

Design and construction. a. WALL STUDS NOT EXCEEDING 16 INCHES ON CENTER SHALL BE SHEATHED WITH MINIMUM 1/2-INCH GYPSUM BOARD ON THE INTERIOR AND 3/8-INCH WOOD STRUCTURAL PANEL SHEATHING ON THE EXTERIOR. WOOD STRUCTURAL PANEL SHEATHING SHALL BE ATTACHED WITH 8D (2.5" X 0.131") NAILS NOT GREATER THAN 6 INCHES ON CENTER ALONG PANEL EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS, AND ALL PANEL JOINTS SHALL OCCUR OVER STUDS OR BLOCKING. b. FRAMING LUMBER 2X4 STUDS / HEM-FIR NO. 2 2X6 STUDS / HEM-FIR NO. 2 JOISTS, T.P. & ALL OTHER SAWN LUMBER / DOUG-FIR NO. 2 WOOD HEADERS, BEAMS & POSTS / DOUG-FIR NO. 2 c. WHERE THE ULTIMATE DESIGN WIND SPEED EXCEEDS 115 MPH, STUDS SHALL BE ATTACHED TO TOP AND BOTTOM PLATES WITH CONNECTORS HAVING A MINIMUM 300-POUND LATERAL CAPACITY. d. THE MAXIMUM SPAN IS APPLICABLE TO BOTH SINGLE- AND MULTIPLE-SPAN ROOF AND FLOOR CONDITIONS. THE ROOF ASSEMBLY SHALL NOT CONTAIN A HABITABLE ATTIC. VAPOR BARRIER REQUIRED 6 MIL VAPOR BARRIER REQUIRED UNDER HABITABLE SLABS 6x6 OR 6x8 POST TO THE FULL WIDTH OF THE BEAM OR GIRDER IN THE WALL. (POST TO BE SEVERAL STUDS NAILED TOGETHER OR ONE SOLID UNIT). NOTES A) CENTER DOOR/ WINDOW UNIT(S) ON INSIDE WALL B) CENTER DOOR/ WINDOW UNIT(S) ON OUTSIDE WALL WOOD 1. FRAMING LUMBER DOUGLAS FIR LARCH NO. 2 GRADE FOR 2X AND 4X FRAMING EXCEPT FOR 2X4, 2X6 STUDS USE DOUGLAS FIR STUD GRADE, U.N.O. A. 6X FRAMING DFL NO. 1 GRADE. 2. BOLT HOLES SHALL BE 1/16" MAXIMUM LARGER THAN THE BOLT SIZE. RE- TIGHTEN ALL NUTS PRIOR TO CLOSING IN. 3. STANDARD CUT WASHERS SHALL BE USED UNDER BOLT HEADS AND NUTS AGAINST WOOD. 4. ALL SILLS OR PLATES RESTING ON CONCRETE OR MASONRY SHALL BE PRESSURE TREATED DOUGLAS FIR. BOLTS SHALL BE PLACED 9 INCHES FROM THE END OF A PLATE, OR FROM A NOTCH GREATER THAN ½ THE WIDTH OF THE PLATE, AND SPACED AT INTERVALS NOTED. 5. DO NOT NOTCH JOISTS, RAFTERS OR BEAMS EXCEPT WHERE SHOWN IN DETAILS. OBTAIN ENGINEER'S APPROVAL FOR ANY HOLES OR NOTCHES NOT DETAILED. HOLES THROUGH SILLS, PLATES, STUDS AND DOUBLE PLATES IN INTERIOR, BEARING AND SHEAR WALLS SHALL CONFORM WITH THE FOLLOWING: DIA. < 1/3 WIDTH OF PLATE OK FOR ALL WALLS DIA. < ½ WIDTH OF PLATE: SHEAR WALL & DRAG LINE ADD MSTA21 AT ONE FACE DBL PLATE W/O SPLICE. 7. NON-SHEAR WALL & NON-DRAG LINE ADD LSTA12 AT ONE FACE OF 1-½" X 12" LONG 16 GA. STRAP W/ (6) 16 D SINKERS EACH END. DIA. < 2/3 WIDTH OF PLATE: NOT ALLOWED FOR SHEAR WALL & DRAG LINE 9. NON-SHEAR WALL & NON-DRAG LINE ADD LSTA12 AT BOTH FACES. DBL PLATE W/O SPLICE. 10. CONNECTION HARDWARE SHALL BE BY USP OR SIMPSON STRONG-TIE, OR ICBO APPROVED EQUAL. WOOD STRUCTURAL PANELS 1. ALL WOOD STRUCTURAL PANELS SHALL BE PLYWOOD OR APA RATED ORIENTED STRAND BOARD. PANELS SHALL BEAR THE STAMP OF AN APPROVED AGENCY. PANELS SHALL BE OF THE SPAN/INDEX RATING SHOWN ON THE PLANS. FASTENING SHALL BE INDICATED ON THE PLANS. 2. ALL PLYWOOD SHALL BE C-D INTERIOR SHEATHING WITH EXTERIOR GLUE. PLYWOOD SHALL BE 4-PLY, MINIMUM. PREFABRICATED WOOD TRUSSES 1. PREFABRICATED WOOD ROOF TRUSSES SHALL BE AS DESIGNED BY THE TRUSS MANUFACTURER. BRIDGING SIZE AND SPACING BY TRUSS MANUFACTURER UNLESS NOTED OTHERWISE. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, ERECTION DRAWINGS AND DESIGN CALCULATIONS SEALED BY AN ENGINEER, REGISTERED IN THE STATE OF ARIZONA, FOR REVIEW PRIOR TO MANUFACTURE. CALCULATIONS AND SHOP DRAWINGS SHALL SHOW ANY SPECIAL DETAILS REQUIRED AT BEARING POINTS. ALL CONNECTORS SHALL BE SIMPSON OR EQUIVALENT WITH CURRENT I.C.B.O. APPROVAL. 2. TRUSS MANUFACTURER TO DESIGN TRUSSES FOR LATERAL LOAD (LAT. = XXXX) IN POUNDS, AS SHOWN ON PLANS 3. ADDITIONAL TRUSSES SHALL BE SUPPLIED AS REQUIRED TO SUPPORT MECHANICAL EQUIPMENT. 4. ALL TRUSS TO TRUSS TO BEAM CONNECTORS PER TRUSS MG'G. SECTION M1305 APPLIANCE ACCESS M1305.1 APPLIANCE ACCESS FOR INSPECTION SERVICE, REPAIR AND REPLACEMENT APPLIANCES SHALL BE ACCESSIBLE FOR INSPECTION, SERVICE, REPAIR AND REPLACEMENT WITHOUT REMOVING PERMANENT CONSTRUCTION, OTHER APPLIANCES, OR ANY OTHER PIPING OR DUCTS NOT CONNECTED TO THE APPLIANCE BEING INSPECTED, SERVICED, REPAIRED OR REPLACED. A LEVEL WORKING SPACE AT LEAST 30 INCHES DEEP AND 30 INCHES WIDE (762 MM BY 762 MM) SHALL BE PROVIDED IN FRONT OF THE CONTROL SIDE TO SERVICE AN APPLIANCE. INSTALLATION OF ROOM HEATERS SHALL BE PERMITTED WITH AT LEAST AN 18-INCH (457 MM) WORKING SPACE. A PLATFORM SHALL NOT BE REQUIRED FOR ROOM HEATERS. M1305.1.1 FURNACES AND AIR HANDLERS FURNACES AND AIR HANDLERS WITHIN COMPARTMENTS OR ALCOVES SHALL HAVE MINIMUM WORKING SPACE CLEARANCE OF 3 INCHES (76 MM) ALONG THE SIDES, BACK AND TOP WITH A TOTAL WIDTH OF THE ENCLOSING SPACE BEING AT LEAST 12 INCHES (305 MM) WIDER THAN THE FURNACE OR AIR HANDLER. FURNACES HAVING A FIREBOX OPEN TO THE ATMOSPHERE SHALL HAVE AT LEAST A 4-INCH (102 MM) WORKING SPACE ALONG THE FRONT COMBUSTION CHAMBER SIDE. COMBUSTION AIR OPENINGS AT THE REAR OR SIDE OF THE COMPARTMENT SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 17. EXCEPTION: THIS SECTION SHALL NOT APPLY TO REPLACEMENT APPLIANCES INSTALLED IN EXISTING COMPARTMENTS AND ALCOVES WHERE THE WORKING SPACE CLEARANCES ARE IN ACCORDANCE WITH THE EQUIPMENT OR APPLIANCE MANUFACTURER'S INSTALLATION INSTRUCTIONS M1305.1.2 APPLIANCES IN ROOMS. APPLIANCES INSTALLED IN A COMPARTMENT, ALCOVE, BASEMENT OR SIMILAR SPACE SHALL BE ACCESSIBLE BY AN OPENING OR DOOR AND AN UNOBSTRUCTED PASSAGEWAY MEASURING NOT LESS THAN 24 INCHES (610 MM) WIDE AND LARGE ENOUGH TO ALLOW REMOVAL OF THE LARGEST APPLIANCE IN THE SPACE. PROVIDED THERE IS A LEVEL SERVICE SPACE OF NOT LESS THAN 30 INCHES (762 MM) DEEP AND THE HEIGHT OF THE APPLIANCE, BUT NOT LESS THAN 30 INCHES (762 MM), AT THE FRONT OR SERVICE SIDE OF THE APPLIANCE WITH THE DOOR OPEN. M1305.1.3 APPLIANCES IN ATTICS ATTICS CONTAINING APPLIANCES SHALL BE PROVIDED WITH AN OPENING AND A CLEAR AND UNOBSTRUCTED PASSAGEWAY LARGE ENOUGH TO ALLOW REMOVAL OF THE LARGEST APPLIANCE, BUT NOT LESS THAN 30 INCHES (762 MM) HIGH AND 22 INCHES (559 MM) WIDE AND NOT MORE THAN 20 FEET (6096 MM) LONG MEASURED ALONG THE CENTERLINE OF THE PASSAGEWAY FROM THE OPENING TO THE APPLIANCE. THE PASSAGEWAY SHALL HAVE CONTINUOUS SOLID FLOORING IN ACCORDANCE WITH CHAPTER 5 NOT LESS THAN 24 INCHES (610 MM) WIDE. A LEVEL SERVICE SPACE AT LEAST 30 INCHES (762 MM) DEEP AND 30 INCHES (762 MM) WIDE SHALL BE PRESENT ALONG ALL SIDES OF THE APPLIANCE WHERE ACCESS IS REQUIRED. THE CLEAR ACCESS OPENING DIMENSIONS SHALL BE A MINIMUM OF 20 INCHES BY 30 INCHES (508 MM BY 762 MM), AND LARGE ENOUGH TO ALLOW REMOVAL OF THE LARGEST APPLIANCE. GENERAL NOTES 1. ALL EXPOSED PLYWOOD TO BE EXTERIOR GRADE 2. VENT THE DRYER TO THE OUTSIDE WITH A MIN. 4" DIA. VENT. MAXIMUM LENGTH OF THE VENT TO BE 14' UNLESS OTHERWISE SPECIFIED BY THE MFG. SPECIFICATIONS. IF SO, THESE SPECS ARE TO BE ON THE SITE FOR THE BUILDING INSPECTION. 3. SEE THE ROOF FRAMING PLAN FOR THE HEADER AND BEAMS. 4. GENERAL CONTRACTOR TO CONFIRM THAT THE FIRE EXIT REQUIREMENTS BY THE UBC FOR BEDROOMS ARE MET BY THE PROPER INSTALLATION OF WINDOW UNITS INDICATED ON THE PLAN 5. GENERAL CONTRACTOR TO CONFIRM THAT THE FIRE EXIT REQUIREMENTS BY THE IRC FOR BEDROOMS ARE MET BY THE PROPER INSTALLATION OF WINDOW UNITS INDICATED ON THE PLAN. 6. FFHB = FROST FREE HOSE BIB. 7. PLUMB WATER TO THE REFRIGERATOR. 8. PROVIDE A MIN. 22"X30" ACCESS TO ALL ATTIC SPACES. 9. COMBUSTION AIR TO BE PROVIDED TO ALL FUEL BURNING APPLIANCES. 10. FIXTURES WITH HOSE OUTLETS SHALL BE PROTECTED BY APPROVED BACKFLOW PREVENTERS (VACUUM BREAKERS). 11. FIRE BLOCKING SHALL BE TO CODE. 12. PRESSURE & TEMP. RELIEF VALVE SHALL BE PROVIDED W/ THE WATER HEATER UNIT(S). 13. PLUMB GAS TO THE FURNACE, FIREPLACE, OVEN, COOKTOP, WATERHEATER, & AS SHOWN ON THE PLAN (CONFIRM) 14. PROVIDE GAS SHUT-OFF VALVE TO THE DOWNWARD SIDE OF THE METER AT THE HOUSE. 15. INSTALL A HOT WATER RE-CIRCULATING SYSTEM PER CODE. 16. CEMENT, FIBER-CEMENT AND GLASS MAT GYPSUM BACKERS SHALL BE USED AS BACKERS FOR WALL TILE IN TUB AND SHOWER AREAS AND WALL PANELS IN THE SHOWER AREAS. SUCH WALL SURFACES SHALL EXTEND TO A HEIGHT OF NO LESS THAN 6" ABOVE THE FLOOR. 17. INSTALL WATER HEATER RELIEF VALVE AND EXTEND OUTSIDE OF THE BUILDING WITH THE END OF PIPE NOT MORE THAN 2" OR LESS THAN 6" ABOVE THE GROUND AND POINTING DOWNWARD. 18. EXPANSION TANK IS REQUIRED ON THE COLD WATER LINE AT THE WATER HEATER LOCATION 19. SEWER PIPES TO BE OF ABS WATER PIPES TO BE COPPER GAS PIPES TO BE BLACK STEEL SCHEDULE 40 20. PROVIDE GALVANIZED STEEL PAN AT THE HOT WATER HEATER PROVIDE DRAIN TO MEET M1411.3.1 GLUE LAMINATED BEAMS (GLD) 1. GLUED- LAMINATED BEAMS SHALL BE 24 F-V4 (CANTILEVERS AND CONTINUOUS BEAMS SHALL BE 24F-V8) AND HAVE THE FOLLOWING MINIMUM PROPERTIES: FB = 2400 PSI, FV =190 PSI, FC (PERPENDICULAR) =650 PSI, E = 1,800,000 PSI. ALL BEAMS SHALL BE FABRICATED USING WATERPROOF GLUE. FABRICATION AND HANDLING PER LATEST AITC AND WCCA STANDARDS. BEAMS TO BEAR GRADE STAMP AND AITC STAMP AND CERTIFICATE. MOISTURE CONTENT SHALL BE LIMITED TO 12% OR LESS. R317.3.1 FASTENERS FOR PRESERVATIVE-TREATED WOOD. FASTENERS, INCLUDING NUTS AND WASHERS, FOR PRESERVATIVE-TREATED WOOD SHALL BE OF HOT-DIPPED, ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. STAPLES SHALL BE OF STAINLESS STEEL. COATING TYPES AND WEIGHTS FOR CONNECTORS IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE IN ACCORDANCE WITH THE CONNECTOR MANUFACTURER'S RECOMMENDATIONS. IN THE ABSENCE OF MANUFACTURER'S RECOMMENDATIONS, NOT LESS THAN ASTM A653 TYPE G185 ZINC-COATED GALVANIZED STEEL, OR EQUIVALENT, SHALL BE USED. THERMAL ENVELOPE AIR LEAKAGE 2006 IECC TO BE EFFECTIVE BUILDING THERMAL ENVELOPE SEAL MUST BE IMPERMEABLE TO AIRFLOW CONTINUOUS OVER THE ENTIRE ENVELOPE ABLE TO WITHSTAND FORCES THAT MAY ACT DURING AND AFTER CONSTRUCTION DURABLE THROUGH LIFETIME OF BUILDING (ALL SEAMS AND EDGES MUST BE SEALED/TAPED PER MANUFACTURERS SPECIFICATIONS.) SEALING METHODS BETWEEN DISSIMILAR MATERIALS SHALL ALLOW FOR DIFFERENTIAL EXPANSION AND CONTRACTION. THE FOLLOWING SHALL BE CAULKED, GASKETED, WEATHER STRIPPED OR OTHERWISE SEALED WITH AN AIR BARRIER MATERIAL. SUITABLE FILM OR SOLID MATERIAL 1) ALL JOINTS SEAMS AND PENETRATIONS 2) SITE BUILT WINDOWS, DOORS, AND SKYLIGHTS 3) OPENINGS BETWEEN WINDOW AND DOOR ASSEMBLIES AND THEIR RESPECTIVE JAMBS AND FRAMING 4) UTILITY PENETRATIONS 5) COMMON WALLS BETWEEN DWELLING UNITS 6) DROPPED CEILINGS OR CHASES 7) KNEE WALLS 8) OTHER SOURCES WRAP MUST BE BOTH MOISTURE AND AIR IMPERMEABLE. BUILDING WRAP MUST BE LABELED OR BE ACCOMPANIED BY REPORT FROM ICC., INDICATING THAT IT IS IMPERMEABLE WITH ALL VERTICAL AND HORIZONTAL JOINTS TAPED WHEN A BUILDING IS FULLY SHEATHED WITH JOINTS AND PENETRATIONS PROPERLY SEALED. THIS CONSTITUTES AND EFFECTIVE AIR BARRIER AND BUILDING WRAP CAN BE REATED AS A MOISTURE BARRIER AND MUST BE INSPECTED PRIOR TO INSTALLATION OF EXTERIOR WALL COVERINGS. PLANS MAY NOT BE ACCURATE TO SCALE BEFORE ORDERING MATERIALS OR PROCEEDING WITH WORK CONTRACTORS NEED TO VERIFY ALL MEASUREMENTS. CONTRACTORS ARE TO VERIFY ALL UTILITIES BEFORE PROJECT BEGINS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS AND NOTIFY THE DESIGNER OF ANY DISCREPINCIES. AT NO TIME SHALL THE DESIGNER BE HELD RESPONSIBLE FOR MATERIALS ORDERED OR USED ON THE JOB. EXTERIOR WALL COVERINGS AND ROOF OVERHANG SOFFITS SHALL BE SECURELY FASTENED WITH ALUMINUM, GALVANIZED

R308.4.2
PROVIDE SAFETY GLAZING FOR
WINDOWS ADJACENT TO DOORS AS
REQUIRED IN THIS SECTION

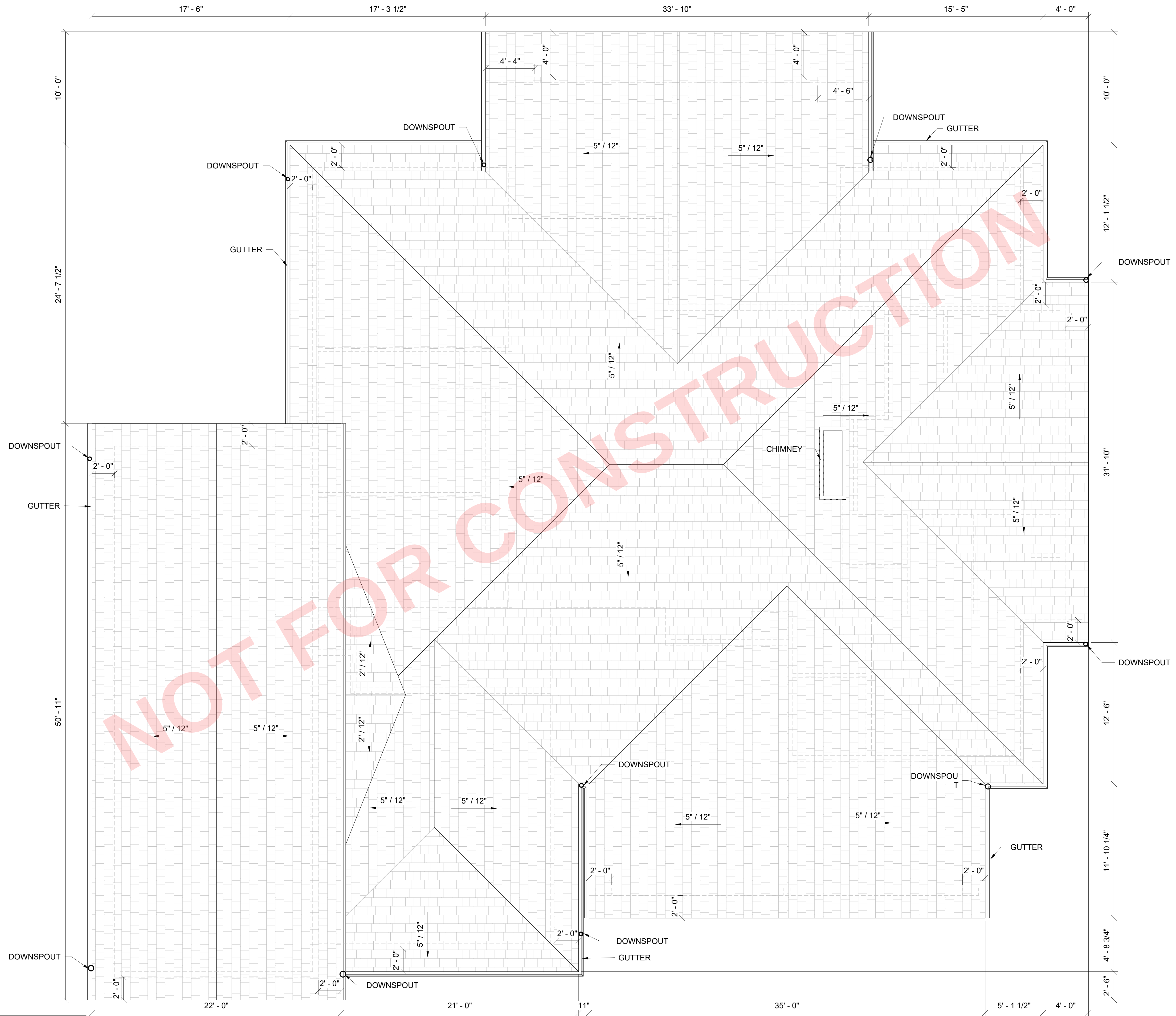
IECC BUILDING ENVELOPE REQUIREMENTS FOR ARIZONA 2006

WINDOW U-FACTOR.....	0.32
SKYLIGHT U-FACTOR.....	0.60
WINDOW AND SKYLIGHT SHGC	=NO REQUIREMENTS
CEILING R-VALUE.....	R-38
WOOD FRAMED WALLS R-VALUE.....	R-13
MASS WALL R-VALUE.....	R-5
FLOOR R-VALUE.....	R-19
BASEMENT WALL R-VALUE.....	R-10/13
SLAB R-VALUE AND DEPTH.....	R-10/ 2 FT.
CRAWL SPACE WALL R-VALUE.....	R-10/13

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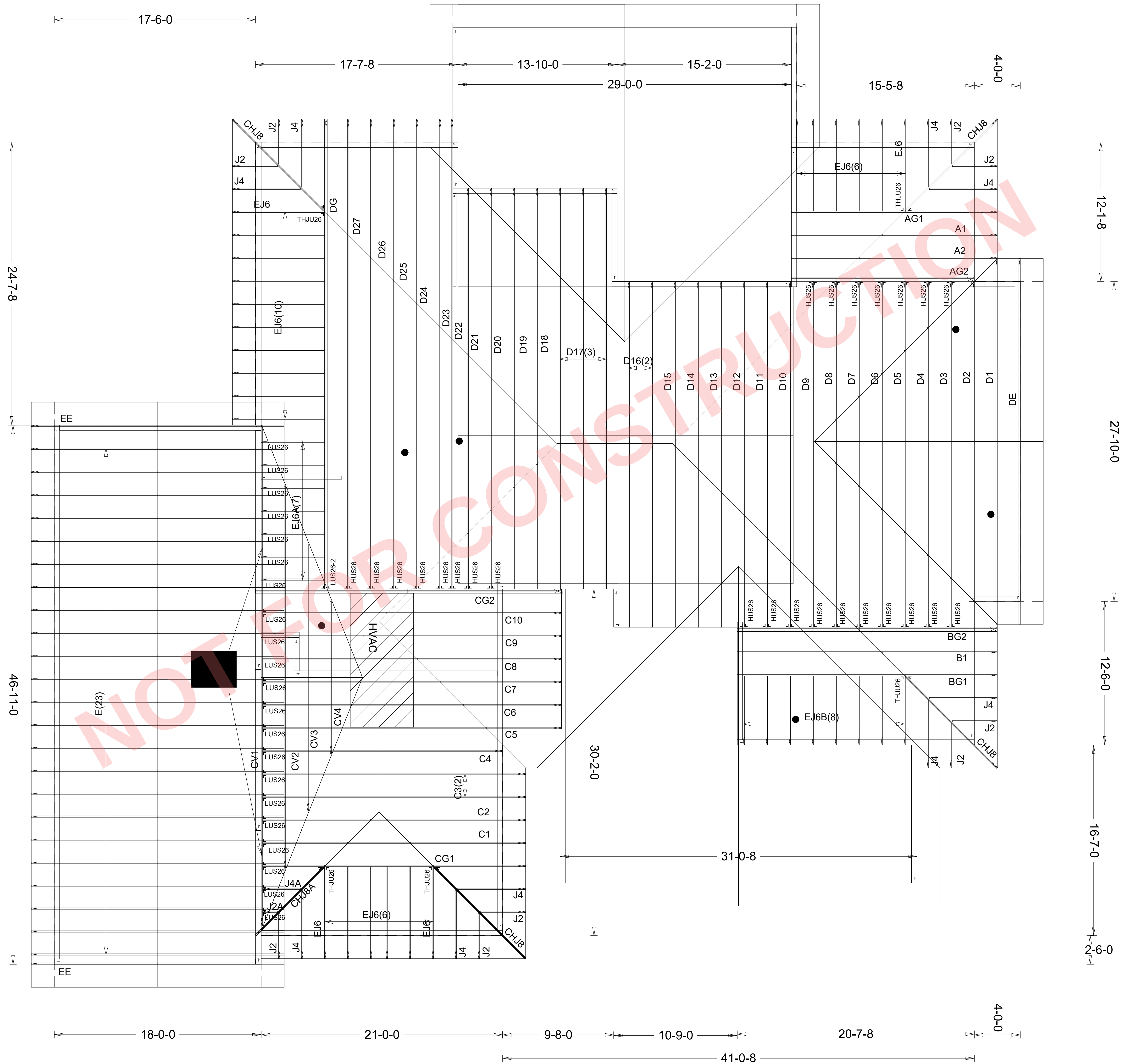


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General Notes



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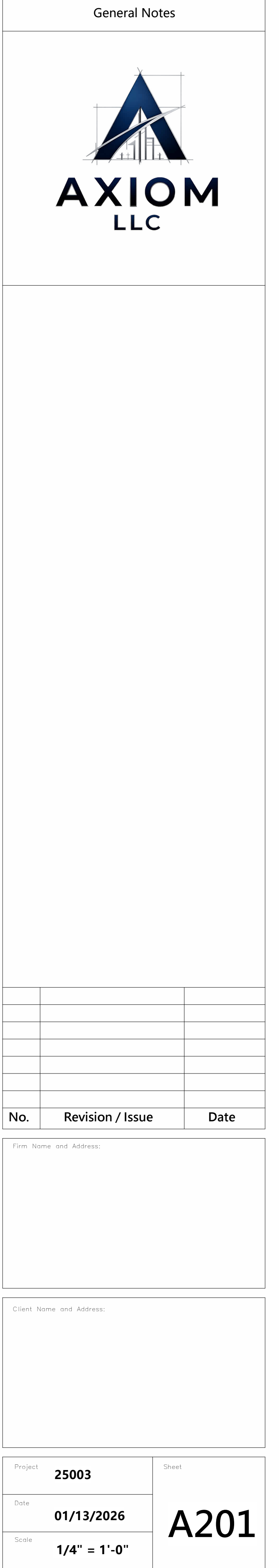
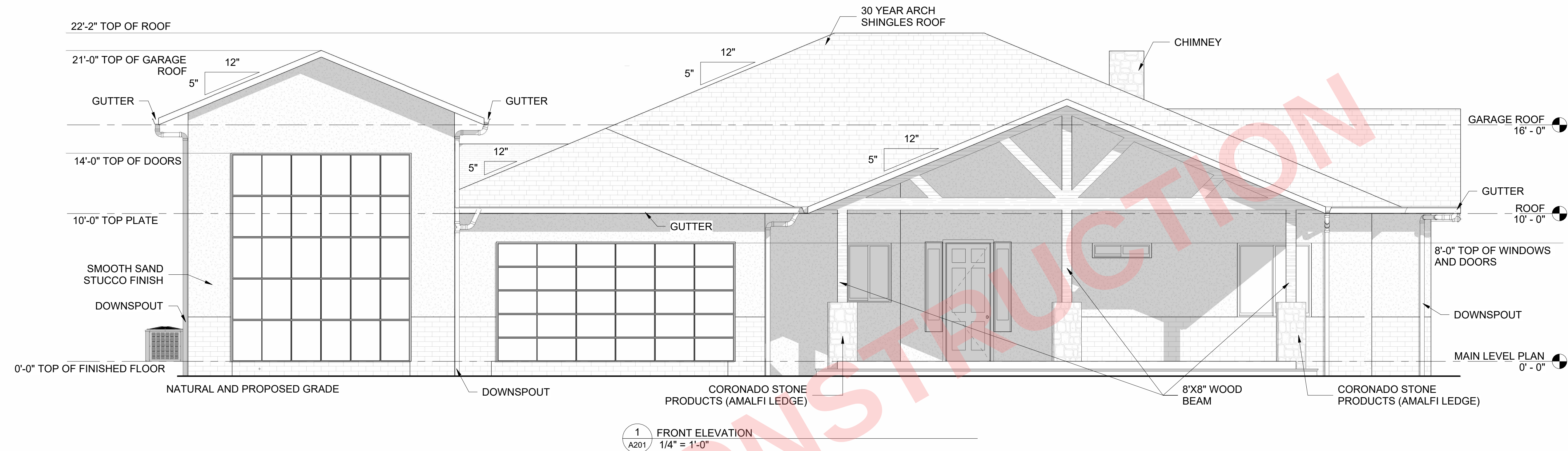
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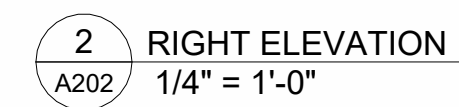
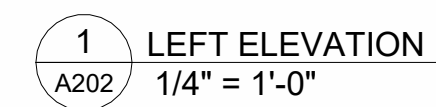
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RAIN GUTTERS AND DOWNSPOUTS ARE REQUIRED
POSITIVE DRAINAGE AWAY FROM THE STRUCTURE
IS REQUIRED. REFER TO THE GEOTECHNICAL
REPORT FOR ANY ADDITIONAL REQUIREMENTS.

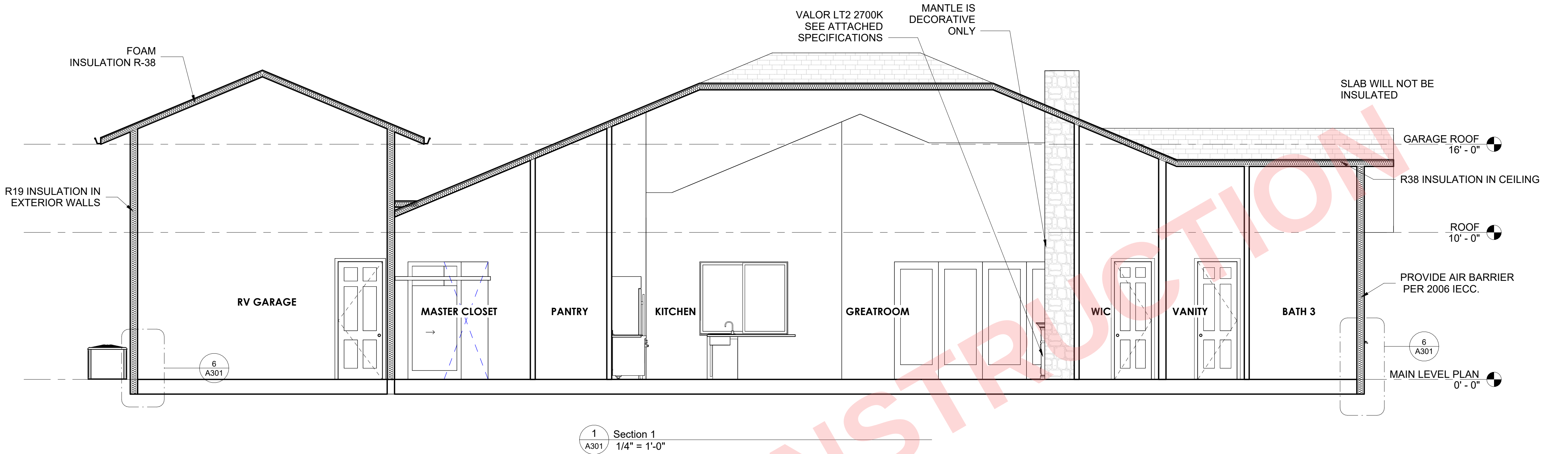




INSTALL WEEP SCREED AROUND ALL PERIMETER

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A202

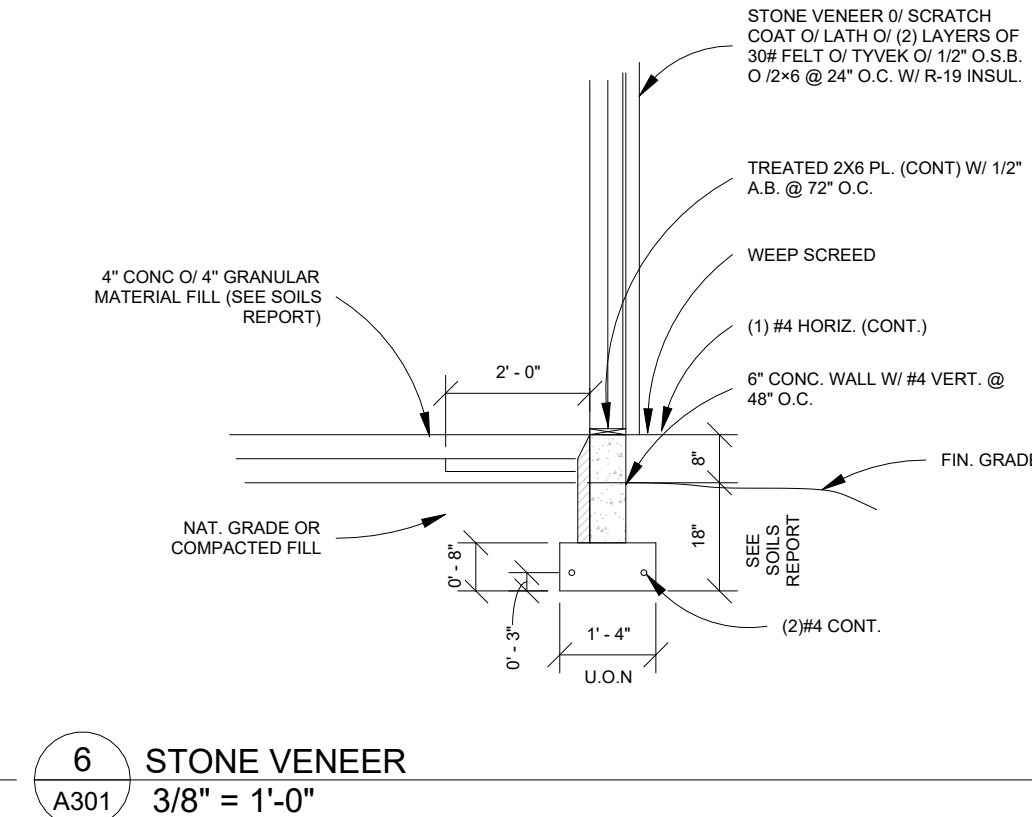
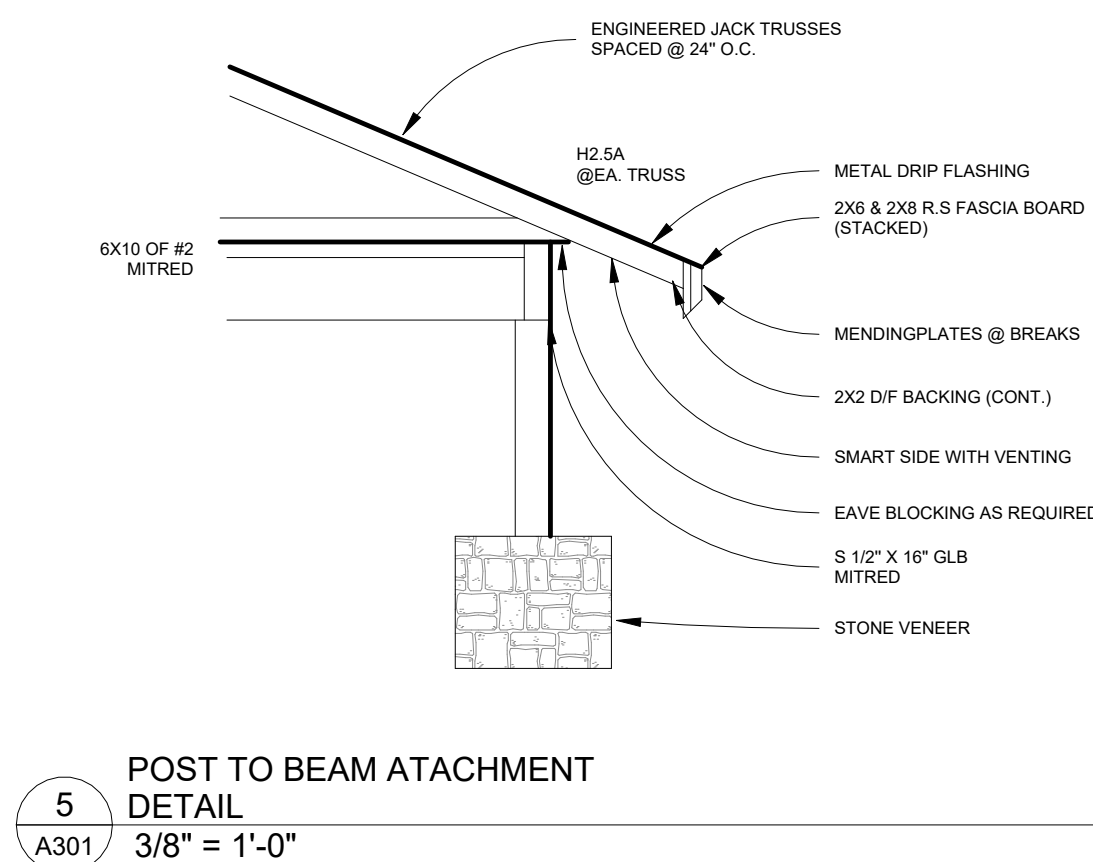
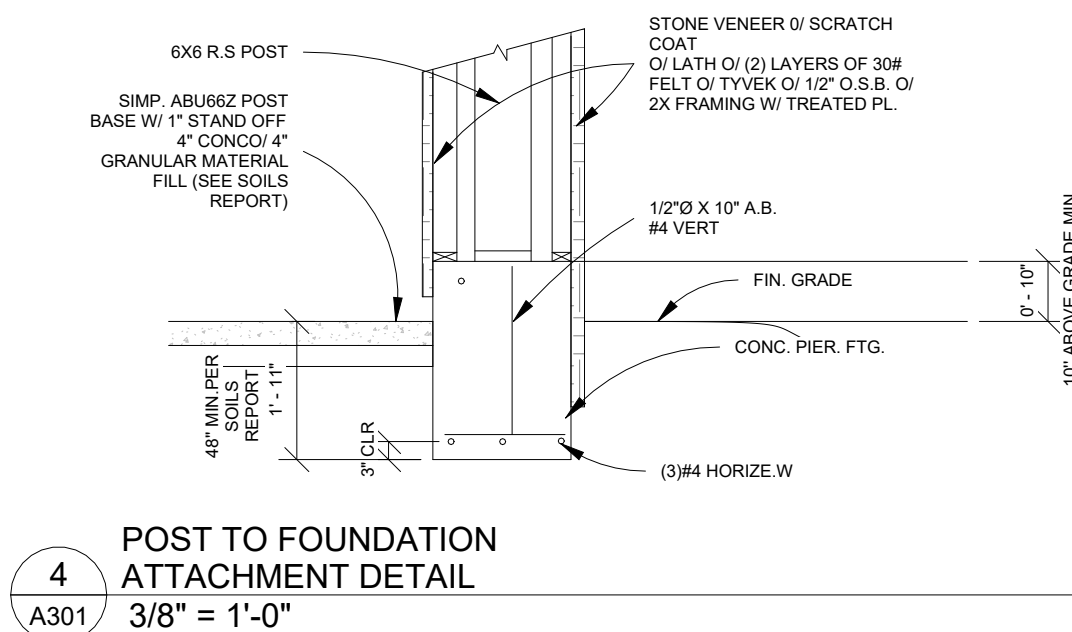
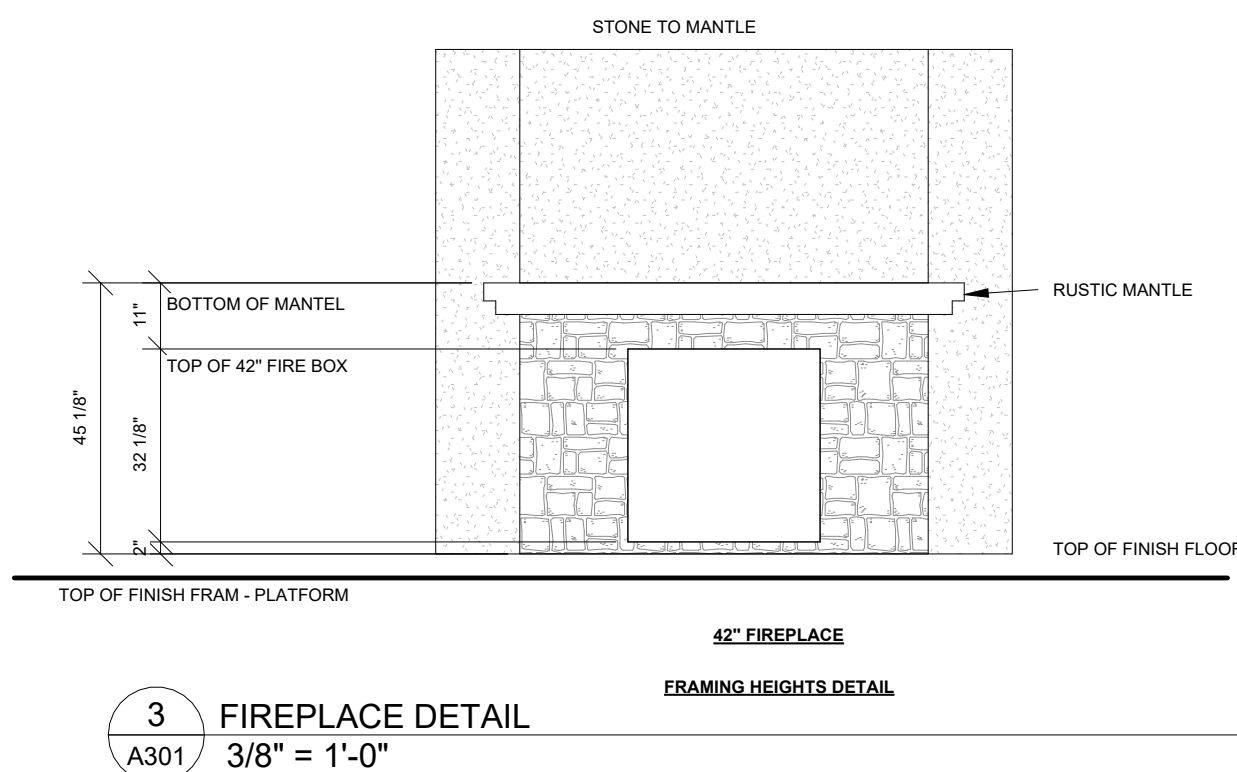
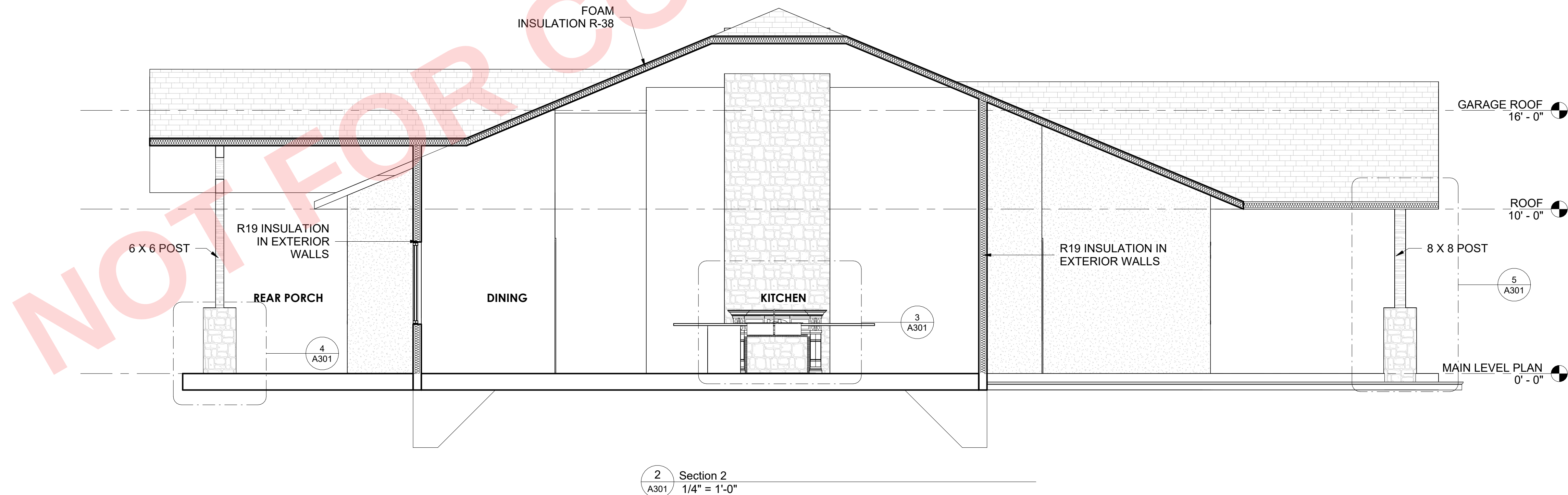


FIREPLACE MANUFACTURER SPECIFICATIONS AND INSTALLATION MANUAL TO BE ON SITE AT TIME OF INSPECTION.

VENTILATION NOTE:
R806.1 VENTILATION REQUIRED. ENCLOSED ATTICS AND ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATING OPENINGS PROTECTED AGAINST THE ENTRANCE OF RAIN OR SNOW. VENTILATION OPENINGS SHALL HAVE A LEAST DIMENSION OF 1/16 INCH (1.6 MM) MINIMUM AND 1/4 INCH (6.4 MM) MAXIMUM. VENTILATION OPENINGS HAVING A LEAST DIMENSION LARGER THAN 1/4 INCH (6.4 MM) SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, OR SIMILAR MATERIAL WITH OPENINGS HAVING A LEAST DIMENSION OF 1/16 INCH (1.6 MM) MINIMUM AND 1/4 INCH (6.4 MM) MAXIMUM. OPENINGS IN ROOF FRAMING MEMBERS SHALL CONFORM TO THE REQUIREMENTS OF SECTION R802. T. REQUIRED VENTILATION OPENINGS SHALL OPEN DIRECTLY TO THE OUTSIDE AIR.
EXCEPTION: ATTIC VENTILATION SHALL NOT BE REQUIRED WHEN DETERMINED NOT NECESSARY BY THE CODE OFFICIAL DUE TO ATMOSPHERIC OR CLIMATIC CONDITIONS.
R806.2 MINIMUM VENT AREA. THE MINIMUM NET FREE VENTILATING AREA SHALL BE 1/150 OF THE AREA OF THE VENTED SPACE.

EXCEPTION: THE MINIMUM NET FREE VENTILATION AREA SHALL BE 1/300 OF TH VENTED SPACE PROVIDED ONE OR MORE OF THE FOLLOWING CONDITIONS ARE MET

1. IN CLIMATE ZONES 6, 7 AND 8, A CLASS | OR IL VAPOR RETARDER IS INSTALLED ON THE WARM-IN-WINTER SIDE OF THE CEILING.
2. AT LEAST 40 PERCENT AND NOT MORE THAN 50 PERCENT OF THE REQUIRE VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE ATTIC OR RAFTER SPACE. UPPER VENTILATORS SHALL BE LOCATED NO MORE THAN 3 FEET (914 MM) BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE, MEASURED VERTICALLY, WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY EAVE OR CORNICE VENTS. WHERE THE LOCATION OF WALL OR ROOF FRAMING MEMBERS CONFLICTS WITH THE INSTALLATION OF UPPER VENTILATORS, INSTALLATION MORE THAN 3 FEET (914 MM) BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE SHALL BE PERMITTED.



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ELECTRICAL SYMBOLS

- (W) WEATHER PROOF AND GFI PROTECTED OUTLET
△ TELEVISION JACK
⊙ EXHAUST FAN AT THE CEILING (MUST VENT TO THE EXTERIOR OF BUILDING)
◼ RECESSED CEILING LIGHT FIXTURE
○ CEILING OR WALL MOUNTED LIGHT FIXTURE
⊙ CEILING FAN. (APPROVED OUTLETS PER IRC)
[S] SMOKE DETECTOR
[C] CARBON MONOXIDE DETECTOR
[D] DIMMER SWITCH (RHEOSTAT)
◼ RECESSED CEILING LIGHT FIXTURE SUITABLE FOR DAMP LOCATIONS
⊙ SECURITY LIGHT (DARK SKY COMPLIANT)
○ OUTLET
\$ SWITCH
LED LED STRIP LIGHT
○ FLOOR OUTLET
V ANITY LIGHT
50 50 AMP SERVICE
20 20 AMP SERVICE
8 CAT 8 ETHERNET
C COAXIAL CABLE

ELECTRICAL NOTES

1. RECESSED LIGHT FIXTURES SHALL BE KEPT 2" AWAY FROM INSULATION OR SHALL BE U.I. LABELED FOR DIRECT CONTACT.
2. CEILING J-BOXES SHALL BE ANCHORED FOR SUPPORT OF CEILING FANS AND LIGHTS.
3. SMOKE DETECTORS SHALL BE 120 VOLT WITH ARC FAULT AND BACK UP POWER SUPPLY AND BE INTERCONNECTED.
4. CARBON MONOXIDE DETECTORS SHALL BE 120 VOLT WITH ARC FAULT AND BACK UP POWER SUPPLY AND BE INTERCONNECTED.
5. LICENSED ELECTRICAL CONTRACTOR TO DESIGN ALL CIRCUITS AND INSTALL OF METER
6. ALL BRANCH CIRCUITS THAT SUPPLY 120 VOLT, SINGLE PHASE. 15 AND 20 AMP OUTLETS INSTALLED IN FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, AND SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A COMBINATION TYPED ARC-FAULT CIRCUIT INTERRUPTER INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
7. WIRE FOR 220 V WHERE NEEDED.
8. ALL BRANCH CIRCUITS THAT SUPPLY 120-V, SINGLE PHASE. 15 AND 20 AMP OUTLETS INSTALLED IN THE FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS AND SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A COMBINATION TYPED ARC-FAULT CIRCUIT INTERRUPTER INSTALLED TO PROVIDE PROTECTION OF THE BRANC CIRCUIT.
9. WIRING RAN IN UNDERGROUND CONDUIT MUST BE RATED FOR WET LOCATIONS (NO ROMEX)
10. NOTE THAT MINIMUM OF TWO KITCHEN SMALL APPLIANCE CIRCUITS REQUIRED PER E3703.2. 2ND REQUEST

E3902.12 ARC-FAULT CIRCUIT-INTERRUPTER PROTECTION. ALL BRANCH CIRCUITS THAT SUPPLY 120-VOLT, SINGLE PHASE, 15-AND 20-AMPERE OUTLETS INSTALLED IN FAMILY ROOMS, DINING ROOM, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS AND SIMILAR ROOM OR AREAS SHALL BE PROTECTED BY A COMBINATION TYPE ARC-FAULT CIRCUIT INTERRUPTER INSTALLED TO PROBIDE PROTECTION OF THE BRANCH CIRCUIT.

E3901.12 HVAC OUTLET.
A 125-VOLT, SINGLE-PHASE, 15- OR 20-AMPERE-RATED RECEPTACLE OUTLET SHALL BE INSTALLED AT AN ACCESSIBLE LOCATION FOR THE SERVICING OF HEATING, AIR-CONDITIONING AND REFRIGERATION EQUIPEMENT. THE RECEPTACLE SHALL BE LOCATED ON THE SAME LEVEL AND WITHIN 25 FEET (7620MM) OF THE HEATING, AIR CONDITIONING AND REFRIGERATION EQUIPEMENT. THE RECEPTACLE OUTLET SHALL NOT BE CONNECTED TO THE LOAD SIDE OF HVAC EQUIPMENT DISCONNECTING MEANS.

PROVIDE AT LEAST ONE RECEPTACLE AT FRONT AND REAR OF STRUCTURE PER E3901.7, SUCH SHALL BE GFCI PROTECTED PER E3902.3, AND WET LOCATION RATED PER E4002.10.

PROVIDE SMOKE ALARMS PER R314.3, CARBON MONOXIDE ALARMS PER R315.3.

PROVIDE GFCI PROTECTION AT DISHWASHER PER E3902.10.

ELECTRICAL PANEL 200AMP SERVICE LOCATED ON BACK SIDE OF GARAGE

60 AMP DISCONNECT MUST BE ACCESSIBLE (NOT BEHIND UNIT) E3305.2
PROVIDE MIN. 15" SIDE CLEARANCE AND 30" TOTAL CLEARANCE FIELD VERIFY LOCATION

SWITCH LOCATED IN ATTIC

22" x 30" ATTIC ACCESS LOCATION OF AC N UNIT

125V HVAC OUTLET LOCATED IN ATTIC NOT MORE THAN 25' FROM EQUIPEMENT (GFCI PROTECTED)

General Notes



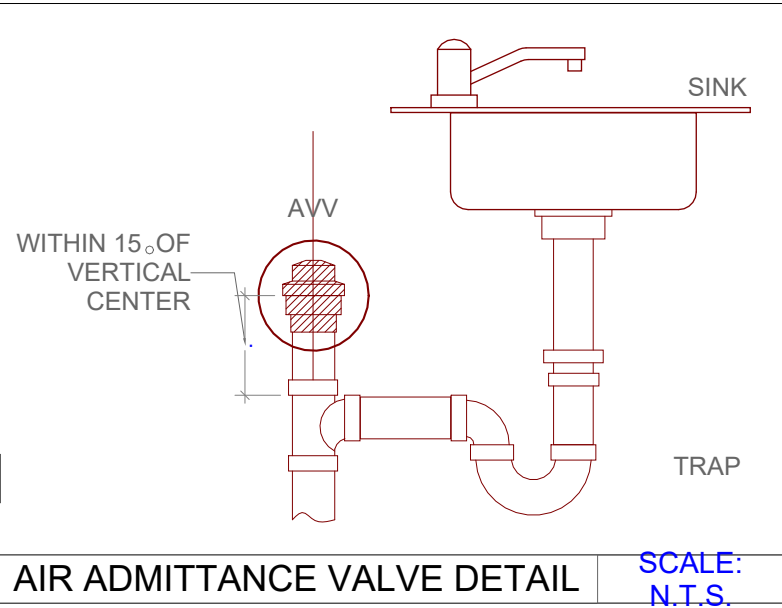
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PLUMBING LEGEND	
SYMBOL	DESCRIPTION
	COLD WATER (C.W.) LINE.
	HOT WATER (H.W.) LINE.
	SANITARY SEWER LINE.
	GATE VALVE.
	FLOOR CLEAN-OUT.
	CLEAN-OUT TO GRADE.
	COLD WATER.
	HOT WATER.
	VENT THRU ROOF.
	VENT THRU WALL.
PLUMBING NOTE	
1- ALL SANITARY LINES SHALL BE SLOPED AS FOLLOWS: 2" OR SMALLER SHALL BE SLOPED AT 1/4" PER FT. 3" OR LARGER SHALL BE SLOPED AT 1/8" PER FT.	



NOTES

- P2801.1 Required. INSIGHTS Hot water shall be supplied to plumbing fixtures and plumbing appliances intended for bathing, washing or culinary purposes.
- P2801.2 Drain valves.Drain valves for emptying shall be installed at the bottom of each tank-type water heater and hot water storage tank. The drain valve inlet shall be not less than 3/4-inch (19.1 mm) nominal pex pipe size and the outlet shall be provided with a male hose thread.
- P2801.3 Installation.Water heaters shall be installed in accordance with this chapter and Chapters 20 and 24.
- P2801.4 Location.Water heaters and storage tanks shall be installed in accordance with Section M1305 and shall be located and connected to provide access for observation, maintenance, servicing and replacement.
- P2801.5 Prohibited locations.Water heaters shall be located in accordance with Chapter 20.
- P2801.6 Required pan. INSIGHTS Where a storage tank-type water heater or a hot water storage tank is installed in a location where water leakage from the tank will cause damage, the tank shall be installed in a pan constructed of one of the following: 1.Galvanized steel or aluminum of not less than 0.0236 inch (0.6010 mm) in thickness.2.Plastic not less than 0.036 inch (0.9 mm) in thickness.3.Other approved materials. A plastic pan beneath a gas-fired water heater shall be constructed of material having a flame spread index of 25 or less and a smoke-developed index of 450 or less when tested in accordance with ASTM E84 or UL 723.
- P2801.6.1 Pan size and drain.The pan shall be not less than 11/2 inches (38 mm) deep and shall be of sufficient size and shape to receive dripping or condensate from the tank or water heater. The pan shall be drained by an indirect waste pipe of not less than 3/4 inch (19 mm) diameter. Piping for safety pan drains shall be of those materials indicated in Table P2906.5.Where a pan drain was not previously installed, a pan drain shall not be required for a replacement water heater installation.
- P2801.6.2 Pan drain termination.The pan drain shall extend full-size and terminate over a suitably located indirect waste receptor or shall extend to the exterior of the building and terminate not less than 6 inches (152 mm) and not more than 24 inches (610 mm) above the adjacent ground surface.
- P2801.7 Water heaters installed in garages.Water heaters having an ignition source shall be elevated such that the source of ignition is not less than 18 inches (457 mm) above the garage floor.Exception: Elevation of the ignition source is not required for appliances that are listed as flammable vapor ignition-resistant.
- P2801.8 Water heater seismic bracing.In Seismic Design Categories D0, D1 and D2 and townhouses in Seismic Design Category C, water heaters shall be anchored or strapped in the upper one-third and in the lower one-third of the appliance to resist a horizontal force equal to one-third of the operating weight of the water heater, acting in any horizontal direction, or in accordance with the appliance manufacturer's recommendations.

ALL PLUMBING MATERIAL SHALL COMPLY AS FOLLOWS,
WATER-PER CHAPTER 6 'WATER SUPPLY AND DISTRIBUTION' '

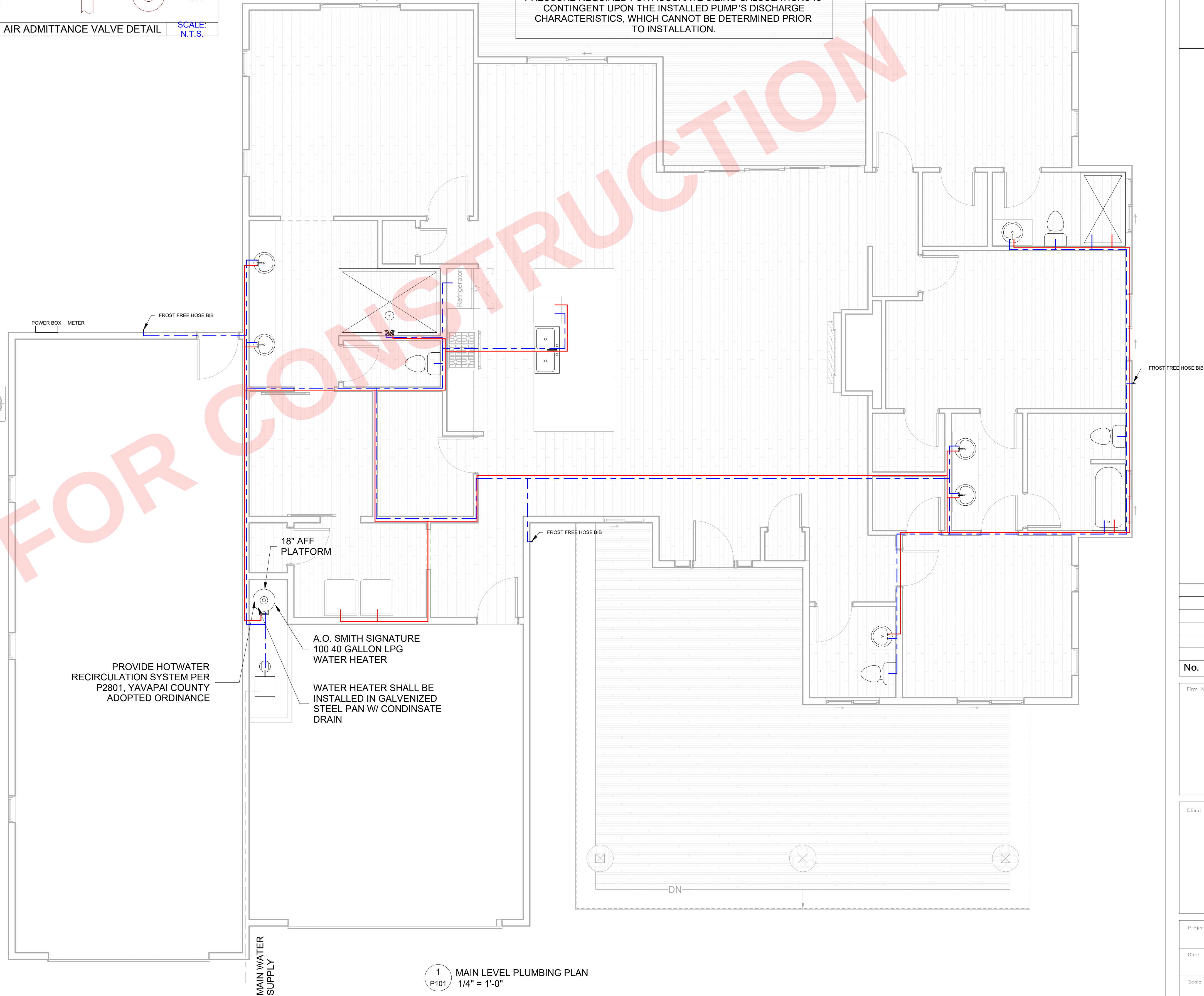
TABLE P2903.2MAXIMUM FLOW RATES AND CONSUMPTION FOR PLUMBING
FIXTURES AND FIXTURE FITTINGSb
PLUMBING FIXTURE
OR FIXTURE FITTING

MAXIMUM FLOW RATE OR QUANTITY

Lavatory faucet 2.2 gpm at 60 psi
Shower heada 2.5 gpm at 80 psi
Sink faucet 2.2 gpm at 60 psi
Water closet 1.6 gallons per flushing cycle
For SI: 1 gallon per minute = 3.785 L/m, 1 pound per square inch = 6.895 kPa.

- A handheld shower spray shall be considered to be a shower head.
- Consumption tolerances shall be determined from referenced standards.

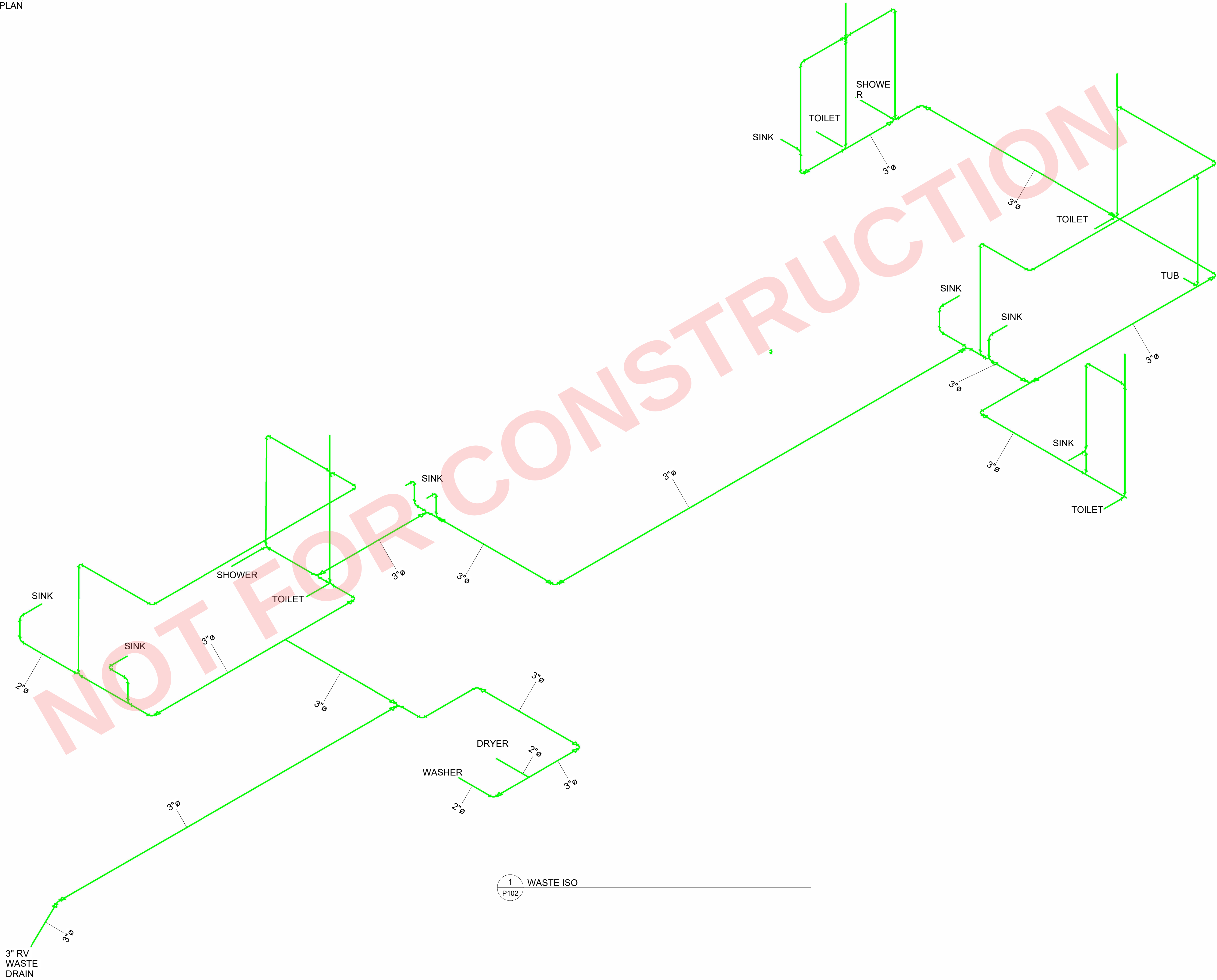
AIR ADMITTANCE VALVE DETAIL SCALE: N.T.S.



General Notes		
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G2413.4(5) CORRUGATED STAINLESS STEEL
SEWER-PER CHAPTER 30 'SANITARY DRAINAGE'
TABLE P3002.3
P2903.2
P2903.1
P2902.3.1
P2902.3

SEPTIC (SEE 2018 IPSDC)
ATTACHED SEWER PLAN



1 WASTE ISO
P102

General Notes



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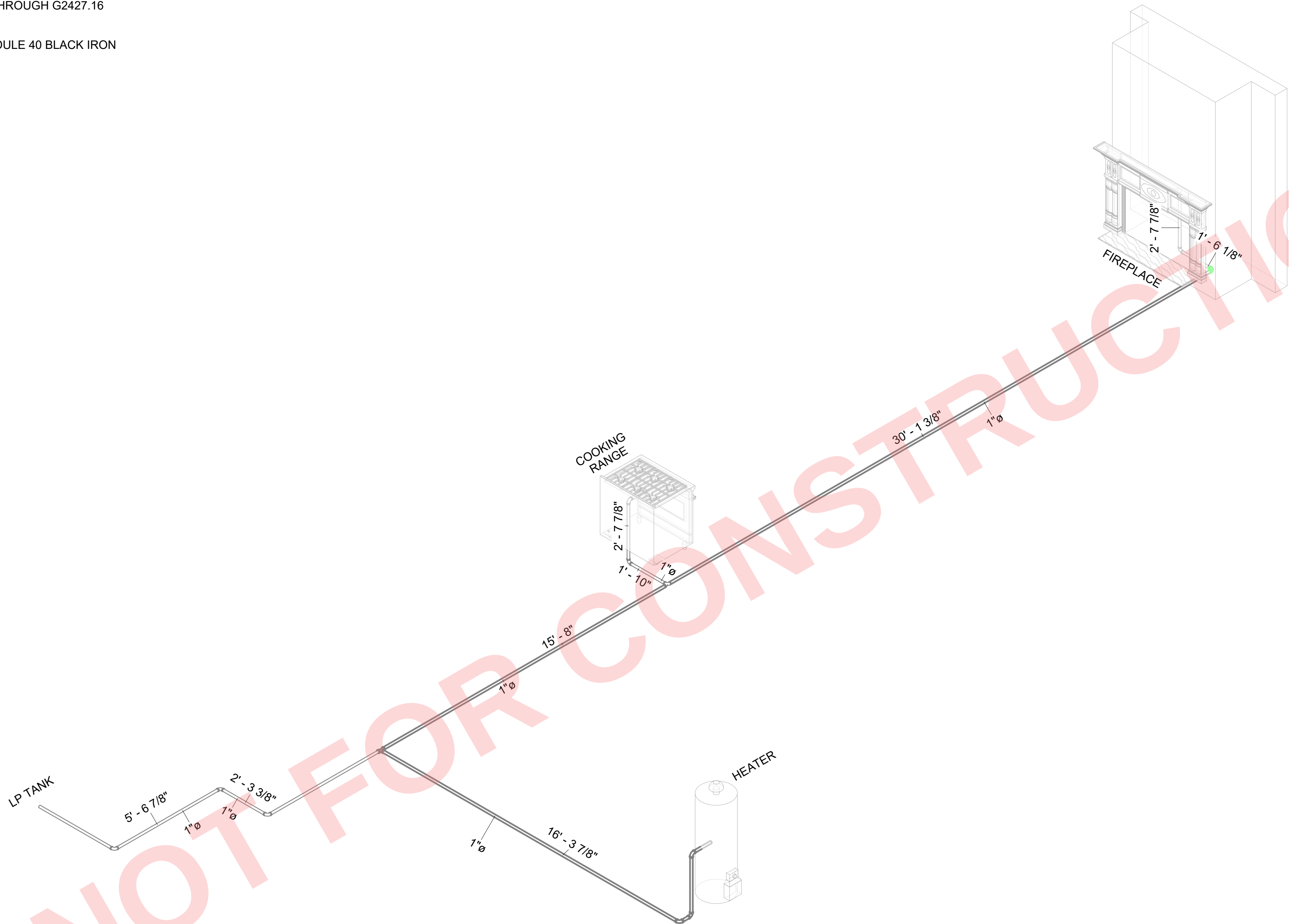
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- NOTES
- 1. USE APPROVED PIPE THREAD COMPOUND
 - 2. INSTALL ALL REQUIRED DRIP LEGS AND TERMINATION SHUT OF VALVES
 - 3. CLEAN PIPE OF ALL CUTTING OIL PRIME AND FINISH TO PREVENT RUST
 - 4. CONTRACTOR TO PROVIDE ADEQUATE VENTILATION THE VENTING OF APPLIANCES SHALL BE IN ACCORDANCE WITH SECTION G2427.2 THROUGH G2427.16

ALL PIPE SCHEDULE 40 BLACK IRON



1 MAIN LEVEL RISER DIAGRAM
P103

General Notes



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