

**PLUMBING LEGEND**

ABBREVIATION OR SYMBOL	DESCRIPTION	ABBREVIATION OR SYMBOL	DESCRIPTION	ABBREVIATION OR SYMBOL	DESCRIPTION	
	DOMESTIC COLD WATER		FLEXIBLE PIPING	AFF	ABOVE FINISH FLOOR	
	DOMESTIC HOT WATER		EXISTING PIPING TO REMAIN (refer to line designation)	AFE	ABOVE FINISH GRADE	
	DOMESTIC HOT WATER RETURN		EXISTING TO BE REMOVED (back to point indicated)	FFL	FINISH FLOOR ELEVATION	
	SANITARY SEWER		CONNECT TO EXISTING	FL	FLOW LINE	
	SANITARY - GREASE WASTE		BELOW GRADE PIPING (line dash)	PRV	PRESSURE REDUCING VALVE	
	SANITARY - ACID WASTE		PIPE ELEVATION CALLOUTS	Top	TOP OF PIPE	
	STORM DRAIN	<b>THREADED WATER &amp; GAS PIPING</b>			<b>LONG RADIUS SEWER &amp; VENT PIPING</b>	
	VENT		PIPE DOWN		PIPE PENETRATION (through floor/wall/etc)	
	NATURAL GAS		PIPE UP		DCW ROUGH-IN	
	CONDENSATE DRAIN		THREADED TEE DOWN		DHW ROUGH-IN	
<b>VALVING</b>						
	BUTTERFLY VALVE (lever operator)		BRANCH - BOTTOM OF PIPE			
	BUTTERFLY VALVE (wheel operator)		BRANCH - TOP OF PIPE			
	GATE VALVE		90 DEGREE ELBOW			
	CHECK VALVE		45 DEGREE ELBOW			
	PLUG VALVE		TEE			
	STRAINER (Y-TYPE)		UNION			
	BALL VALVE					

\* NOT ALL SYMBOLS MAY APPLY TO THIS PROJECT

**PLUMBING GENERAL NOTES:**

- ALL PLUMBING WORK SHALL COMPLY WITH ALL LOCAL CODES, AUTHORITIES HAVING JURISDICTION, DRAWINGS AND SPECIFICATIONS. IF DISCREPANCIES ARE FOUND - THE MOST STRINGENT REQUIREMENT SHALL GOVERN WORK.
- ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRIC RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, FITTING, OR COMPONENT. CONTRACTOR SHALL NOT SCALE DRAWINGS. EQUIPMENT SCHEDULES SHALL TAKE PRECEDENCE OVER CONFLICTING DRAWING INFORMATION. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY CONTRACT DOCUMENTS. REFER TO COMPLETE PROJECT DOCUMENTS FOR COORDINATION WITH OTHER DISCIPLINES.
- EXCEPT WHERE MODIFIED BY SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR DESCRIPTION OF ANY ITEM IN THE DRAWINGS OR SPECIFICATIONS CARRIES WITH IT THE INSTRUCTION TO PROVIDE THE ITEM, REGARDLESS OF WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED AS PART OF THE INDICATION OR DESCRIPTION.
- REFER TO PLUMBING SCHEDULES AND SPECIFICATIONS FOR BASIS OF DESIGN, ACCEPTABLE MANUFACTURERS, AND MODELS OF PLUMBING FIXTURES AND EQUIPMENT.
- PROVIDE CLEANOUTS IN ALL SANITARY LINES, WHETHER SHOWN OR NOT, AT INTERVALS NOT TO EXCEED 100' AND AT EACH CHANGE IN DIRECTION GREATER THAN 45 DEGREES.
- PROVIDE A TWO-WAY CLEANOUT AT THE JUNCTION OF ALL BUILDING DRAINS AND BUILDING SEWERS.
- REFER TO SPECIFICATIONS FOR INSULATION REQUIREMENTS.
- ALL SANITARY SEWER LINES 2 1/2" AND SMALLER SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT. ALL SANITARY LINES 3" AND LARGER SHALL HAVE A MINIMUM SLOPE OF 1/8" PER FOOT. VERIFY EXISTING SANITARY LINE ELEVATIONS AND COORDINATE INSTALLATION TO ASSURE PROPER FLOW. ALL GREASE WASTE LINES, REGARDLESS OF SIZE, SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT.
- SEAL ALL PIPE PENETRATIONS THROUGH WALLS, ROOF, AND FLOOR AIR AND WATER TIGHT.
- ALL FLOOR DRAINS SHALL HAVE DEEP SEAL TRAPS, 4" DEEP SEAL MINIMUM UNLESS NOTED OTHERWISE. PROVIDE A TRAP GUARD EQUAL TO PROSET OR SURE SEAL SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS FOR ALL FLOOR DRAINS.
- ALL PIPE DROPS FROM CEILING PLENUM TO BELOW FLOOR SHALL BE MADE IN FURR-OUTS AT COLUMNS, IN WEBB OF BEAMS AT COLUMNS, OR IN WALLS UNLESS SHOWN OTHERWISE.
- ALL EXPOSED OR ACCESSIBLE P-TRAPS SHALL BE CHROME PLATED AND PROVIDED WITH BOTTOM CLEANOUT PLUGS. ALL EXPOSED PLUMBING TRIM SHALL BE CHROME PLATED.
- PROVIDE TIGHT-FITTED MOLDED PLASTIC INSULATION AT ALL EXPOSED WATER AND DRAIN PIPING FOR ADA FIXTURES PER ANSI A117.1 AND ADA REQUIREMENTS. FINISH SHALL BE WHITE.
- ALL DOMESTIC WATER SHALL BE ROUTED ABOVE CEILING. ALL DOMESTIC WATER ROUTED IN EXTERIOR WALLS SHALL BE INSTALLED ON CONDITIONED SIDE OF ROOM INSULATION.
- MAINTAIN A MINIMUM OF 10'-0" BETWEEN ALL HVAC FRESH AIR INTAKES AND PLUMBING VENTS. COORDINATE WITH MECHANICAL BEFORE INSTALLATION OF VTRs.
- CONTRACTOR SHALL VISIT SITE AND VERIFY CONDITIONS PRIOR TO BIDDING.
- CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF UTILITIES AND INVERTS PRIOR TO ROUTING SERVICES. CONTRACTOR SHALL COORDINATE ALL SANITARY SEWER, FIRE, GAS AND DOMESTIC WATER LINES WITH EXISTING UTILITIES AND WITH CIVIL DRAWINGS. SEE CIVIL DRAWINGS FOR CONTINUATION OF ALL UTILITY LINES.
- CONTRACTOR SHALL PAY ALL UTILITY FEES AND CHARGES IN THE CONTRACT.
- PROVIDE ALL FITTINGS, TRANSITIONS, COUPLINGS, ADAPTORS, UNIONS, AND OTHER ACCESSORIES NEEDED TO COMPLETE CONNECTIONS AND PROVIDE FOR PROPER OPERATION OF PLUMBING FIXTURES AND PLUMBING EQUIPMENT.
- FIRE STOP ALL PIPE PENETRATIONS THROUGH RATED WALLS. REFER TO SPECIFICATIONS.
- PIPING SHALL NOT BE ROUTED OVER ELECTRICAL ROOMS, COMPUTER ROOMS, ELECTRICAL PANELS, OR ELECTRICAL EQUIPMENT UNLESS OTHERWISE NOTED.
- PROVIDE LEAD-FREE PRESSURE REDUCING VALVE AT DOMESTIC ENTRANCE TO PROVIDE ADEQUATE PRESSURE AT ALL OUTLETS IN ACCORDANCE WITH THE SYSTEM REQUIREMENTS.
- EACH FIXTURE GROUP OR BATTERY OF FIXTURES SHALL BE PROVIDED WITH A SHUTOFF VALVE IN THE DOMESTIC HOT AND COLD WATER SUPPLY LINES ABOVE CEILING. VALVES SHALL BE ACCESSIBLE FROM ROOM BELOW.
- PAINT EXPOSED PIPING AND PIPE INSULATION. COORDINATE WITH OWNER FOR FINAL COLOR.
- ALL UNDER FLOOR WATER PIPING SHALL BE PROVIDED WITH A POLYETHYLENE SLEEVE. EXTEND SLEEVE UP THROUGH FLOOR SLAB AND SEAL AIR AND WATER TIGHT.
- PLASTIC PIPE IS PROHIBITED IN RETURN AIR PLENUMS. ALL PIPING AND PIPE CONNECTIONS IN RETURN AIR PLENUMS SHALL BE PLENUM RATED.
- PIPING THROUGH FOUNDATION WALLS AND FOOTINGS SHALL BE SLEEVED AS PER STRUCTURAL DETAILS.
- ALL PIPE CONNECTIONS BETWEEN DISSIMILAR METALS SHALL BE MADE THROUGH DIELECTRIC UNIONS.
- ALL PLUMBING COMPONENTS WITH ELECTRICAL REQUIREMENTS SHALL BE INSTALLED WITH THE ELECTRICAL INFRASTRUCTURE NECESSARY TO PROVIDE A FULLY FUNCTIONING SYSTEM. IF NOT SPECIFICALLY SHOWN ON ELECTRICAL SCHEDULE, PLUMBING FIXTURES REQUIRING ELECTRICAL SERVICE SHALL BE FED FROM BREAKER OF ADEQUATE CAPACITY.
- REFER TO PLUMBING SPECIFICATIONS FOR PIPE MATERIAL AND INSULATION REQUIREMENTS.
- EXACT LOCATION OF ALL EQUIPMENT AND PIPING SHALL BE COORDINATED WITH OTHER TRADES. CEILING MOUNTED SPRINKLER AND LIGHTING SHALL TAKE PRECEDENCE OVER CEILING MOUNTED MECHANICAL REQUIREMENTS.
- PROVIDE FABRICATED EXPANSION LOOP OR MANUFACTURED EXPANSION DEVICE ON ALL PIPING SYSTEMS CROSSING BUILDING EXPANSION JOINTS.
- WATER SUPPLY CONNECTIONS TO COFFEE MACHINES AND NONCARBONATED BEVERAGE DISPENSERS SHALL BE PROVIDED WITH A BACKFLOW PREVENTER OR AN AIR GAP.

**PLUMBING -- PUMP SCHEDULE**

DESIGNATION	MANUFACTURER	MODEL	FLOW	TOTAL HEAD	MOTOR RPM	VOLTAGE	PHASE	POWER	REMARKS
RP 1	BELL AND GOSSETT	NBF-12U	2 GPM	12.0 ftH2O	2800	115 V	1	55 W	PROVIDE WITH MANUFACTURER'S AQUASTAT AND TIMER KIT. PUMP SHALL HAVE 3' POWER CORD.

**PLUMBING -- FIXTURE SCHEDULE**

TAG	DESCRIPTION	MANUFACTURER	MODEL	ACCESSORIES	FAUCETS & FITTINGS	STOPS	TRAPS	MOUNTING	BRANCH CONNECTIONS			REMARKS
									DCW	DHW	SS	
D/COTG	CLEAN OUT TO GRADE	JR SMITH	4220-M	-	-	-	-	AT GRADE	-	-	4"	SHALL BE PROVIDED WITH HEAVY DUTY TOP AND DUCTILE IRON COVER.
FD1	FLOOR DRAIN - SQUARE	JR SMITH	2005-6B-NB	TRAP GUARD	6" SQUARE STRAINER, NICKEL BRONZE	-	CAST IRON	FLOOR	-	-	2"	STRAINER SHALL BE HEEL-PROOF
FD2	FLOOR DRAIN - SQUARE	JR SMITH	2005-6B-CP	TRAP GUARD	6" SQUARE STRAINER, POLISHED CHROME	-	CAST IRON	FLOOR	-	-	2"	STRAINER SHALL BE HEEL-PROOF
HB	EXPOSED WALL HYDRANT - EXTERIOR	WOODFORD	MODEL 65	-	-	BALL VALVE	-	WALL	3/4"	-	-	SHALL BE FREEZE-PROOF, SELF-DRAINING, KEY OPERATED, AND ANTI-SIPHON.
LAV	SQUARE UNDERMOUNT LAVATORY	KOHLER	K-2214-0	POP UP DRAIN	MOEN 6900	MCGUIRE COMMERCIAL	MCGUIRE COMMERCIAL	UNDERMOUNT	1/2"	1/2"	1 1/2"	-
RD	PRIMARY ROOF DRAIN	JR SMITH	1015-R-C-AD	DRAIN RECEIVER; UNDERDECK CLAMP	ALUMINUM STRAINER	-	-	ROOF	-	-	3"	FOR PRIMARY ROOF DRAINS. SEE ARCHITECTURAL PLANS FOR EMERGENCY SCUPPER LOCATIONS.
RH	ROOF HYDRANT	WOODFORD	SRH-MS	VACUUM BREAKER	-	-	-	ROOF	3/4"	-	1/2"	ROOF HYDRANT SHALL BE FREEZE-PROOF AND DRAIN-FREE DESIGN.
S	ADA SINK - UNDERMOUNT	JUST MFG.	USADA1824A65-J	OFFSET DRAIN (BACK RIGHT); MOEN GXPS9C COMPACT GARBAGE DISPOSAL	MOEN 7664 (FAUCET W/SPRAYER)	MCGUIRE COMMERCIAL	MCGUIRE COMMERCIAL	UNDERMOUNT	1/2"	1/2"	2"	INSTALLATION SHALL BE ADA COMPLIANT FOR ROLL-UNDER ACCESS.
SH	SHOWER - BUILT UP	SYMMONS	C-96-500-B30-V-X	-	-	INTEGRAL	-	WALL	1/2"	1/2"	2"	SHALL BE ADA COMPLIANT. PROVIDE WITH THERMOSTATIC MIXING VALVE.
WB1	WASHER WALL BOX	GUY GRAY	NWBED2004GF	DRYER RECEPTACLE; GFI OUTLET	-	-	P-TRAP	WALL	1/2"	1/2"	2"	SHALL HAVE INTEGRAL 4-WIRE 220V DRYER RECEPTACLE AND INTEGRAL 20A, 120V GFCI. COORDINATE POWER FOR RECEPTACLES WITH ELECTRICAL.
WB2	ICE MAKER WALL BOX	GUY GRAY	MIB1AB	-	1/4 TURN VALVE	-	-	WALL	1/2"	-	-	WALL BOX SHALL BE POWDER COATED WHITE.
WC	WATER CLOSET - FLUSH TANK	SLOAN	WETS-4029.4013	-	-	MCGUIRE COMMERCIAL	INTEGRAL	FLOOR	1/2"	-	4"	TOILET INSTALLATION SHALL BE ADA COMPLIANT.

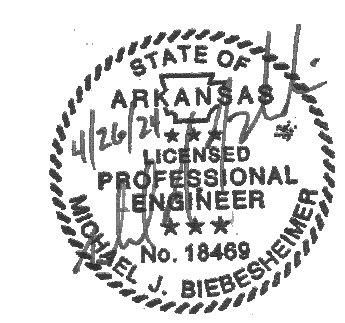
- ALL FIXTURES SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING FAUCET SPACING AND STYLE WITH MOUNTING HOLES IN FIXTURE.
- ALL FIXTURES WITH HOT WATER FEEDS SHALL BE PROVIDED WITH THERMOSTATIC MIXING VALVE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION. HANDWASH FIXTURES SHALL HAVE TMVs SET TO 105°F.
- CONTRACTOR SHALL INSTALL ALL PLUMBING FIXTURES IN COMPLIANCE WITH ALL APPLICABLE CODES AND ALL AUTHORITIES HAVING JURISDICTION.

**PLUMBING -- WATER HEATER SCHEDULE**

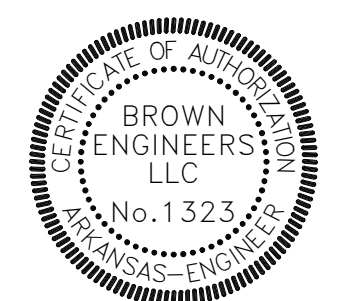
TAG	MARK	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING	TANK VOLUME	BRANCH CONNECTIONS		SYSTEM TEMPERATURES		ELECTRICAL DATA			REMARKS	
							DCW	DHW	DESIGN EWT	TANK STORAGE SETPOINT	DESIGN LWT	VOLTAGE (V)	PHASE		WATTAGE
WH	1	LIGHT COMMERCIAL TANK ELECTRIC WATER HEATER	A.O. SMITH	PNL-36	SUSPENDED	30 gal	3/4"	3/4"	55 °F	120 °F	120 °F	208 V	3	6.0 kW	REFER TO WATER HEATER DETAIL FOR PIPING.

- INSTALL WATER HEATER ON WALL-MOUNTED PLATFORM EQUAL TO HOLD-RITE, WITH SEISMIC STRAP.
- PROVIDE WATER HEATER WITH EXPANSION TANK EQUAL TO WATTS PLT-5. SYSTEM PRESSURE: 60psi. APPROXIMATE TOTAL SYSTEM VOLUME (WATER HEATER + RECIRC LOOP): 38.8gal.
- WATER HEATER SHALL HAVE MANUFACTURER'S 10-YEAR WARRANTY OPTION.
- CONTRACTOR SHALL INSTALL ALL PLUMBING FIXTURES IN COMPLIANCE WITH ALL APPLICABLE CODES AND ALL AUTHORITIES HAVING JURISDICTION.

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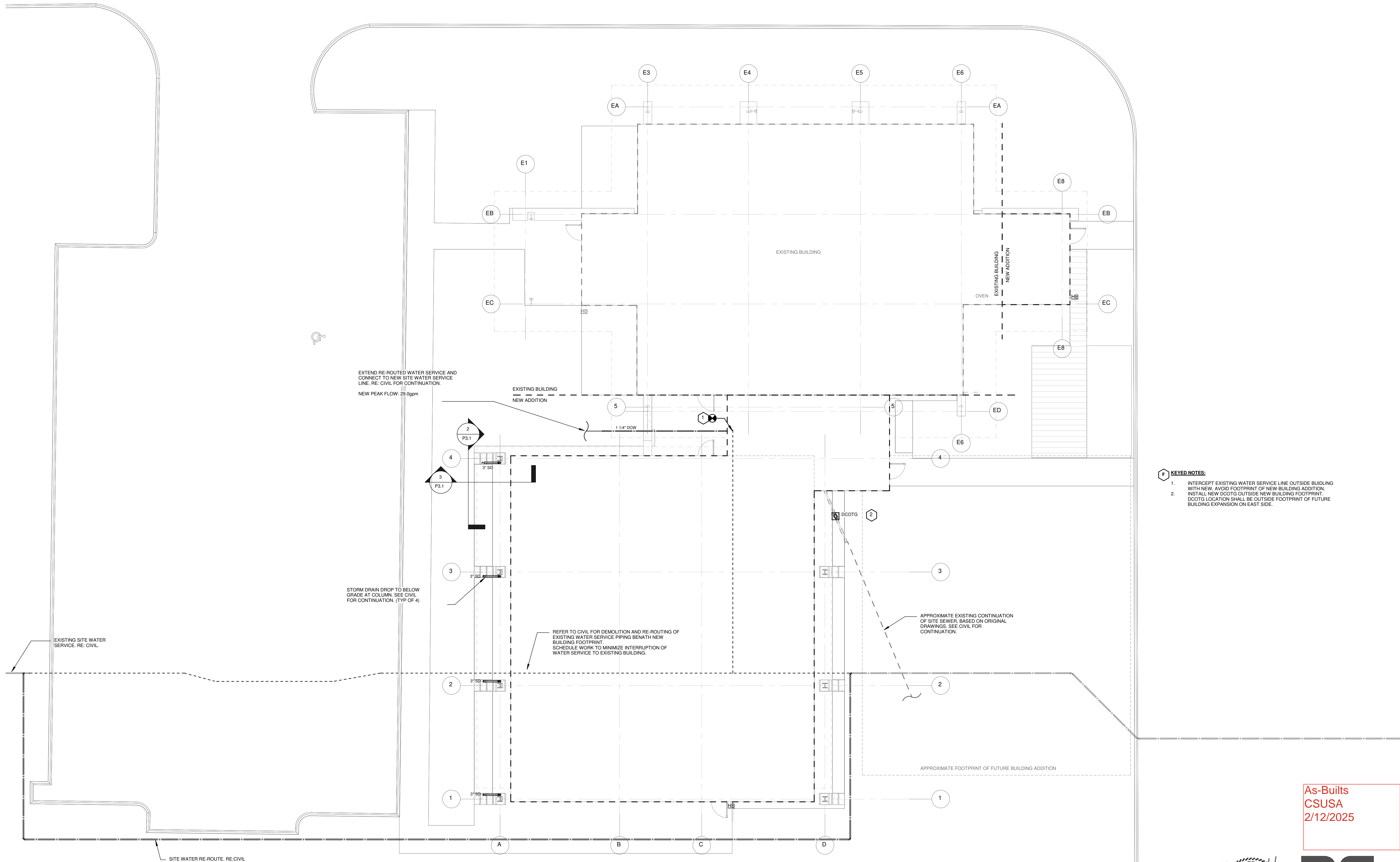
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HUGG AND HALL MOBILE STORAGE: CARTHOM PROPERTIES  
6601 Scott Hamilton Dr, Little Rock, AR 72209

REVISIONS:  
CONSTRUCTION DOCUMENTS  
04/26/2024

PLUMBING NOTES, SCHEDULES, LEGENDS  
P1.0



EXTEND RE-ROUTED WATER SERVICE AND CONNECT TO NEW SITE WATER SERVICE LINE. RE: CIVIL FOR CONTINUATION.  
NEW PEAK FLOW: 29.0gpm

STORM DRAIN DROP TO BELOW GRADE AT COLUMN. SEE CIVIL FOR CONTINUATION. (TYP OF 4)

EXISTING SITE WATER SERVICE. RE: CIVIL.

SITE WATER RE-ROUTE. RE: CIVIL

EXISTING BUILDING  
NEW ADDITION

REFER TO CIVIL FOR DEMOLITION AND RE-ROUTING OF EXISTING WATER SERVICE PIPING BENEATH NEW BUILDING FOOTPRINT. SCHEDULE WORK TO MINIMIZE INTERRUPTION OF WATER SERVICE TO EXISTING BUILDING.

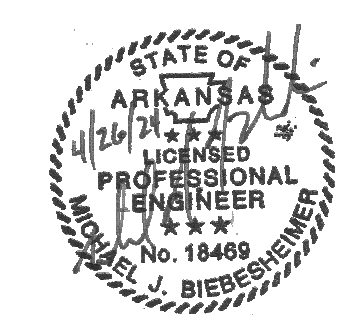
APPROXIMATE EXISTING CONTINUATION OF SITE SEWER, BASED ON ORIGINAL DRAWINGS. SEE CIVIL FOR CONTINUATION.

APPROXIMATE FOOTPRINT OF FUTURE BUILDING ADDITION

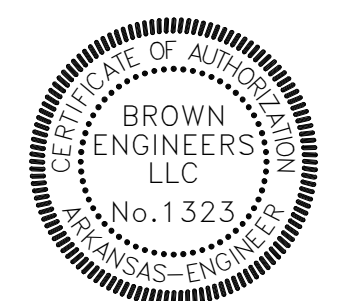
**1** PLUMBING SITE PLAN  
1/8" = 1'-0"  
NORTH

- KEYED NOTES:**
- INTERCEPT EXISTING WATER SERVICE LINE OUTSIDE BUILDING WITH NEW. AVOID FOOTPRINT OF NEW BUILDING ADDITION.
  - INSTALL NEW DCOITG OUTSIDE NEW BUILDING FOOTPRINT. DCOITG LOCATION SHALL BE OUTSIDE FOOTPRINT OF FUTURE BUILDING EXPANSION ON EAST SIDE.

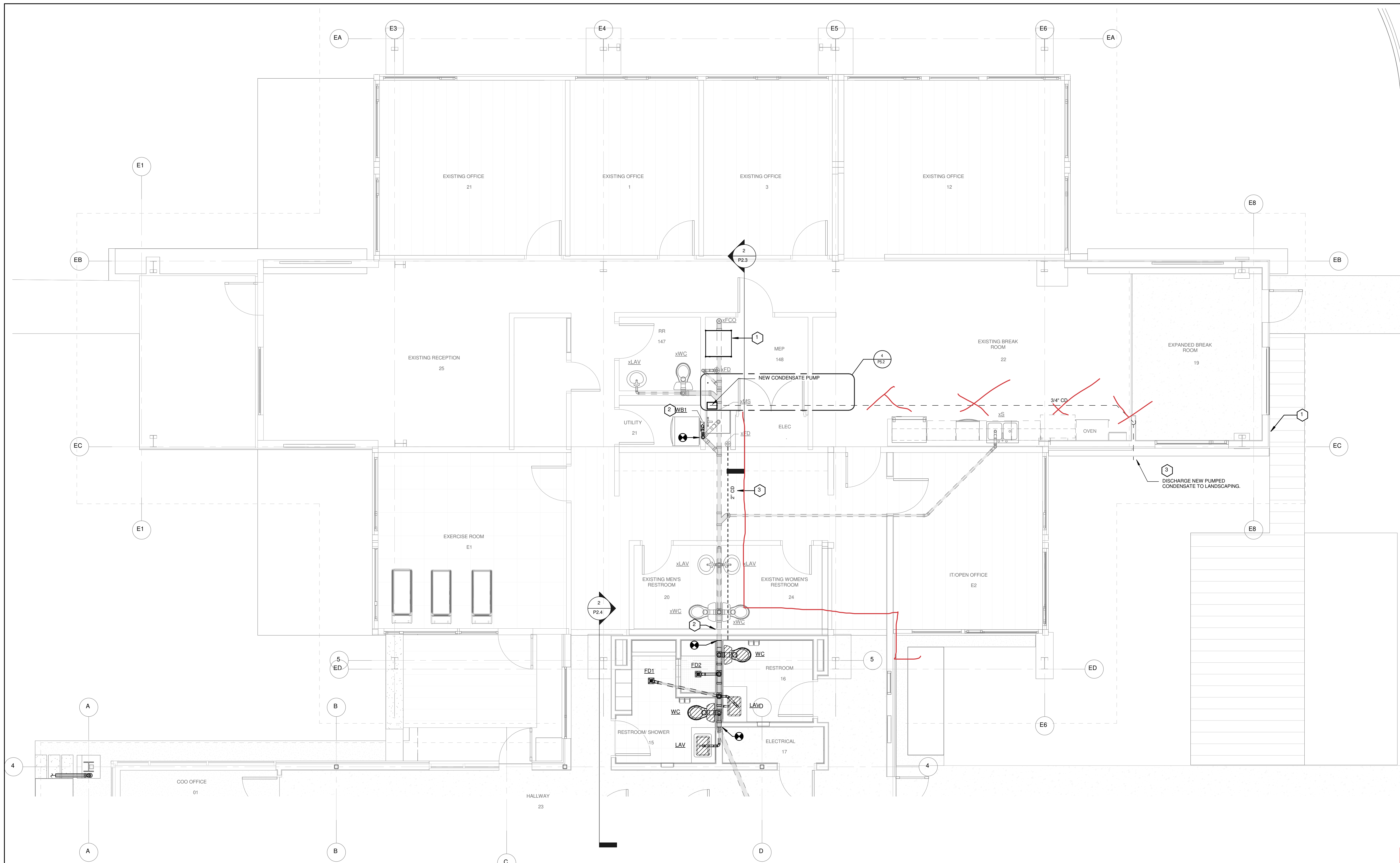
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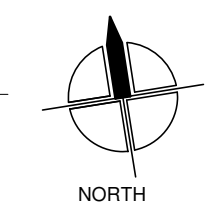
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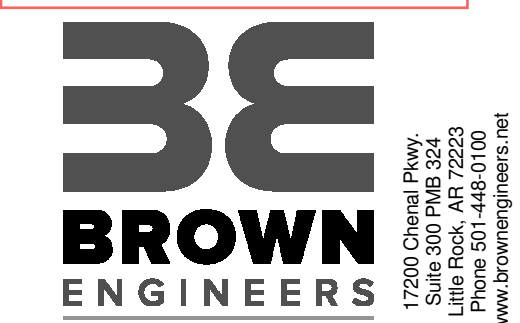
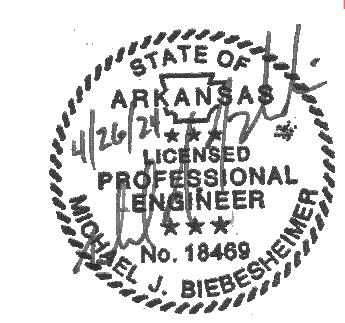


1 SANITARY WASTE PLAN - EXISTING BUILDING  
1/4" = 1'-0"

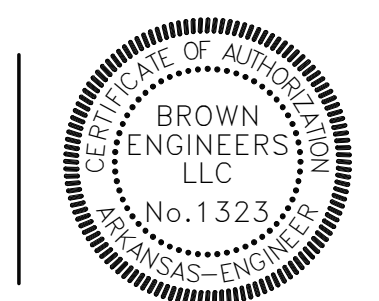


- KEYED NOTES:**
1. NEW WATER HEATER ON WALL PLATFORM ABOVE EXISTING RP2A. ROUTE WATER HEATER T&P AND PAN DRAIN DISCHARGE TO EXISTING MOP SINK.
  2. NEW WASHING MACHINE WALL BOX IN EXISTING CLOSET. CONNECT 2" DRAIN DISCHARGE TO EXISTING MOP SINK DRAIN IN WALL. PIPE SHALL BE SIZED FOR VERTICAL WET VENTING.
  3. DEMOLISH EXISTING BELOW-GRADE CONDENSATE PIPING DISCHARGING BELOW NEW BUILDING. ADDITION REMOVE EXISTING FLOOR DRAIN IN MEP ROOM AND PERMANENTLY CAP PIPING. PROVIDE NEW CONDENSATE PUMP PER DETAILS AND ROUTE EXISTING HVAC CONDENSATE DRAINS TO PUMP. PROVIDE NEW DISCHARGE PIPING FROM CONDENSATE PUMP TO EXTERIOR LANDSCAPING. INSULATE ALL NEW CONDENSATE PIPING ABOVE CEILING.

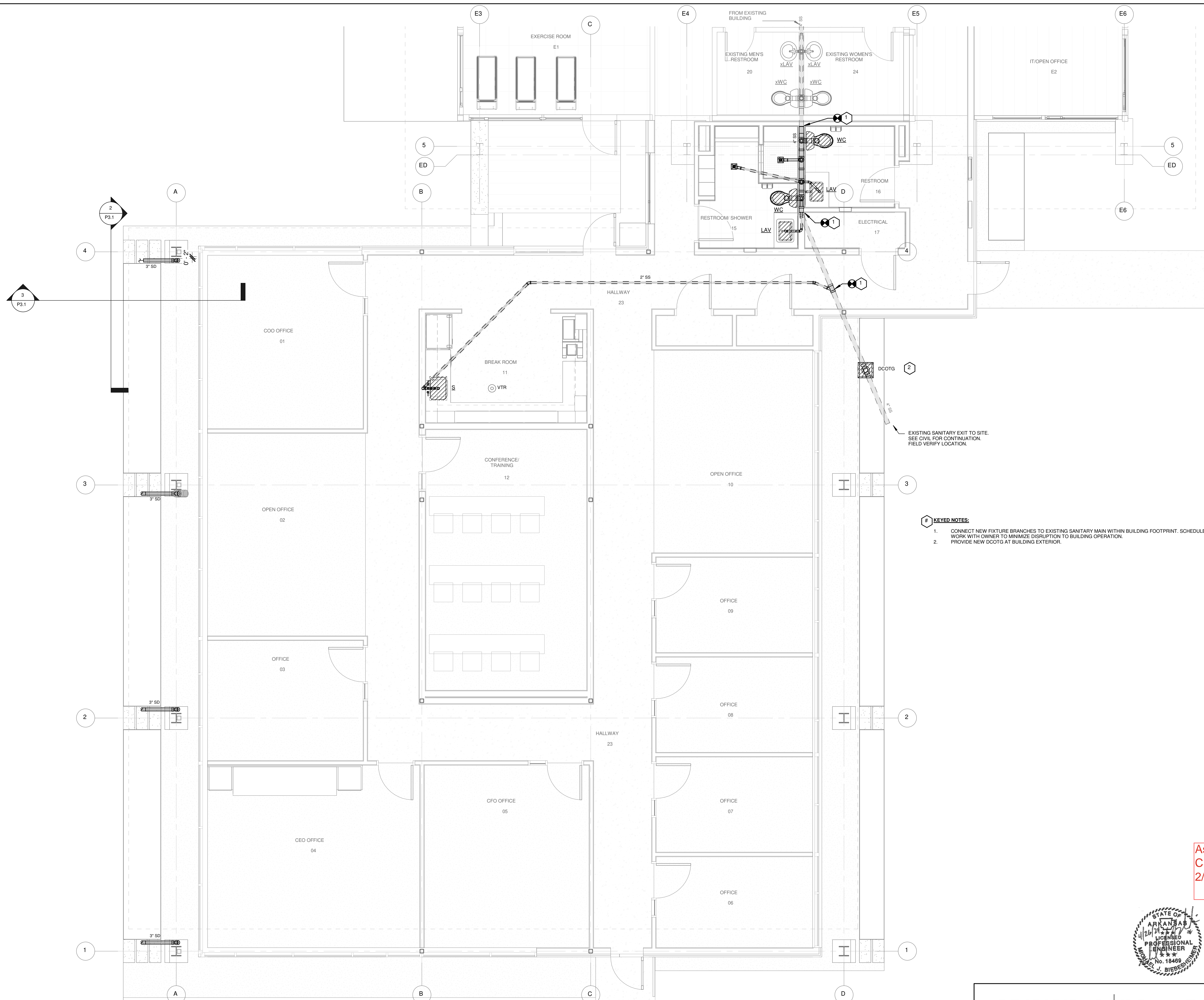
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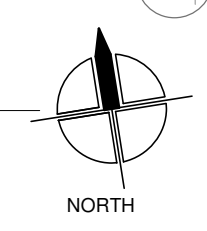
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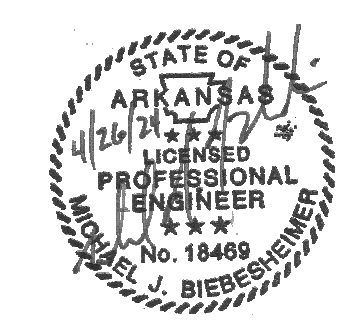




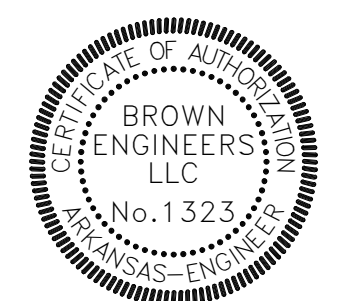
1 SANITARY WASTE PLAN - BUILDING ADDITION  
1/4" = 1'-0"



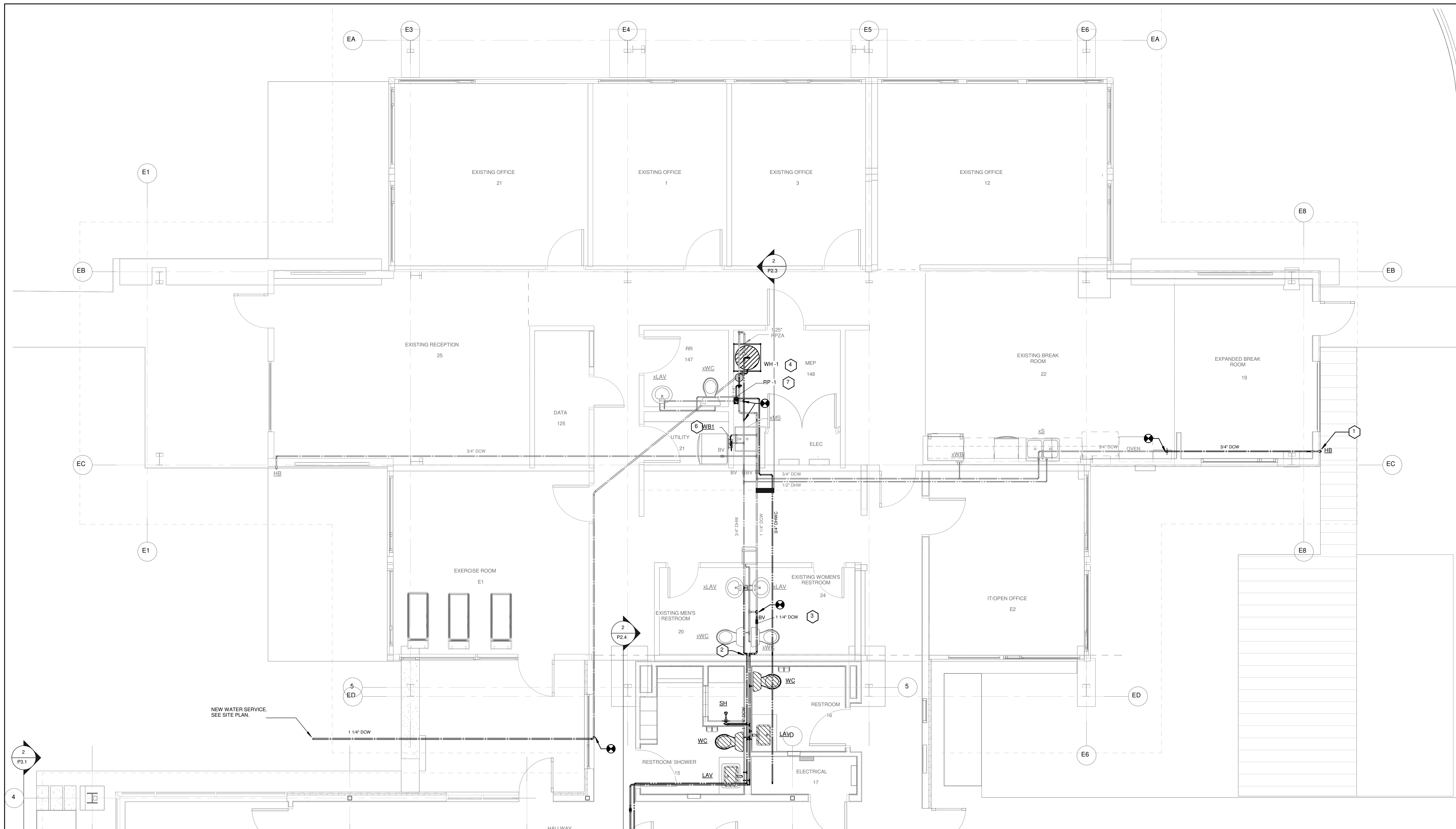
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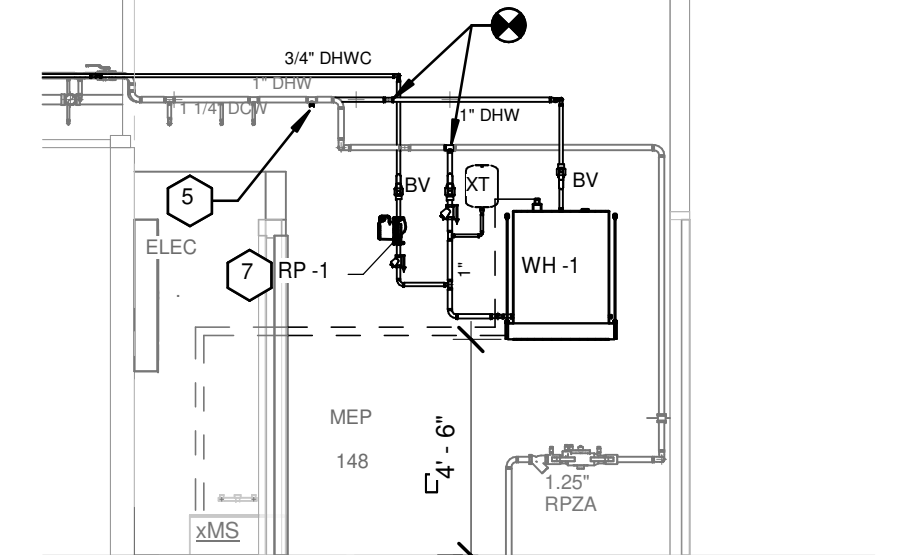
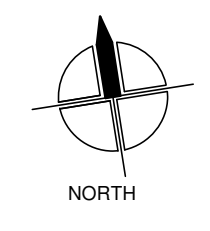






**1** DOMESTIC WATER PLAN - EXISTING BUILDING

1/4" = 1'-0"



**2** NEW WATER HEATER SECTION

1/4" = 1'-0"

**# KEVED NOTES:**

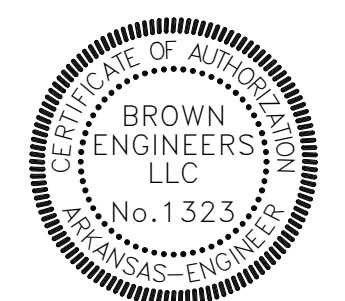
1. RELOCATE EXISTING HOSE BIBB TO NEW EXTERIOR WALL AS PART OF BREAKROOM EXPANSION. EXTEND EXISTING DCW PIPING TO NEW HOSE BIBB LOCATION.
2. ROUTE NEW DCW/DHW PIPING TO NEW RESTROOMS IN CHASE WALL.
3. PROVIDE ACCESS PANEL FOR SHUTOFF VALVE IN CEILING.
4. PROVIDE NEW WATER HEATER IN EXISTING MEP ROOM. COORDINATE WITH OWNER FOR REMOVAL OF EXISTING STORAGE RACK AT THIS LOCATION. ROUTE WATER HEATER T&P AND PAN DRAIN DISCHARGE TO EXISTING MOP SINK.
5. REMOVE EXISTING WATER HEATER AND CAP BRANCH PIPING. EXTEND DHW MAIN IN MEP ROOM TO CONNECT TO NEW WATER HEATER.
6. NEW WALL BOX FOR WASHING MACHINE IN EXISTING STORAGE ROOM. CONNECT DCW/DHW PIPING TO EXISTING WATER SUPPLY TO MOP SINK. RE-ROUTE EXISTING MOP SINK WATER PIPING IN WALL AS REQUIRED TO MAKE ROOM FOR NEW WASHER BOX AND DRAIN PIPING.
7. PROVIDE NEW RECIRCULATION PUMP IN MEP ROOM. COORDINATE WITH ELECTRICAL FOR POWER. ROUTE DHWC RETURN LINE FROM NEW ADDITION. OFFSET PIPING AS REQUIRED TO AVOID ROUTING ABOVE ELECTRICAL CLOSET.

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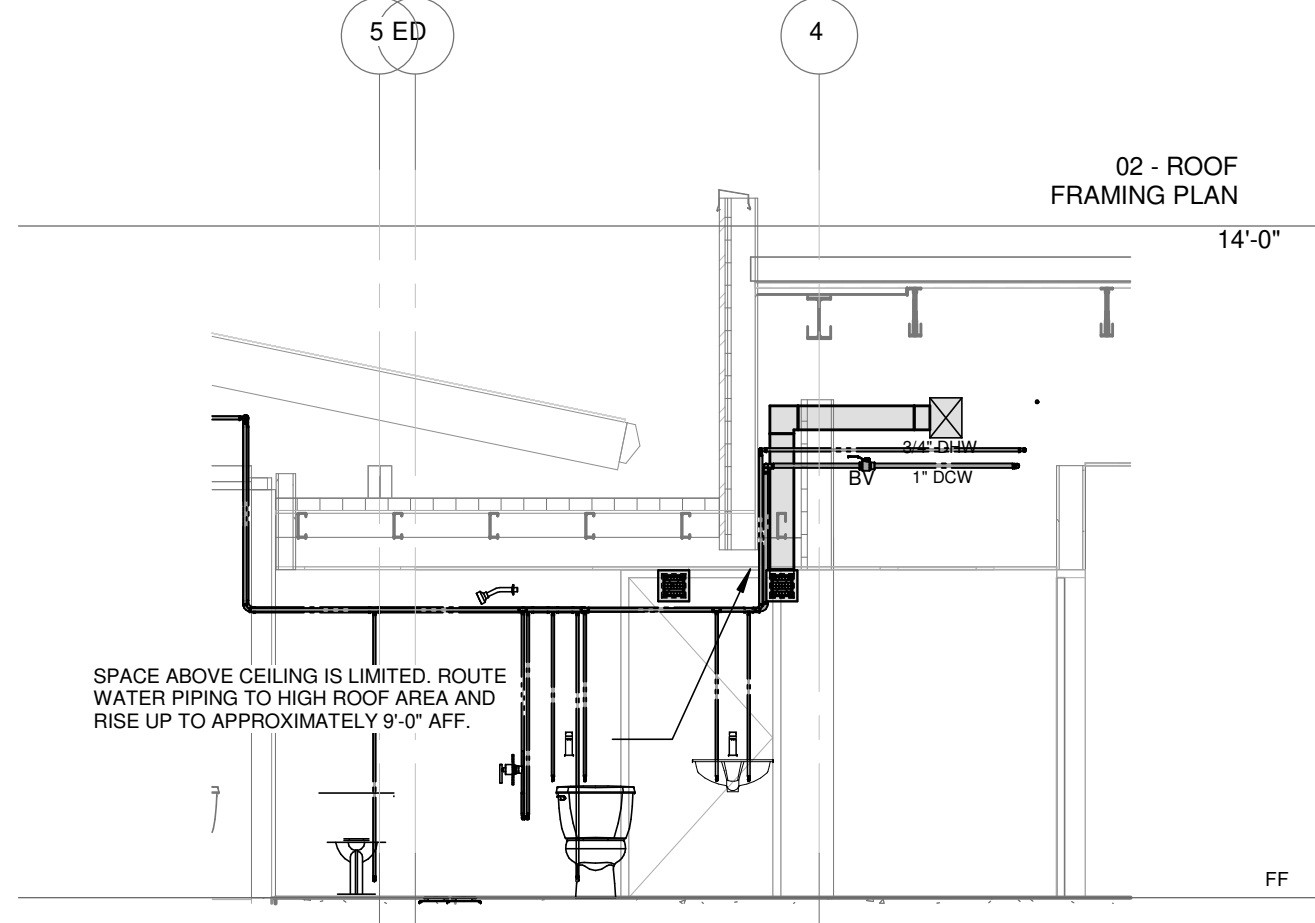
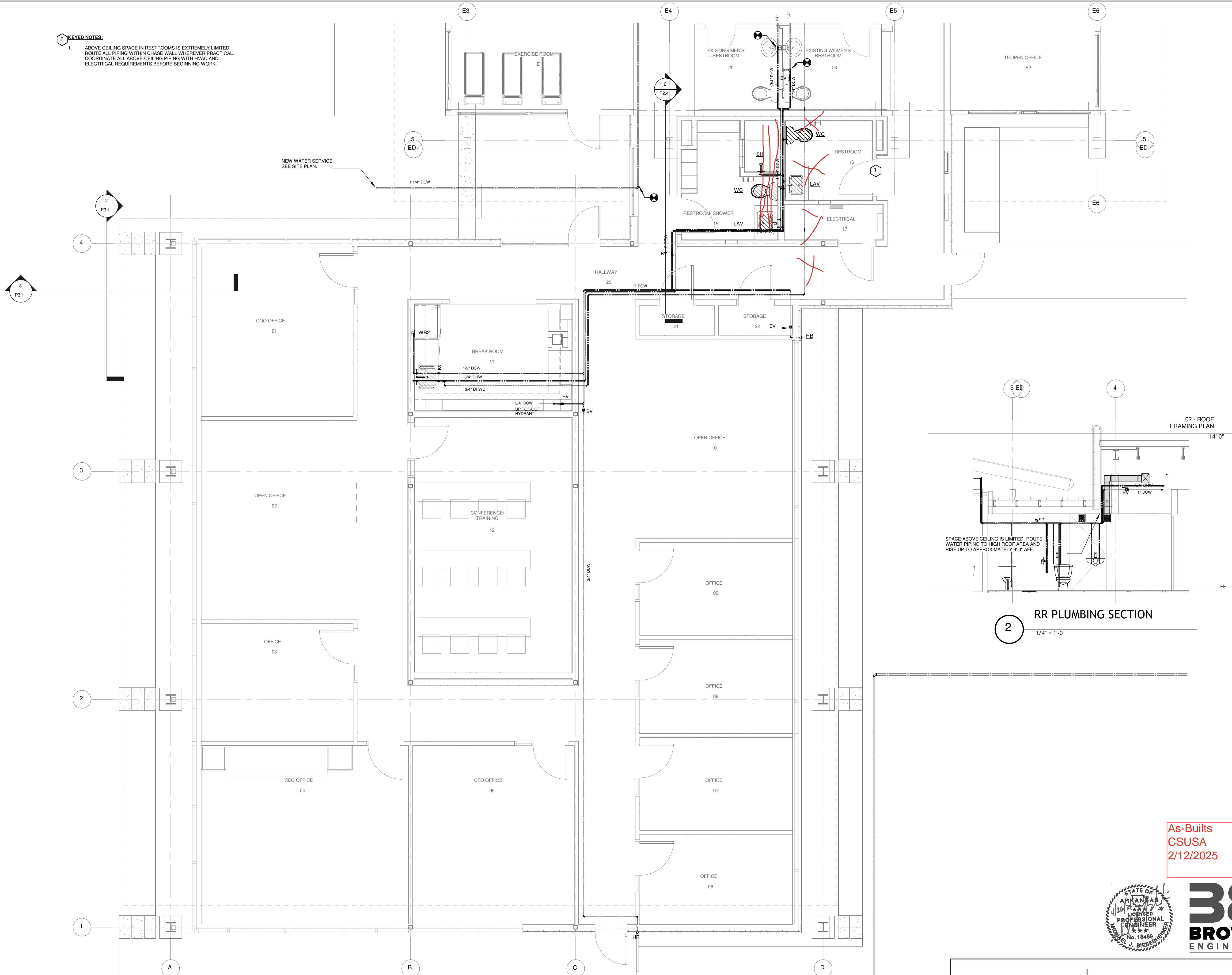
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**KEYED NOTES:**

1. ABOVE CEILING SPACE IN RESTROOMS IS EXTREMELY LIMITED. ROUTE ALL PIPING WITHIN CHASE WALL WHEREVER PRACTICAL. COORDINATE ALL ABOVE-CEILING PIPING WITH HVAC AND ELECTRICAL REQUIREMENTS BEFORE BEGINNING WORK.

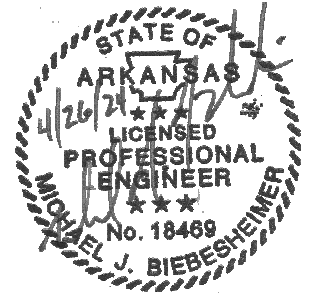


**2 RR PLUMBING SECTION**  
1/4" = 1'-0"

**1 DOMESTIC WATER PLAN - BUILDING ADDITION**  
1/4" = 1'-0"

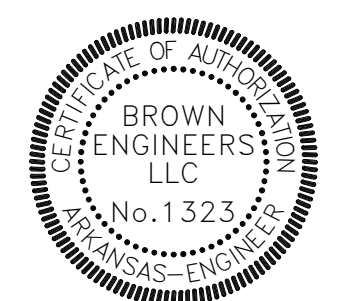


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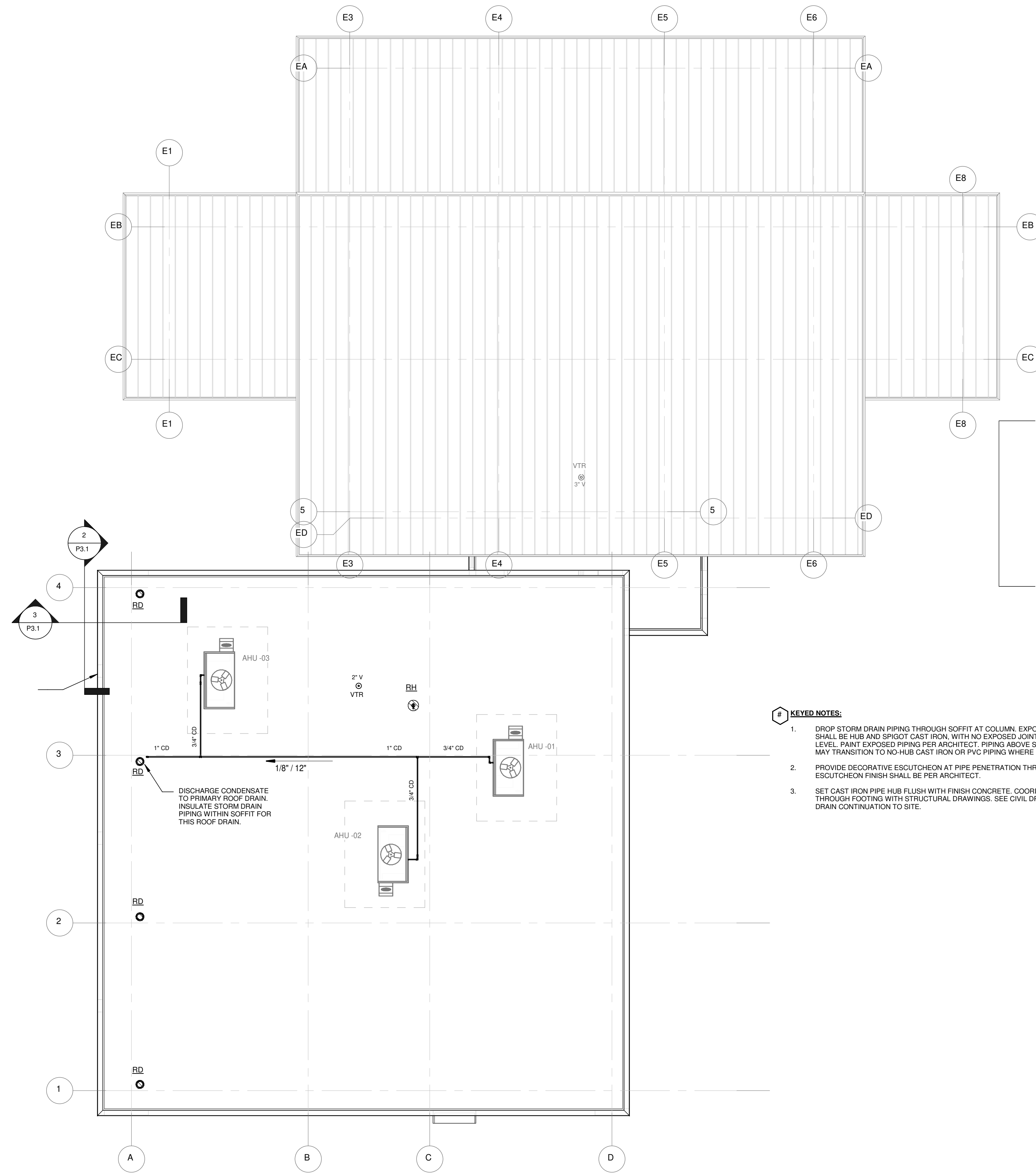


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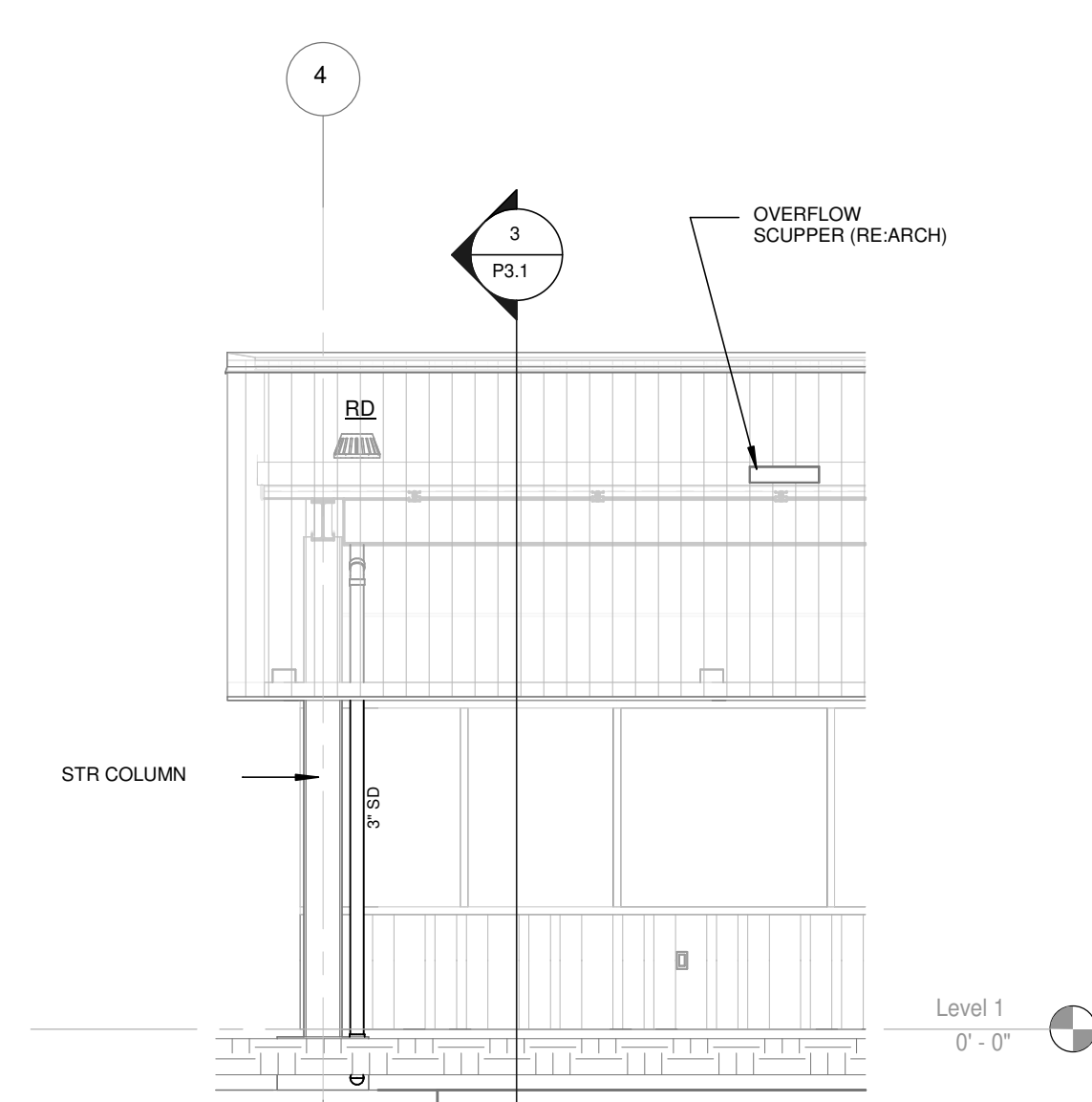




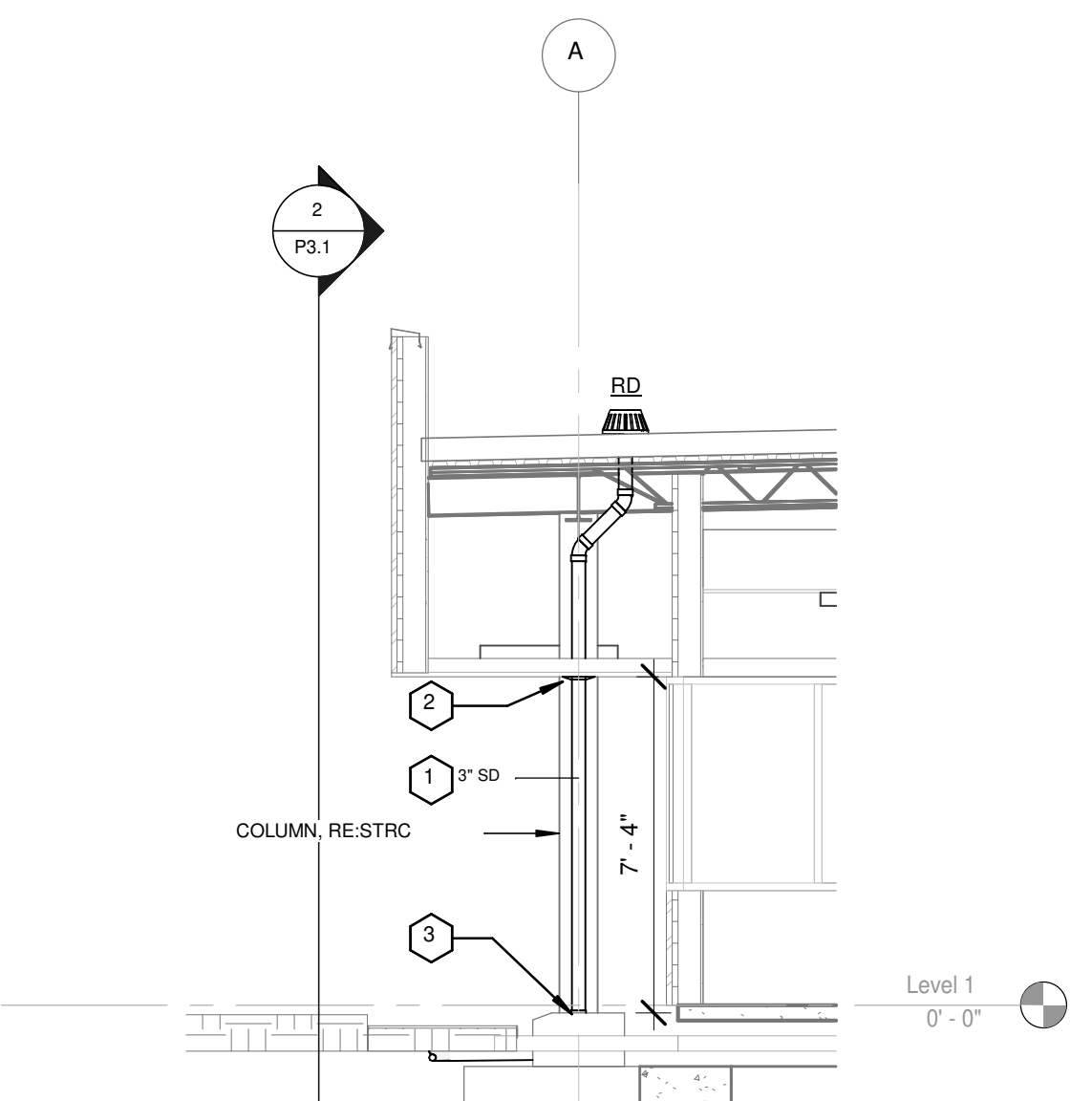


**1**  
PLUMBING ROOF PLAN  
1/8" = 1'-0"  
NORTH

- KEYED NOTES:**
- DROP STORM DRAIN PIPING THROUGH SOFFIT AT COLUMN. EXPOSED STORM DRAIN PIPING SHALL BE HUB AND SPIGOT CAST IRON, WITH NO EXPOSED JOINTS BEFORE GROUND LEVEL. PAINT EXPOSED PIPING PER ARCHITECT. PIPING ABOVE SOFFIT AND BELOW GRADE MAY TRANSITION TO NO-HUB CAST IRON OR PVC PIPING WHERE FULLY CONCEALED.
  - PROVIDE DECORATIVE ESCUTCHEON AT PIPE PENETRATION THROUGH SOFFIT. ESCUTCHEON FINISH SHALL BE PER ARCHITECT.
  - SET CAST IRON PIPE HUB FLUSH WITH FINISH CONCRETE. COORDINATE PENETRATION THROUGH FOOTING WITH STRUCTURAL DRAWINGS. SEE CIVIL DRAWINGS FOR STORM DRAIN CONTINUATION TO SITE.

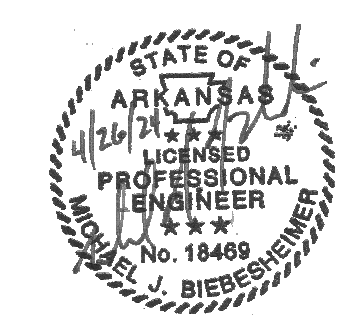


**2**  
TYPICAL STORM DRAIN, EAST  
1/4" = 1'-0"

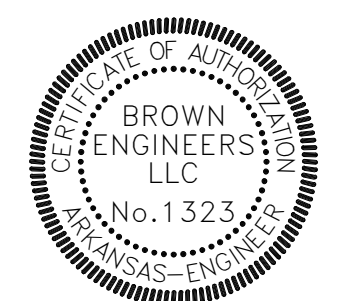


**3**  
TYPICAL STORM DRAIN, NORTH  
1/4" = 1'-0"

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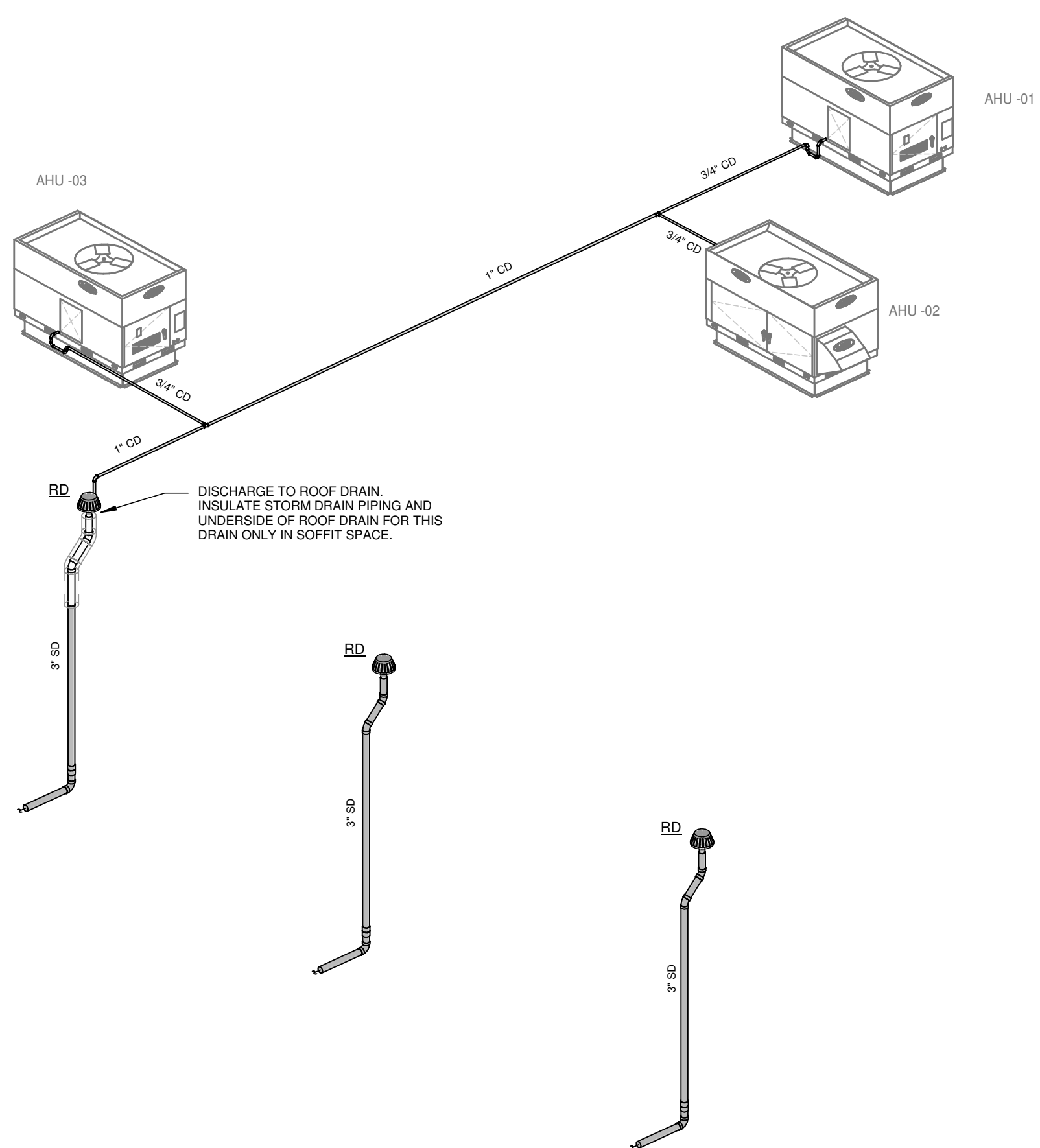




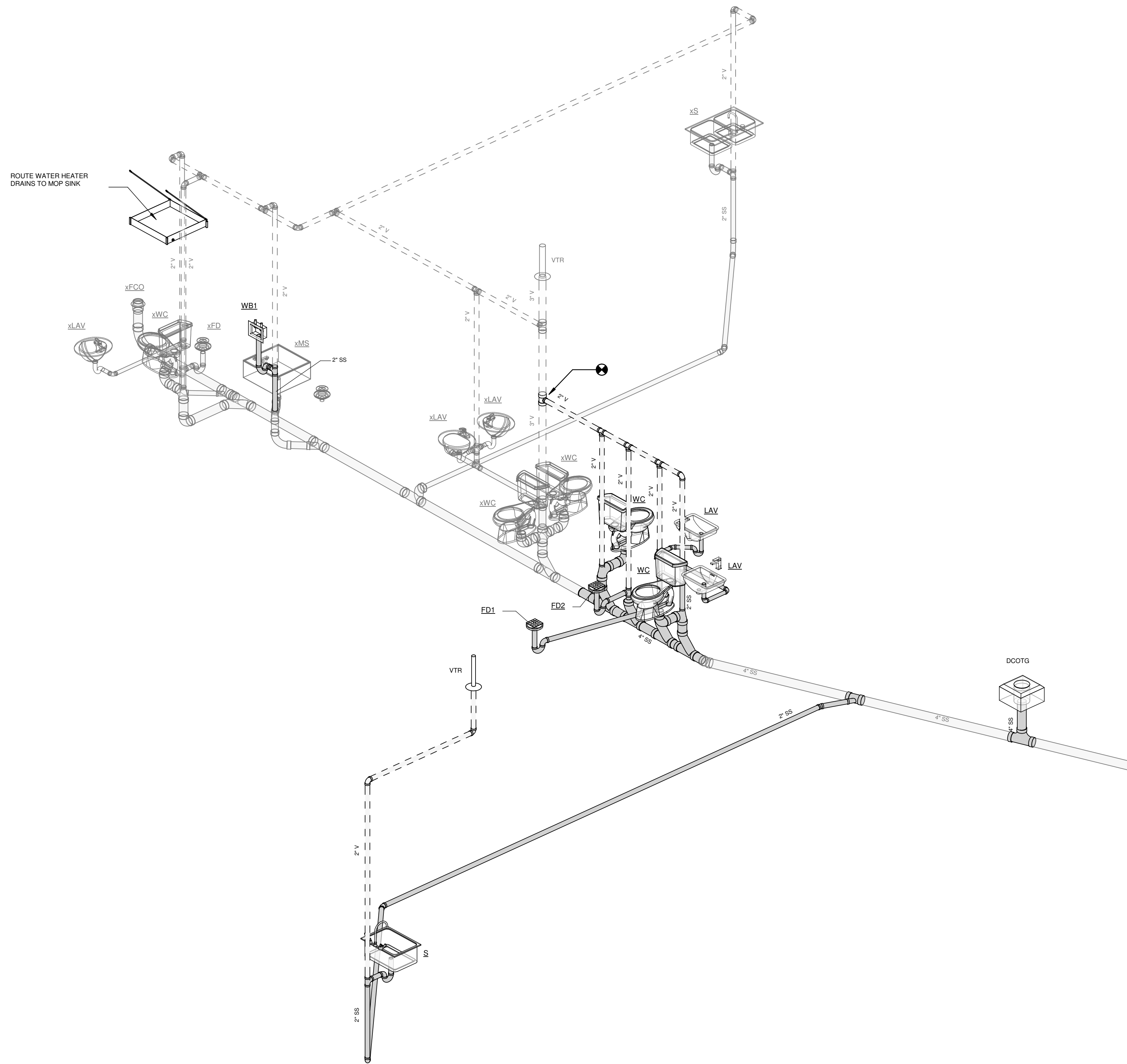
**SANITARY WASTE AND VENT RISER GENERAL NOTES:**

1. SANITARY RISERS ARE DIAGRAMMATIC. RISERS INDICATE GENERAL PIPE ROUTES AND SIZES FOR SYSTEM. CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS TO PROVIDE A FULLY FUNCTIONING SYSTEM.
2. SOME P-TRAPS FOR FIXTURES MAY NOT BE SHOWN FOR CLARITY OF RISER. ALL PLUMBING FIXTURES WITH SANITARY CONNECTIONS SHALL BE PROVIDED WITH EITHER INTEGRAL OR ANCILLARY P-TRAPS.
3. CONTRACTOR SHALL INSTALL ALL PLUMBING FIXTURES IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION.
4. CLOSELY COORDINATE ALL VIB ROOF PENETRATIONS WITH ABOVE CEILING DUCTWORK AND STRUCTURE. COORDINATE WITH ARCHITECT FOR FINAL LOCATION.
5. ALL GREASE WASTE DRAIN PIPING SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT.

PLUMBING -- FIXTURE CONNECTION Ø				
TAG	DESCRIPTION	BRANCH CONNECTIONS		
		DCW	DHW	SS
(D)COTG	CLEAN OUT TO GRADE			4"
FD1	FLOOR DRAIN - SQUARE			2"
FD2	FLOOR DRAIN - SQUARE			2"
HB	EXPOSED WALL HYDRANT - EXTERIOR	3/4"		
LAV	SQUARE UNDERMOUNT LAVATORY	1/2"	1/2"	1 1/2"
RD	PRIMARY ROOF DRAIN			3"
RH	ROOF HYDRANT	3/4"		1/2"
S	ADA SINK - UNDERMOUNT	1/2"	1/2"	2"
SH	SHOWER - BUILT UP	1/2"	1/2"	2"
WB1	WASHER WALL BOX	1/2"	1/2"	2"
WB2	ICE MAKER WALL BOX	1/2"		
WC	WATER CLOSET - FLUSH TANK	1/2"		4"

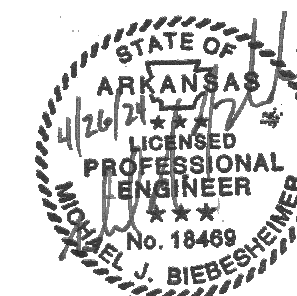


2 STORM DRAIN RISER



1 SANITARY WASTE AND VENT RISER

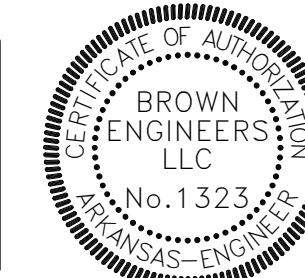
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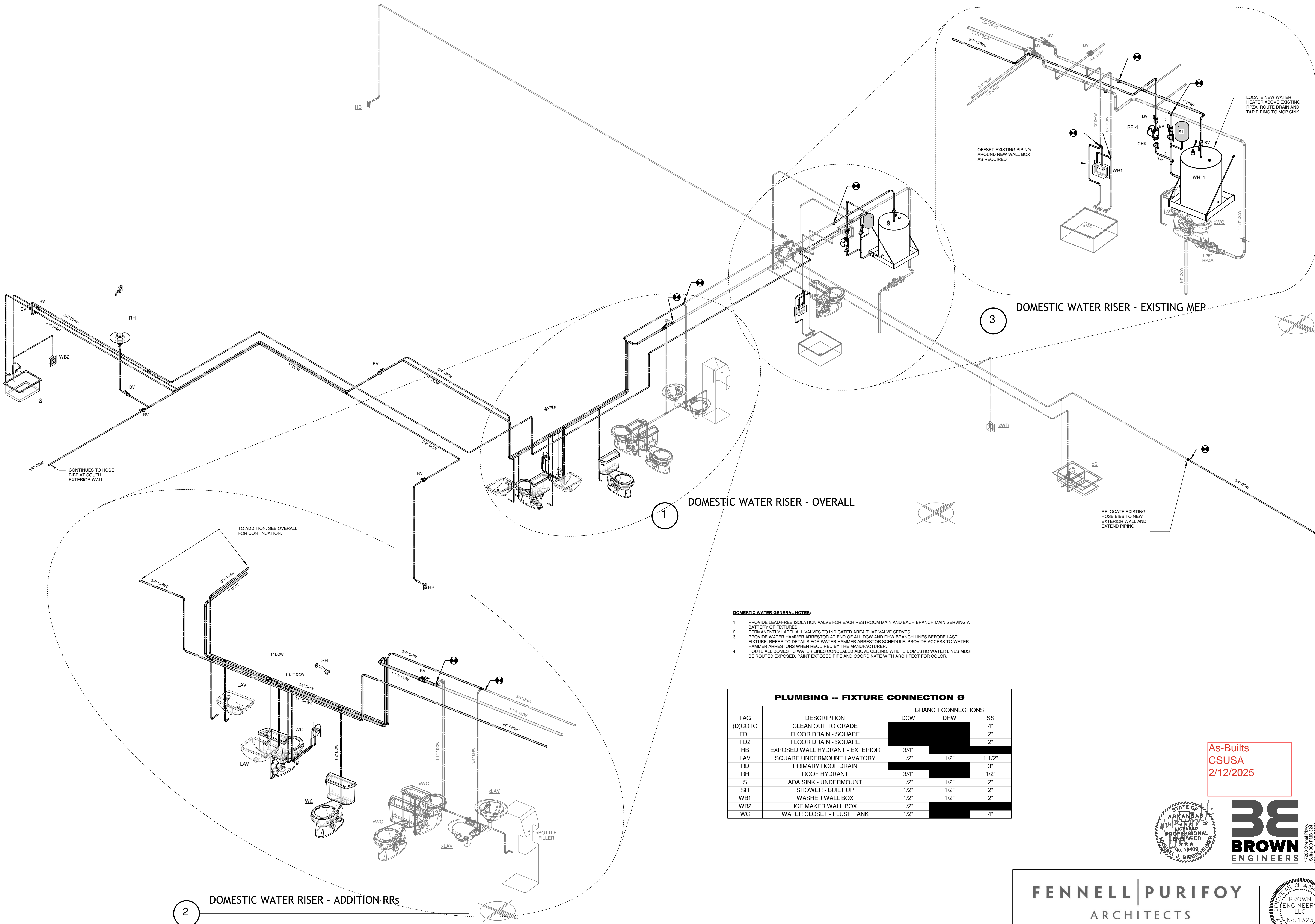
17200 Central Pkwy.  
Little Rock, AR 72223  
Phone 501-466-0100  
www.browngineers.com

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- DOMESTIC WATER GENERAL NOTES:**
1. PROVIDE LEAD-FREE ISOLATION VALVE FOR EACH RESTROOM MAIN AND EACH BRANCH MAIN SERVING A BATTERY OF FIXTURES.
  2. PERMANENTLY LABEL ALL VALVES TO INDICATED AREA THAT VALVE SERVES.
  3. PROVIDE WATER HAMMER ARRESTOR AT END OF ALL DCW AND DHW BRANCH LINES BEFORE LAST FIXTURE. REFER TO DETAILS FOR WATER HAMMER ARRESTOR SCHEDULE. PROVIDE ACCESS TO WATER HAMMER ARRESTORS WHEN REQUIRED BY THE MANUFACTURER.
  4. ROUTE ALL DOMESTIC WATER LINES CONCEALED ABOVE CEILING. WHERE DOMESTIC WATER LINES MUST BE ROUTED EXPOSED, PAINT EXPOSED PIPE AND COORDINATE WITH ARCHITECT FOR COLOR.

PLUMBING -- FIXTURE CONNECTION Ø				
TAG	DESCRIPTION	BRANCH CONNECTIONS		
		DCW	DHW	SS
(D)COTG	CLEAN OUT TO GRADE			4"
FD1	FLOOR DRAIN - SQUARE			2"
FD2	FLOOR DRAIN - SQUARE			2"
HB	EXPOSED WALL HYDRANT - EXTERIOR	3/4"		
LAV	SQUARE UNDERMOUNT LAVATORY	1/2"	1/2"	1 1/2"
RD	PRIMARY ROOF DRAIN			3"
RH	ROOF HYDRANT	3/4"		1/2"
S	ADA SINK - UNDERMOUNT	1/2"	1/2"	2"
SH	SHOWER - BUILT UP	1/2"	1/2"	2"
WB1	WASHER WALL BOX	1/2"	1/2"	2"
WB2	ICE MAKER WALL BOX	1/2"		
WC	WATER CLOSET - FLUSH TANK	1/2"		4"

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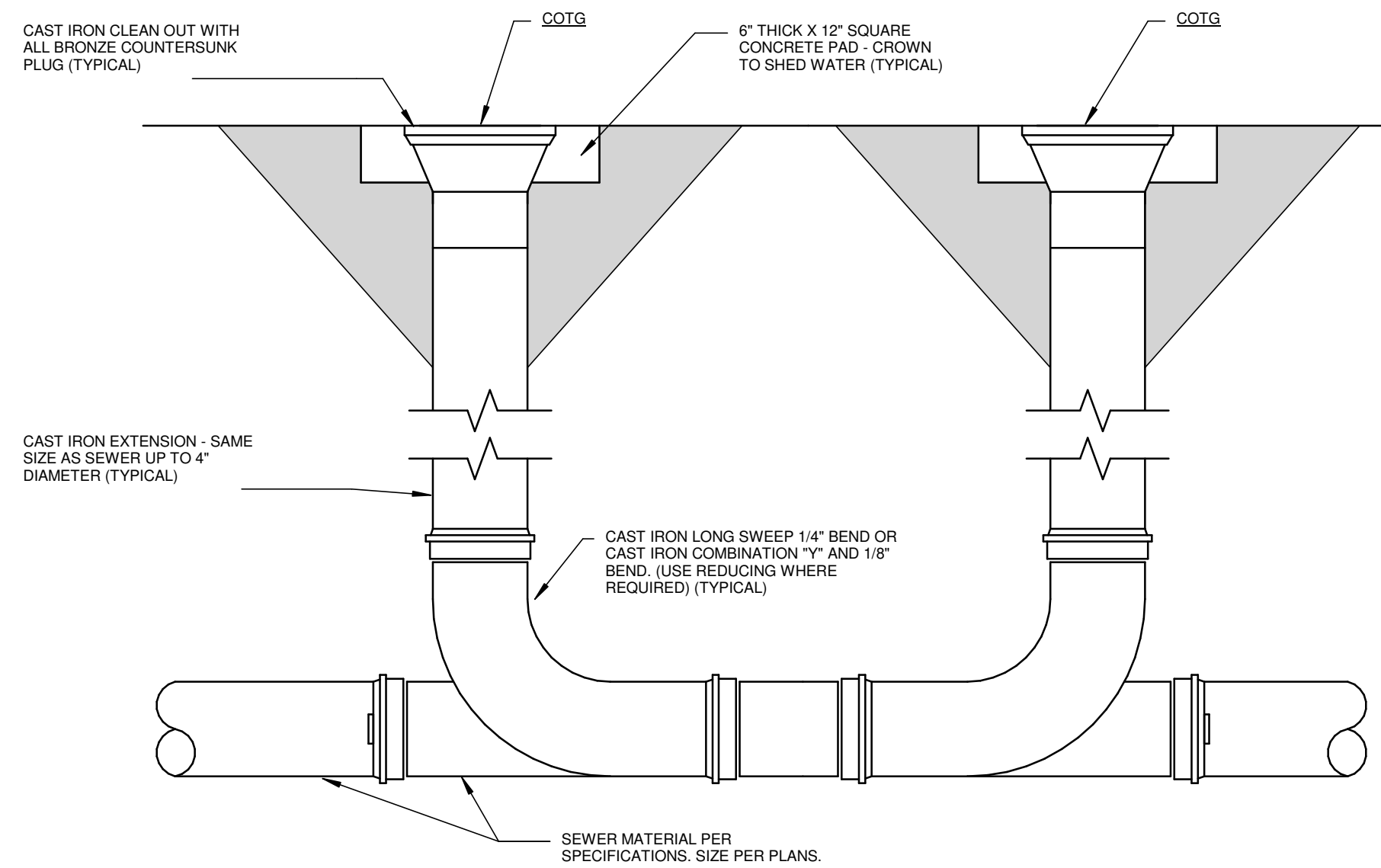


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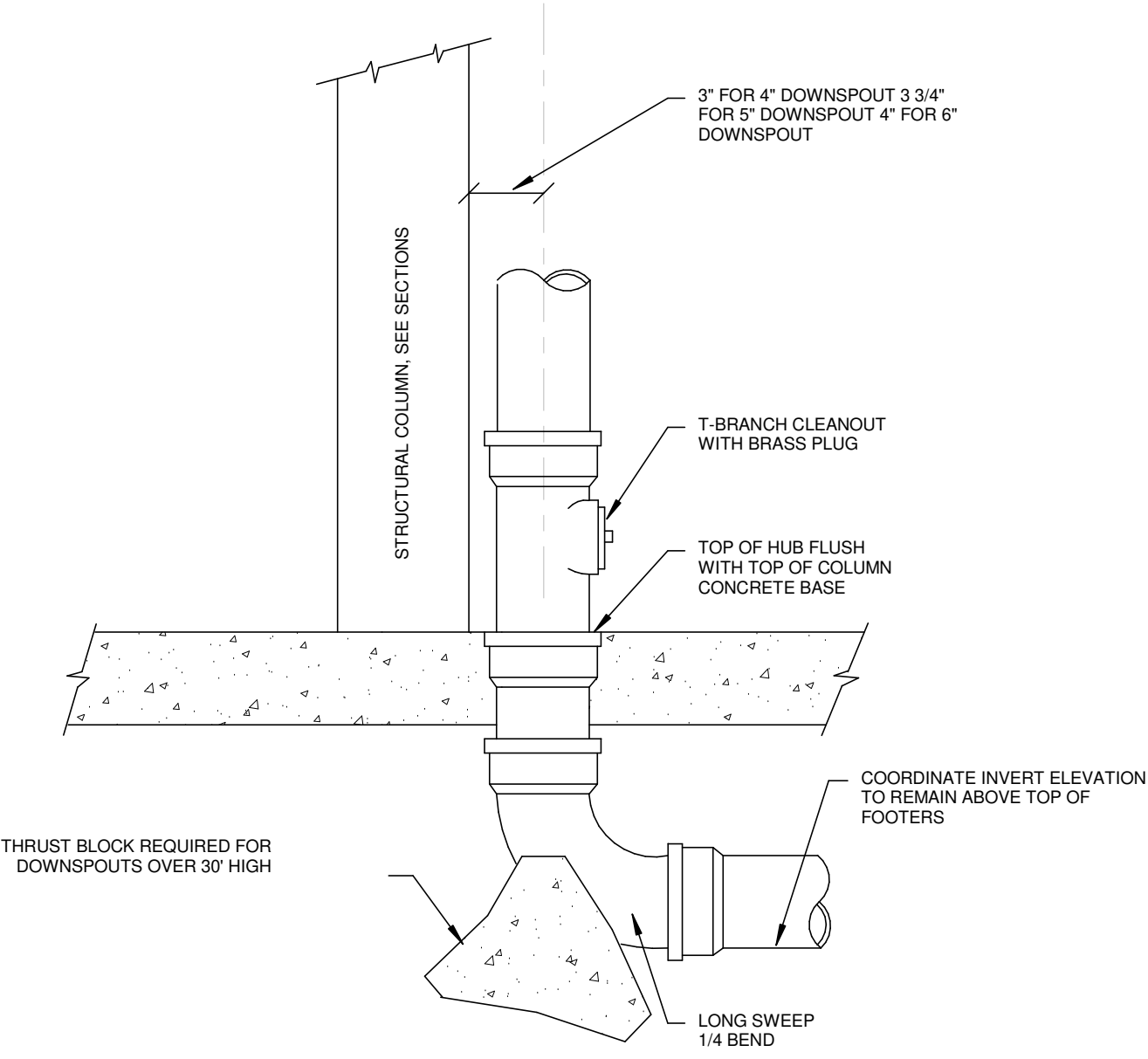
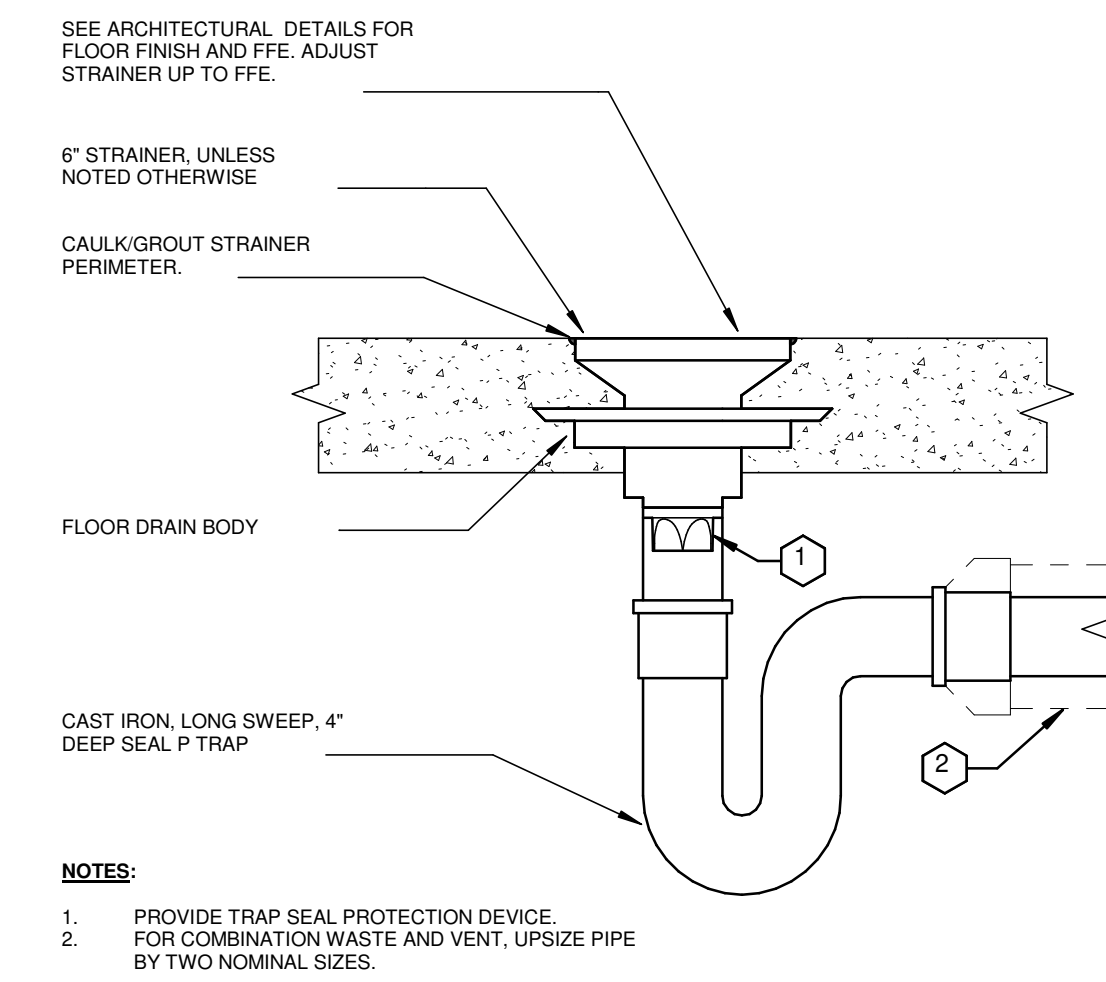
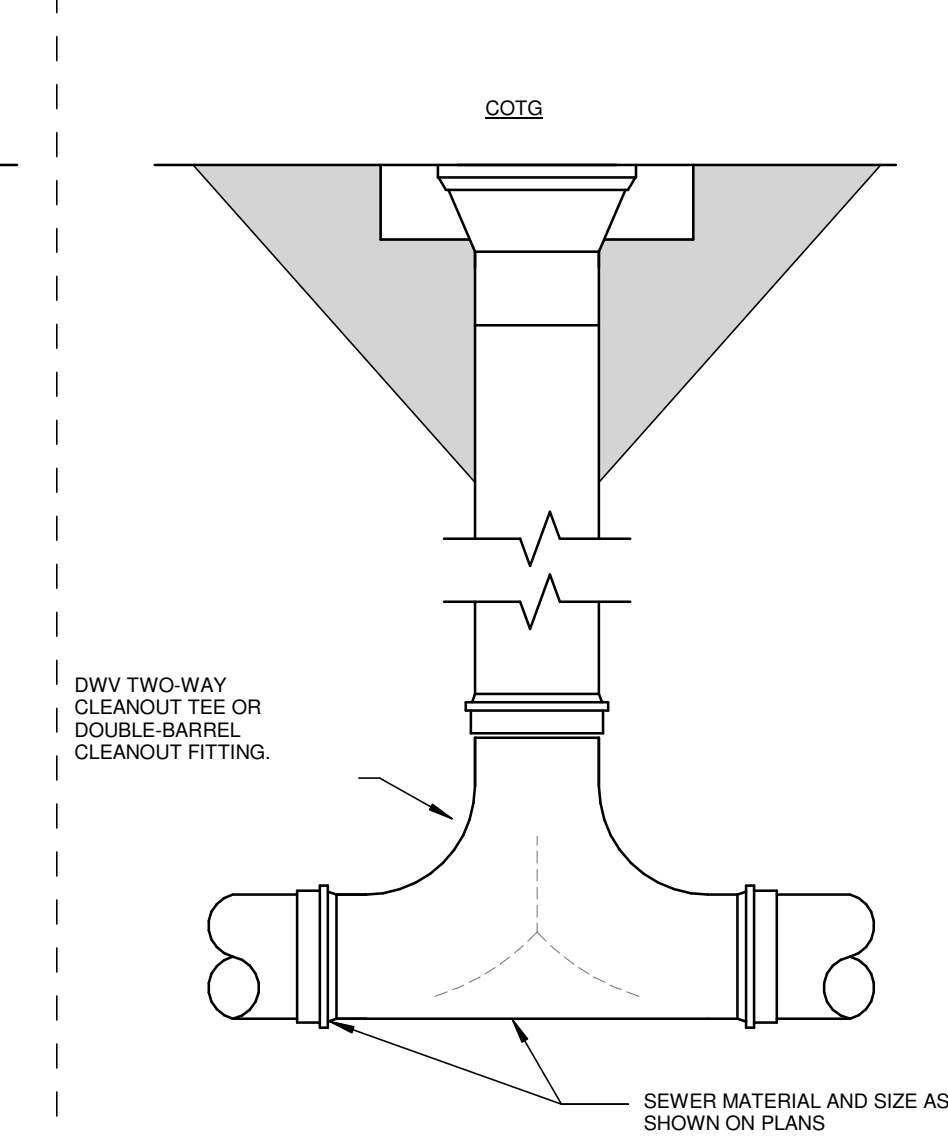
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**GENERAL NOTE:** WHERE POSSIBLE, OFFSET COTG FITTINGS AWAY FROM BUILDING PERIMETER TO AVOID SIDEWALKS. ALL DCOTG LOCATIONS SHALL BE ACCESSIBLE FOR USE.



**COMBINED DOUBLE CLEANOUT FITTING OPTION.**  
MATCH DCOTG STYLE SHOWN ON PLANS



**1 DOUBLE CLEANOUT TO GRADE**

NOT TO SCALE

**2 FLOOR DRAIN**

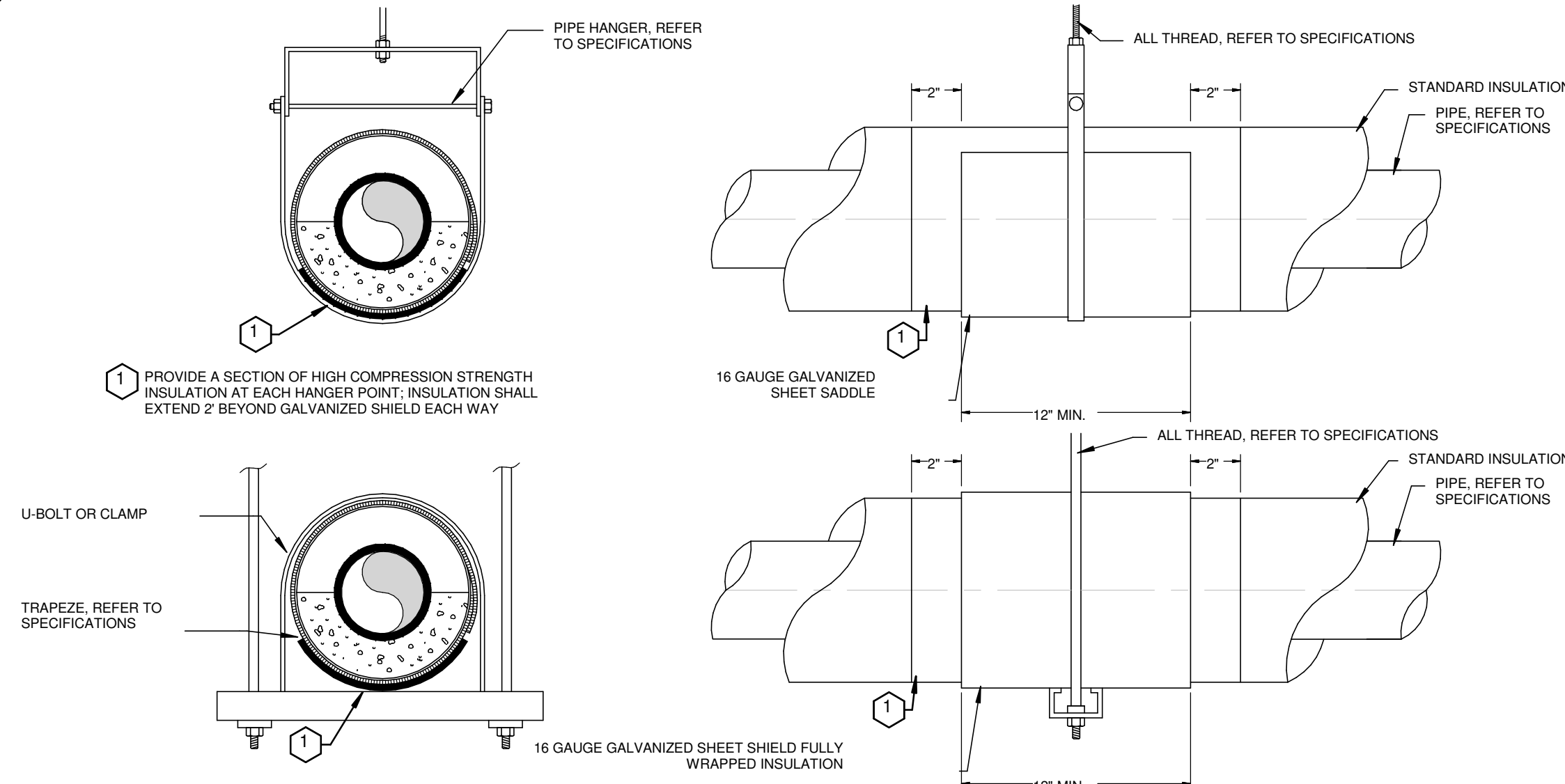
NOT TO SCALE

**3 DOWNSPOUT CONNECTION TO UNDERGROUND**

NOT TO SCALE

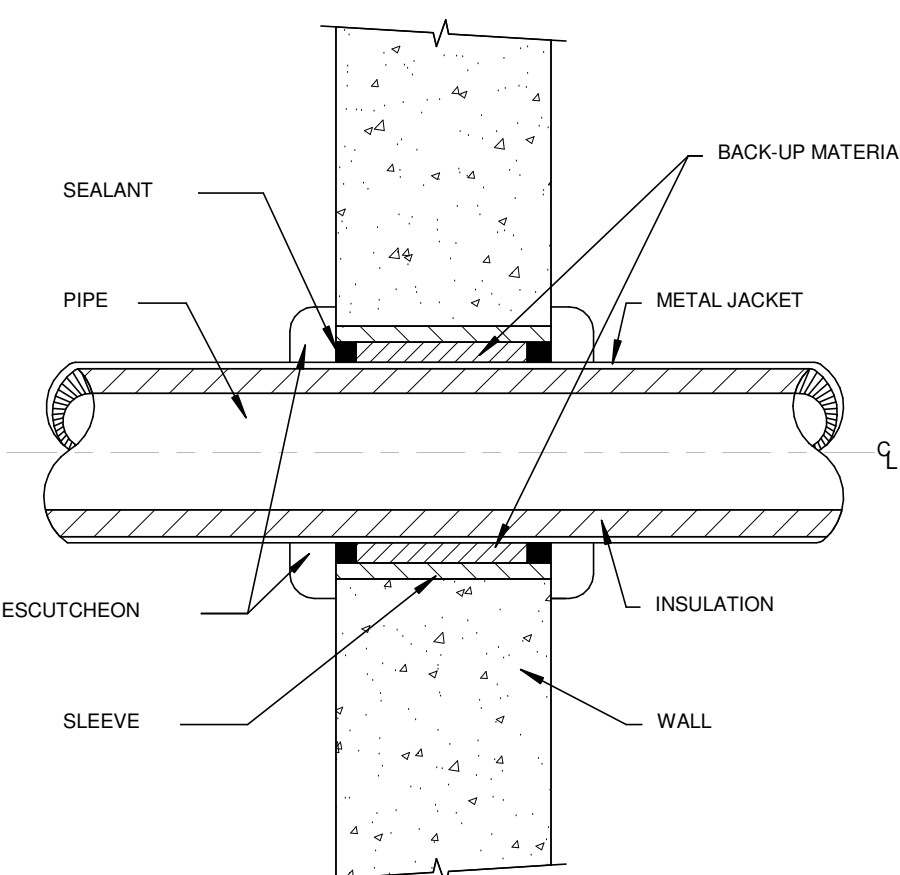
**4 INSULATED PIPE HANGER**

NOT TO SCALE



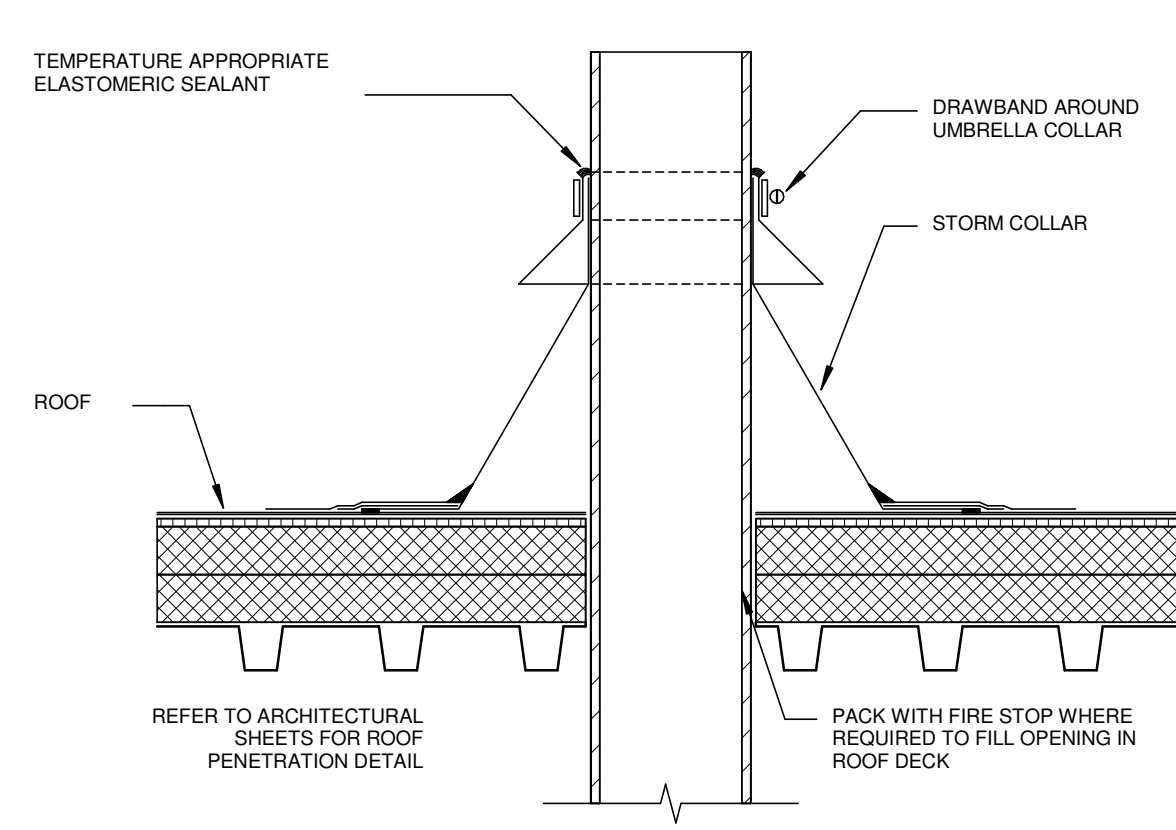
**5 PIPE SLEEVE THROUGH WALL**

NOT TO SCALE



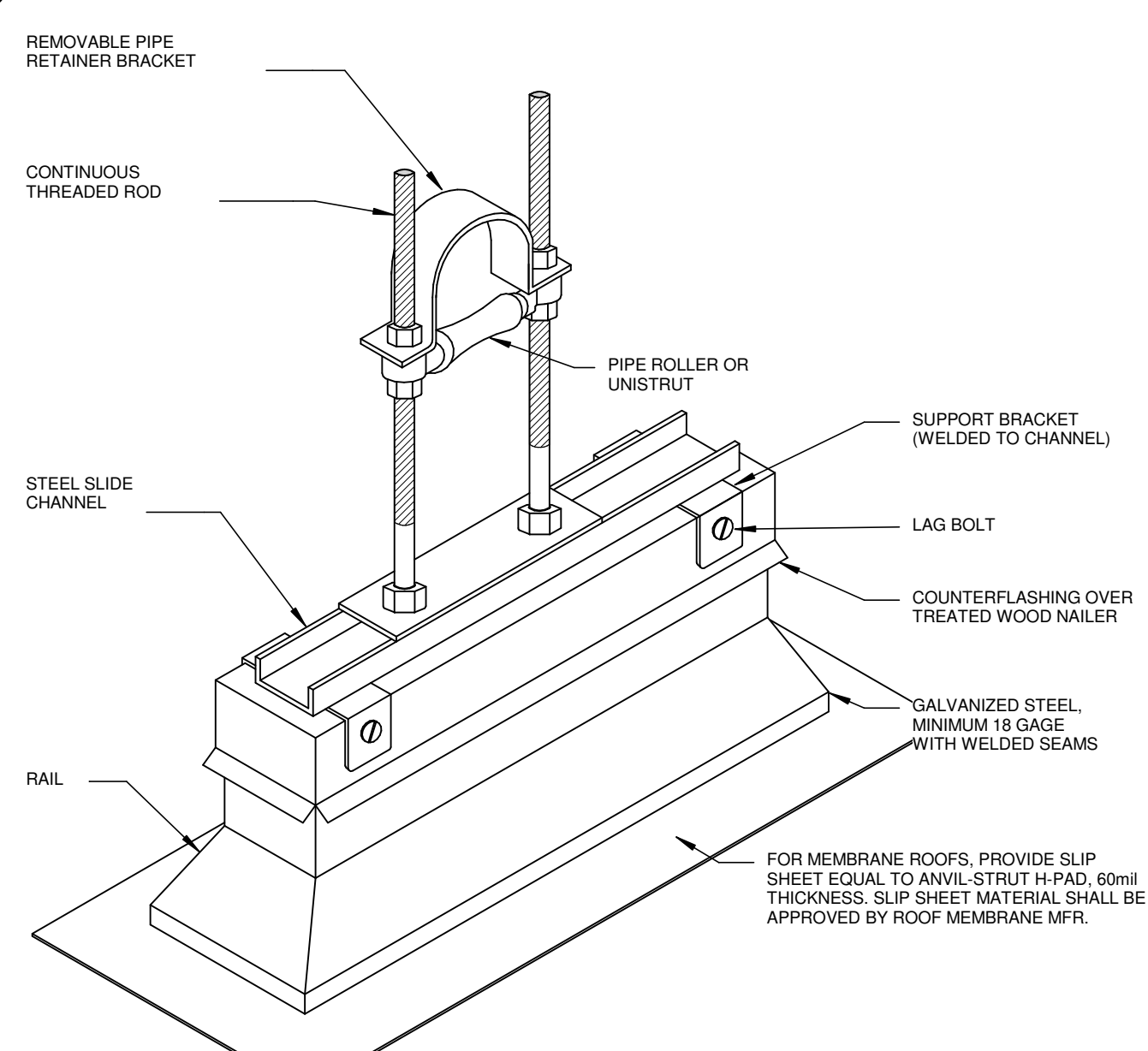
**6 VENT THROUGH ROOF**

NOT TO SCALE



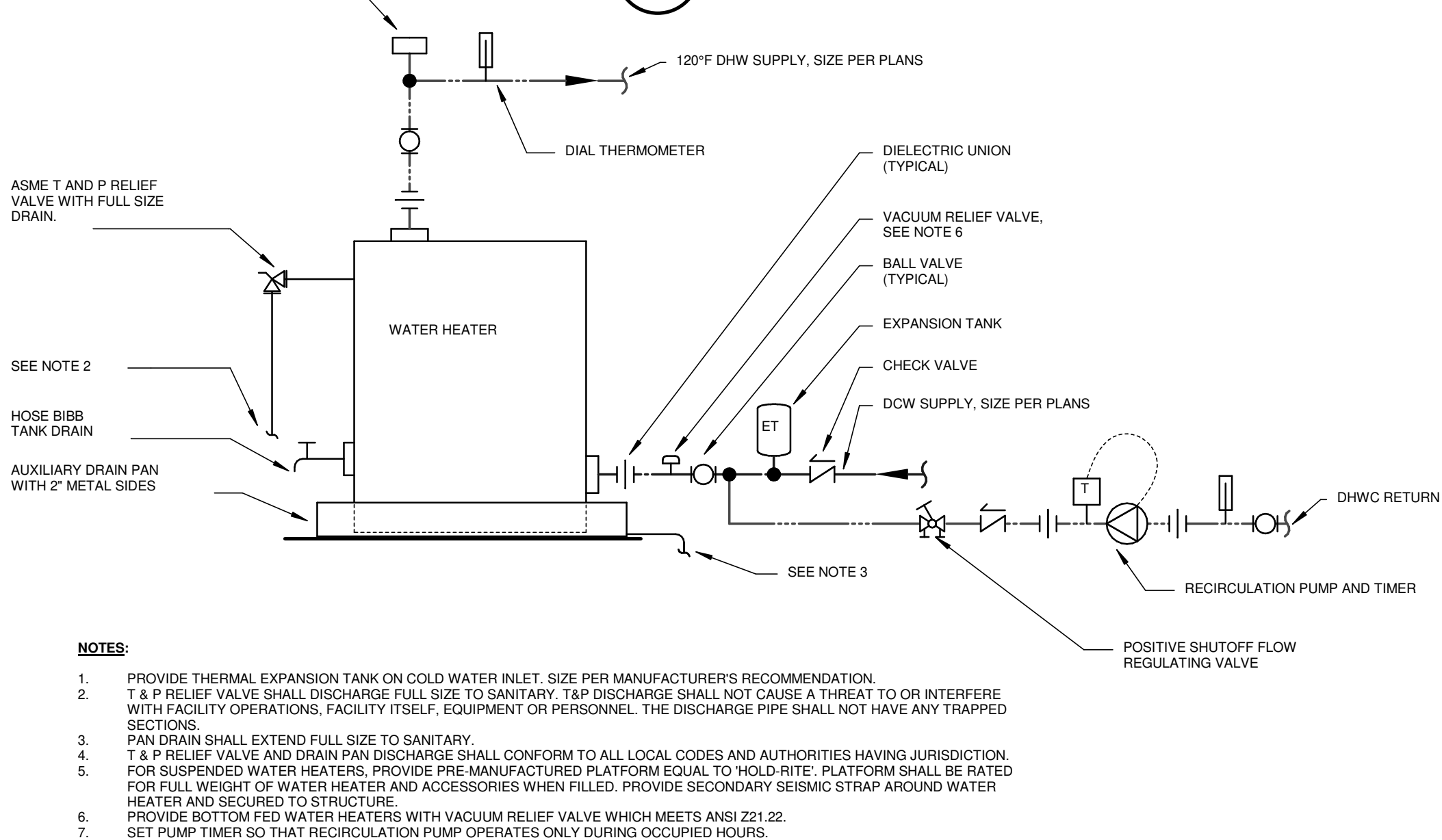
**7 ROOF MOUNTED PIPE SUPPORT**

NOT TO SCALE



**8 WATER HEATER - SINGLE TEMP. W/RECIRC.**

NOT TO SCALE



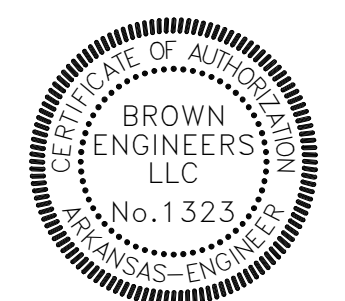
**NOTES:**  
1. VENT ABOVE ROOF SHALL BE PAINTED TO MATCH ROOF. COORDINATE WITH ARCHITECT.  
2. IF ARCHITECTURAL PIPE PENETRATION DETAIL IS AVAILABLE, IT SHALL SUPERCEDE THIS DETAIL.

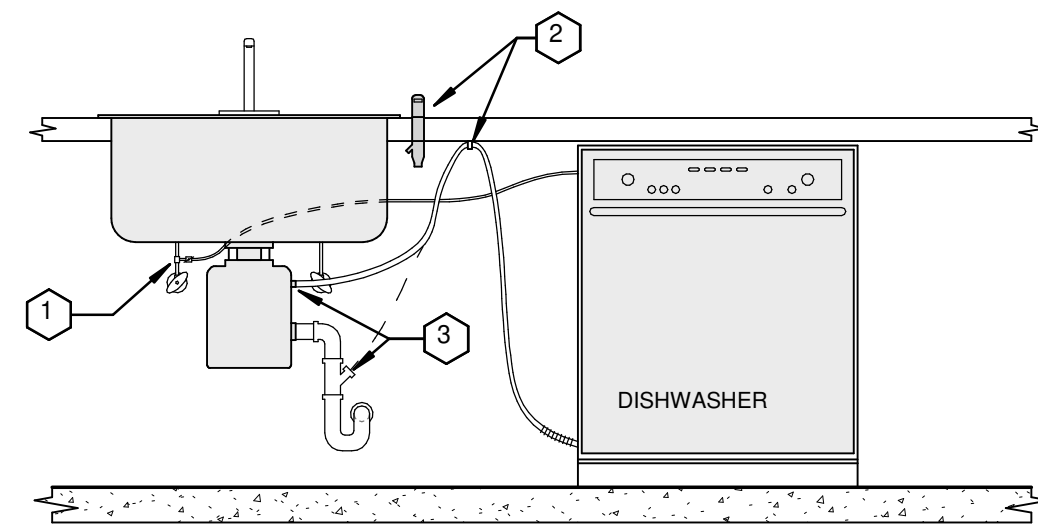
**NOTES:**  
1. PROVIDE THERMAL EXPANSION TANK ON COLD WATER INLET. SIZE PER MANUFACTURER'S RECOMMENDATION.  
2. T & P RELIEF VALVE SHALL DISCHARGE FULL SIZE TO SANITARY. T&P DISCHARGE SHALL NOT CAUSE A THREAT TO OR INTERFERE WITH FACILITY OPERATIONS, FACILITY ITSELF, EQUIPMENT OR PERSONNEL. THE DISCHARGE PIPE SHALL NOT HAVE ANY TRAPPED SECTIONS.  
3. PAN DRAIN SHALL EXTEND FULL SIZE TO SANITARY.  
4. T & P RELIEF VALVE AND DRAIN PAN DISCHARGE SHALL CONFORM TO ALL LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.  
5. FOR SUSPENDED WATER HEATERS, PROVIDE PRE-MANUFACTURED PLATFORM EQUAL TO 'HOLD-RITE'. PLATFORM SHALL BE RATED FOR FULL WEIGHT OF WATER HEATER AND ACCESSORIES WHEN FILLED. PROVIDE SECONDARY SEISMIC STRAP AROUND WATER HEATER AND SECURED TO STRUCTURE.  
6. PROVIDE BOTTOM FED WATER HEATERS WITH VACUUM RELIEF VALVE WHICH MEETS ANSI Z21.22.  
7. SET PUMP TIMER SO THAT RECIRCULATION PUMP OPERATES ONLY DURING OCCUPIED HOURS.

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**KEYED NOTES:**

1. TAP HOT WATER SUPPLY AT SINK FOR DISHWASHER. PROVIDE BRASS INLINE ISOLATION VALVE FOR DISHWASHER SUPPLY LINE.
2. ROUTE DISHWASHER DRAIN THROUGH HIGH LOOP SECURED TO BOTTOM OF COUNTERTOP WITH NON-METALLIC FASTENER OR CONNECT TO SINK-TOP AIR GAP FITTING BEFORE CONNECTING TO SINK DRAIN.
3. CONNECT DISHWASHER DRAIN TO GARBAGE DISPOSAL INLET PORT. FOR SINKS WITHOUT GARBAGE DISPOSAL, CONNECT DRAIN TO WYE FITTING IN VERTICAL PIPE UPSTREAM OF P-TRAP. TRIM DISHWASHER DRAIN HOSE TO ELIMINATE EXCESS LENGTH. DRAIN SHALL BE SLOPED TO DRAIN DOWNSTREAM OF HIGH LOOP OR AIR GAP.

**1 RESIDENTIAL STYLE DISHWASHER**  
NOT TO SCALE

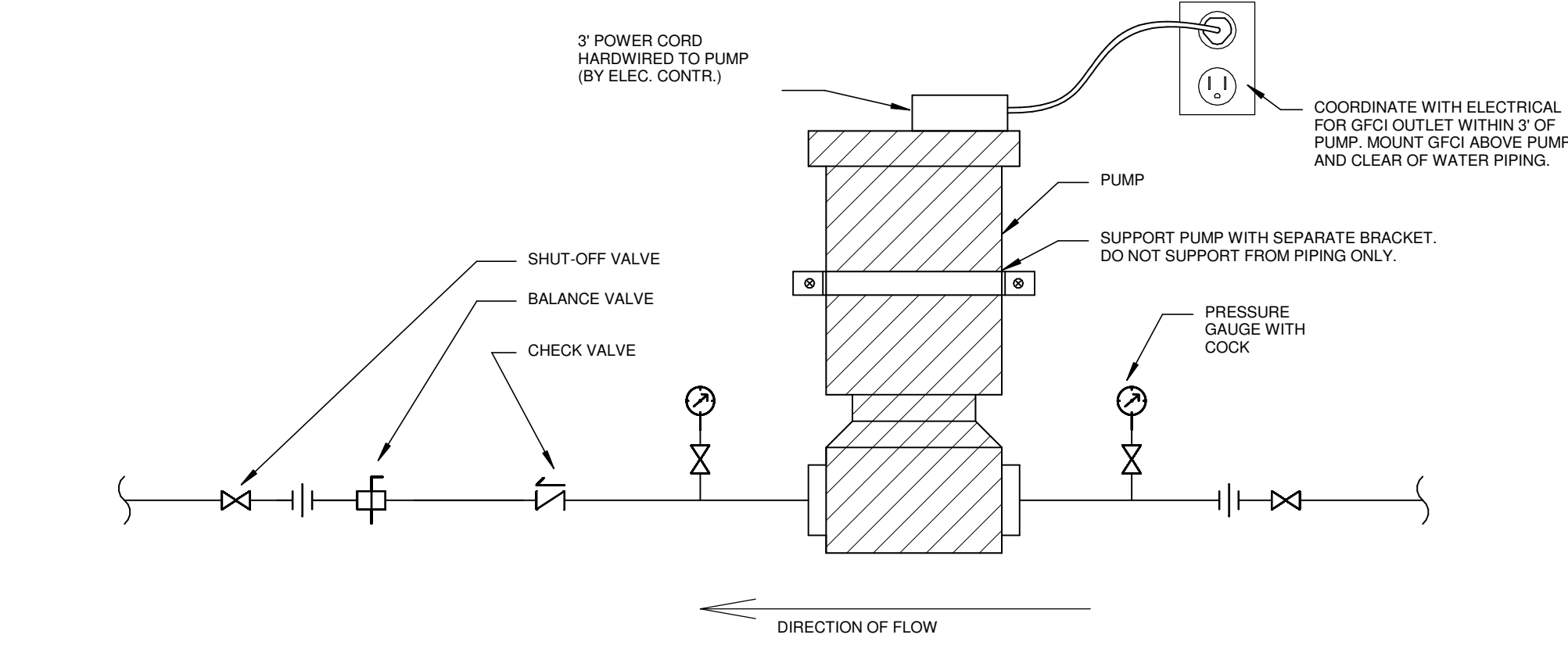
HAMMER ARRESTOR SCHEDULE		
SUPPLY BRANCH SIZE	PDI HAMMER ARRESTOR SIZE	FIXTURE UNITS
1/2" - 1"	A	1-11
1-1/4"	B	12-32
1-1/2"	C	33-60
2"	D	61-113
2-1/2"	E	114-154
3"	F	155-330

**NOTES:**

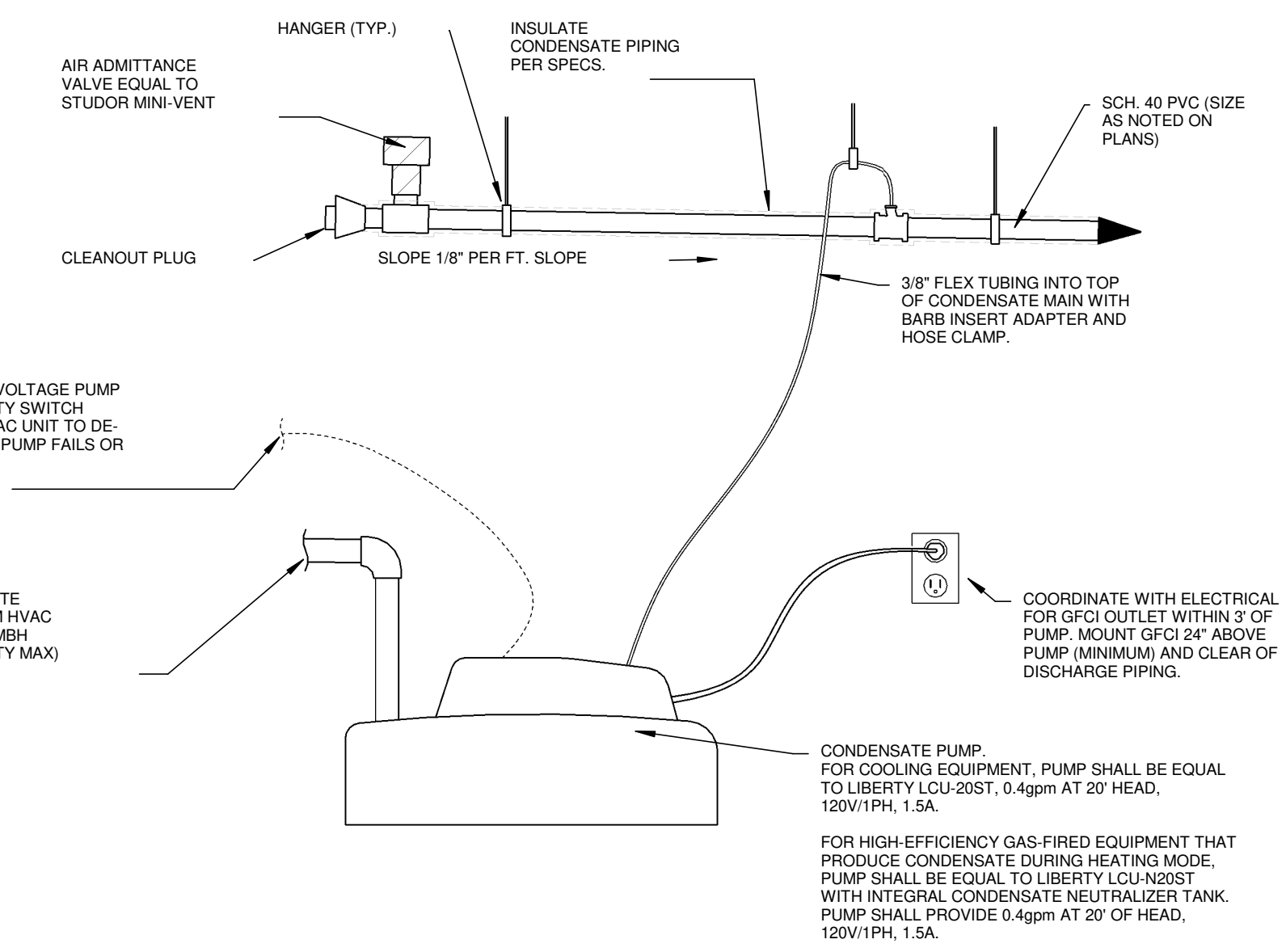
1. ALL BATHROOM GROUPS SHALL INCLUDE A MINIMUM OF ONE DOW ARRESTOR AND ONE DHW ARRESTOR SIZED PER HAMMER ARRESTOR SCHEDULE. ADDITIONAL ARRESTORS SHALL BE INSTALLED WHERE INDICATED.
2. ARRESTORS SHALL BE P.D.I.-WH201 APPROVED AND CERTIFIED.
3. ARRESTORS SHALL HAVE WROUGHT COPPER SHELL WITH THREADED CONNECTIONS AND HYDRO-PNEUMATIC AIR CUSHION.
4. PROVIDE ACCESS TO ARRESTORS.
5. FURNISH AND INSTALL WITH ISOLATION VALVES INDEPENDENT OF ASSEMBLY.

**2 WATER HAMMER ARRESTOR SCHEDULE**  
NOT TO SCALE

PLUMBING GROUP FIXTURES	C.W.F.U.	
	FLUSH TANK	FLUSH VALVE
1 TLT, 1 LAV	6.5	11.5
2 TLT, 2 LAV	13.5	23
1 TLT, 1 UR, 1 LAV	13	18
3 TLT, 3 LAV	19.5	34.5
2 TLT, 1 UR, 3 LAV	19.5	29.5
4 TLT, 4 LAV	26	46

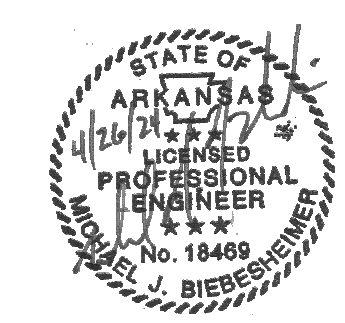


**3 DHW RECIRCULATION PUMP**  
NOT TO SCALE



**4 CONDENSATE PUMP**  
NOT TO SCALE

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