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE NOTED OR SHOWN IN THE PLANS OR SPECIFICATIONS, ALL PHASES OF WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, LATEST EDITION, AS WELL AS ALL APPLICABLE STATE AND LOCAL ORDINANCES.
7. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THE STRUCTURAL DRAWINGS.
8. THE PRECISE DIMENSIONS AND LOCATIONS OF ALL DOOR AND WINDOW OPENINGS SHALL BE DETERMINED FROM THE ARCHITECTURAL DRAWINGS; OTHER FLOOR, WALL, AND ROOF OPENINGS AS REQUIRED BY MECHANICAL ELECTRICAL OR SIMILAR REQUIREMENTS SHALL BE VERIFIED FROM SHOP DRAWINGS, EQUIPMENT DATA, ETC., AS REQUIRED.
9. THE CONSTRUCTION DOCUMENT REPRESENTS A FINISHED PRODUCT. UNLESS NOTED OTHERWISE, IT DOES NOT INDICATE THE METHOD OF CONSTRUCTION, TEMPORARY BRACING, SHORING AND TEMPORARY SUPPORT FOR ANY STRUCTURAL COMPONENTS AND FOR CONSTRUCTION LOAD IMPOSED BY CONSTRUCTION EQUIPMENT AND / OR ARSEN DUE TO THE WEIGHT OF THE STORED CONSTRUCTION MATERIALS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS AND PROCEDURES.
10. ALL WORK OF THE CONTRACTOR, SUB-CONTRACTORS, AND BUILDER SHALL CONFORM TO CURRENT GOOD PRACTICES. NOT ALL ASPECTS OF GOOD PRACTICES ARE SHOWN ON THE CONTRACT DRAWINGS.
11. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR LOCATION AND CONSTRUCTION OF DRAFTSTOPS, FIRE BLOCKING, DAMPERS AND OTHER ITEMS NECESSARY FOR FIRE PROTECTION. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR LOCATION AND CONSTRUCTION OF FLASHING, BLOCKING, EXTERIOR FINISHES, TREATMENTS OR OTHER MATERIAL REQUIRED FOR DAMPROOFING OR MOISTURE CONTROL.
12. FOR ANY PRE-MANUFACTURED PRODUCTS OR MATERIALS OF CONSTRUCTION, CONTRACTOR SHALL BE RESPONSIBLE FOR BEING FAMILIAR WITH AND FOR PROPER EXECUTION OF MANUFACTURER'S INSTRUCTIONS, REQUIREMENTS AND CONDITIONS OF APPROVAL PRIOR TO INSTALLATION AND/OR USE.
13. ALL OF THE WOOD FRAMING STRUCTURAL COMPONENTS SPECIED ON THE PLAN SHALL BE PROTECTED FROM WATER/MOISTURE PENETRATION OR FROM FIRE DAMAGE. THE METHODS OF PROTECTION OF THESE STRUCTURAL COMPONENTS ARE NOT THE RESPONSIBILITY OF THE ENGINEER OF RECORD AND NOT DETAILED. REFER TO THE ARCHITECTURAL DOCUMENTS AND THE BUILDING CODE FOR WATER / MOISTURE PROOFING METHODS AND FIRE PROOFING DETAILS.
14. THERE SHALL BE NO TRENCHES OR EXCAVATIONS 5 FEET OR MORE IN DEPTH INTO WHICH A PERSON IS REQUIRED TO DESCEND; OR OBTAIN NECESSARY PERMIT FROM STATE OF CALIFORNIA, DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE ISSUANCE OF A BUILDING OR GRADING PERMIT.
15. ANY ASTM DESIGNATIONS SHALL BE AS AMENDED TO DATE.

STRUCTURAL NOTES
1. CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF WIND OR SEISMIC RESISTING SYSTEM, OR COMPONENTS LISTED IN THE "STATEMENT OF SPECIAL INSPECTION" SHALL SUBMIT A WRITTEN STATEMENT OR RESPONSIBILITY TO THE CITY INSPECTOR AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON SUCH SYSTEM & COMPONENT PER SECTION 1709.1.
2. CONTINUOUS SPECIAL INSPECTION BY A REGISTERED DEPUTY INSPECTOR IS REQUIRED FOR FIELD WELDING, POST-INSTALLED ADHESIVE ANCHORS INSTALLED HORIZ



PICO RIVERA PRE - APPROVED ADU
PICO-RIVERA, CA

- FOR USE IN THE CITY OF PICO RIVERA ONLY -

BY USING THESE PERMIT READY CONSTRUCTION DOCUMENTS, THE RECIPIENT, OWNERS AGREE TO RELEASE, HOLD HARMLESS, AND INDEMNIFY THE CITY OF PICO RIVERA, ITS ELECTED OFFICIALS AND EMPLOYEES AND THE ARCHITECT/ENGINEER WHO PREPARED THE CONSTRUCTION DOCUMENTS FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS, AND DEMANDS ON ACCOUNT OF ANY INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY, INCLUDING INJURY OR DEATH, OR ECONOMIC LOSSES, ARISING OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS.

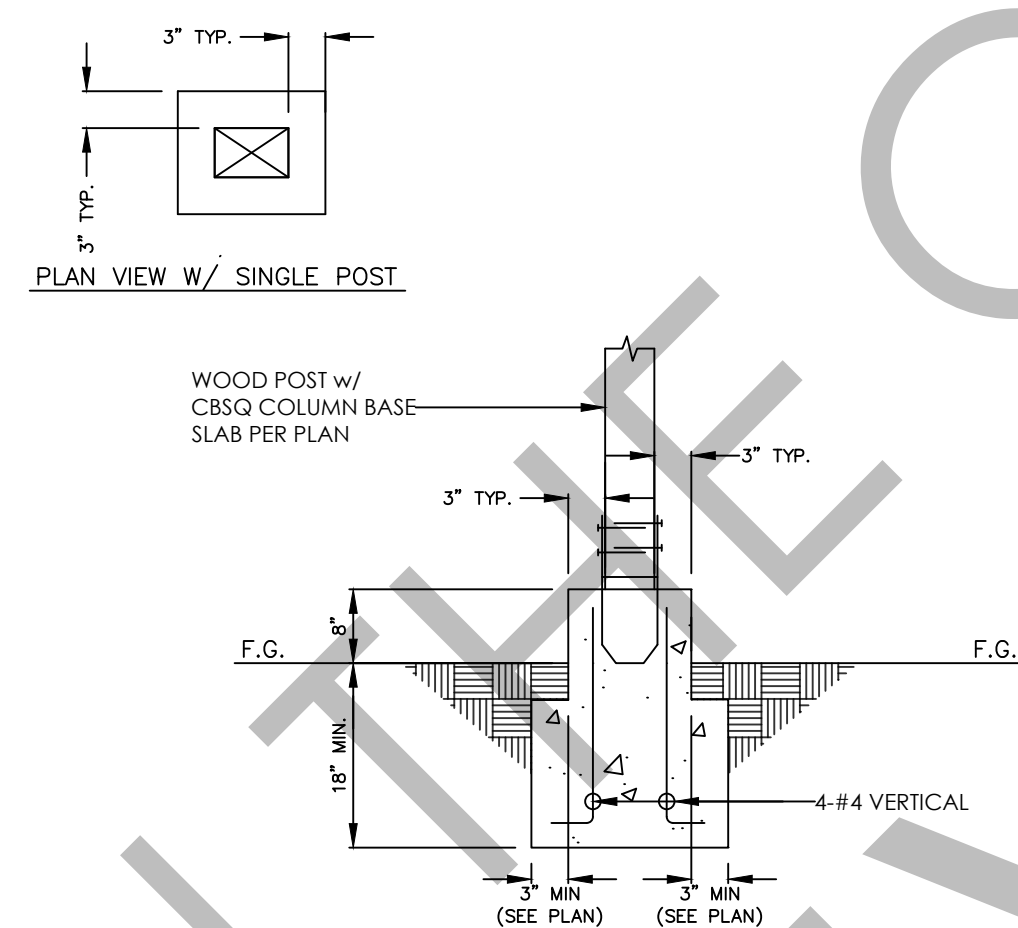
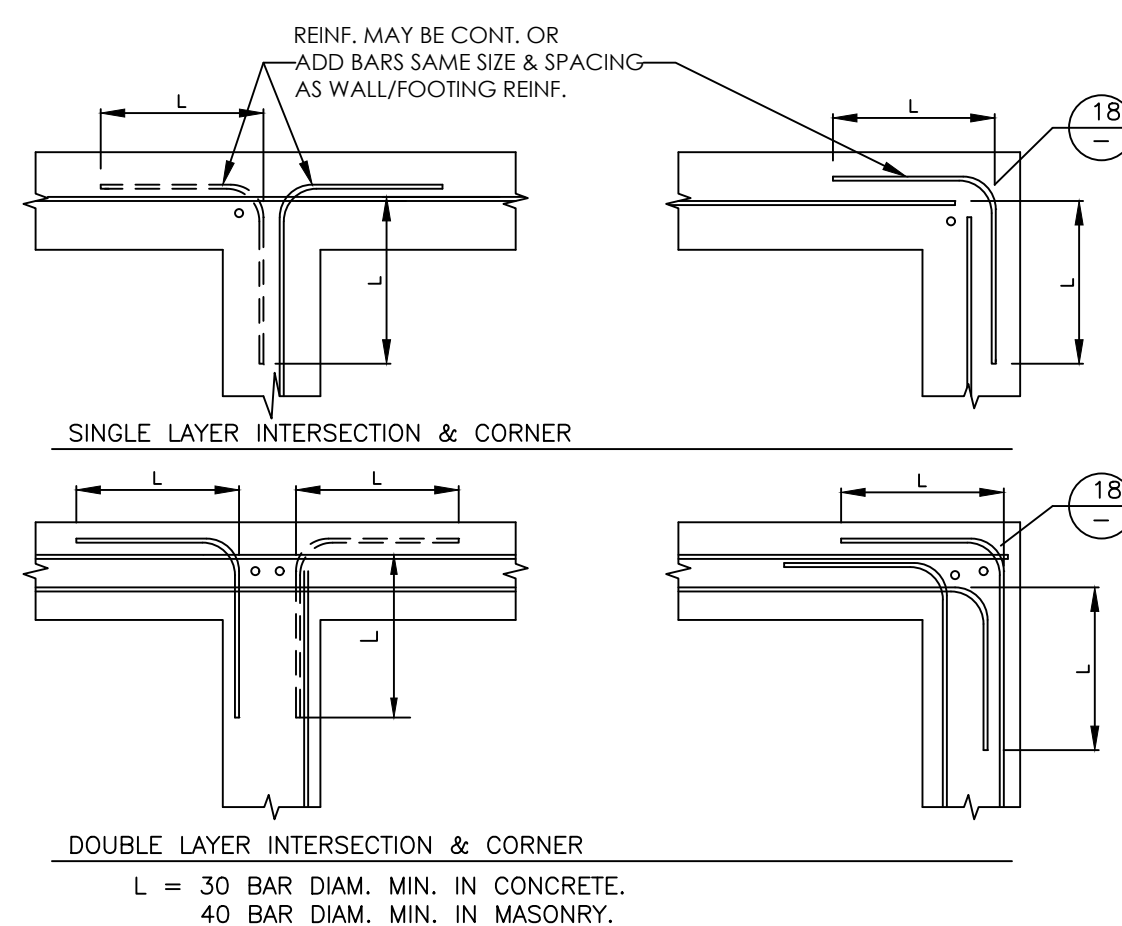
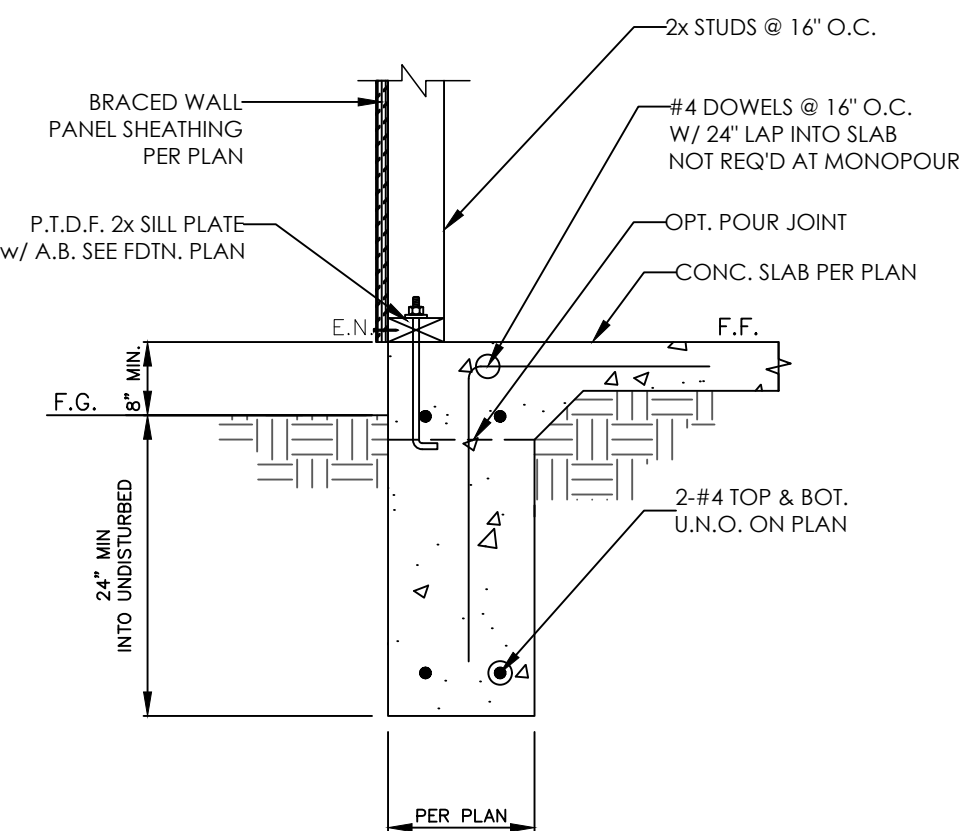
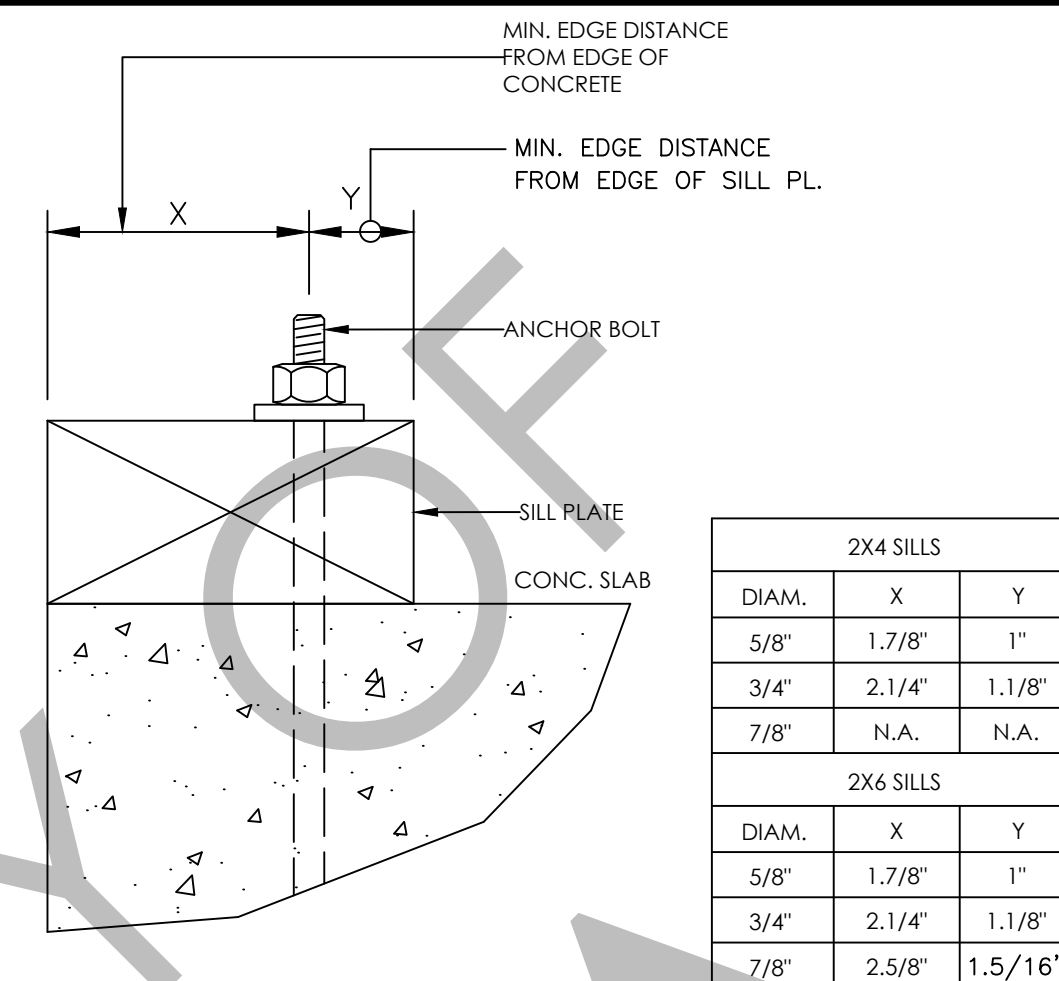
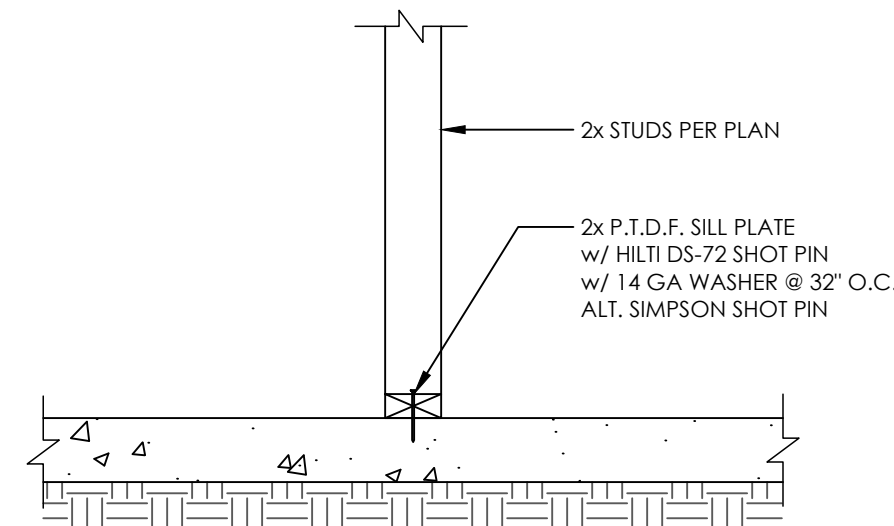
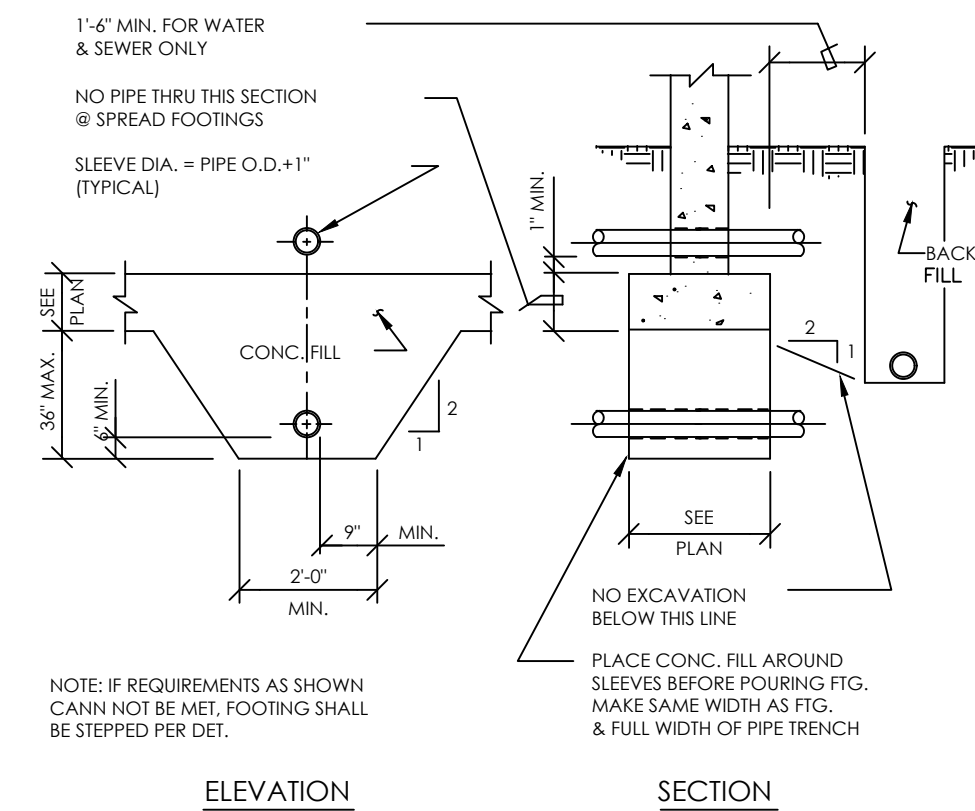
THE USE OF THESE PERMIT READY CONSTRUCTION DOCUMENT DOES NOT ELIMINATE THE REQUIREMENT FOR THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION RELEVANT TO THE RECIPIENT'S WORK AND RESPONSIBILITY ON THIS PROJECT.

SHEET DESCRIPTION

FRAMING PLAN
& FOUNDATION PLAN

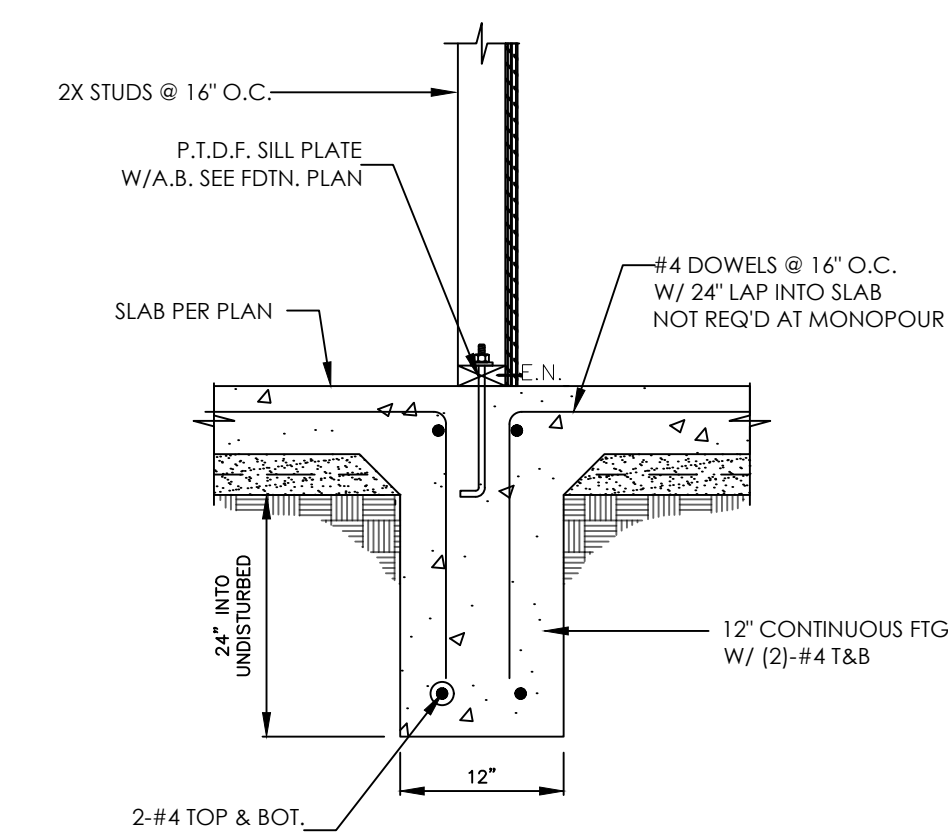
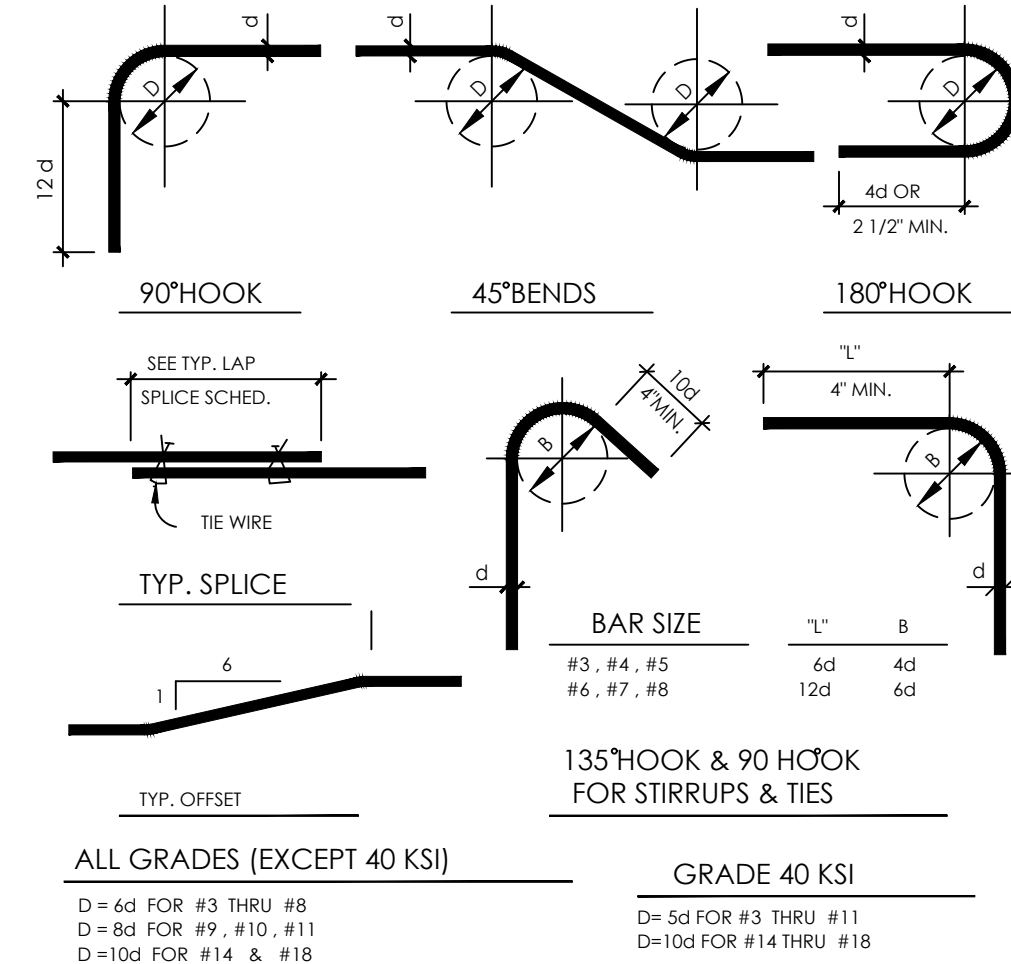
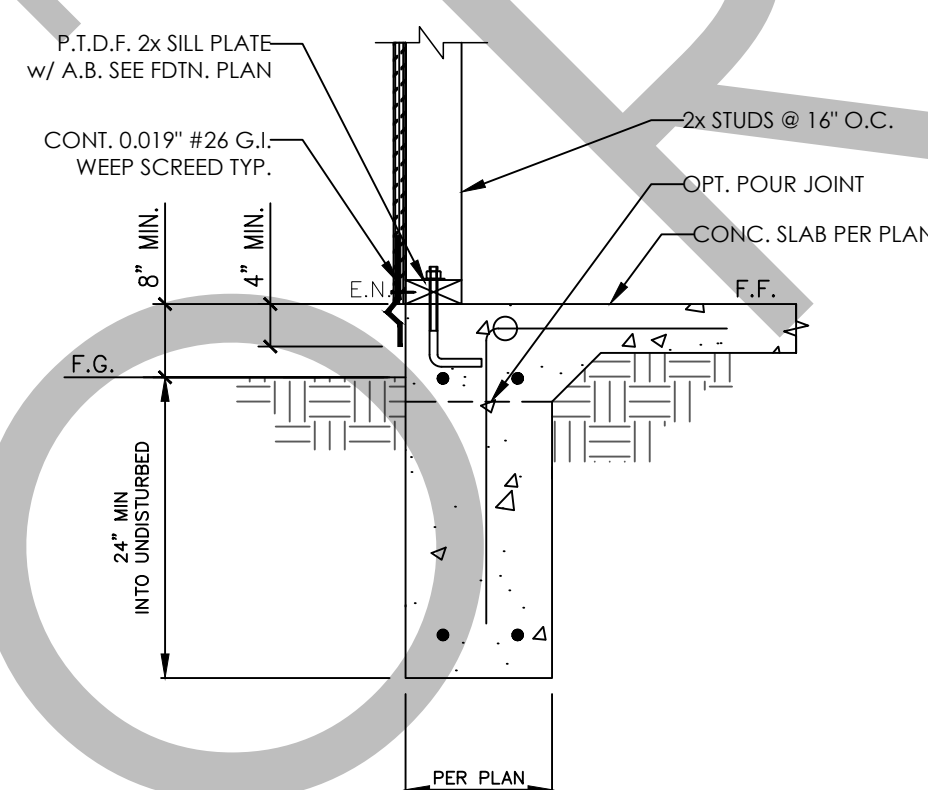
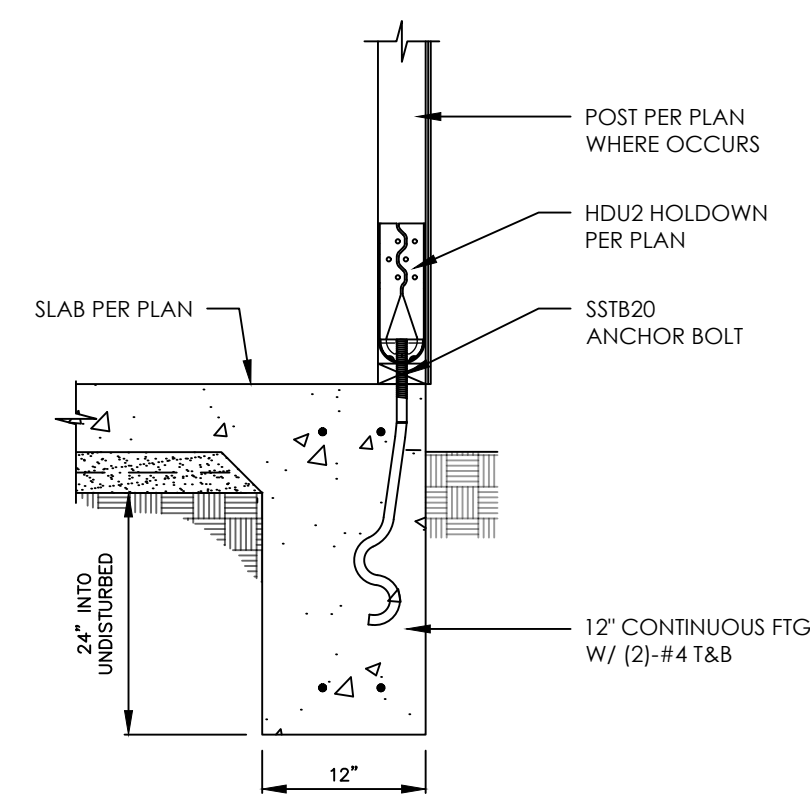
SHEET NO.

S-1.0

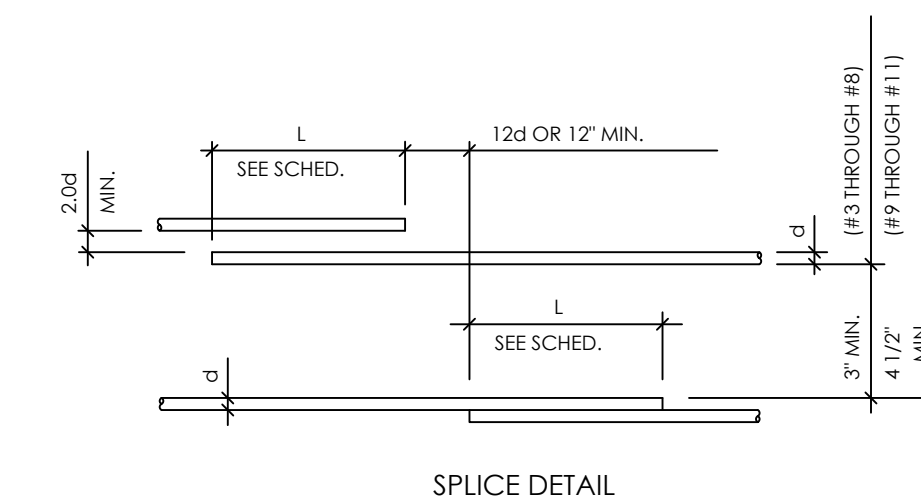


ANCHOR BOLT LOCATIONS:		EXTERIOR WALLS	INTERIOR WALLS	
			BEARING	NON-BEARING
ANCHOR BOLT DIAMETER:		5/8" DIA.	5/8" DIA.	SHOT PINS PER 9/SD1
BOLT LENGTH AT MONOPOUR:	W/ 2x SILL	10"	10"	--
	W/ 3x SILL	12"	12"	--
BOLT LENGTH AT DUALPOUR	W/ 2x SILL	14"	14"	--
	W/ 3x SILL	16"	16"	--
MAX. ANCHOR BOLT SPACING: U.N.O. PER SHEAR WALL SCH.		4'-0" O.C.	4'-0" O.C.	PER 9/SD1

1. ALL ANCHOR BOLTS SHALL ACHIEVE 7" EMBEDMENT INTO CONCRETE.
ANCHOR BOLTS SHALL BE FROM TOP OF SLAB AT MONOPOUR CONDITION OR
BELOW COLD JOINT AT DUAL POUR CONDITION. AT CURB/WALL CONDITION,
EMBEDMENT SHALL BE FROM TOP OF CURB/WALL.
2. THE ANCHOR BOLTS SHALL SECURE THE SILL PLATE IN PLACE WITH A PROPERLY
SIZED NUT & 3/8" DIA. 1/2" THK WASHER W/ DIAGONALLY SLOTTED HOLE.
3. MINIMUM (2) ANCHOR BOLTS PER PIECE OF SILL PLATE. THE ANCHOR BOLTS
SHALL BE LOCATED WITHIN 7" MIN OR 12" MAX FROM THE END OF ANY SILL
PLATE BREAK.
4. BOLT SHALL MAINTAIN 1-3/4" EDGE OF CONCRETE DISTANCE & 1" EDGE OF
SILL PLATE DISTANCE.

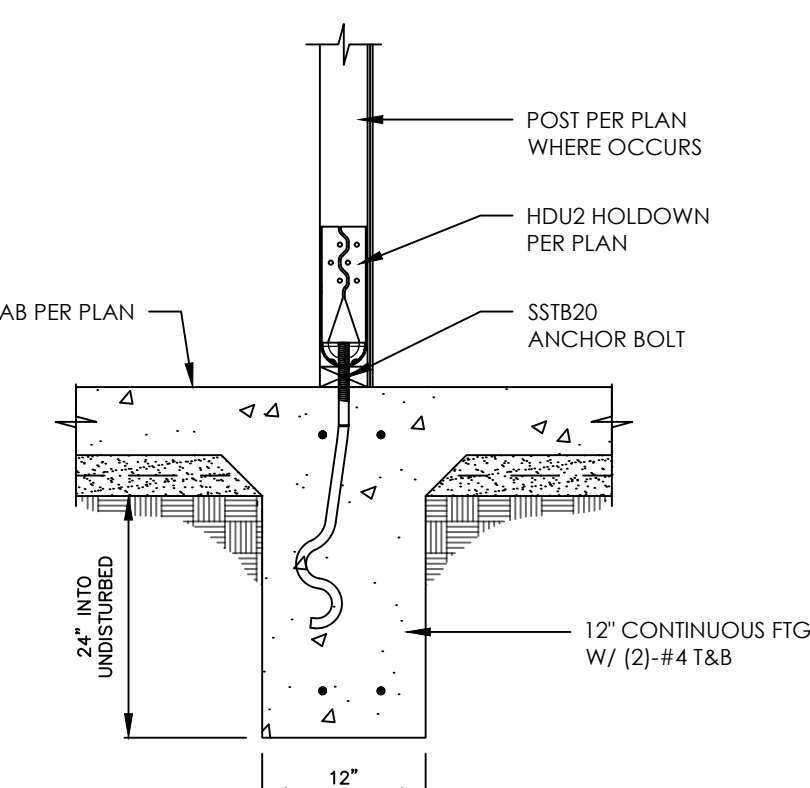


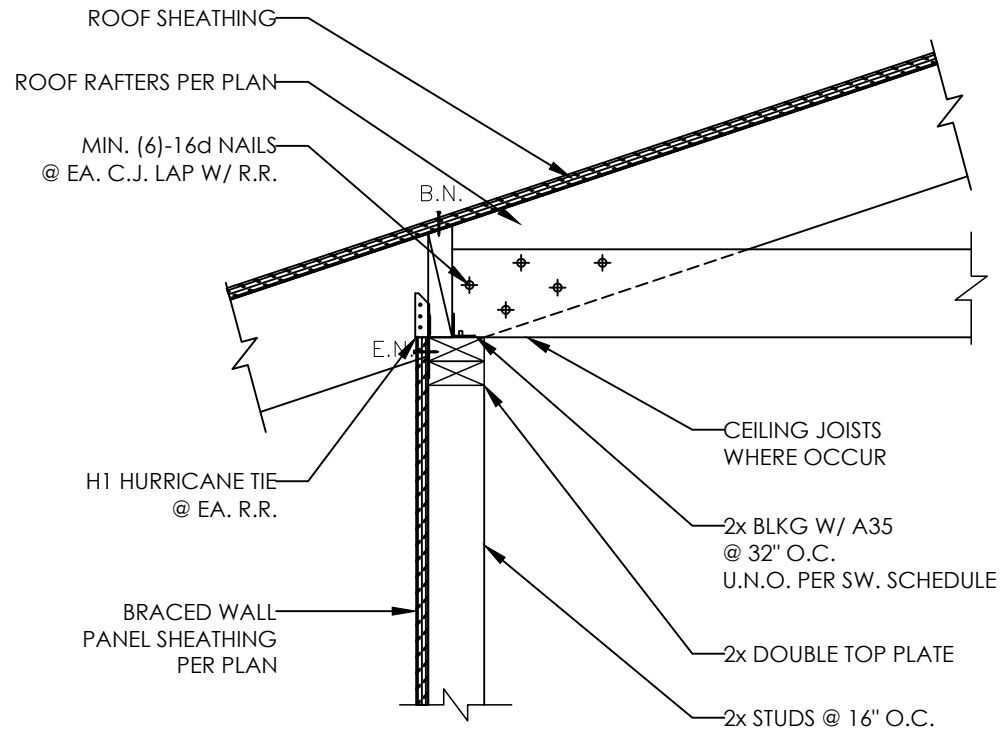
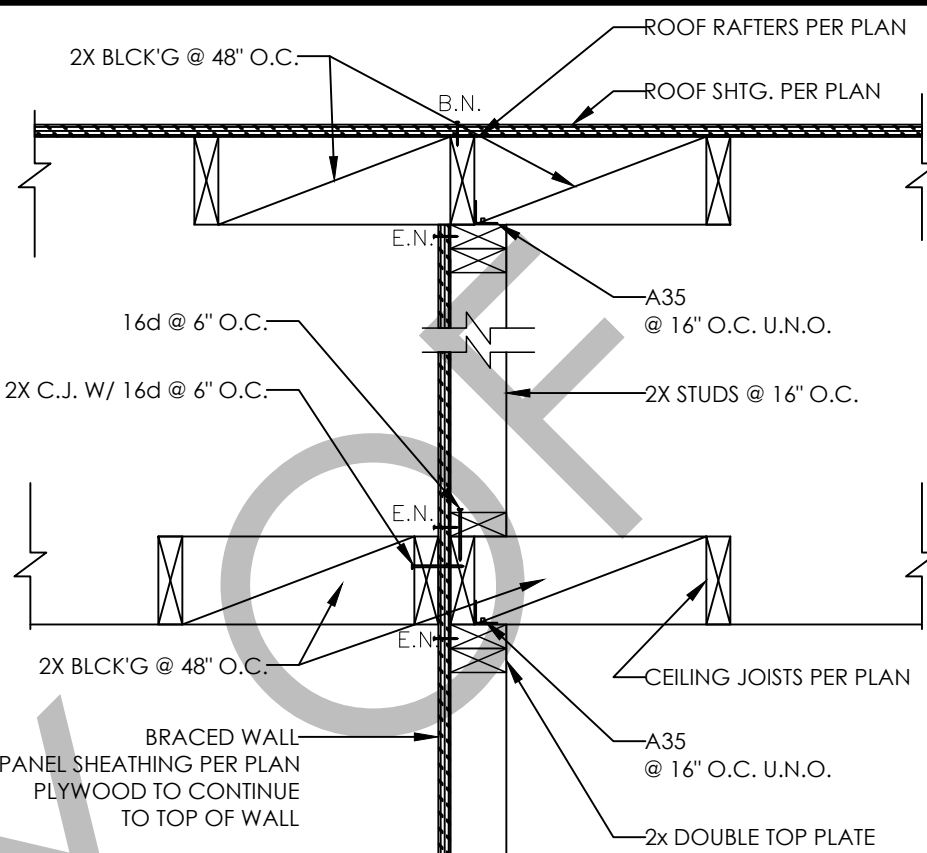
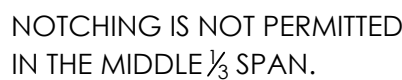
LAP SPUCE (L) SCHEDULE fy = 60 KSI								
CONCRETE STRENGTH		* fc = 2500 PSI (NORMAL WEIGHT CONCRETE)				* fc = 4000 PSI (NORMAL WEIGHT CONCRETE)		
CLASS OF LAP SPUCE		CLASS 'A'		CLASS 'B'		CLASS 'A'		CLASS 'B'
BAR SIZE	BASIC	TENSION BAR	BASIC	TENSION BAR	BASIC	TENSION BAR	BASIC	TENSION BAR
#3	13"	17"	17"	22"	12"	16"	14"	19"
#4	17"	22"	22"	29"	15"	20"	19"	25"
#5	21"	28"	28"	36"	18"	24"	24"	32"
#6	27"	36"	36"	48"	24"	32"	31"	41"
#7	37"	49"	49"	64"	32"	42"	42"	55"
#8	49"	64"	64"	83"	42"	55"	55"	72"
#9	62"	81"	81"	105"	53"	69"	69"	90"
#10	78"	102"	102"	132"	68"	88"	88"	115"
#11	96"	125"	125"	163"	83"	108"	108"	141"



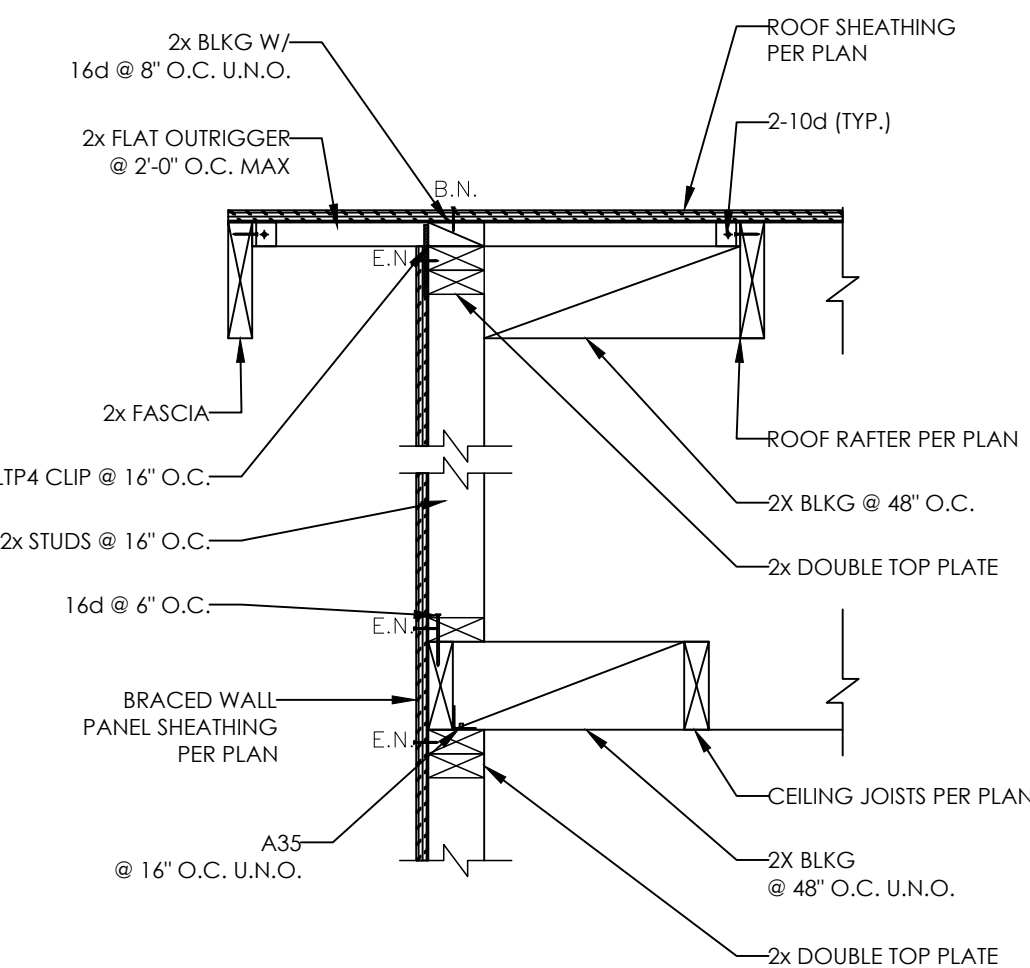
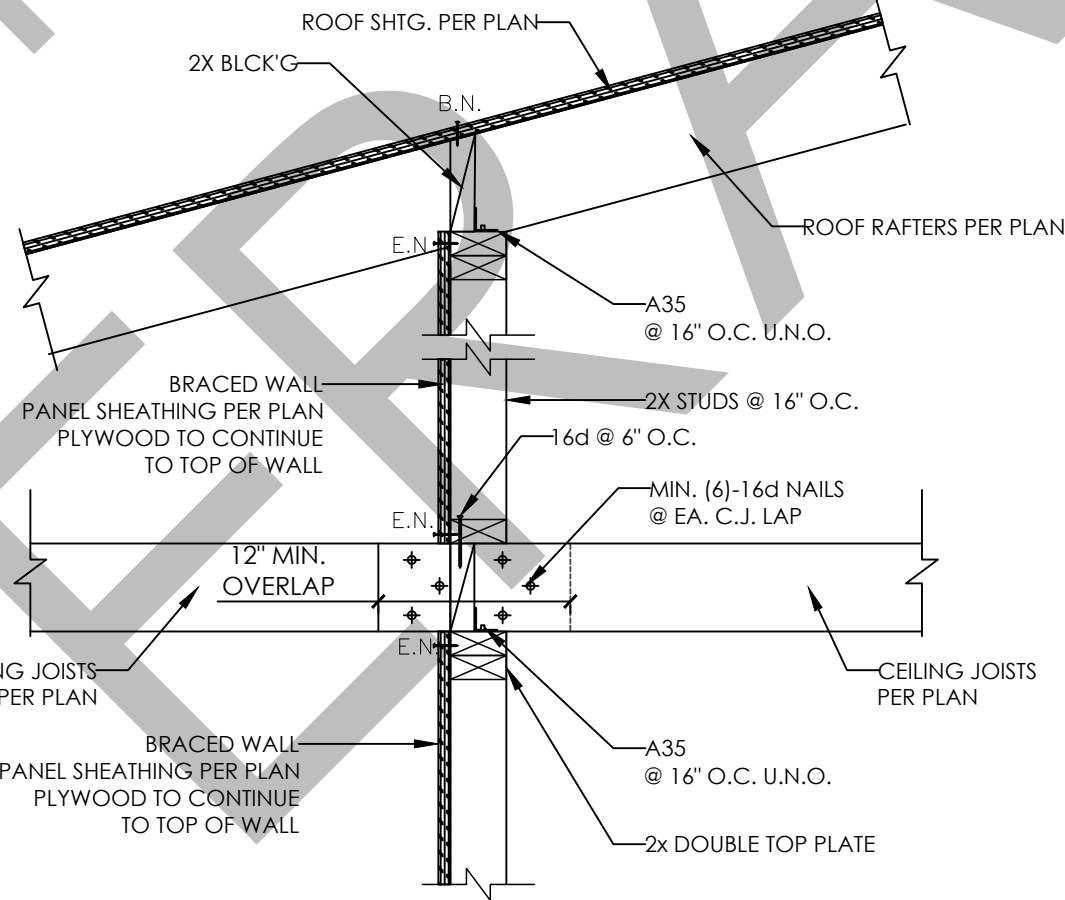
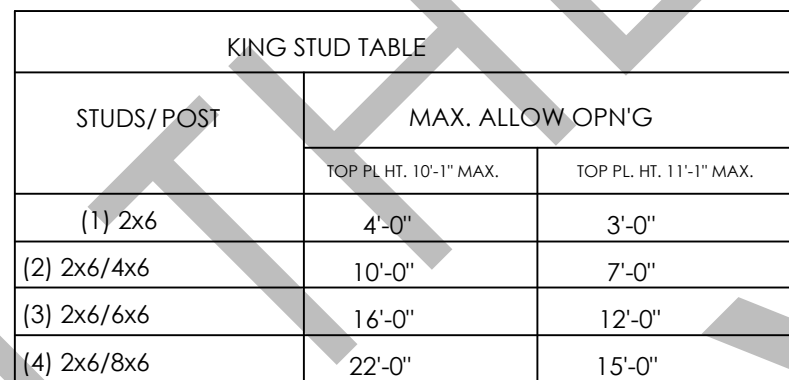
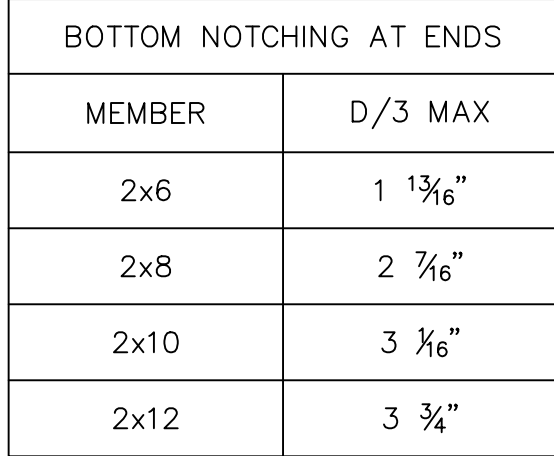
- NOTES:

1. USE CLASS 'B' SPLICES FOR VERTICAL & HORIZONTAL BARS TYP. U.N.O.
2. TENSION BARS ARE HORIZONTAL BARS WITH 12" OR MORE OF CONCRETE CAST BELOW THEM. MULTIPLE HORIZONTAL BARS IN SINGLE VERT. PLANE SUCH AS COLUMN TIES OR HORIZ. BARS IN WALLS NEED NOT BE CONSIDERED TOP BARS.
- * 3. VALUES SHOWN ARE FOR GRADE 60 BARS IN NORMAL WEIGHT CONCRETE. FOR LIGHT WEIGHT CONCRETE MULTIPLY VALUES OF TABLE BY 1.3

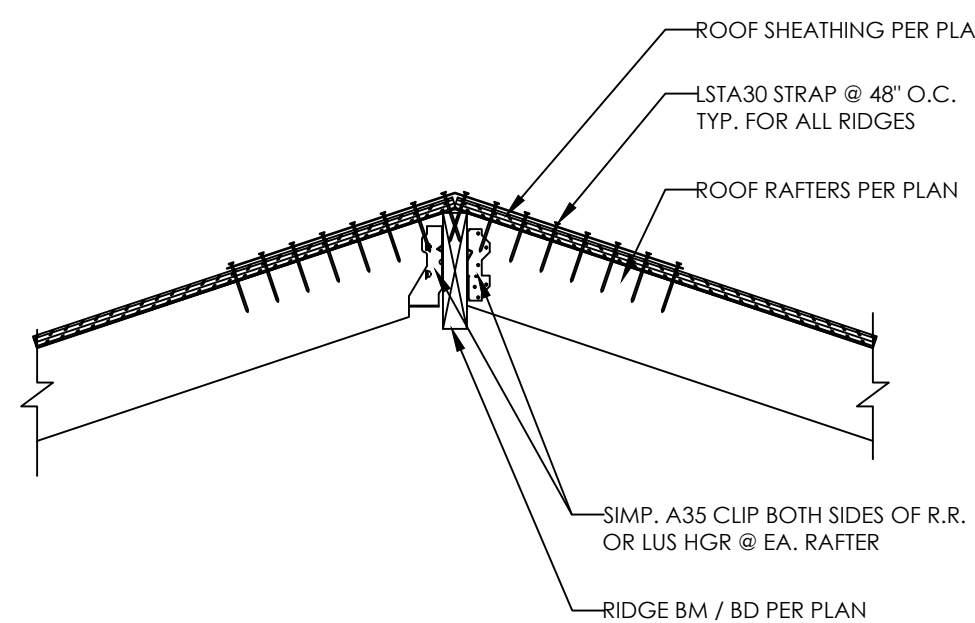
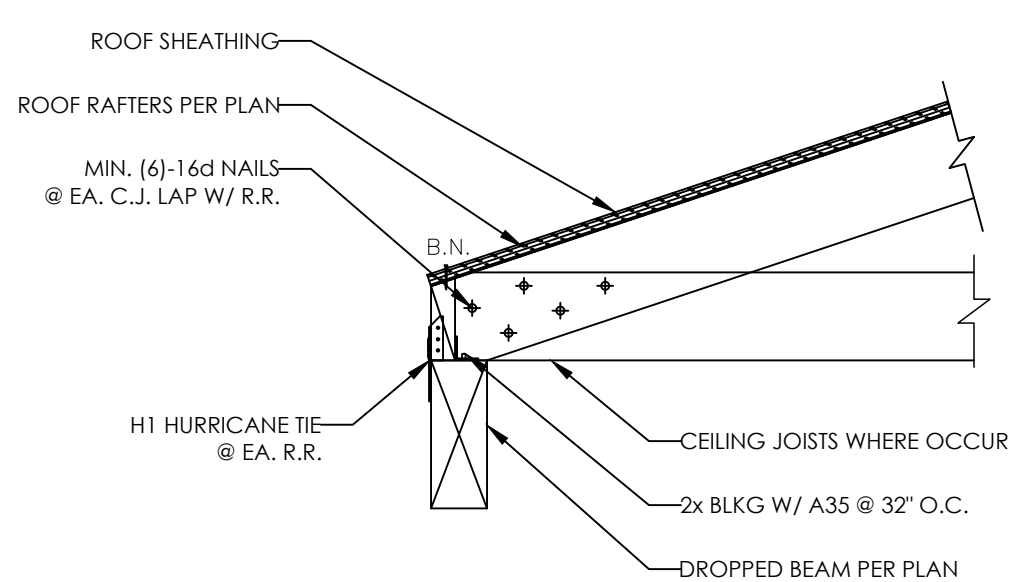
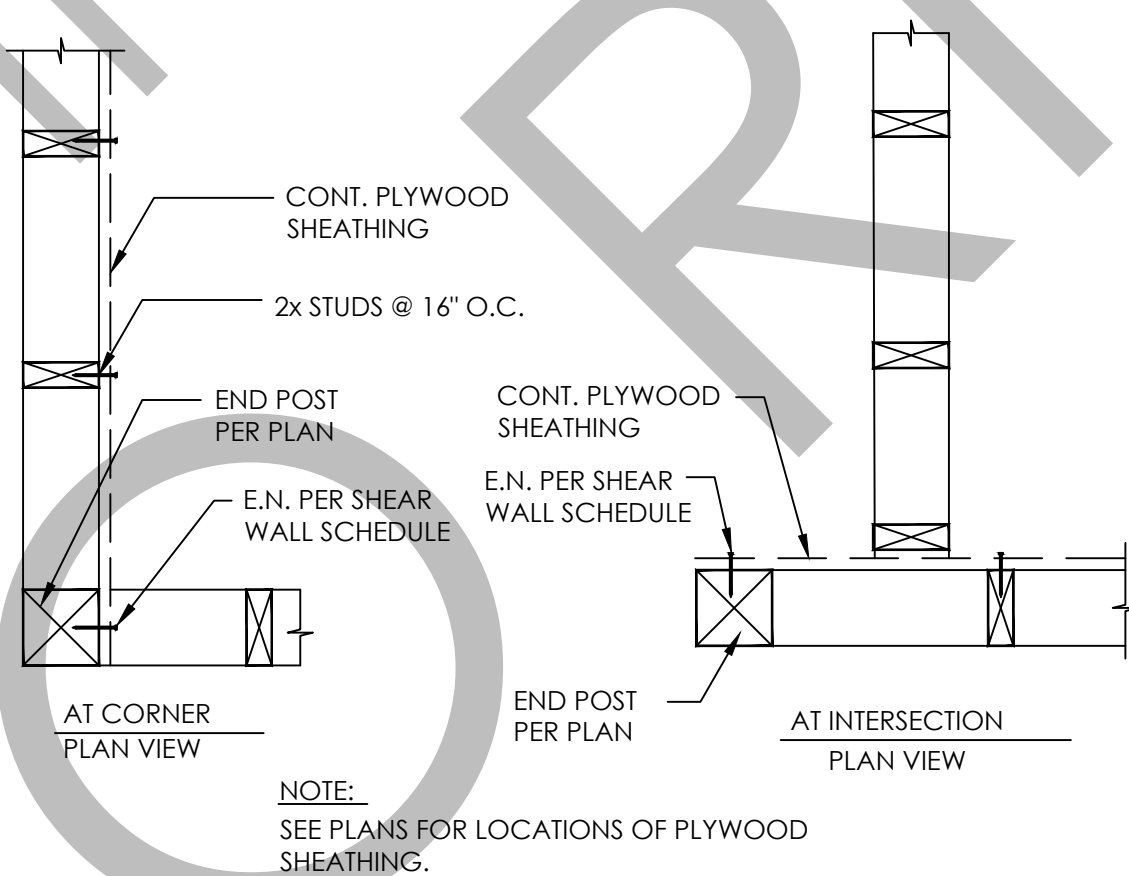
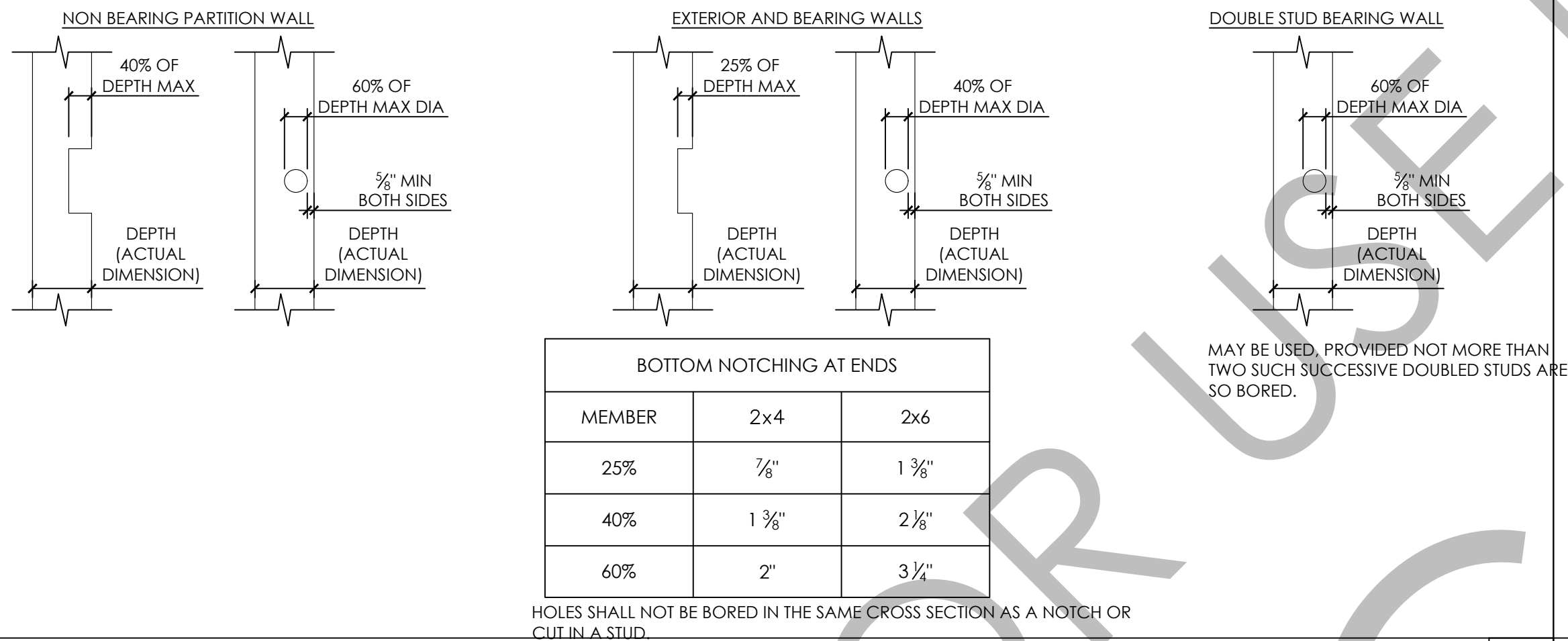




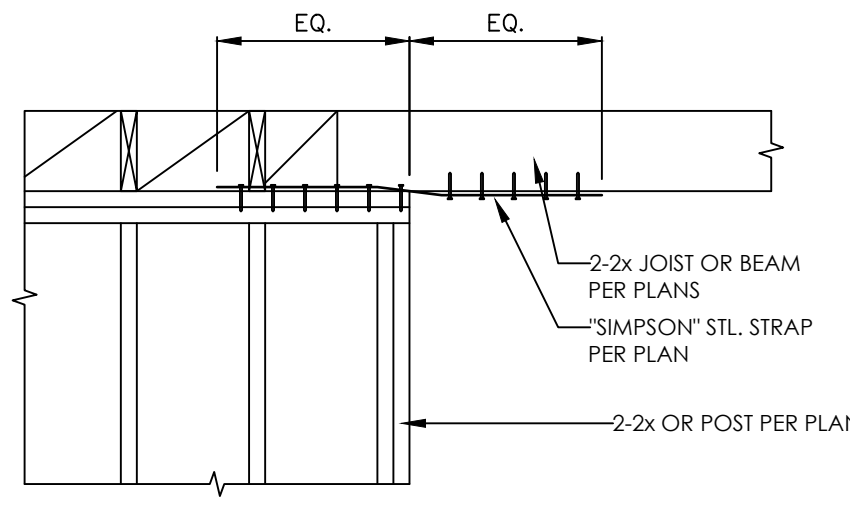
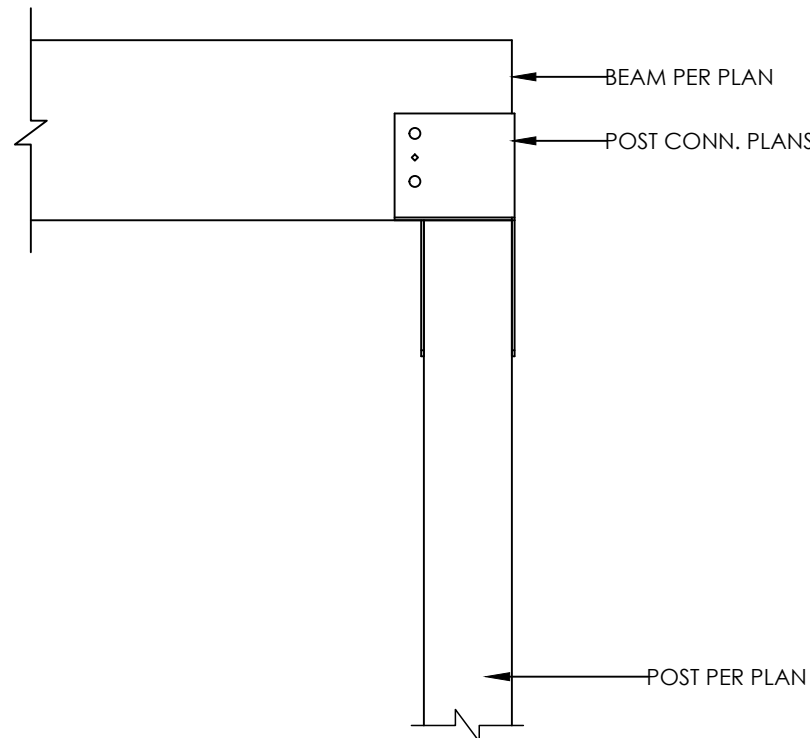
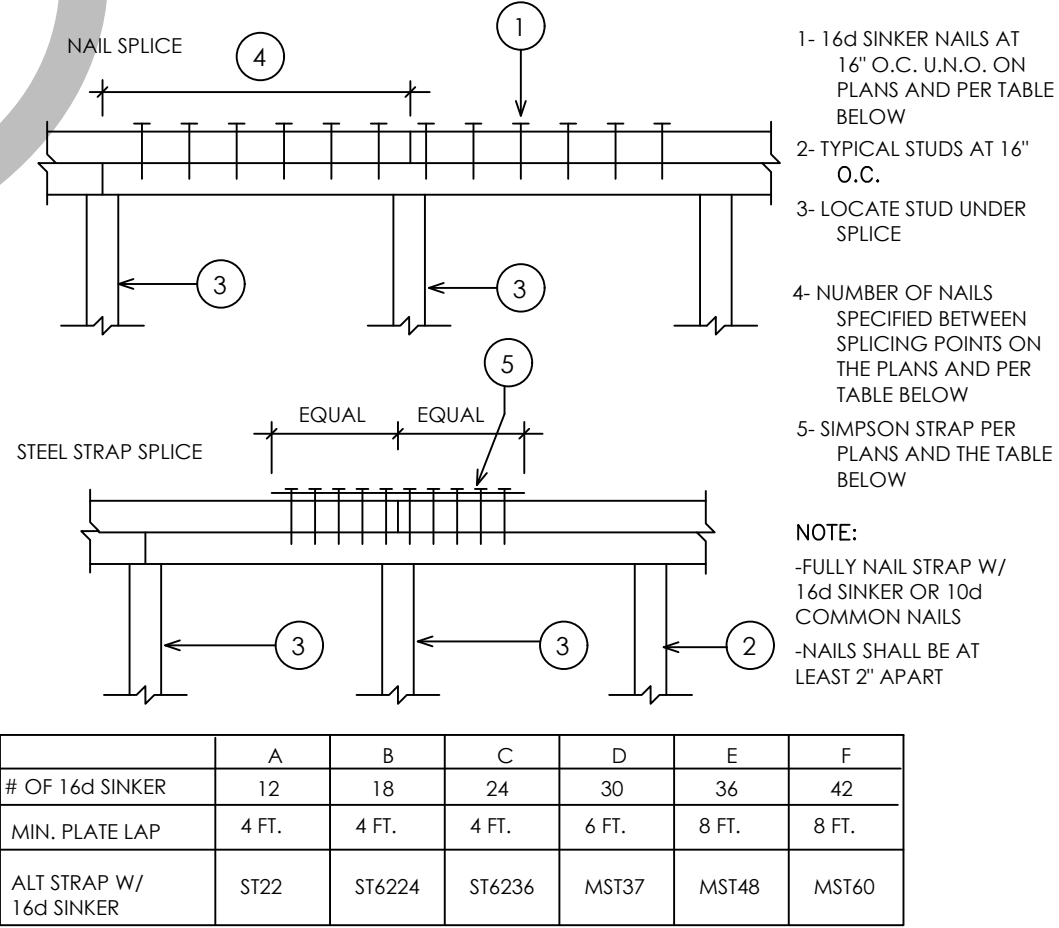
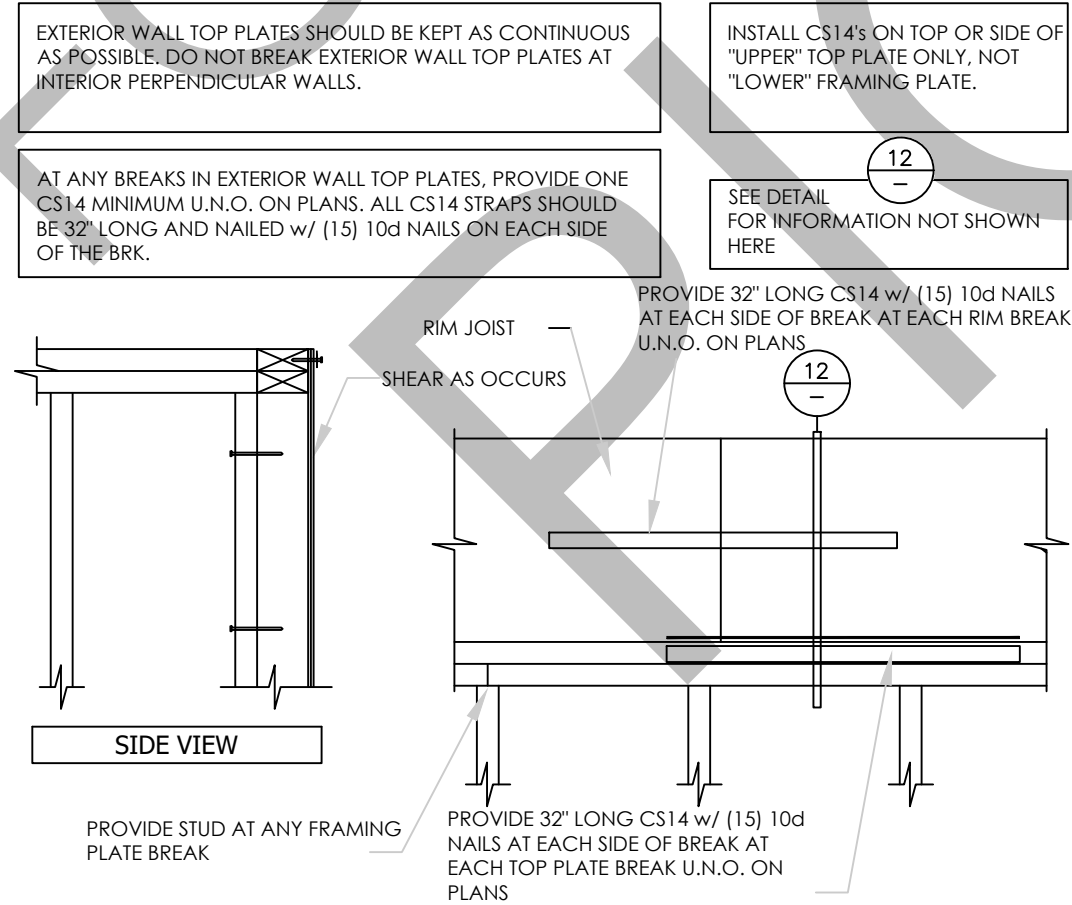
R.R. TO EXT. WALL CONNECTION



R.R. TO EXT. WALL CONNECTION



RIDGE CONNECTION



BEAM TO WALL DRAG CONNECTION