

CODE REFERENCES

FBC, BUILDING	FLORIDA BUILDING CODE, 2023 EIGHTH EDITION
FBC, MECHANICAL	FLORIDA BUILDING CODE, 2023 EIGHTH EDITION
FBC, PLUMBING	FLORIDA BUILDING CODE, 2023 EIGHTH EDITION
FBC, TEST PROTOCOL	FLORIDA BUILDING CODE, 2023 EIGHTH EDITION
FBC, EXISTING BUILDING	FLORIDA BUILDING CODE, 2023 EIGHTH EDITION
FBC, FUEL GAS	FLORIDA BUILDING CODE, 2023 EIGHTH EDITION
FBC, ENERGY	FLORIDA BUILDING CODE, 2023 EIGHTH EDITION
FFPC	FLORIDA FIRE PREVENTION CODE, 2023 EIGHTH EDITION
NFPA 51B	STANDARD FOR FIRE PREVENTION DURING WELDING, CUTTING, AND OTHER HOT WORK, 2019 EDITION
NFPA 70	NATIONAL ELECTRIC CODE, 2020 EDITION
NFPA 101	LIFE SAFETY CODE, 2021 EDITION
NFPA 101A	GUIDE ON ALTERNATIVE APPROACHES TO LIFE SAFETY, 2019 EDITION

CLEANOUT SCHEDULE

	GENERAL (ALL FLOOR & EXTERIOR CLEANOUTS): DURO-COATED CAST IRON CLEANOUT WITH MEMBRANE FLANGE WITH BRONZE COUNTERSUNK PLUG. CLEANOUT CAN BE ADJUSTED TO FINISH FLOOR LEVEL AFTER CONCRETE HAS SET. COORDINATE FLOOR TYPES WITH ARCHITECTURAL PLANS.
FCO	FLOOR: HEAVY DUTY ROUND SCORIATED NICKEL BRONZE TOP. <u>ZURN - ZN1400-BP</u>
FCO	CARPETED FLOOR: HEAVY DUTY ROUND NICKEL BRONZE TOP RECESSED FOR CARPET. <u>ZURN - ZN1400-BP-CM</u>
FCO	TILE FLOOR: HEAVY DUTY ROUND NICKEL BRONZE TOP RECESSED FOR TILE. <u>ZURN - ZN1400-BP-HD-X</u>
FCO	TERRAZZO FLOOR: HEAVY DUTY ROUND NICKEL BRONZE TOP RECESSED FOR TERRAZZO. <u>ZURN - ZN1400-BP-HD-Z</u>
GCO	EXTERIOR: HEAVY DUTY ROUND SCORIATED NICKEL BRONZE TOP. PROVIDE WITH 18" SQUARE X 4" THICK CONCRETE COLLAR. <u>ZURN - ZN1406-BP-HD</u>
WCO	WALL: DURA-COATED CAST IRON CLEANOUT TEE, BRONZE COUNTERSUNK PLUG, WITH ROUND POLISHED STAINLESS STEEL COVER. <u>ZURN - Z1446-BP</u>

PLUMBING SPECIFICATIONS

1	ALL PLUMBING WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR. ALL WORK SHALL CONFORM TO THE 2023 FBC-PLUMBING, AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES.
2	ABOVE & BELOW GROUND DOMESTIC VENT PIPING AND SANITARY PIPING SHALL BE SCHEDULE 40 PVC OF SIZE INDICATED ON PLAN VIEWS. PIPING SHALL BE SLOPED IN ACCORDANCE WITH FLORIDA BUILDING CODE, PLUMBING AND PROVIDED WITH SOLVENT WELDED FITTINGS. PROVIDE TRANSITION FITTINGS AND METAL TO PLASTIC FITTINGS AND APPURTENANCES WHERE REQUIRED TO CONNECT TO PLUMBING FIXTURES AS INDICATED ON PLAN VIEWS.
3	DOMESTIC HOT AND COLD WATER PIPING SHALL BE ASTM 888 TYPE 1.1" COPPER PIPING OF SIZE INDICATED ON PLAN VIEWS. PIPING CONNECTIONS SHALL BE WROUGHT COPPER AND SOLDERED WITH SOLDER MATERIALS SUITABLE FOR USE IN POTABLE WATER SYSTEMS AND APPROVED FOR USE BY THE FLORIDA BUILDING CODE, PLUMBING. PROVIDE TRANSITION FITTINGS AND METAL TO PLASTIC FITTINGS AND APPURTENANCES WHERE REQUIRED. ADDITIONALLY, PROVIDE SOLDERED AND THREADED NIPPLES, COUPLINGS, OR OTHER PIPING COMPONENTS REQUIRED TO CONNECT TO PLUMBING FIXTURES AS INDICATED ON PLAN VIEWS. ALL PIPING AND MATERIALS SHALL BE SUITABLE FOR USE IN POTABLE WATER SYSTEMS. CLEAN WATER PIPING AS IT IS INSTALLED AND KEEP CAPPED TO ENSURE DEBRIS AND DIRT DO NOT CONTAMINATE PIPING PRIOR TO PLACING IN SERVICE.
4	CLEAN AND DISINFECT PIPING PRIOR TO PLACING IN SERVICE ACCORDING TO THE FOLLOWING: 4.1 COMPLETELY FLUSH SYSTEM WITH CLEAN WATER UNTIL ALL DIRT AND DEBRIS ARE REMOVED AND CLEAN WATER FLOWS FREELY. 4.2 ISOLATE AND FILL SYSTEM WITH A LEAST 50 PPM CHLORINE AND LET STAND FOR A MINIMUM OF 24-HOURS. 4.3 REMOVE WATER AND ISOLATE AND FILL SYSTEM WITH 200 PPM CHLORINE AND LET STAND FOR A MINIMUM OF 3-HOURS. 4.4 FLUSH SYSTEM WITH CLEAN POTABLE WATER UNTIL CHLORINE IS NO LONGER IN SYSTEM.
4.5	SUBMIT WATER SAMPLES TO THE AUTHORITY HAVING JURISDICTION, WHERE WATER IS FOUND TO BE UNACCEPTABLE, REPEAT PROCEDURES UNTIL WATER MEETS REQUIREMENTS.
4.6	PROVIDE AND SUBMIT REPORTS OF DISINFECTION PROCEDURES.
5	PROVIDE DIELECTRIC UNIONS AND FLANGE KITS FOR CONNECTIONS OF DISSIMILAR METALS.
6	DOMESTIC HOT WATER AND HOT WATER RETURN PIPING SHALL BE INSULATED WITH A MINIMUM 2" PREFORMED FIBERGLASS PIPING INSULATION WITH AN ALL SERVICE JACKETING AND AS/1 TAPED SEAMS. PROVIDE PVC CORNER ANGLES FOR PIPING ELBOWS. INSULATION SHALL HAVE AN INSTALLED CONDUCTIVITY OF 0.24 BTU-IN/(H ² SE" F). THIS SHALL INCLUDE EXISTING DOMESTIC HOT WATER PIPING.
7	ISOLATION VALVES FOR DOMESTIC WATER PIPING SHALL BE BRONZE, SINGLE PIECE, FULL PORT VALVES SUITABLE FOR USE IN POTABLE DOMESTIC WATER LINES AND COPPER PIPING. PROVIDE WITH STAINLESS STEEL TRIM.
8	PIPING SHALL BE SUPPORTED WITH TRAPEZE HANGERS SUPPORTED WITH THREADED ROD FROM STRUCTURE, OR FROM CLEVIS HANGERS. ALL SHALL MEET UL REQUIREMENTS AND MSS PIPING STANDARDS.
9	FLOOR CLEANOUTS SHALL MEET THE FOLLOWING REQUIREMENTS: 9.1 FLOOR: HEAVY DUTY ROUND SCORIATED NICKEL BRONZE TOP. 9.2 CARPETED FLOOR: HEAVY DUTY ROUND NICKEL BRONZE TOP RECESSED FOR CARPET. 9.3 TILE FLOOR: HEAVY DUTY ROUND SCORIATED NICKEL BRONZE TOP. PROVIDE WITH 18" SQUARE, 4" THICK COLLAR.
9.4	WOOD FLOOR: LACQUERED CAST IRON WITH 1-1/2" SECURING FLANGE AND A SATIN FINISHED NICKEL BRONZE COMBINED GASKETED ACCESS COVER AND PLUG.
10	CHECK VALVES SHALL BE SWING CHECK SUITABLE FOR USE IN DOMESTIC WATER LINES AND COPPER PIPING.

PLUMBING FIXTURE SCHEDULE:

(EWC-1)	PROVIDE A ELKAY MODEL LZST8C ELECTRIC WATER COOLER, OR EQUAL. TYPE 304 STAINLESS STEEL WATER COOLER POLISHED TO A #4 SATIN FINISH WITH DUAL HEIGHT RECEPTOR, SELF CLOSING FRONT AND SIDE MOUNTED PUSH BUTTON TYPE BUBBLERS, STRAINER AND TAILPIECE. SURFACE MOUNTED REFRIGERANT CHILLER UNIT CAPABLE OF 8 GPH OF 50°F AT AN AMBIENT TEMPERATURE OF 90°F. ELECTRICAL CHARACTERISTICS: 115V AC, 60HZ, SINGLE PHASE. PROVIDE APRON UNDER UNIT AS REQUIRED TO MEET ADA REQUIREMENTS. UNIT TO BE COMPLETE WITH WATER SENTRY VII FILTER WITH 1,500 GALLON CAPACITY TO REMOVE CYSTS, LEAD AND CHLORINE. PROVIDE CHROME PLATED 17 GAUGE 1-1/4 X 1-1/2 BRASS P-TRAP WITH CLEANOUT. PROVIDE INLET WITH ANGLE SUPPLY STOP WITH 1/2" IPS INLET AND 3/8" IPS OUTLET WITH 12" S.S. FLEXIBLE RISER WITH REDUCER BUSHINGS, BRASS STEM, METAL STUFFING BOX, AND ESCUTCHEONS. WATER COOLER AND ASSOCIATED APPURTENANCES SHALL BE ADA COMPLIANT. PROVIDE FULLY ADJUSTABLE FLOOR MOUNTED URINAL CARRIER WITH HANGER AND BEARING PLATES, ADJUSTED TO ADA HEIGHT EQUAL TO ZURN Z1225-BL.
(FD-1)	PROVIDE A ZURN MODEL Z415B-VP FLOOR DRAIN OR EQUAL. FLOOR DRAIN SHALL HAVE A COATED CAST IRON BODY, BOTTOM OUTLET, COMBINATION REVERSIBLE CLAMP COLLAR AND ADJUSTABLE ROUND HEEL PROOF NICKEL BRONZE STRAINER, 3" OUTLET, 6" ROUND TOP, AND VANDAL PROOF. PROVIDE WITH DEEP SEAL TRAP AND TRAP PRIMER CONNECTION.
(HB-1)	PROVIDE A WOODFORD MODEL 24-34" EXPOSED BRASS HOSE BIBB OR EQUAL. HOSE BIBB TO HAVE VACUUM BREAKER BACKFLOW PREVENTER, 3/4" FEMALE PIPE THREAD CONNECTION AND ALL METAL WHEEL HANDLE. MOUNT HB 18" ABOVE FINISHED FLOOR.
(L-1)	PROVIDE A KOHLER MODEL K-2031 VITREOUS CHINA WALL HUNG LAVATORY WITH FLOOR MOUNTED CONCEALED ARM CARRIER, OVERFLOW AND SINGLE FAUCET HOLE OR EQUAL. PROVIDE CHROME PLATED 17 GAUGE 1-1/4 X 1-1/2 BRASS P-TRAP WITH CLEANOUT EQUAL TO PROFLOW MODEL PFFTBT104. PROVIDE OFFSET LAVATORY GRID DRAIN EQUAL TO PROFLO MODEL PFGd101. PROVIDE A CHICAGO FAUCETS MODEL 3510-E2805AB SINGLE-HOLE AND SINGLE SUPPLY FAUCET. FAUCET TO HAVE SINGLE LEVER HANDLE, STAINLESS STEEL HOSE AND 0.5 GPM VANDAL PROOF NON-ERATING LAMINAR FLOW OUTLET. PROVIDE A ZURN MODEL ZW3870XL THERMOSTATIC MIXING VALVE (ASME 1070 COMPLIANT), SET OUTLET TO 105°. PROVIDE COLD & HOT WATER INLETS WITH 1/4 TURN ANGLE BALL STOPS WITH 1/2" IPS SWEAT INLET AND 3/8" IPS COMPRESSION OUTLET EQUAL TO BRASSCRAFT MODEL KTR19X. STOPS TO BE ALL BRASS WITH REMOVABLE HANDLE RATED FOR TEMPERATURES GREATER THAN 115 DEG F. PROVIDE STOPS WITH CHROME WALL ESCUTCHEON AND STAINLESS STEEL FLEXIBLE SUPPLIES FROM STOPS TO MIXING VALVE AND FROM MIXING TO FAUCET INLET. PROVIDE FULLY ADJUSTABLE CONCEALED ARM, FLOOR MOUNTED LAVATORY CARRIER, ADJUSTED TO ADA HEIGHT EQUAL TO ZURN Z1231. PROVIDE HANDICAP INSULATION. LAVATORY AND ASSOCIATED APPURTENANCES SHALL BE ADA COMPLIANT.
(L-2)	PROVIDE A KOHLER MODEL K-2196 VITREOUS CHINA COUNTER MOUNTED LAVATORY WITH OVERFLOW AND SINGLE FAUCET HOLE OR EQUAL. PROVIDE CHROME PLATED 17 GAUGE 1-1/4 X 1-1/2 BRASS P-TRAP WITH CLEANOUT EQUAL TO PROFLOW MODEL PFFTBT104. PROVIDE A CHICAGO FAUCETS MODEL 3510-E2805AB SINGLE-HOLE AND SINGLE SUPPLY FAUCET. FAUCET TO HAVE SINGLE LEVER HANDLE, STAINLESS STEEL HOSE AND 0.5 GPM VANDAL PROOF NON-ERATING LAMINAR FLOW OUTLET. PROVIDE A ZURN MODEL ZW3870XL THERMOSTATIC MIXING VALVE (ASME 1070 COMPLIANT), SET OUTLET TO 105°. PROVIDE COLD & HOT WATER INLETS WITH 1/4 TURN ANGLE BALL STOPS WITH 1/2" IPS SWEAT INLET AND 3/8" IPS COMPRESSION OUTLET EQUAL TO BRASSCRAFT MODEL KTR19X. STOPS TO BE ALL BRASS WITH REMOVABLE HANDLE RATED FOR TEMPERATURES GREATER THAN 115 DEG F. PROVIDE STOPS WITH CHROME WALL ESCUTCHEON AND STAINLESS STEEL FLEXIBLE SUPPLIES FROM STOPS TO MIXING VALVE AND FROM MIXING TO FAUCET INLET.
(MS-1)	PROVIDE A FIAT MODEL TS83000 24"x 24"x12" TERRAZZO MOP SINK WITH 6" DROP FRONT AND STAINLESS STEEL CAPS, OR EQUAL. MOP SINK TO BE COMPLETE WITH INTEGRAL STAINLESS STEEL DRAIN BODY AND STAINLESS STEEL CAPS ON ALL CURBS. PROVIDE MOP HANGER CONSISTING OF 24"x3" WIDE STAINLESS STEEL PLATE WITH 3 RUBBER TOOL GRIPS, HOSE AND HOSE BRACKET, AND FIAT MODEL MSG2424 24"x24" STAINLESS STEEL WALL GUARD ON 2 SIDES. PROVIDE A CHICAGO FAUCETS MODEL 445-8975RXKCCP CHROME PLATED BRASS FAUCET OR EQUAL. FAUCET TO BE COMPLETE WITH VACUUM BREAKER, INTEGRAL CHECK STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK, AND 3/4 INCH HOSE THREAD ON SPOUT.
(OB-1)	PROVIDE A GUY GRAY MODEL FRIB125 FIRE RATED RECESSED SUPPLY BOX WITH WALL FLANGE. FURNISH WITH 1/2" X 1/4" QUARTER TURN ANGLE VALVE. SUPPLY BOX DIMENSIONS TO BE A MAXIMUM 6" X 6". ON THE LEAVING SIDE OF THE VALVE, PROVIDE A 4 FOOT COIL OF ROLL TYPE "K" SOFT COPPER. MOUNT BOX BEHIND EQUIPMENT, COORDINATE MOUNTING HEIGHT WITH EQUIPMENT PRIOR TO ROUGH-IN. WHERE REQUIRED BY CODE, PROVIDE A WATTS MODEL SD-3 BACKFLOW PREVENTER ON OUTLET SIDE OF OUTLET BOX PRIOR TO CONNECTING TO EQUIPMENT.
(S-1)	PROVIDE A ELKAY MODEL LR3319 STAINLESS STEEL DOUBLE BOWL, TOP MOUNT SINK OR EQUAL. SINK TO BE 18 GAUGE TYPE 304 STAINLESS STEEL, "33"x19-1/2" OVERALL, EACH BOWL SIZE = 14"x14"x7-5/8" DEEP, PUNCHED FOR 3 HOLES, AND POLISHED TO A SATIN FINISH. SINK TO COME COMPLETE WITH TWO ELKAY LK-35 STAINLESS STEEL DRAINS. PROVIDE A CHICAGO FAUCETS MODEL 786-GN8AE35-369AB SWING GOOSENECK FAUCET. FAUCET TO HAVE LEVER HANDLES, 1.5 GPM SOFT FLO OUTLET, AND 8" RIDGIDSWING GOOSENECK SPOUT. PROVIDE COLD WATER AND HOT WATER INLETS WITH 1/4 TURN ANGLE BALL STOPS WITH 1/2" IPS INLET AND 3/8" IPS OUTLET EQUAL TO BRASSCRAFT MODEL KTR19X. STOPS TO BE ALL BRASS WITH REMOVABLE HANDLE AND RATED FOR TEMPERATURES GREATER THAN 115 DEG F. PROVIDE STOPS WITH CHROME WALL ESCUTCHEONS AND STAINLESS STEEL FLEXIBLE SUPPLIES FROM STOPS TO FAUCET. PROVIDE CHROME PLATED DOUBLE BOWL DRAIN FITTING EQUAL TO ELKAY MODEL LK63 AND A CHROME PLATED 17 GAUGE 1-1/2" X 1-1/2" P-TRAP WITH CLEANOUT.
(TP-1)	PROVIDE A PRECISION PLUMBING PRODUCTS MODEL PR01-500 OR EQUAL. TRAP PRIMER TO BE INLINE, FLOW ACTIVATED AND ALL BRASS CONSTRUCTION. PROVIDE A PRECISION PLUMBING PRODUCTS DISTRIBUTION UNIT MODEL DU-U FOR PRIMING 2 TO 4 TRAPS AS REQUIRED.
(TP-1)	PROVIDE A PRECISION PLUMBING PRODUCTS MODEL P2-500 (1 TO 2 TRAPS) OR P1-500 (3 TO 4 TRAPS) OR EQUAL. TRAP PRIMER TO BE ALL BRASS CONSTRUCTION. INSTALL ISOLATION BALL VALVE ON INLET OF TRAP PRIMER. PROVIDE A PRECISION PLUMBING PRODUCTS DISTRIBUTION UNIT MODEL DU-U FOR PRIMING 2 TO 4 TRAPS.
(U-1)	PROVIDE A KOHLER MODEL K-4991-ET VITREOUS CHINA, 0.5 GALLON PER FLUSH WALL HUNG, WASHOUT URINAL WITH INTEGRAL FLUSHING RIM, INTEGRAL TRAP, WALL HANGERS, AND 2 INCH FEMALE FLANGED OUTLET CONNECTION OR EQUAL. URINAL TO HAVE TOP SPUD CONNECTION WITH MANUAL VALVE ASSEMBLY. PROVIDE URINAL WITH A 0.5 GALLON CHROME PLATED, PISTON TYPE, EXPOSED FLUSH VALVE WITH METAL OSCILLATING NON-HOLD OPEN HANDLE, 3/4" IPS SCREW DRIVER ANGLE STOP, PROTECTIVE CAP, ADJUSTABLE TAIL PIECE, VACUUM BREAKER, FLUSH CONNECTION, ADA COMPLIANT HANDLE, SPUD COUPLING FOR 3/4" TOP SPUD, WALL AND SPUD FLANGES EQUAL TO KOHLER MODEL K-76318. PROVIDE FULLY ADJUSTABLE FLOOR MOUNTED URINAL CARRIER WITH HANGER AND BEARING PLATES, ADJUSTED TO ADA HEIGHT EQUAL TO ZURN Z1222. URINAL, ASSOCIATED APPURTENANCES AND INSTALLATION SHALL BE ADA COMPLIANT.
(WC-1)	PROVIDE A KOHLER MODEL K-96057-B VITREOUS CHINA FLUSHOMETER TYPE, ADA COMPLIANT FLOOR MOUNTED, 1.28 GPF WATER CLOSET WITH ELONGATED BOWL AND TOP SPUD CONNECTION, OR EQUAL. PROVIDE WC WITH A 1.28 GALLON CHROME PLATED, PISTON TYPE, EXPOSED FLUSH VALVE WITH METAL OSCILLATING NON-HOLD OPEN HANDLE, 1" IPS SCREW DRIVER ANGLE STOP, PROTECTIVE CAP, ADJUSTABLE TAIL PIECE, VACUUM BREAKER, FLUSH CONNECTION, ADA COMPLIANT HANDLE, SPUD COUPLING FOR 1-1/2" TOP SPUD, WALL AND SPUD FLANGES EQUAL TO KOHLER MODEL K-13617. MOUNT TOP OF FLUSH VALVE BELOW GRAB BAR OR PROVIDE OFFSET FOR GRAB BAR AS REQUIRED. PROVIDE WITH AN EXTRA HEAVY SOLID PLASTIC SEAT WITH AN OPEN FRONT AND SELF-SUSTAINING STAINLESS STEEL CHECK HINGES EQUAL TO BEMIS 165SSSCT. PROVIDE HEAVY DUTY CLOSET FLANGE, WATER CLOSET AND ASSOCIATED APPURTENANCES SHALL BE ADA COMPLIANT.
(WC-2)	PROVIDE A KOHLER MODEL K-96053 VITREOUS CHINA FLUSHOMETER TYPE, FLOOR MOUNTED, 1.28 GPF WATER CLOSET WITH ELONGATED BOWL AND TOP SPUD CONNECTION, OR EQUAL. PROVIDE WC WITH A 1.28 GALLON CHROME PLATED, PISTON TYPE, EXPOSED FLUSH VALVE WITH METAL OSCILLATING NON-HOLD OPEN HANDLE, 1" IPS SCREW DRIVER ANGLE STOP, PROTECTIVE CAP, ADJUSTABLE TAIL PIECE, VACUUM BREAKER, FLUSH CONNECTION, ADA COMPLIANT HANDLE, SPUD COUPLING FOR 1-1/2" TOP SPUD, WALL AND SPUD FLANGES EQUAL TO KOHLER MODEL K-13617. PROVIDE WITH AN EXTRA HEAVY SOLID PLASTIC SEAT WITH AN OPEN FRONT AND SELF-SUSTAINING STAINLESS STEEL CHECK HINGES EQUAL TO BEMIS 165SSSCT. PROVIDE HEAVY DUTY CLOSET FLANGE.
(WH-1)	PROVIDE A WOODFORD MODEL 67 FREEZELESS WALL HYDRANT. HYDRANT TO BE FREEZELESS, AUTOMATIC DRAINING WITH BACKFLOW PREVENTER, 3/4" INLET AND OUTLET, LOOSE KEY OPERATION AND CHROME PLATED FINISH. COORDINATE WITH WALL THICKNESS PRIOR TO ORDERING.

GENERAL PLUMBING NOTES

THESE GENERAL NOTES APPLY TO THE CONTRACTOR HOLDING THE GENERAL CONTRACT AS WELL AS ALL OTHER SUB CONTRACTORS AND AGENTS REQUIRED TO PERFORM WORK ON THIS PROJECT.	
1	TOMAHAWK ENGINEERING AND CONSULTING, INC. SHALL NOT BE HELD RESPONSIBLE FOR ANY MISUSE AND/OR MISREPRESENTATION OF THIS SET OF DOCUMENTS.
2	THE CONTRACTOR ASSUMES RESPONSIBILITY FOR USE OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL MAKE HIMSELF AWARE OF PROJECT CONDITIONS AND OWNER REQUIREMENTS PRIOR TO PROCUREMENT OF EQUIPMENT AND SERVICES. CHANGES IN PROJECT COST WILL NOT BE GRANTED DUE TO FIELD CONFLICTS AND/OR PROJECT CONDITIONS.
3	THIS SET OF DRAWINGS AND SPECIFICATIONS SHALL NOT BE CONSIDERED A SET OF CONSTRUCTION DOCUMENTS UNLESS A SIGNATURE AND DATE ARE AFFIXED TO THE DRAWINGS AND SPECIFICATIONS BY THE ENGINEER IN RESPONSIBLE CHARGE FOR THE GIVEN DISCIPLINE.
4	CONFLICTS BETWEEN THIS SET OF DRAWINGS AND THE CONTRACT SPECIFICATIONS SHALL BE RESOLVED BY THE ENGINEER OF RECORD. THE CONTRACTOR DOES NOT HAVE THE AUTHORITY TO INTERPRET CONFLICTS AND RESOLVE ISSUES WITHOUT WRITTEN DIRECTION FROM THE ENGINEER OF RECORD.
5	ANY CONFLICTS IN THE FIELD OR WITHIN THESE DOCUMENTS SHALL BE RECORDED AND PROVIDED TO THE ENGINEER OF RECORD ON THE CONTRACTOR'S STANDARD LETTERHEAD. WRITTEN DIRECTION RESOLVING CONFLICT WILL BE ISSUED BY THE ENGINEER OF RECORD.
6	WHERE THE CONTRACTOR DEVIATES FROM THIS SET OF CONSTRUCTION DOCUMENTS AND RESUBMISSION OF REVISED DRAWINGS IS REQUIRED BY THE PERMITTING OFFICE/OFFICIAL, A MINIMUM CHARGE OF \$750.00 PER AFFECTED DRAWING SHEET WILL BE BILLED TO THE CONTRACTOR. THE REVISED DRAWINGS WILL NOT BE PROVIDED AND/OR SUBMITTED TO THE PERMIT OFFICE UNTIL A PURCHASE ORDER OR SIGNED AGREEMENT IS ISSUED BY THE CONTRACTOR TO THE DESIGN PROFESSIONAL FOR WORK REQUIRED. THIS SHALL NOT APPLY TO UNRESOLVED CONDITIONS OR CHANGES REQUIRED FOR THE PROJECT THAT ARE NOT INITIATED BY THE CONTRACTOR.
7	DRAWINGS ARE DIAGRAMMATIC IN NATURE. PIPING SIZES, PIPING INVERTS, EQUIPMENT DIMENSIONS, MOUNTING HEIGHTS AND GENERAL ARRANGEMENT SHALL BE FIELD MEASURED AND VERIFIED PRIOR TO PROCUREMENT. ALL FITTINGS MAY NOT BE SHOWN. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL REQUIRED FITTINGS, TAPS FOR EXISTING SANITARY AND DOMESTIC PRESSURE PIPING, TRANSITIONS, FLEXIBLE CONNECTORS, VALVES, LABOR, OR ANY OTHER WORK INDICATED OR IMPLIED FOR A FULLY FUNCTIONAL SYSTEM.
8	WHERE APPLICABLE AND AVAILABLE, ACTUAL EQUIPMENT DRAWINGS ARE USED FOR SYMBOLS ON PLAN VIEWS AND IN DETAILS. HOWEVER, SIMPLE BLOCK DIAGRAMS WITH ESTIMATED DIMENSIONS ARE ALSO USED FOR PLAN VIEWS. WHERE EQUIPMENT OR DEVICES ARE NOT LABELED, INDUSTRY STANDARD TERMINOLOGY AND SYMBOLOGY SHALL APPLY.
9	THE CONTRACTOR SHALL MAKE HIS OR HERSELF AWARE OF THE OWNER'S SCHEDULE AND BE PREPARED TO WORK AT NIGHT OR ON WEEKENDS TO COMPLETE WORK SHOWN IN THESE DOCUMENTS. INTERRUPTIONS TO OWNER'S NORMAL WORK SCHEDULE SHALL NOT BE MADE WITHOUT WRITTEN INSTRUCTION TO DO SO FROM OWNER'S REPRESENTATIVE.
10	FOR EQUIPMENT DEMOLISHED UNDER THIS CONTRACT, THE CONTRACTOR SHALL ALLOW THE OWNER FIRST REFUSAL OF DEMOLISHED EQUIPMENT. IF EQUIPMENT IS REFUSED, THE CONTRACTOR SHALL DISPOSE OF DEMOLISHED EQUIPMENT IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION. IN ADDITION, FOR EQUIPMENT INDICATED TO BE DEMOLISHED, THE CONTRACTOR SHALL ASSUME THAT THIS ALSO REQUIRES DEMOLITION OF ALL ASSOCIATED APPURTENANCES INCLUDING ELECTRICAL CONNECTIONS, CONTROLS CONNECTIONS, ETC.
11	THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO PROVIDE THE OWNER WITH A COMPLETE, FULLY OPERATIONAL SYSTEM. WORK AND COMPONENTS NOT INDICATED BUT IMPLIED SHALL BE PROVIDED AND BE PART OF THE CONTRACT. THE CONTRACTOR SHALL GUARANTY ALL LABOR AND EQUIPMENT ASSOCIATED WITH PROJECT FOR A MINIMUM OF 1-YEAR.
12	THE CONTRACTOR SHALL PROVIDE ALL CORES AND SAW CUTS FOR WALLS AND FLOORS AS REQUIRED TO INSTALL PIPING AND SERVICES AS INDICATED ON THESE DOCUMENTS. WHERE BUILDING SERVICES PENETRATE EXTERIOR WALL, SLEEVE AND SEAL WATER AND WEATHER TIGHT. THE CONTRACTOR SHALL MAKE THEMSELVES FAMILIAR WITH THE BUILDING SITE PRIOR TO PROVIDING A BID. EXTRAS FOR NOT FULLY UNDERSTANDING THE EXISTING CONDITIONS OR THIS SET OF DOCUMENTS WILL NOT BE GIVEN.
13	WORK SHALL CONFORM TO THE FLORIDA BUILDING CODE, 2023 AND ANY OTHER APPLICABLE STATE, LOCAL, AND/OR FEDERAL CODES AND LAWS.
14	THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND INSPECTIONS AND IS ALSO RESPONSIBLE FOR ALL ASSOCIATED FEES FOR SAID PERMITS AND INSPECTIONS.
15	SOME PIPING MAY BE LOCATED IN WALLS THAT ARE NOT ACCESSIBLE. THE CONTRACTOR SHALL INCLUDE IN THEIR COSTS, THE CUTTING AND PATCHING OF WALLS TO ACCESS PIPING AS REQUIRED TO MAKE TIE-INS AS INDICATED HEREIN.
16	THE CONTRACTOR IS RESPONSIBLE FOR THE ENTIRE SITE DURING CONSTRUCTION ACTIVITIES. AS SUCH, THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIONS AS REQUIRED BY LAW OR OWNER REQUIREMENTS. ANY DAMAGE DONE BY THE CONTRACTOR OR SUB OF SAID CONTRACTOR SHALL BE REPAIRED AT NO COST TO THE OWNER. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL BUILDING CONSTRUCTION AND ALL EQUIPMENT LOCATED WITHIN THE BUILDING OR ON SITE PREMISES.
17	WORK SHALL BE CARRIED OUT IN A NEAT WORKMAN LIKE MANNER. ALL CONSTRUCTION DEBRIS SHALL BE CLEANED UP AT THE END OF EVERY WORK DAY AND ALL CONSTRUCTION DUST SHALL BE VACUUMED UP AT THE END OF EVERY WORK DAY.
18	UNLESS NOTED OTHERWISE, ALL MATERIALS, EQUIPMENT, PIPING, FIXTURES, WIRING, CABLING, AND OTHER DEVICES REQUIRED FOR COMPLETION OF PROJECT SHALL BE NEW.
19	IN GENERAL, ITEMS SHOWN ON DRAWINGS LIGHTLY COMPARED TO OTHER COMPONENTS ARE EXISTING. WHERE ITEMS ARE NOT INDICATED EXPLICITLY TO BE DEMOLISHED, IT SHALL BE ASSUMED THAT THEY ARE TO REMAIN.
20	(2) COPIES OF OPERATION AND MAINTENANCE MANUALS FOR MATERIALS AND EQUIPMENT SHALL BE PROVIDED TO THE OWNER AT PROJECT COMPLETION.
21	THE CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR EXAMINING DRAWINGS (ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, STRUCTURAL AND CIVIL) AND ACTUAL SITE CONDITIONS PRIOR TO SUBMITTING BIDS. EXTRAS WILL NOT BE GIVEN DUE TO FAILURE TO UNDERSTAND ALL CONDITIONS INVOLVED OR DISCREPANCIES BETWEEN ACTUAL DIMENSIONS AND CONDITIONS AND DIMENSIONS AND CONDITIONS INDICATED ON PLANS. WORK SHALL BE MODIFIED AND PROVIDED AS REQUIRED BY FIELD CONDITIONS AND THIS ADDITIONAL WORK SHALL BE CARRIED OUT AT NO COST TO THE OWNER.
22	EQUIPMENT AND FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND STANDARD INDUSTRY PRACTICES. WHERE DISCREPANCIES BETWEEN CONTRACT DRAWINGS AND MANUFACTURER'S REQUIREMENTS ARISE, REQUEST CLARIFICATION FROM ENGINEER.
23	PRIOR TO START-UP, PERFORM MANUFACTURER'S START-UP AND CHECKOUT PROCEDURES AND ATTACH FORMS TO OPERATION AND MAINTENANCE MANUALS.
24	WHERE BUILDING SERVICES ARE DEMOLISHED, PATCH AND PAINT OPENINGS TO MATCH EXISTING CONSTRUCTION AND NEW FINISHES.
25	PROVIDE ACCESS DOORS FOR EQUIPMENT, DAMPERS, ETC. LOCATED ABOVE GYPSUM CEILINGS OR WITHIN WALLS REQUIRING ACCESS. DOOR SIZES SHALL SUIT EQUIPMENT SERVED.
26	TRAP PRIMERS TO BE PROVIDED ON ALL FLOOR DRAINS AND WHERE INDICATED ON FLOOR SINKS.
27	REFER TO MECHANICAL DETAILS AND VENDOR DRAWINGS FOR FURTHER INFORMATION REGARDING INSTALLATION AND CONNECTION OF VENDOR PROVIDED EQUIPMENT. CONTRACTOR SHALL PROVIDE ALL COMPONENTS REQUIRED FOR A FULLY FUNCTIONAL, LEAK FREE INSTALLATION.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BF	BELOW FLOOR
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
HB	HOSE BIBB
L	LAVATORY
MS	MOP SINK
OB	OUTLET BOX
S	SINK
SAN	SANITARY WASTE OUTSIDE THE BUILDING
TP	TRAP PRIMER
U	URINAL
V	VENT
W	SANITARY WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
(P)	PRESENT TO REMAIN
(PX)	PRESENT TO BE REMOVED

SYMBOLS LEGEND

	'DEMOLISH TO' SYMBOL
	'CONNECT TO' SYMBOL
	PLUMBING FIXTURE TAG
	EXISTING DCW PIPING
	DCW PIPING
	EXISTING DWH PIPING
	DHW PIPING
	EXISTING WASTE PIPING
	WASTE PIPING
	EXISTING VENT PIPING
	VENT PIPING
	ITEMS TO BE DEMOLISHED
	ROUND FLOOR DRAIN/SINK
	PIPE BREAK
	PIPE TURNED UP
	PIPE TURNED DOWN
	BOTTOM PIPE TAP
	PIPE CAP
	FLOOR OR GRADE CLEANOUT
	DIRECTION OF FLOW
	BALL VALVE
	RELIEF VALVE
	WATER HAMMER ARRESTOR

WATER HEATER SCHEDULE

EQUIPMENT NO.	MODEL NO.	FUEL SUPPLY (GAS OR ELEC)	STORAGE CAPACITY (GALLONS)	INPUT BTUH	INPUT KW	RECOVERY @ 60°F RISE (GALLONS)	TEMP. RISE @ 1.5 GPM	SET TEMP. °F	MIN. EFF.	VOLTS-PHASE	NOTES
EWH-1	DEL-30	ELEC	30	-	4.5	31	-	120	96%	240V-1Ø	1,2,3,4,5
EWH-2	UPVA-90E	ELEC	-	-	9.0	-	40°F	115	99%	240V-1Ø	1,6
NOTES:											
1.	BASIS OF DESIGN: A.O. SMITH (EQUAL MANUFACTURERS: BRADFORD WHITE, LOCHINVAR, STATE)										
2.	PROVIDE HEATER WITH A TEMPERATURE AND PRESSURE RELIEF VALVE SIZED BY THE UNIT MANUFACTURER.										
3.	PROVIDE UNIT WITH EXPANSION TANK (ET) FROM UNIT MANUFACTURER, SIZED BY UNIT MANUFACTURER.										
4.	PROVIDE WALL MOUNTING BRACKET AND DRAIN PAN, SEE WATER HEATER DETAIL 6/P1.1. MOUNT WITH BOTTOM OF PAN 84" AFF.										
5.	PROVIDE HEATER WITH A VACUUM BREAKER SIZED BY THE UNIT MANUFACTURER AS REQUIRED.										
6.	MOUNT WATER HEATER BELOW SINK.										

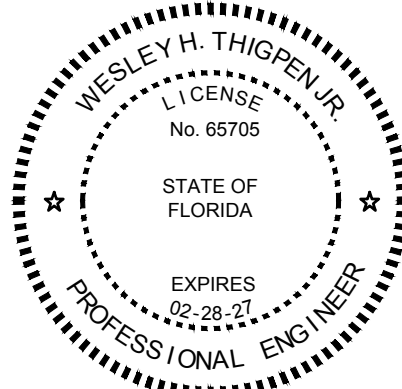
EXPANSION TANK SCHEDULE

EQUIPMENT NO.	SYSTEM SERVED	MODEL NO.	TANK VOLUME (GALLONS)	ACCEPTANCE FACTOR (%)	SYSTEM TEMP. MAX./MIN.	INITIAL FILL PRESSURE	ASME RATED	MAXIMUM SYSTEM PRESSURE	NOTES
ET-1	DOMESTIC HOT WATER	ST-5	2.0	45%	60°F/120°F	50 PSI	NO	150 PSI	1
NOTES:									
1.	BASIS OF DESIGN: AMTROL								



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RICHARD LINDBURG
PE# 62829
WESLEY THIGPEN, JR.
PE# 65705



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LEGEND, NOTES &
SCHEDULES -
PLUMBING

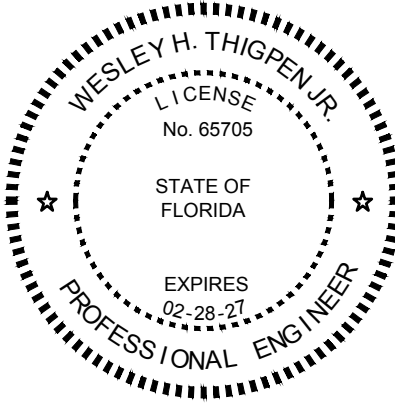
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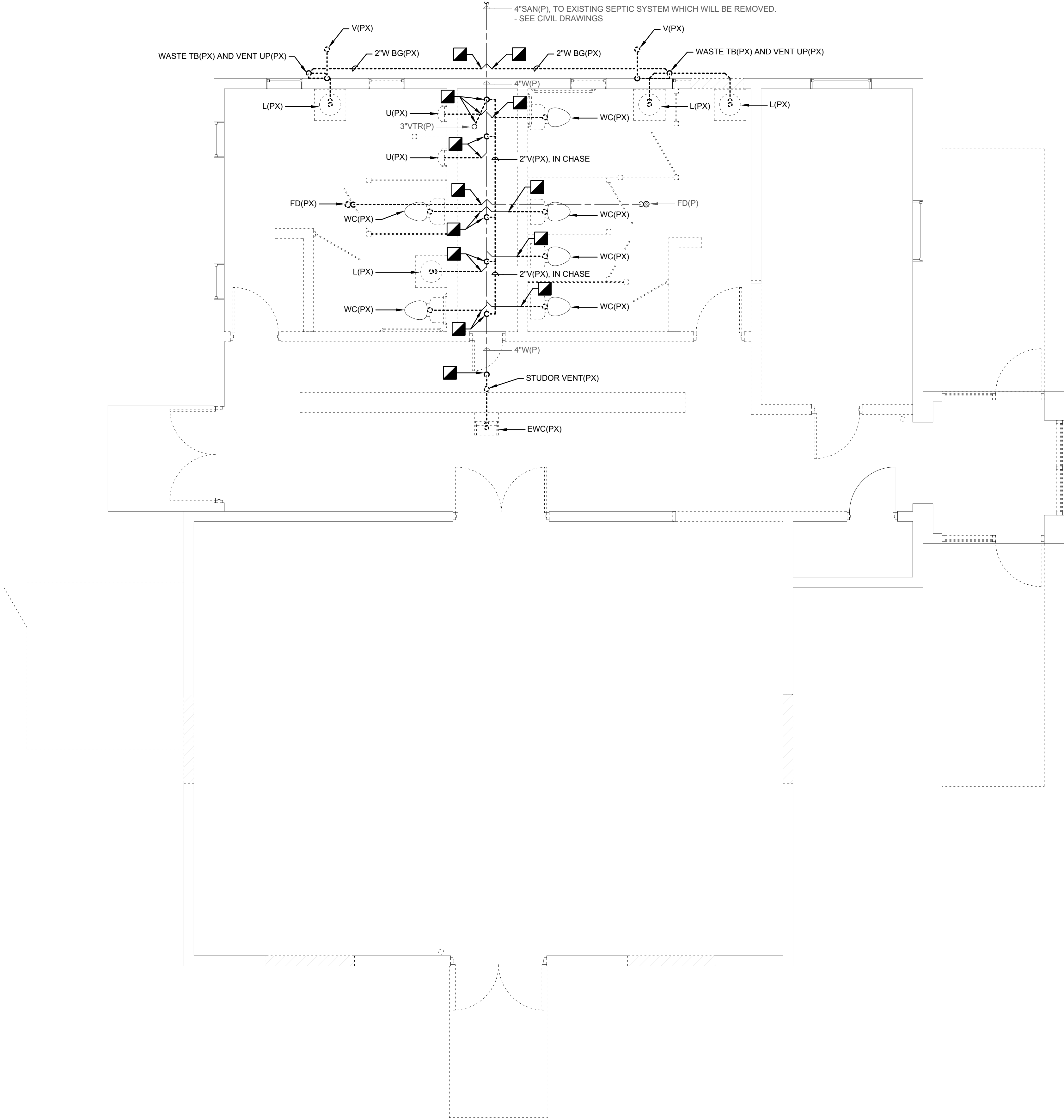
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FLOOR PLAN - AREA A -
DEMOLITION - GRAVITY
PLUMBING

Tallahassee Florida

PD1.1

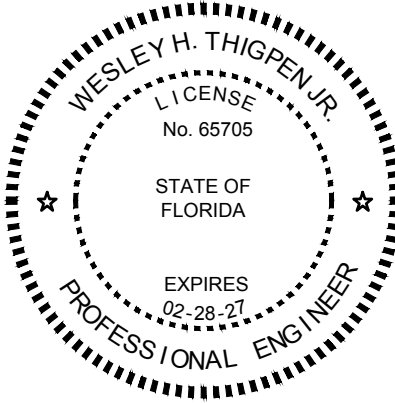
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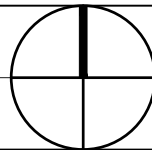
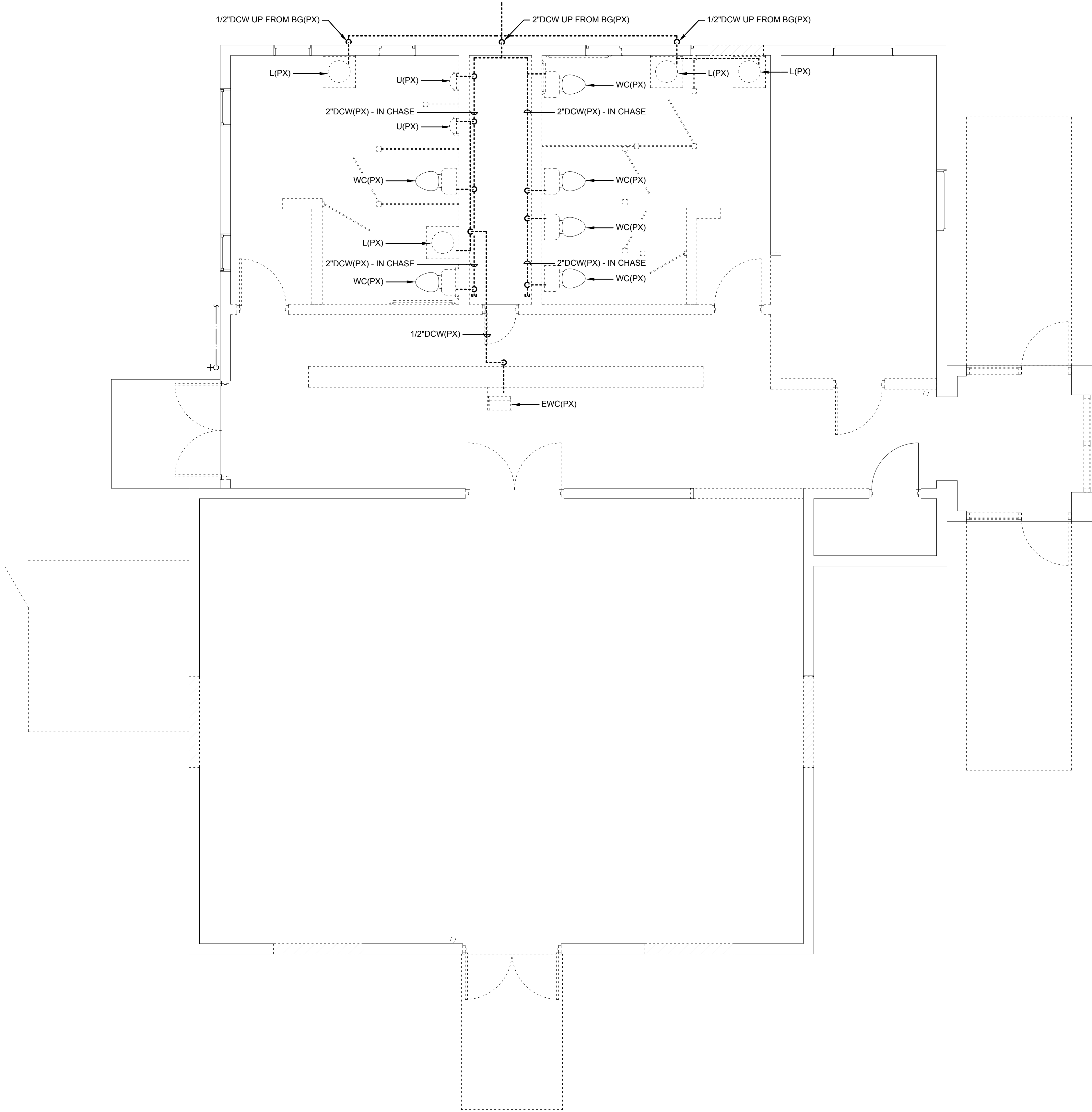
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FLOOR PLAN - AREA B -
DEMOLITION -
PRESSURE PLUMBING

Tallahassee Florida

PD2.1

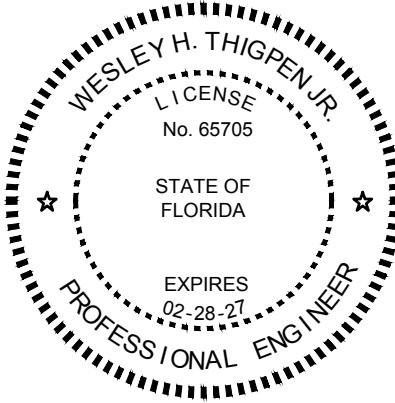
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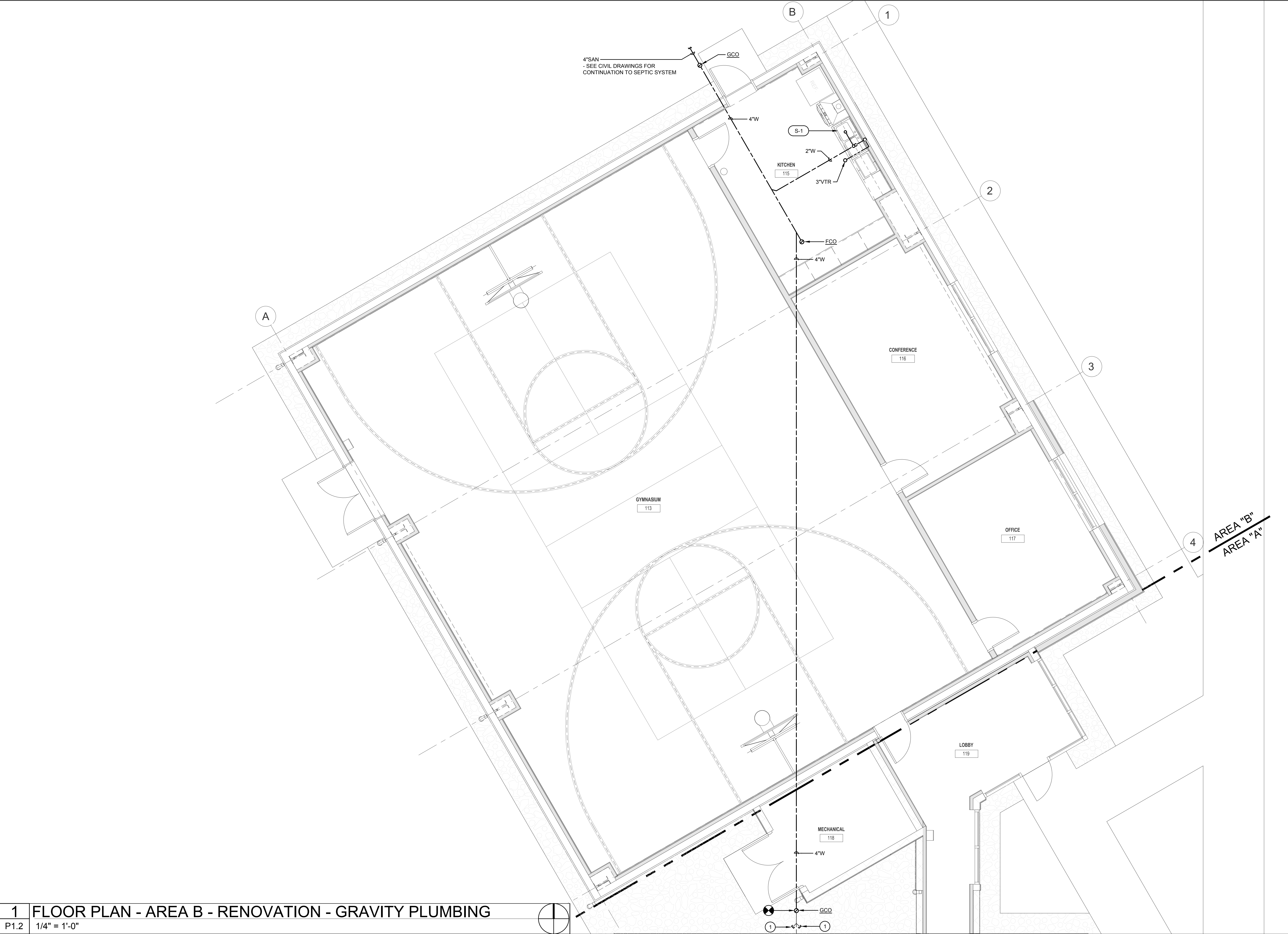
FLOOR PLAN - AREA A -
RENOVATION -
GRAVITY PLUMBING

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P1.1

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SHEET RENOVATION KEY NOTES:	
①	CAP EXISTING WASTE PIPING BELOW FLOOR AIR AND WATER TIGHT. PATCH FLOOR TO MATCH EXISTING AND NEW FINISHES.



1 FLOOR PLAN - AREA B - RENOVATION - GRAVITY PLUMBING
P1.2 1/4" = 1'-0"

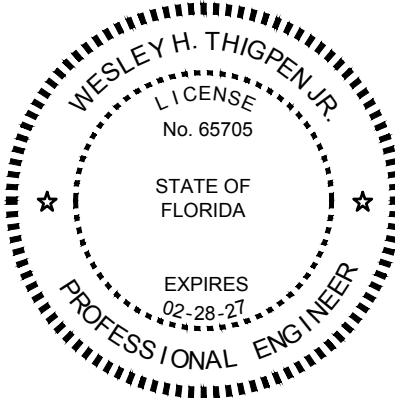
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FLOOR PLAN - AREA B -
RENOVATION -
GRAVITY PLUMBING

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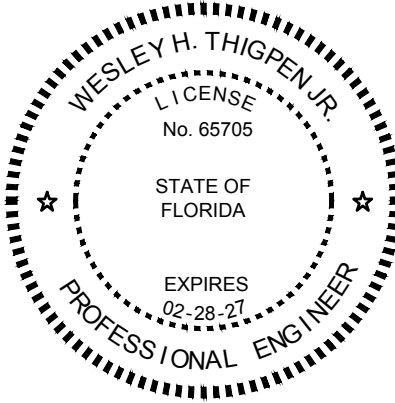
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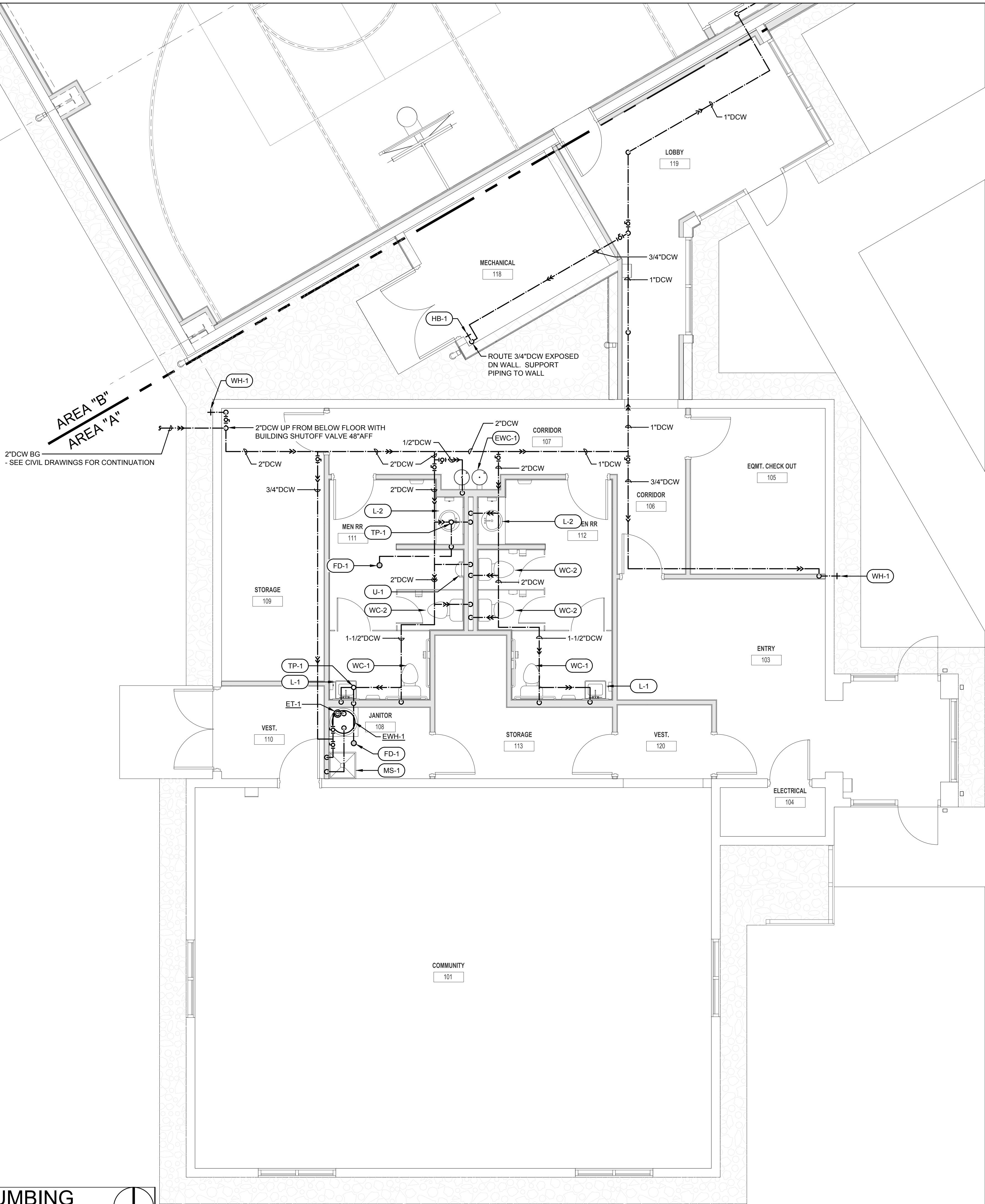
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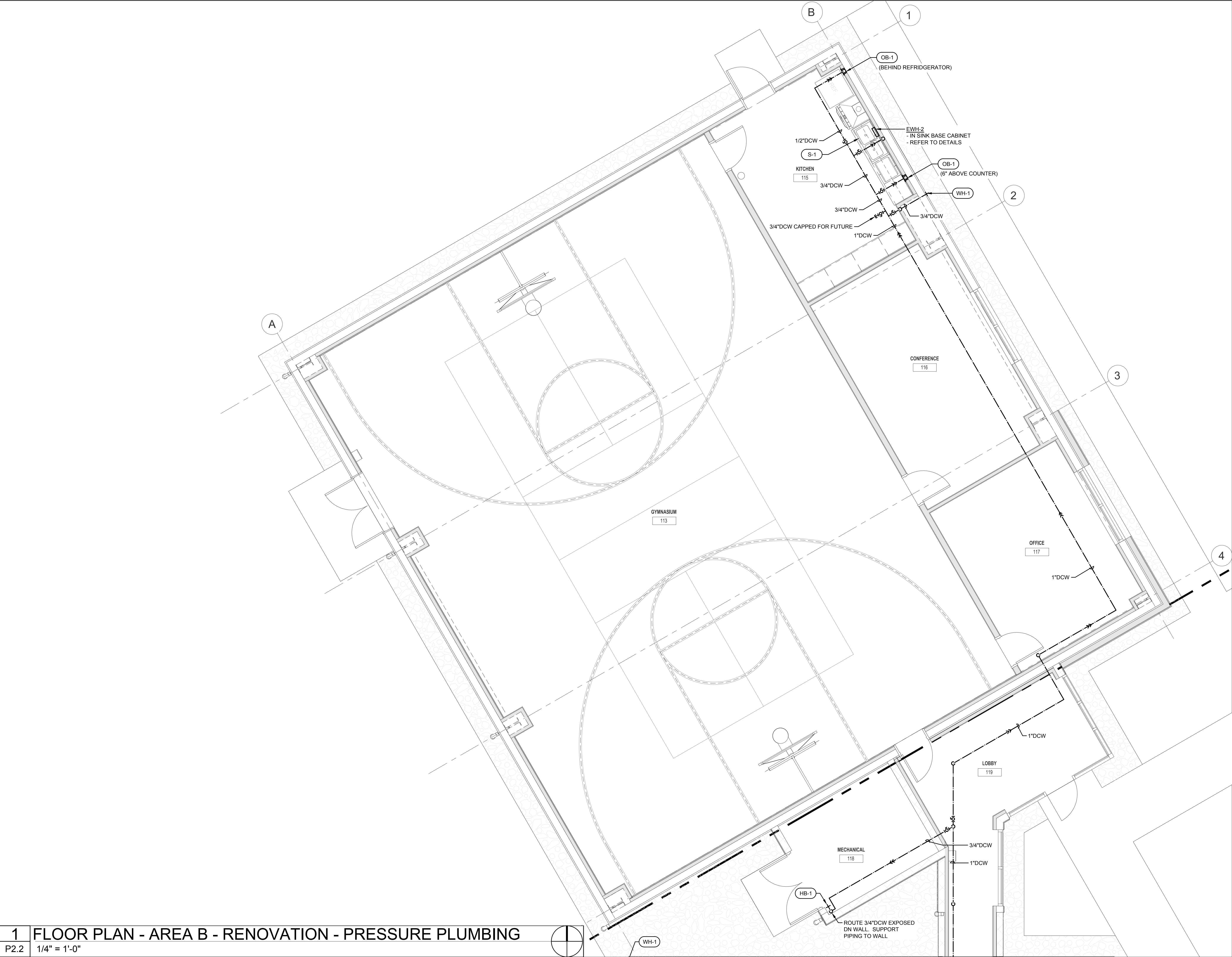
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RENOVATION -
PRESSURE PLUMBING

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P2.1

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1	FLOOR PLAN - AREA B - RENOVATION - PRESSURE PLUMBING
P2.2	1/4" = 1'-0"

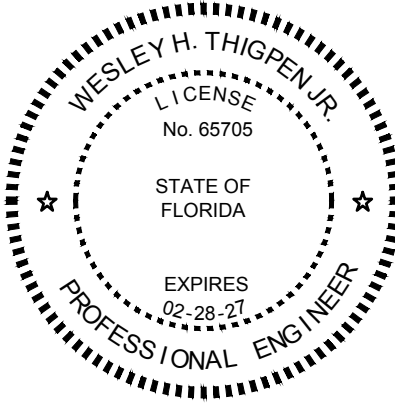
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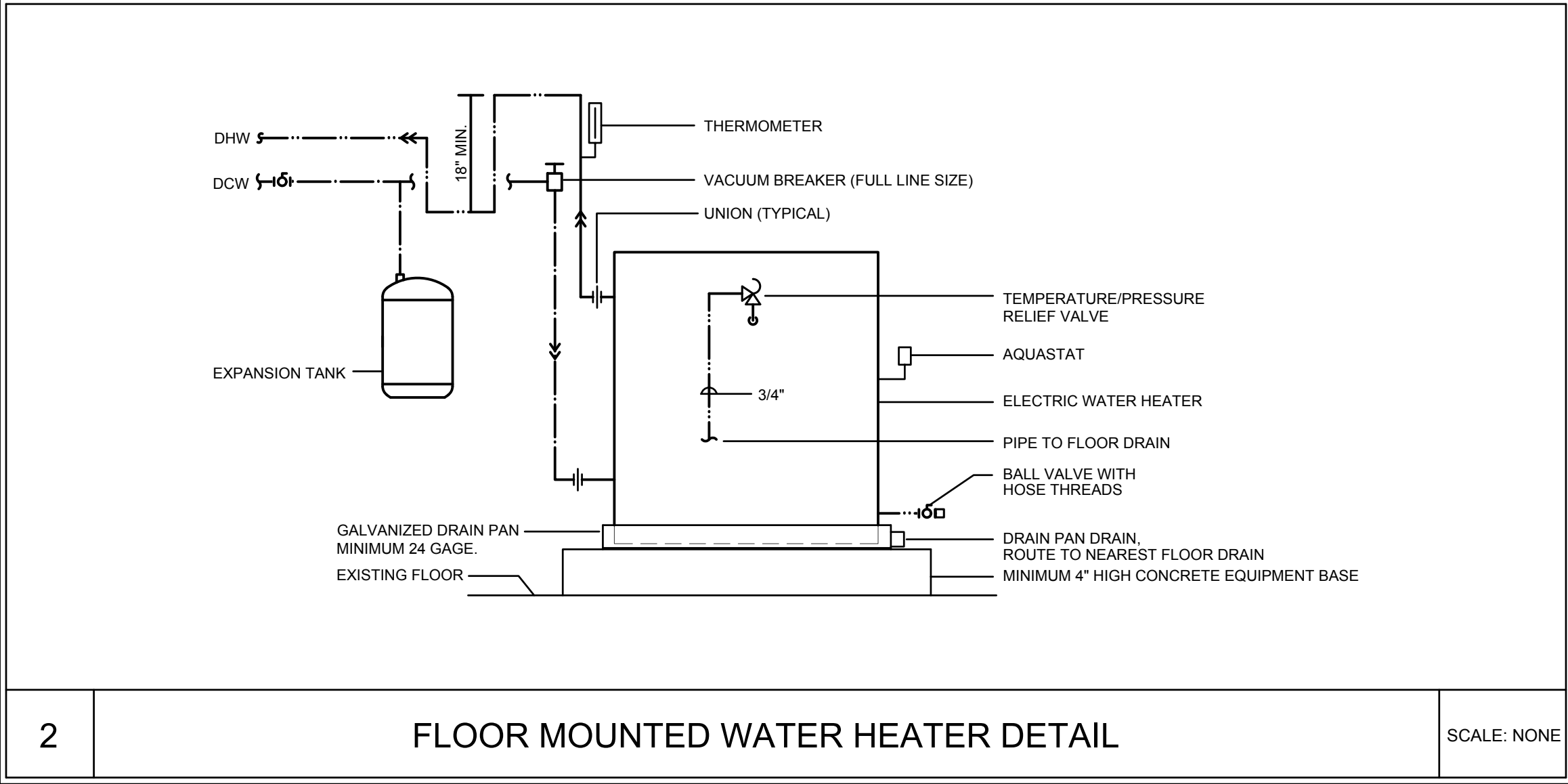
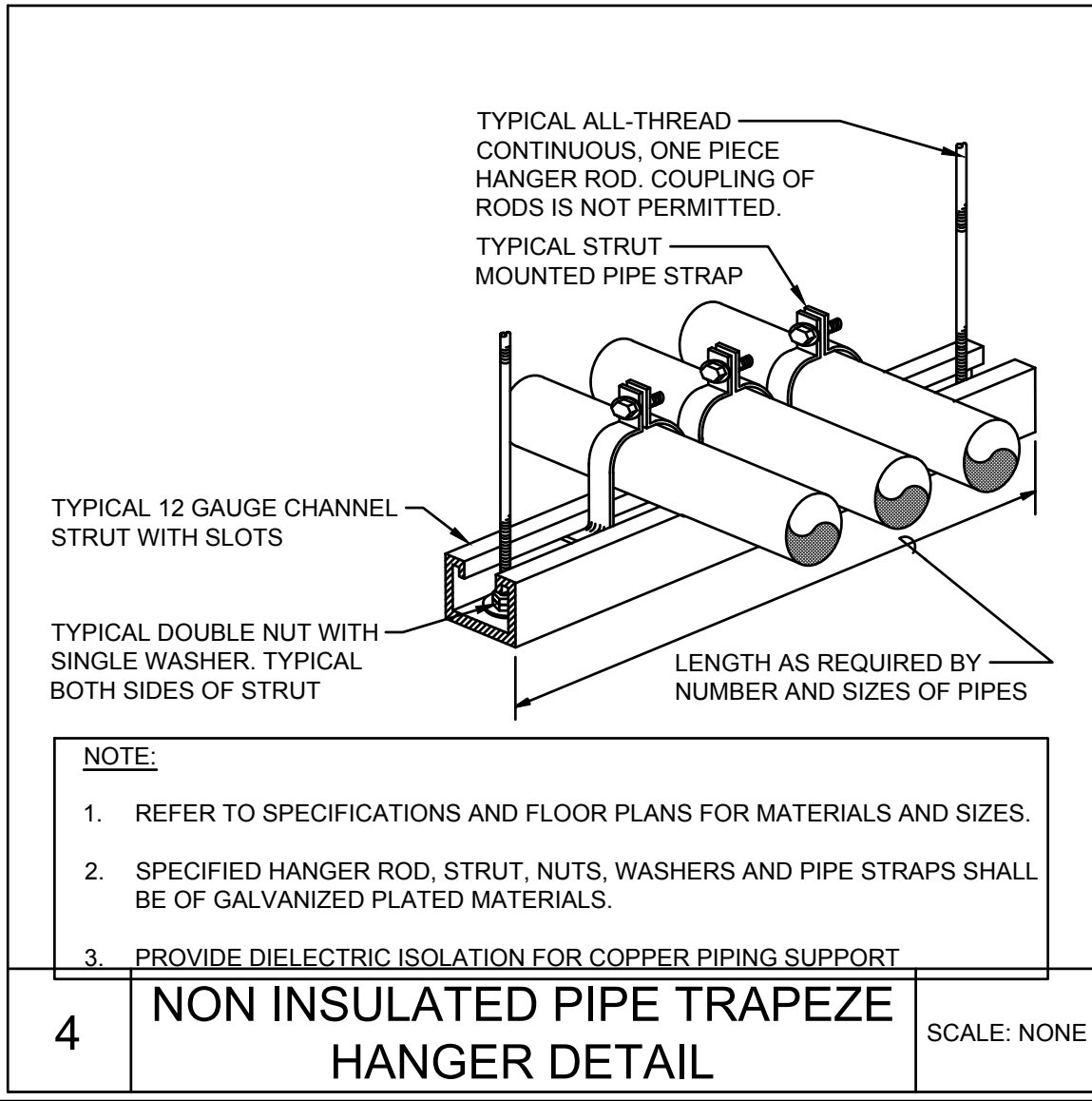
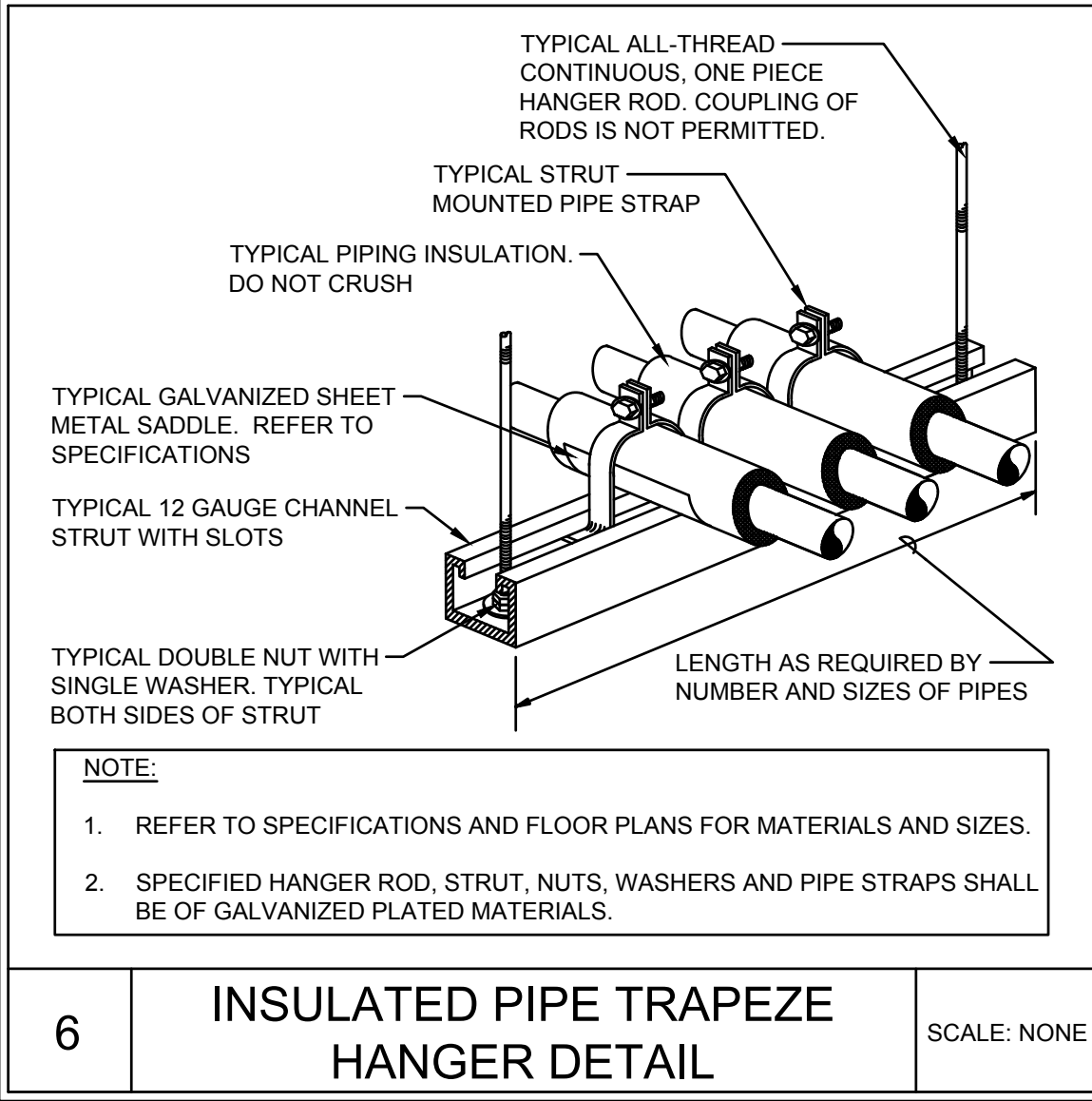
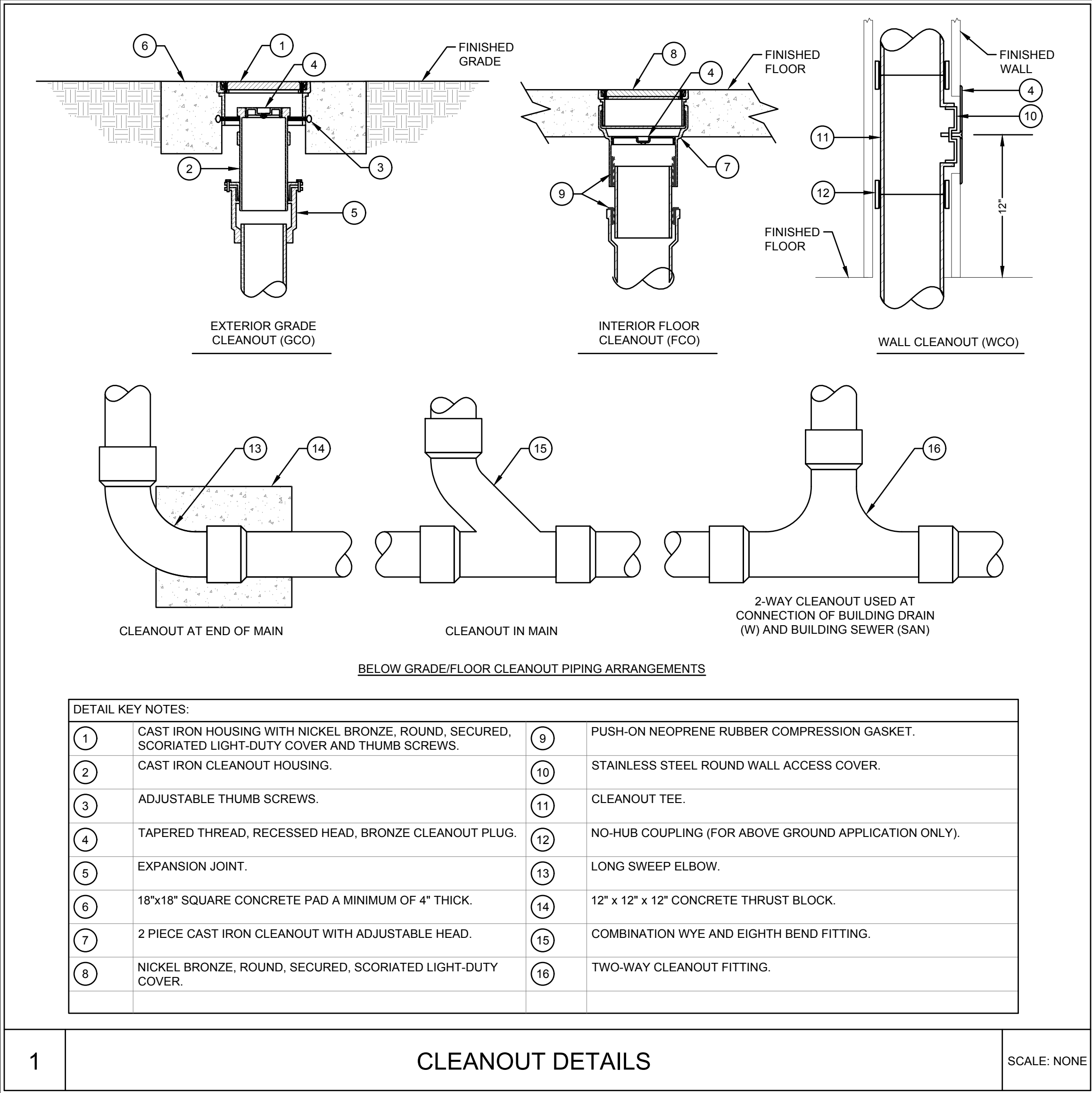
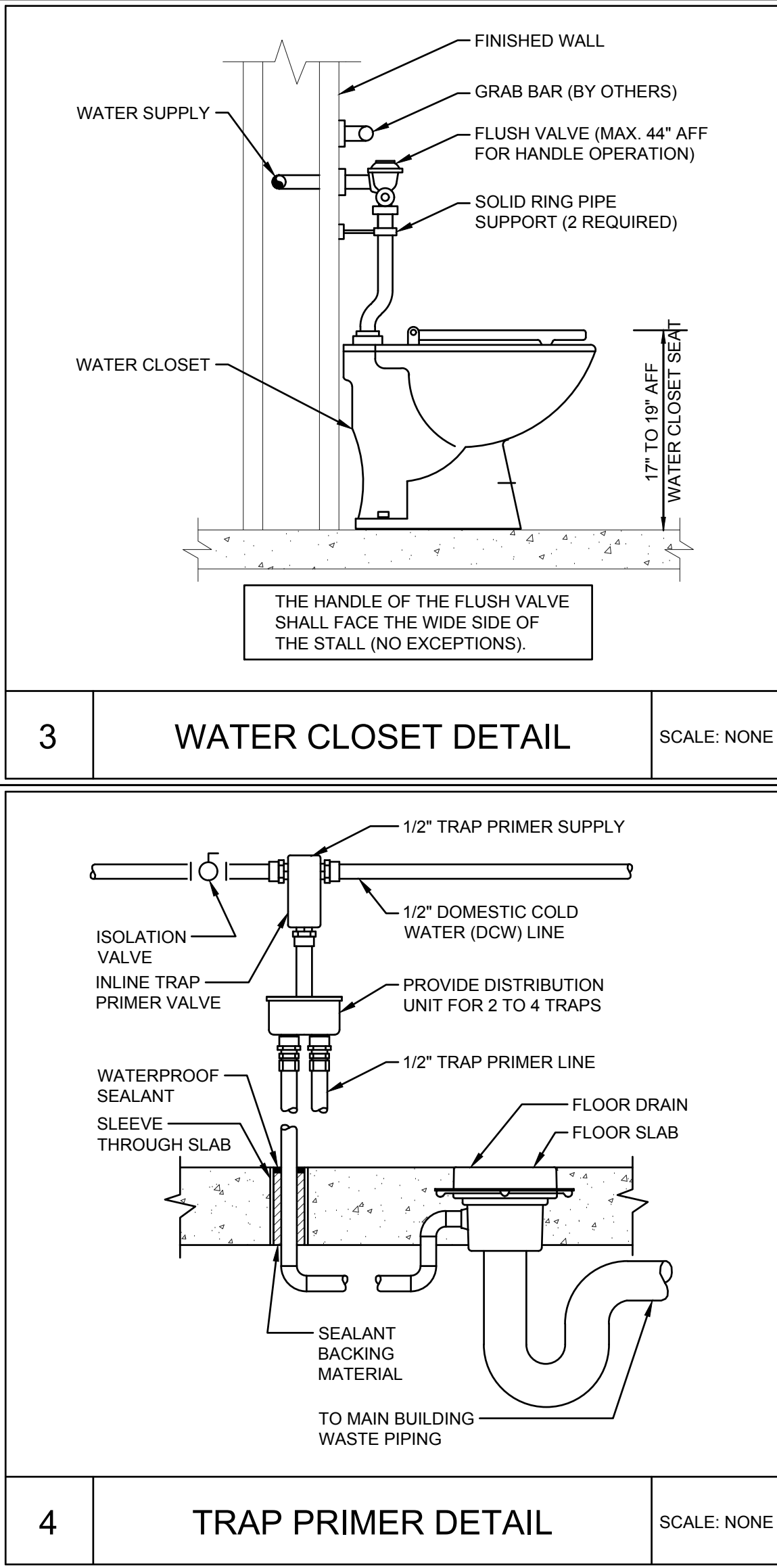
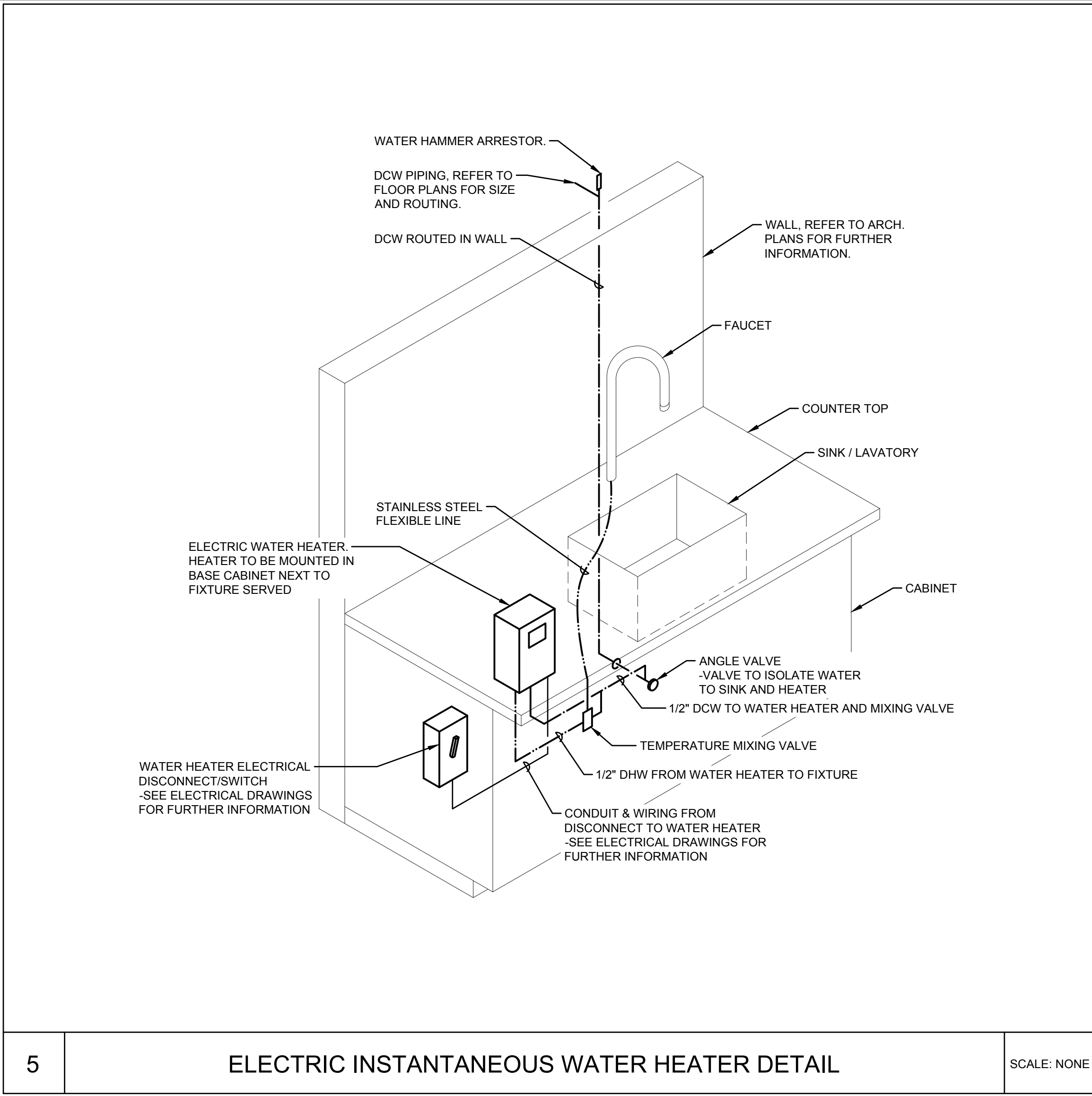
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FLOOR PLAN - AREA B -
RENOVATION -
PRESSURE PLUMBING

Tallahassee Florida

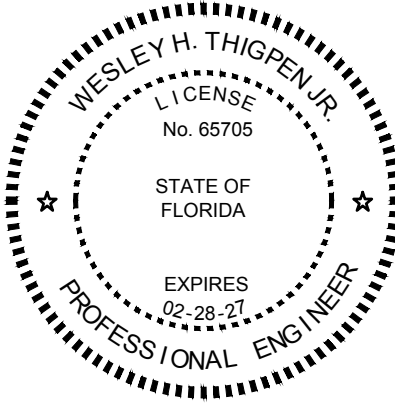
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DETAILS - PLUMBING

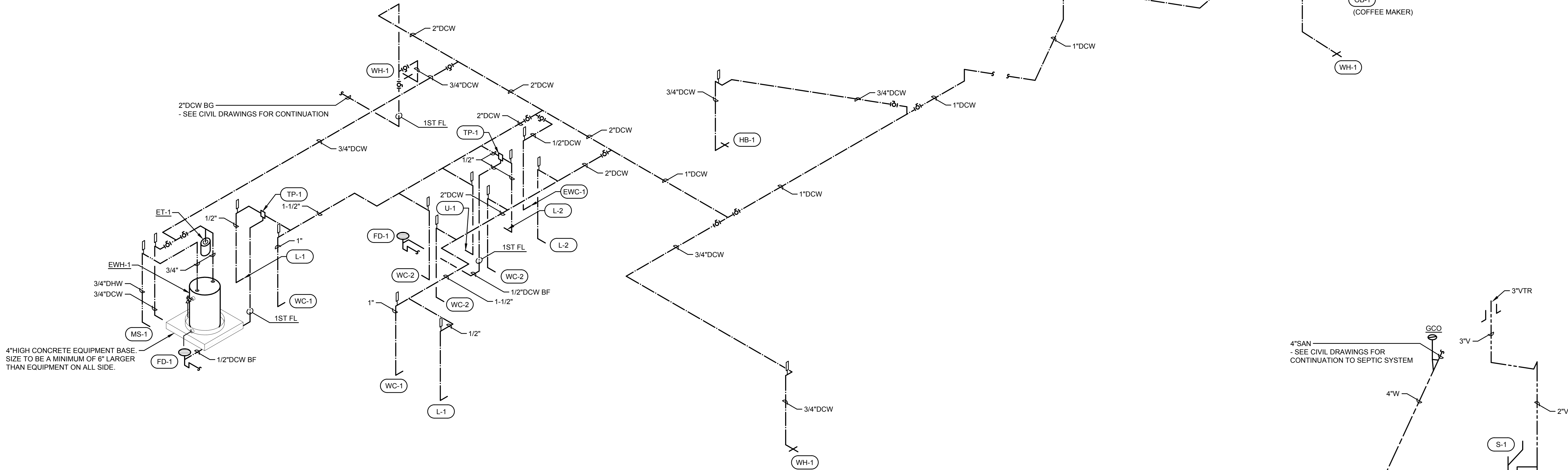
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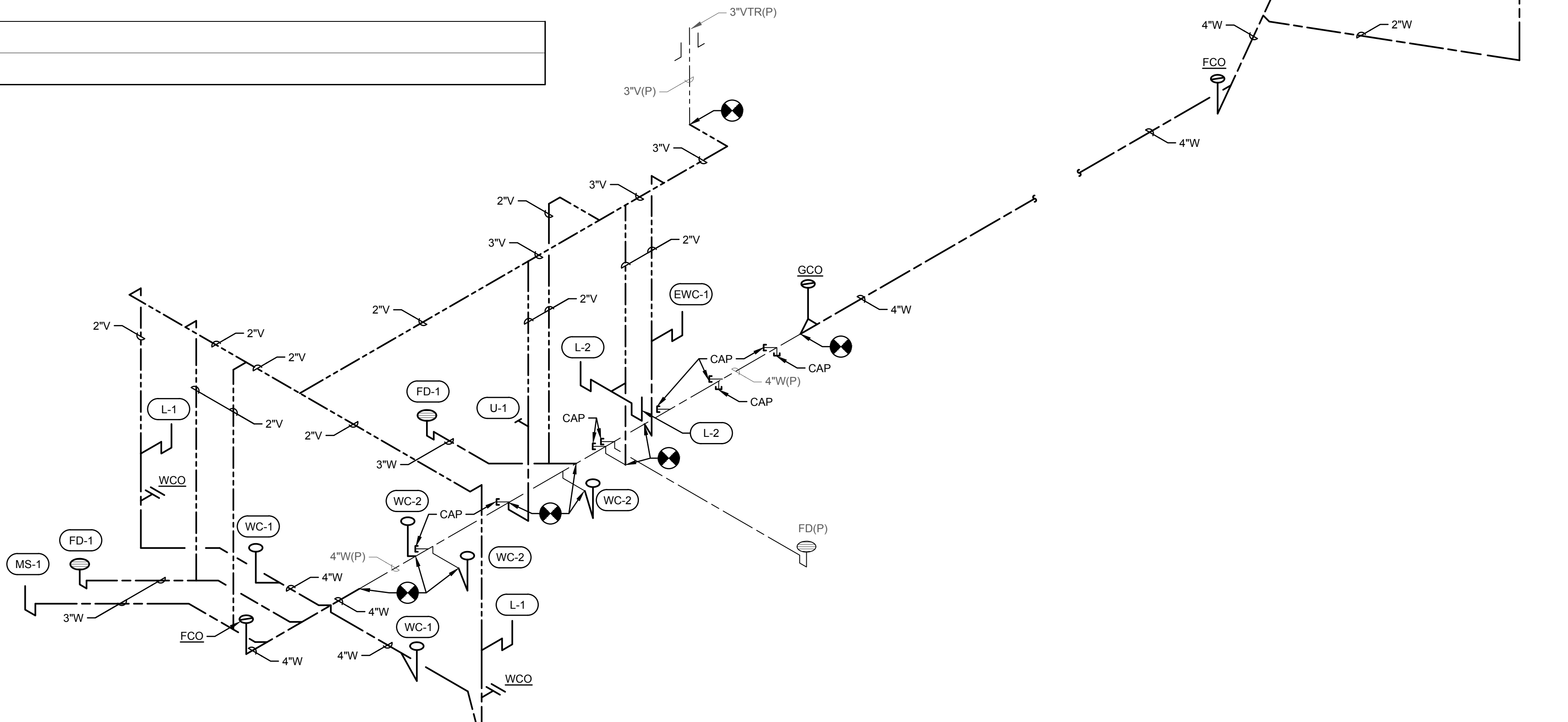
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FIXTURE PIPE CONNECTION SIZES					
FIXTURE TAG	DESCRIPTION	COLD WATER	HOT WATER 120°F	WASTE	VENT
EW-1	ELECTRIC WATER COOLER	1/2"	-	2"	2"
FD-1	FLOOR DRAIN	1/2"	-	3"	2"
HB-1	HOSE BIBB	3/4"	-	-	-
L-1	LAVATORY	1/2"	-	2"	2"
L-2	LAVATORY	1/2"	-	2"	2"
MS-1	MOP SINK	3/4"	3/4"	3"	2"
OB-1	OUTLET BOX	1/2"	-	-	-
S-1	SINK	1/2"	1/2"	2"	2"
TP-1	TRAP PRIMER	1/2"	-	-	-
U-1	URINAL	3/4"	-	2"	2"
WC-1	WATER CLOSET	1"	-	4"	2"
WC-2	WATER CLOSET	1"	-	4"	2"
WH-1	WALL HYDRANT	3/4"	-	-	-

EQUIPMENT TAG	DESCRIPTION	COLD WATER	HOT WATER 120°F	-	-
EW-1	ELECTRIC WATER HEATER	3/4" (INLET)	3/4" (OUTLET)	-	-
EW-2	ELECTRIC WATER HEATER	1/2" (INLET)	1/2" (OUTLET)	-	-



2	ISOMETRIC - PRESSURE PLUMBING
P6.1	NO SCALE

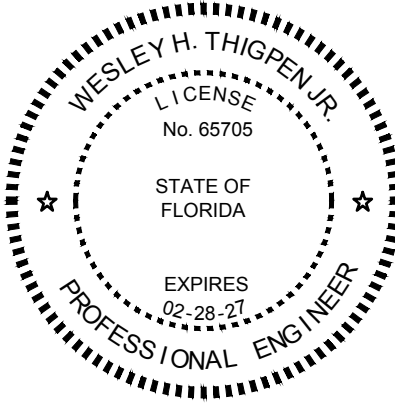


1	ISOMETRIC - GRAVITY PLUMBING
P6.1	NO SCALE



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ISOMETRICS -
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P6.1