

CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS BEFORE COMMENCING ANY WORK. THE EOR HEREBY EXPRESSLY RESERVES COPYRIGHT AND OTHER PROPERTY RIGHTS IN THESE DRAWINGS. THESE DRAWINGS AND DESIGN HEREIN SHALL REMAIN THE PROPERTY OF THE EOR AND IS NOT TO BE COPIED, REPRODUCED OR ASSIGNED TO ANY PARTY WITHOUT THE EOR'S WRITTEN PERMISSION.

PLUMBING LEGEND		ABBREVIATIONS	
120 HOT WATER SUPPLY		AHV	AIR ADMITTANCE VALVE
HOT WATER RETURN		AFF	ABOVE FINISHED FLOOR AS HIGH AS POSSIBLE
COLD WATER SUPPLY		BF	BACK FLOW PREVENTOR
SANITARY		BF	BELOW FLOOR
KITCHEN GREASE SANITARY		BFF	BELOW FINISHED FLOOR
STORM		BG	BELOW GRADE
STORM OVERFLOW		BOD	BASIS OF DESIGN
VENT PIPING		C	CONDENSATE
CONDENSATE		CO	CLEAN OUT
ELBOW, TURNED DOWN		CWV	COMBINATION WASTE AND VENT
ELBOW, TURNED UP		DCW	DOMESTIC COLD WATER
ELBOW, 90°		DHW	DOMESTIC HOT WATER
CONNECTION, TOP		DN	DOWN
CONNECTION, BOTTOM		ECO	EXTERIOR CLEANOUT
CONNECTION, SIDE		EWC	ELECTRIC WATER COOLER
CAP, AIR AND WATER TIGHT		EWH	ELECTRIC WATER HEATER
VENT THROUGH ROOF		EX	EXISTING
RECIRCULATION PUMP		FC	FLOOR CONTROL VALVE
CHECK VALVE / BACKFLOW PREVENTOR		FCO	FLOOR CLEANOUT
BALL VALVE		FD	FLOOR DRAIN
FLOW CONTROL VALVE		FD	FLOOR DRAIN
WATER METER		FD	FLOOR DRAIN
PRESSURE REGULATOR		FD	FLOOR DRAIN
SOLENOID SHUTOFF VALVE		FD	FLOOR DRAIN
HOSE BIBB WITH VACUUM BREAKER		FD	FLOOR DRAIN
AIR ADMITTANCE VALVE (BOD: STUODR)		FD	FLOOR DRAIN
UNION		FD	FLOOR DRAIN
WALL CLEANOUT		FD	FLOOR DRAIN
FLOOR CLEANOUT		FD	FLOOR DRAIN
FLOOR DRAIN		FD	FLOOR DRAIN
FLOOR SINK		FD	FLOOR DRAIN
EXISTING SYSTEM PIPING		FD	FLOOR DRAIN
TO BE DEMOLISHED		FD	FLOOR DRAIN
DEMOLITION KEYNOTE		FD	FLOOR DRAIN
RENOVATION KEYNOTE		FD	FLOOR DRAIN
CONNECT TO EXISTING		FD	FLOOR DRAIN
LIMITS OF DEMOLITION		FD	FLOOR DRAIN
ACCESS PANEL		FD	FLOOR DRAIN
MIN. INVERT ELEVATION		FD	FLOOR DRAIN

POTABLE WATER	
1. ALL POTABLE WATER PIPING SHALL BE DISINFECTED IN ACCORDANCE WITH THE PLUMBING CODE AND VERIFIED BY WRITTEN REPORT FROM THE STATE BOARD OF HEALTH.	
2. ALL PLUMBING PIPING SHALL BE CONCEALED IN FLOORS, WALLS, OR ABOVE CEILINGS AS APPLICABLE EXCEPT AT IMMEDIATE FIXTURE.	
3. PROVIDE HANGERS FOR SUPPLY PIPING AT A MAXIMUM SPACING OF 3 FEET OR AS LISTED IN FBC-P-308.5.	
4. PROVIDE WATER HAMMER ARRESTORS AT EACH FIXTURE, QUICK CLOSING VALVE, OR BATTERY OF FIXTURES WHERE REQUIRED AND PER FBC-P 604.9. ARRESTORS SHALL BE FACTORY FABRICATED, SIZED PER PLUMBING AND DRAINAGE INSTITUTE STANDARD P D I WH-201. AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER HAMMER ARRESTORS AS SPECIFIED.	
5. BALL VALVES 1/4" THRU 2" SHALL BE TWO PIECE - 600 WOG, TEFLON SEATS, ANSI 316 STAINLESS STEEL BALL AND STEM EXTENSION STEM ON INSULATED HOT WATER AND TEMPERED HOT WATER), BRONZE BODY WITH THREADED OR SOLDER ENDS.	
6. DURING CONSTRUCTION ALL PRESSURE PIPING SYSTEMS SHALL RECEIVE A HYDROSTATIC TEST OF 1-1/2 TIMES THE OPERATING PRESSURE FOR A PERIOD OF NOT LESS THAN EIGHT (8) HOURS, NO LEAKAGE EVIDENT DURING THE TEST PERIOD IS ALLOWED. NOTIFY THE ARCHITECT AND ENGINEER OF RECORD 24 HOURS IN ADVANCE OF ANY TESTING SO THAT THEY MAY OBSERVE IF THE NEED IS CALLED FOR. PIPING SYSTEMS, EQUIPMENT, SPECIALTIES, PUMPS, TRAPS, VALVES, STRAINERS, ETC. SHALL BE INSPECTED AND TESTED FOR PROPER FUNCTIONALITY AT THE CONCLUSION OF CONSTRUCTION AND ANY LEAKAGE OR MALFUNCTIONS SHALL BE REPAIRED.	
7. PROVIDE ISOLATION AND ASSE 1024 DUAL CHECK BACKFLOW PREVENTION BEFORE AND BEVERAGE CONNECTION, CARBONATED DEVICE(ASSE1022), STERILIZATION EQUIPMENT, AND ICE MACHINE SUPPLY, PER FBC-P608.3 AND 608.17.	
8. MOUNT HOSE BIBBS 24" ABOVE FINISHED GRADE, UNLESS OTHERWISE NOTED.	
9. ALL PRESSURE PIPING SHALL BE INSTALLED ABOVE CEILING AND IN WALLS UNLESS NOTED OTHERWISE.	
10. BELOW GRADE	
10.1. PIPING SHALL BE COATED WITH HEAVY TROWEL GRADE LION OIL CO. NOKORODE SEALKOTE OR APPROVED EQUAL.	
10.2. UNDERGROUND SERVICE PIPING SHALL BE COPPER TUBING.	
11. PIPING SPECIFICATIONS	
11.1. ABOVE GRADE DOMESTIC COLD WATER SUPPLY PIPING SHALL BE EITHER HIGH-IMPACT CPVC WITH SOLVENT WELD FITTINGS OR TYPE L HARD COPPER TUBING, AS PERMITTED BY CODE AND PROJECT SPECIFICATIONS.	
11.1.1. PROVIDE TRANSITION FITTINGS AS REQUIRED TO INSTALL VALVES, FIXTURE STOPS, EQUIPMENT AND OTHER COMPONENTS.	
11.1.2. ALL PIPES AND FITTINGS SHALL CONFORM TO ASTM 1784.	
11.2. PIPING LOCATED IN RETURN AIR PLENUMS SHALL BE TYPE L HARD COPPER TUBE OR CPVC WITH 1" THICK FIRE WRAP INSULATION SEALED TO PROVIDE FSI/D=25/50.	
11.3. EXPOSED PIPING SHALL BE TYPE L HARD COPPER TUBE PAINTED TO MATCH ADJACENT ARCHITECTURAL SURFACE.	
12. INSULATION SPECIFICATIONS	
12.1. INSULATE COLD WATER SUPPLY PIPING IN EXTERIOR WALLS AND ATTIC AS WELL AS ALL HOT WATER WITH 1" MCOLLOCK PRE-SLIT, PRE-GLUED INSULATION. INSULATE FITTINGS WITH MITERED CUT PIECES OF MCOLLOCK, 1" INSULATION.	
12.2. THERE SHALL BE NO EXPOSED HOT WATER SUPPLY PIPING EXCEPT WITHIN MECHANICAL OR EQUIPMENT ROOMS.	
12.3. PIPING UNDER HANDICAPPED LAVATORIES SHALL BE INSULATED PER AMERICANS WITH DISABILITIES ACT WITH FACTORY FABRICATED SEAMLESS MICROBIAL PVC RESIN INSULATION.	
13. EXPOSED PIPING	
13.1. ALL EXPOSED PIPING SHALL BE COORDINATED WITH OTHER ABOVE-CEILING SYSTEMS AND ROUTED TO AVOID CONFLICTS EVEN IF ITS ROUTING IS DIFFERENT THAN THAT WHICH IS SHOWN ON THESE PLANS.	
13.2. ALL EXPOSED PIPING SHALL BE INSTALLED NEAT AND ORDERLY. PAINT TO MATCH ADJACENT ARCHITECTURAL SURFACE OR AS DIRECTED BY ARCHITECT.	

CODE REFERENCE (ALL MAY NOT APPLY)	
THE LATEST EDITIONS OF THE ESTABLISHED STANDARDS OF THE FOLLOWING ORGANIZATIONS, AND INDIVIDUAL STANDARDS NAMED SHALL BE FOLLOWED THE SAME AS IF THEY WERE FULLY WRITTEN HEREIN AND CONSTITUTE A PART OF THE SPECIFICATION REQUIREMENTS EXCEPT WHERE OTHERWISE SPECIFIED:	
FBC, BUILDING	FLORIDA BUILDING CODE 8TH EDITION
FBC, PLUMBING	FLORIDA BUILDING CODE 8TH EDITION
FBC, EXISTING	FLORIDA BUILDING CODE 8TH EDITION
FBC, FUEL GAS	FLORIDA BUILDING CODE 8TH EDITION
FBC, ENERGY CONSERVATION	FLORIDA BUILDING CODE 8TH EDITION
FFPC	FLORIDA FIRE PREVENTION CODE, 2023 8TH EDITION
NFPA 54	NATIONAL FUEL GAS CODE
NFPA 101	LIFE SAFETY CODE
NFPA 101A	GUIDE ON ALTERNATIVE APPROACHES TO LIFE SAFETY
NFPA 101B	CODE FOR MEANS OF EGRESS FOR BUILDINGS AND STRUCTURES
NFPA 900	BUILDING ENERGY CODE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
ADA	AMERICANS WITH DISABILITIES ACT
UL	UNDERWRITERS LABORATORIES
THESE CODE AND STANDARDS SHALL BE CONSIDERED A MINIMUM REQUIREMENT. THE CONTRACTOR SHALL NOT RELIEVED FROM PROVIDING HIGHER GRADE MATERIALS, PRODUCTS AND WORKMANSHIP WHICH MAY BE SPECIFIED WITHIN THESE DOCUMENTS.	

INTERIOR CLEANOUT SCHEDULE	
LOCATION	TYPE
FLOOR (FCO)	4028C
(CAST IRON BODY, BRONZE PLUG, NICKEL BRONZE TOP)	
WALL (WCO)	4532S
(CAST IRON BODY, BRONZE PLUG, THREADED CAP)	
EXPOSED (TCO)	4400C
(CAST IRON BODY, BRONZE PLUG, THREADED CAP)	4512S
EXTERIOR CLEANOUT SCHEDULE	
LOCATION	TYPE
ONE WAY/CAST IRON BODY, BRONZE PLUG, CAST IRON TOP TAPER THREAD)	4223L
TWO WAY (CAST IRON BODY, BRONZE PLUG, CAST IRON TOP TAPER THREAD)	4223L

WATER HAMMER ARRESTOR SCHEDULE	
FIXTURE UNIT	1-11 12-32 33-60 61-113 114-154 155-330
JR SMITH M#	5005 5010 5020 5030 5040 5050

SUBMITTAL REQUIREMENTS	
1. USE OF AN APPROVAL STAMP ON SUBMITTAL DOCUMENTS CERTIFIES THAT THE CONTRACTOR HAS COMPLIED WITH THE CONTRACT DOCUMENT REQUIREMENTS.	
2. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE ARCHITECT/ENGINEER'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES, OR SIMILAR SUBMITTAL ITEMS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ARCHITECT/ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMITTAL AND THE ARCHITECT/ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS, PRODUCT DATA, SAMPLES, OR SIMILAR SUBMITTAL ITEMS BY THE ARCHITECT/ENGINEER'S APPROVAL THEREOF.	
3. CONTRACTOR SHALL SUPPLY TO THE ARCHITECT SUBMITTALS ON THE FOLLOWING WHERE APPLICABLE (ALL MAY NOT APPLY):	
A. PLUMBING FIXTURES	
B. PIPE AND FITTINGS	
C. INSULATION MATERIALS	
D. PLUMBING ACCESSORIES AND SPECIALTIES	
E. VALVES	
F. HOT WATER HEATER	

ENERGY SYSTEMS - WATER HEATING	
1. ALL FAUCETS SHALL BE EQUIPPED WITH TEMPERATURE & PRESSURE VALVES AS REQUIRED BY ASME-A112.1070-2014, ASSE-1016-2011, ASSE-1017-2014 & ASSE-1070-2014 USING THERMOSTATIC MIXING VALVES. ADJUSTMENTS MUST BE MADE AT FIXTURES TO ASSURE TEMPERED WATER COMPLIANCE AS SET FORTH BY GOVERNING CODES, AND TO PREVENT SCALDING.	
2. HOT WATER DELIVERED FROM WATER HEATERS SHALL BE SUPPLIED AT 120°F DEGREES IN ORDER TO CONTROL BACTERIA IN THE DISTRIBUTION PIPEWORK.	
3. WATER-HEATING EQUIPMENT AND HOT WATER STORAGE TANKS SHALL MEET THE REQUIREMENTS OUTLINED IN FBC CHAPTER 4, TABLE C404.2 AND THE EFFICIENCY SHALL BE VERIFIED THROUGH DATA FURNISHED BY THE MANUFACTURER THROUGH CERTIFICATION UNDER AN APPROVED CERTIFICATION PROGRAM.	
4. ALL HOT WATER SUPPLY AND RECIRCULATION PIPING IN THE HOT WATER SYSTEM SHALL BE INSULATED WITH MINIMUM 1" OF INSULATION HAVING A CONDUCTIVITY OF 0.27 (BTU / IN·H·FT²·X °F).	
5. FOR NON-CIRCULATING STORAGE WATER TANKS HEAT TRAPS MUST BE INSTALLED ON THE SUPPLY AND DISCHARGE PIPING ASSOCIATED WITH THE EQUIPMENT.	

PLUMBING GENERAL NOTES	
1. LOCATIONS OF ANY WASTE AND SUPPLY PIPING SHOWN ARE ONLY APPROXIMATE. THE PLUMBING CONTRACTOR SHALL VERIFY THESE LOCATIONS BEFORE PROCEEDING WITH WORK.	
2. ALL PLUMBING PIPE SHALL BE RUN STRAIGHT, SQUARE, AND LEVEL. NO SAGGING OF PLUMBING PIPING SHALL BE ACCEPTED.	
3. ALL DRAINAGE PIPING 3" AND LARGER SHALL HAVE A MINIMUM SLOPE OF 1/8" PER FOOT, PIPING 2-1/2" AND SMALLER SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT UNLESS OTHERWISE NOTED.	
4. VENT PIPING SHOWN ON FLOOR PLAN IS ONLY INDICATIVE EXCEPT FOR VTR LOCATIONS.	
5. CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.	
6. VALVES AND FITTINGS SHALL BE OF THE SAME SIZE AS THE LINE IN WHICH THEY ARE INSTALLED.	
7. ALL WATER SANITARY WASTE, VENT AND SUPPLY PIPING SHALL BE INSTALLED AS CLOSE TO PLANS AS POSSIBLE WITH NO CHANGE IN SIZING.	
8. SEE ARCHITECTURAL DRAWINGS FOR EXACT PLUMBING FIXTURE LOCATIONS, MOUNTING HEIGHTS, DIMENSIONS AND ADDITIONAL REQUIREMENTS NOT COVERED ON THESE DRAWINGS.	
9. PIPING SHALL NOT BE RUN ABOVE ELECTRICAL OR SERVER EQUIPMENT, COORDINATE WITH FIELD CONDITIONS.	
10. DO NOT PENETRATE WALL FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES. WHERE ABSOLUTELY NECESSARY, ALL PIPES PENETRATING BEARING WALL OR FOOTING MUST BE SLEEVED AND IN A LOCATION APPROVED BY THE STRUCTURAL ENGINEER.	
11. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES OR ALL FIXTURES INCLUDED IN THESE CONTRACT DOCUMENTS.	
12. WALL BRACKETS, HANGERS, SUPPORTS, ETC. SHALL BE PROVIDED WHERE REQUIRED IN ACCORDANCE WITH THE BEST STANDARD PRACTICE OF THE TRADE AND AS PER CODE. ADDITIONAL SUPPORTS SHALL BE PROVIDED TO TRANSMIT LOADS TO THE MAIN STRUCTURE WHERE REQUIRED. CPVC PIPING SUPPORTS SHALL BE 3'-0" ON CENTER FOR 1/2" THRU 1" AND 4'-0" ON CENTER FOR 1-1/2" AND LARGER. ALL EXPOSED SUPPORTS SHALL BE HOT DIPPED GALVANIZED OR FIBERGLASS REINFORCED "UNISTRUT" TYPE INCLUDING HARDWARE.	
13. POWER WIRING, PANELS, TRANSFORMERS, AND DISCONNECT SWITCHES FOR PLUMBING EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL CONTROL WIRING, RELAYS, AND PANELS SHALL BE PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR. ALL MOTOR STARTERS REQUIRED FOR ANY PLUMBING EQUIPMENT SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.	
14. INSTALL ACCESS PANELS (MINIMUM 18x18) WHERE EQUIPMENT REQUIRING ACCESS RESIDES ABOVE AN INACCESSIBLE CEILING TYPE.	
15. ALL CONCEALED VALVES, WATER HAMMER ARRESTORS, CLEANOUTS, ETC. CONCEALED IN WALLS SHALL BE PROVIDED WITH AN ACCESS PANEL, ZURN MODEL ZN-1460 OR APPROVED EQUAL.	
16. ALL CONCEALED PIPING IN CHASE AREAS SHALL BE SUPPORTED WITH A PIPING SUPPORT SYSTEM, SUMNER POSIFIX, STAKFIX AND CHANNEL OR APPROVED EQUAL.	
17. PURGE, CLEAN, DISINFECT & TEST WATER PIPING SYSTEMS. SUBMIT REPORT & WATER SAMPLES TO A H.J. USE PROCEDURE PRESCRIBED BY A H.J., OR IF METHOD NOT PRESCRIBED USE AWWA C651 OR AWWA C652.	
18. CONTRACTOR SHALL INSTALL WATER HAMMER ARRESTORS AT ALL QUICK CLOSING VALVES. REFER TO FPC 604.9.	

CONDENSATE, SANITARY WASTE AND VENT	
1. GRAVITY FLOW SYSTEMS HAVE SPACE PRIORITY FOR SLOPING PIPES.	
2. SLOPING PIPES SHALL BE STARTED AT THE HIGHEST POINT POSSIBLE.	
3. ALL SOIL, WASTE, AND VENT PIPING SHALL BE TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND LOCAL PERMITTING AUTHORITIES REQUIREMENTS.	
4. THE GENERAL CONTRACTOR SHALL VERIFY ALL FLOOR DRAIN AND WATER SUPPLY LOCATIONS BEFORE POURING SLABS.	
5. CONDENSATE, SANITARY AND VENT PIPING SHALL BE COLLECTED AND TERMINATED AT A POINT SHOWN ON THE DRAWINGS.	
5.1. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CONDENSATE PIPES AFTER AIR UNIT TRAP. MECHANICAL CONTRACTOR RESPONSIBLE FOR FIRST 12" OF CONDENSATE AND TRAP.	
6. INVERT SHOWN ON PLANS IS AN ESTIMATE OF MINIMUM INVERT CALCULATED USING ENGINEERING ESTIMATES OF SLOPE, FITTING DIMENSIONS AND OTHER FACTORS THAT MAY NOT MATCH THE EXACT FIELD CONDITIONS. DUE DILIGENCE HAS BEEN PUT FORTH TO COORDINATE THIS WITH THE SITE CONNECTIONS BUT IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ACTUAL SITE CONNECTION INVERT AND ITS CONNECTION TO THE BUILDING SERVICE PIPING. ANY ISSUES SHALL BE BROUGHT TO THE ATTENTION OF THE EOR PRIOR TO COMMENCING WITH INSTALLATION OF UNDERGROUND PIPING.	
7. WHEN REQUIRED BY CODE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL AN AIR GAP SERVING INDIVIDUAL FIXTURES, DEVICES, OR APPLIANCES.	
8. ALL SANITARY WASTE LINES SHALL BE INSTALLED UNDER THE FLOOR SLAB, UNLESS OTHERWISE NOTED. VENT PIPING SHALL BE INSTALLED ABOVE CEILING AND IN WALLS UNLESS NOTED OTHERWISE.	
9. FLOOR DRAIN TRAPS SHALL BE DEEP SEAL (MIN. 4"). FURNISH AND INSTALL TRAP PRIMERS, WHERE INDICATED, OR IF LOCAL CODES REQUIRE THEM. VERIFY AND INCLUDE IN BID. PER FBC-P-1002.4 ANY TRAPPED FIXTURE SUBJECT TO EVAPORATION SHALL BE FURNISHED WITH 1/2" TRAP PRIMER CONNECTION TO NEAREST DCW WATER SUPPLY LINE, WITH VALVE COMPLYING TO ASSE1018. USE SELF SEAL RUBBER TIE THAT CONFORM TO ASSE1044 FOR REMOTE DRAINS THAT ARE OVER 20' FROM THE WATER SUPPLY.	
10. SIZE AND LOCATION OF CLEANOUTS SHALL BE IN ACCORDANCE WITH FLORIDA PLUMBING CODE AND ALL JURISDICTIONAL REGULATIONS.	
11. PIPING SPECIFICATIONS	
11.1. CONDENSATE, DOMESTIC WASTE, AND VENT PIPING SHALL BE SCHEDULE 40 PVC/DWV PIPE WITH SOLVENT WELD DRAINAGE FITTINGS CONFORMING TO ASTM D-2665.	
11.2. VENT PIPING SHALL BE MINIMUM OF 2", UNLESS NOTED OTHERWISE.	
11.3. PIPING INSTALLED WITHIN A RETURN AIR PLENUM SHALL BE CAST IRON WITH HUB AND SPOOT FITTINGS OR PVC PIPING WITH 1/2" THICK FIRE WRAP INSULATION SEALED TO PROVIDE FSI/D=25/50.	
11.4. UNLESS NOTED OTHERWISE, ASSUME ALL COMBINED DISCHARGE CONNECTIONS ARE WYE TYPE.	
12. EXPOSED PIPING	
12.1. ALL EXPOSED PIPING SHALL BE COORDINATED WITH OTHER ABOVE-CEILING SYSTEMS AND ROUTED TO AVOID CONFLICTS EVEN IF ITS ROUTING IS DIFFERENT THAN WHAT IS SHOWN ON THESE PLANS.	
12.2. ALL EXPOSED PIPING SHALL BE INSTALLED NEAT AND ORDERLY. PAINT TO MATCH ADJACENT ARCHITECTURAL SURFACE OR AS DIRECTED BY ARCHITECT.	
13. THE TERMINATION OF CONCEALED CONDENSATE PIPING SHALL BE MARKED TO INDICATE WHETHER THE PIPING IS CONNECTED TO THE PRIMARY OR SECONDARY DRAIN. PER FBC-M 307.1.1 & 307.2.3.3.	

GENERAL NOTES	
1. THE ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR ANY MISUSE AND/OR MISREPRESENTATION OF THIS SET OF DOCUMENTS.	
2. THE CONTRACTOR ASSUMES RESPONSIBILITY FOR THE USE OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL MAKE THEMSELVES 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 OF RESPONSIBLE CHARGE OF THE GIVEN DISCIPLINE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED UNLESS EMBOSSED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED ON ELECTRONIC COPIES.	
4. CONFLICTS BETWEEN THIS SET OF DRAWINGS AND THE CONTRACT SPECIFICATIONS SHALL BE RESOLVED BY THE ENGINEER OF RECORD. THE SUB 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. PRIOR TO INSTALLATION, COORDINATE AND ADJUST THE FINAL LOCATION OF ALL WALL MOUNTED DEVICES AND EQUIPMENT WITH ALL CASEWORK, SHELVING OR OTHER WALL MOUNTED FURNISHINGS.	
7. PLANS ARE DIAGRAMMATIC IN NATURE AND INTENDED TO SHOW THE GENERAL SCOPE OF THE WORK TO BE PERFORMED. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL DIMENSIONS.	
8. DUE TO THE SMALL SCALE OF THE DRAWINGS, AND TO UNFORESEEN JOB CONDITIONS, ALL REQUIRED OFFSETS, TRANSITIONS AND FITTINGS MAY NOT BE SHOWN BUT SHALL BE PROVIDED AT NO ADDITIONAL COST.	
9. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND EXISTING EQUIPMENT TO ENSURE THE EQUIPMENT SPECIFIED WILL WORK FOR THE SPACES PROVIDED. FINAL DIMENSIONS OF SYSTEMS SHOWN ON THESE PLANS SHALL BE COORDINATED IN THE FIELD. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR PROVIDING OFFSETS AND TRANSITIONS TO FIT IN SPACES PROVIDED AND AT NO COST TO THE OWNER.	
10. THE CONTRACTOR IS RESPONSIBLE FOR ANY SPECIAL REQUIREMENTS INVOLVED IN INSTALLING EQUIPMENT IN THE BUILDING, DISMANTLING AND REASSEMBLING OF ANY EQUIPMENT SHALL BE DONE AS REQUIRED TO BRING INTO THE BUILDING AND EQUIPMENT ROOMS.	
11. ALL WORK PERFORMED AS PART OF THIS PROJECT SHALL BE PERFORMED BY EXPERIENCED TRADESMEN, TRAINED, EXPERIENCED, AND SKILLED IN THE TASKS INCIDENTAL TO THE PROJECT.	
12. ALL WORK SHALL COMPLY WITH APPLICABLE OSHA AND EPA REGULATIONS AND GUIDELINES.	
13. THE CONTRACTOR PERFORMING WORK ON THIS PROJECT WILL BE RESPONSIBLE FOR REGULARLY CLEANING THE WORK AREA OF ANY DEBRIS ASSOCIATED WITH THE WORK BEING PERFORMED. THE SITE SHALL BE CLEAN OF ALL CONSTRUCTION DEBRIS AT THE COMPLETION OF THE JOB, BEFORE FINAL PAYMENT IS MADE.	
14. REASONABLE PRECAUTIONS SHALL BE MADE FOR SAFETY AND HEALTH INCLUDING BUT NOT LIMITED TO WARNING SIGNS, SAFETY PRECAUTIONS AND BARRICADES FOR PEDESTRIANS.	
15. COORDINATE ALL DEMOLITION, CLEANING AND CONSTRUCTION WORK. SUB CONTRACTOR SHALL PROVIDE GENERAL CONTRACTOR A FULL CONSTRUCTION SCHEDULE.	
16. CONTRACTOR SHALL BE HELD TO PROVIDED SCHEDULE. THEY SHALL BE RESPONSIBLE FOR PROVIDING SUFFICIENT MANPOWER AND EQUIPMENT TO COMPLETE THE WORK IN THE TIME INDICATED.	
17. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF ALL EQUIPMENT AND MATERIALS. THE LOCATION OF STORAGE SHALL BE RESTRICTED SPECIFICALLY TO THE AREA ALLOTTED BY THE OWNER.	
18. ALL ITEMS INSTALLED UNDER THE SCOPE OF THIS PROJECT SHALL BE NEW, CLEAN, AND FREE OF DEFECTS.	
19. IF DRAWING CHANGES ARE NEEDED FOR INSPECTION DUE TO FIELD CHANGES MADE BY THE CONTRACTOR WITHOUT PRIOR APPROVAL OF THE ENGINEER AND AGREED UPON TERMS, THEN THE CONTRACTOR SHALL PAY HOURLY RATES TO THE ENGINEER OF RECORD FOR MAKING NECESSARY CHANGES.	
20. SUPPORTS, HANGERS, WIRING AND PIPING SHALL BE INSTALLED IN A NEAT FASHION AND IN AN ORDERLY APPEARANCE.	
21. FOR LOCAL WIND LOADS, REFER TO MECHANICAL DESIGN CRITERIA	
22. PROTECT THE ROOF FROM DAMAGE WHENEVER ANY WORK ON THE ROOF IS REQUIRED.	
23. CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL PARTITIONS LABELED WITH A SPECIAL LISTING ON THE ARCHITECTURAL PLANS. THIS INCLUDES FIRE, SMOKE ACOUSTICAL AND OTHER ULL WALL OR CEILING ASSEMBLIES.	
24. STRUCTURAL PENETRATIONS INCLUDING BUT NOT LIMITED TO WALL, FLOOR OR BEAM SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. ALL BEAM SLEEVES AND REINFORCING APPROVED BY STRUCTURAL ENGINEER SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.	
25. CONTRACTOR SHALL GUARANTEE THE WORK AND MATERIALS FOR PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE IN ADDITION TO THE WARRANTIES PROVIDED BY THE MATERIAL SUPPLIES AND MANUFACTURERS.	
26. VALUE ENGINEERING OR CHANGES TO PLANS MUST BE APPROVED BY THE ENGINEER OF RECORD AND RESUBMITTED THROUGH THE BUILDING DEPARTMENT PRIOR TO BEING INSTALLED.	
27. FLOOR CLEANOUTS SHALL BE LOCATED NO MORE THAN 100 FEET APART IN HORIZONTAL DRAINAGE PIPES. CLEANOUTS SHALL BE LOCATED AT EACH CHANGE OF DIRECTION GREATER THAN 45 DEGREES.	
28. CLEANOUTS SHALL BE LOCATED AT THE BASE OF EACH WASTE STACK. INSTALL CLEANOUTS IN CONCEALED LOCATIONS.	
29. WALL CLEANOUTS ARE REQUIRED IN THE BOTTOM COURSE OF MASONRY FOR EACH GROUT POUR THAT IS MORE THAN 64" TALL. SEAL CLEANOUTS BEFORE AND AFTER GROUT.	
30. WALL CLEANOUTS SHALL BE INSTALLED IN CONCEALED LOCATIONS WITH OPENINGS IN A FINISHED WALL WITHIN 1.5" OF THE FINISHED WALL SURFACE.	

PLUMBING SHEET INDEX	
SHEET NUMBER	SHEET NAME
P0.1	PLUMBING NOTES & LEGEND
P1.1	SANITARY FLOOR PLAN
P1.2	PRESSURE FLOOR PLAN
P5.1	PLUMBING DETAILS
P6.1	PLUMBING SCHEDULES
P9.1	PLUMBING RISER DIAGRAM



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GADSDEN COUNTY

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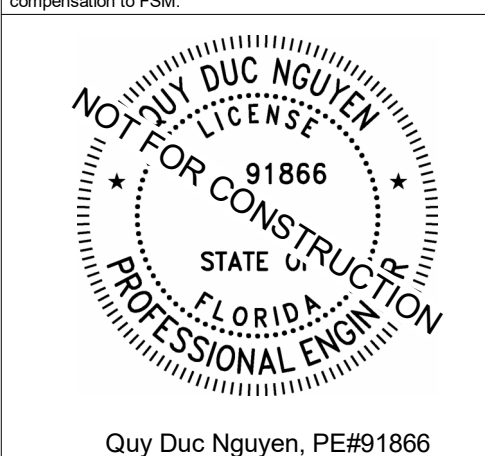
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Quay Duc Nguyen, PE#91866

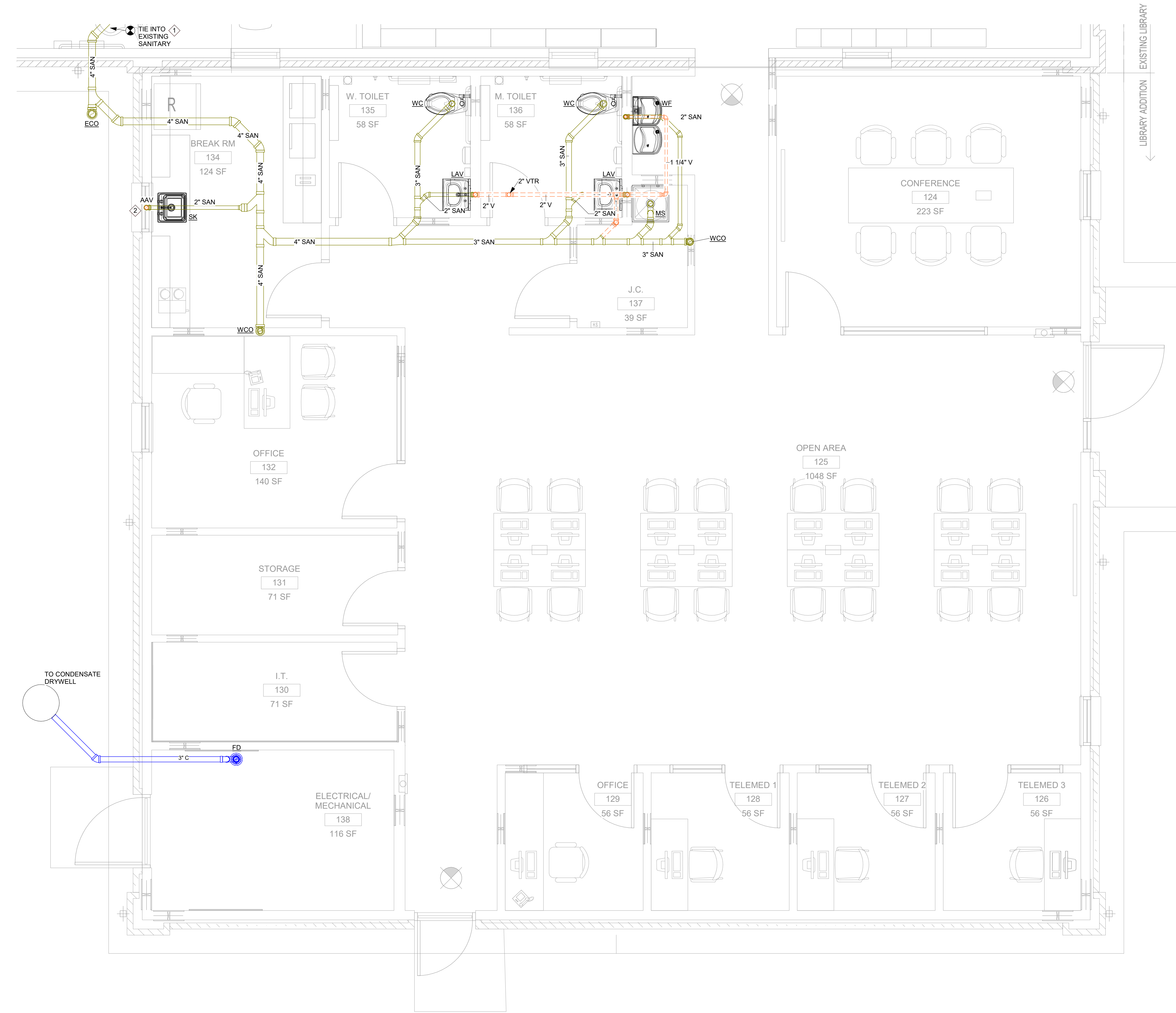
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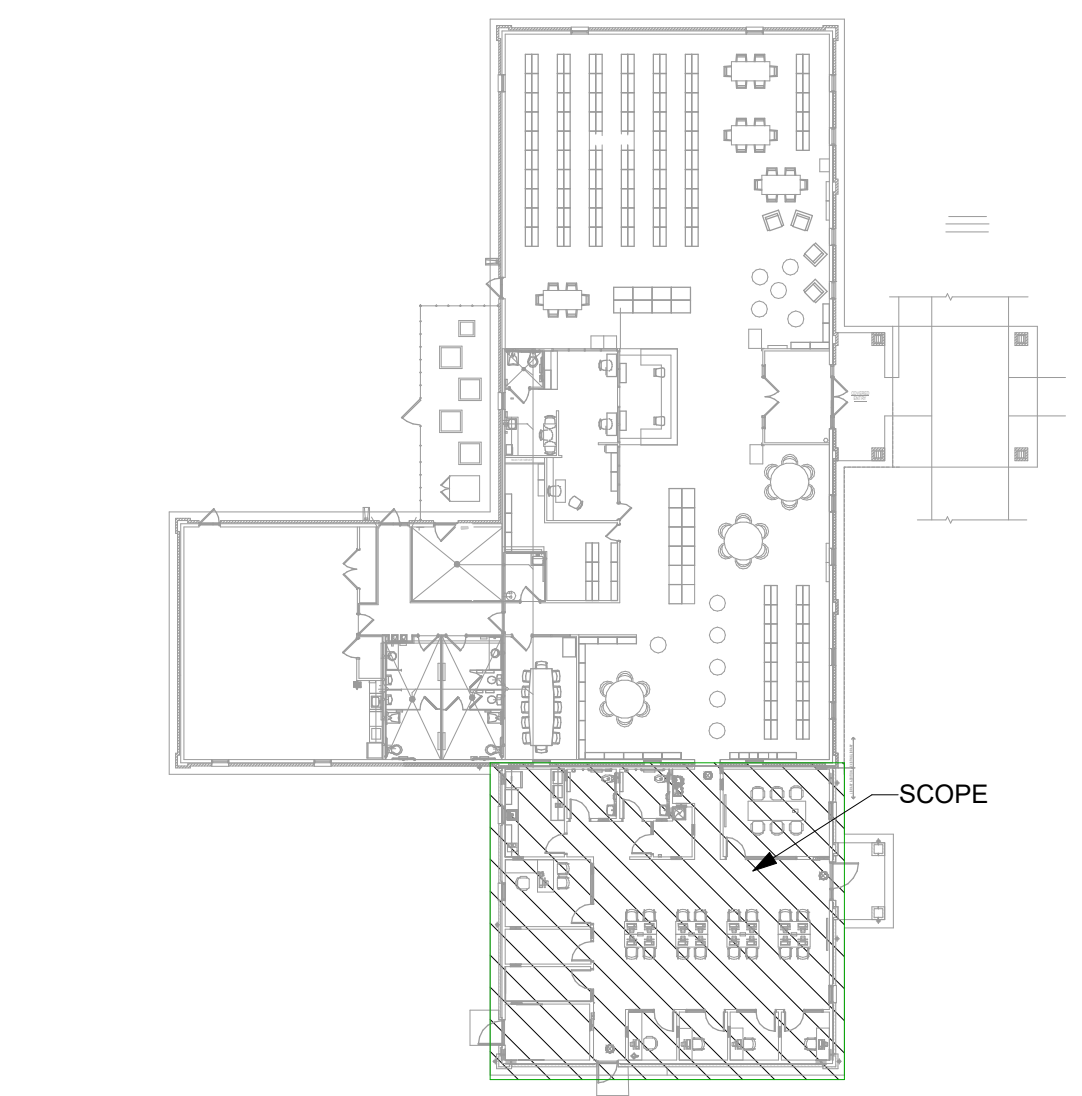
CRA PROJ.#: 25080
PHASE: CONSTRUCTION DOCUMENTS

SHEET TITLE
PLUMBING NOTES & LEGEND
P0.1

CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF EXISTING SANITARY MEASURE ELEVATION INVERT, TRENCH NEW DRAIN LINE IN EXISTING BUILDING, AND CONNECT NEW TO EXISTING WITH PROPER SLOPE. CONTRACTOR SHALL COORDINATE SANITARY VENTING TO AVOID BREAKROOM WINDOW.



1 FIRST FLOOR PLAN - SANITARY
P1.1 Scale: 3/8" = 1'-0"



2 KEY PLAN
P1.1 Scale: 1" = 30'-0"

SANITARY RENOVATION GENERAL NOTES	
1. CONTRACTOR SHALL COORDINATE EXISTING INVERT ELEVATION ON-SITE.	
SANITARY KEYED NOTES	
1	CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF EXISTING SANITARY MEASURE ELEVATION INVERT, TRENCH NEW DRAIN LINE IN EXISTING BUILDING, AND CONNECT NEW TO EXISTING WITH PROPER SLOPE.
2	CONTRACTOR SHALL COORDINATE SANITARY VENTING TO AVOID BREAKROOM WINDOW.



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150 John Knox Road
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FL CA 28968



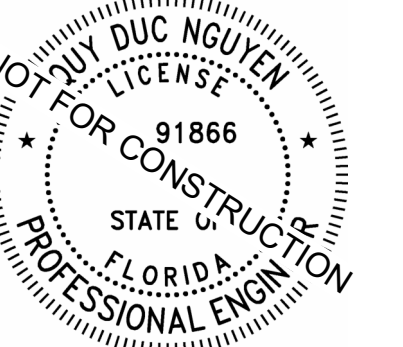
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GADSDEN COUNTY

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Clemons, Rutherford & Associates Inc.
■ Architects
Planners
Interior Designers
Construction Managers
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Tallahassee, Florida 32308
■ (850) 385-6153
Fax (850) 386-8420
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Website www.craarchitects.com

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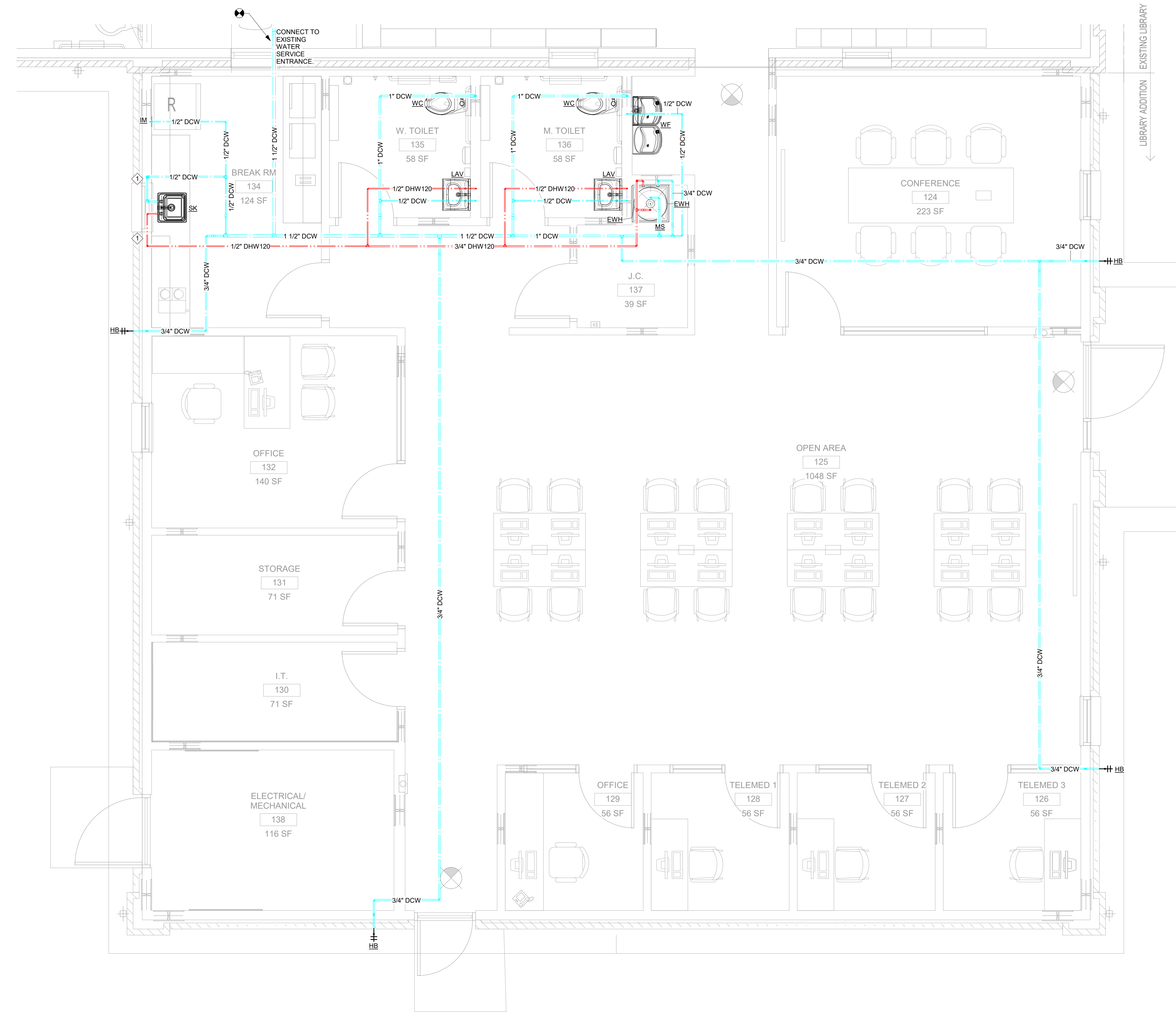


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#	DATE	COMMENTS

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PHASE: CONSTRUCTION DOCUMENTS
SHEET TITLE
SANITARY FLOOR PLAN
P1.1

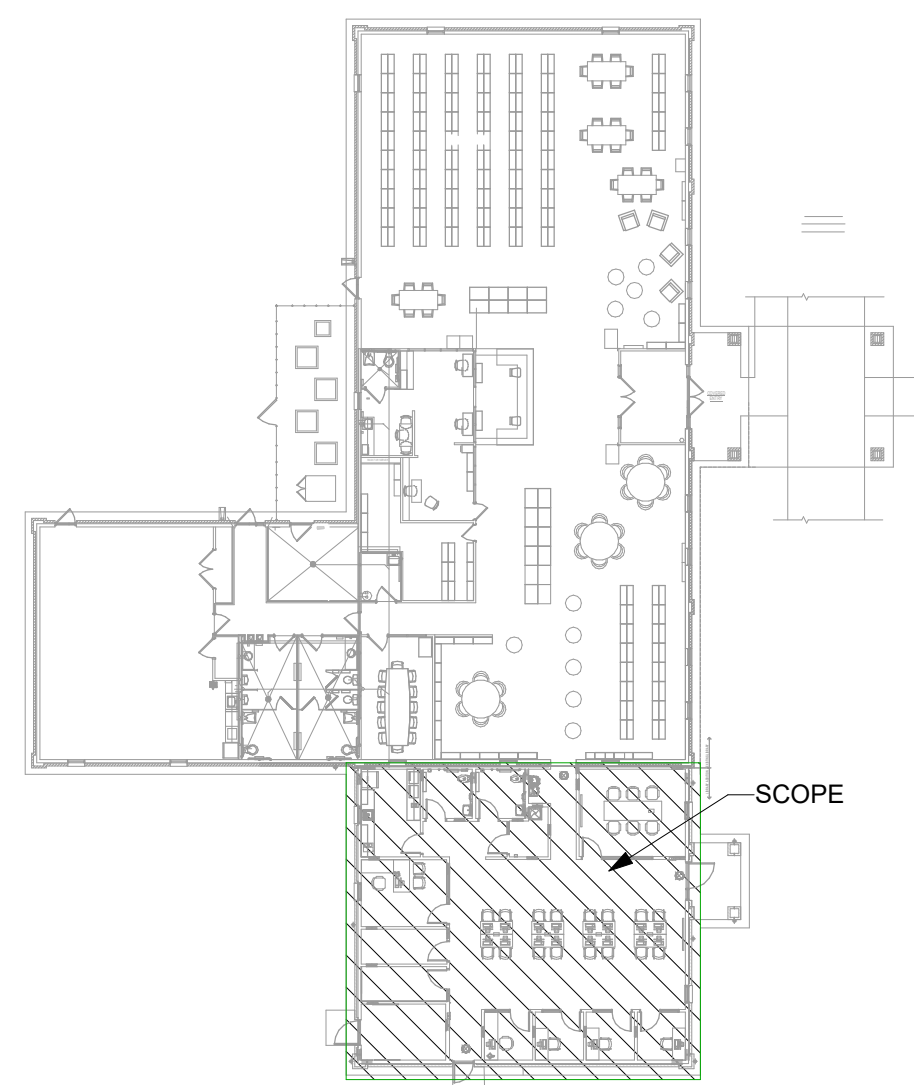
FOR THE BOARD OF COUNTY COMMISSIONERS, HAVANA, FLORIDA, THE ENGINEER HAS REVIEWED THE DRAWINGS AND SPECIFICATIONS AND HAS FOUND THEM TO BE IN ACCORDANCE WITH THE HAVANA, FLORIDA, BUILDING CODE. THE ENGINEER'S REVIEW IS LIMITED TO THE TECHNICAL ASPECTS OF THE DRAWINGS AND SPECIFICATIONS AND DOES NOT CONSTITUTE A GUARANTEE OF THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED HEREON. THE ENGINEER'S REVIEW IS LIMITED TO THE TECHNICAL ASPECTS OF THE DRAWINGS AND SPECIFICATIONS AND DOES NOT CONSTITUTE A GUARANTEE OF THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED HEREON. THE ENGINEER'S REVIEW IS LIMITED TO THE TECHNICAL ASPECTS OF THE DRAWINGS AND SPECIFICATIONS AND DOES NOT CONSTITUTE A GUARANTEE OF THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED HEREON.



1 FIRST FLOOR PLAN - PRESSURE
P1.2 Scale: 3/8" = 1'-0"



2 KEY PLAN
P1.2 Scale: 1" = 30'-0"



PRESSURE RENOVATION GENERAL NOTES	
1. ALL EXISTING PIPEWORK SHALL BE INSULATED AND SEALED TO THE SAME STANDARD OF THE NEW INSTALLATIONS	
2. CONTRACTOR SHALL ROUTE NEW DCW WATER METER FROM EXISTING DOMESTIC WATER LINE NEAR METER. AFTER BACKFLOW ASSEMBLY, ROUTE UNDERGROUND-OUTDOOR AND UP INTO NEW SCOPE AREA WITH WATER ENTRANCE PIPING.	
PRESSURE KEYED NOTES	
1	CONTRACTOR SHALL COORDINATE DROP DOWN TO AVOID BREAKROOM WINDOW.



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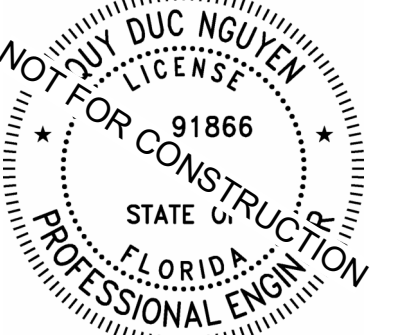
Clemons, Rutherford & Associates Inc.

■
Architects
Planners
Interior Designers
Construction Managers
■

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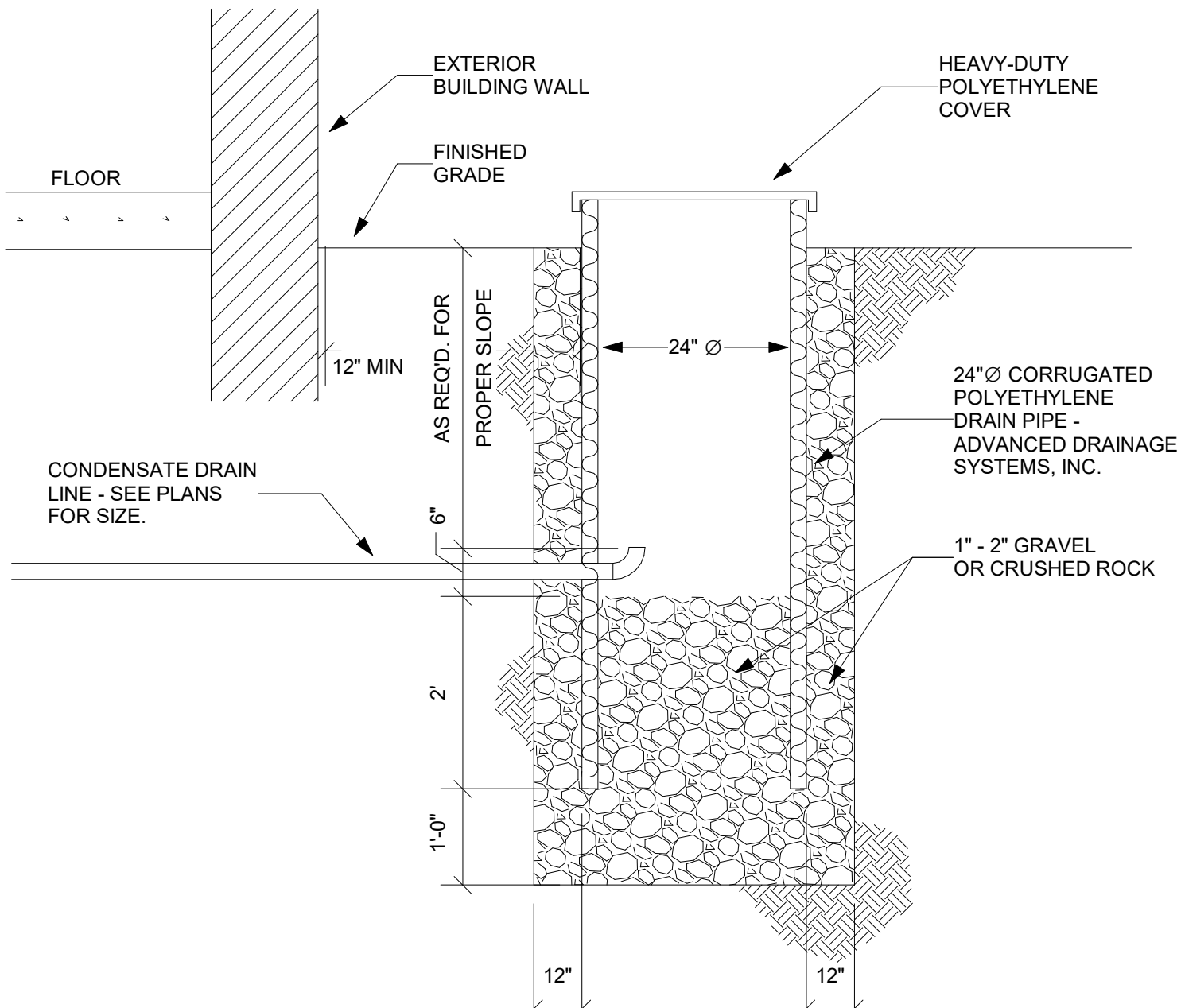
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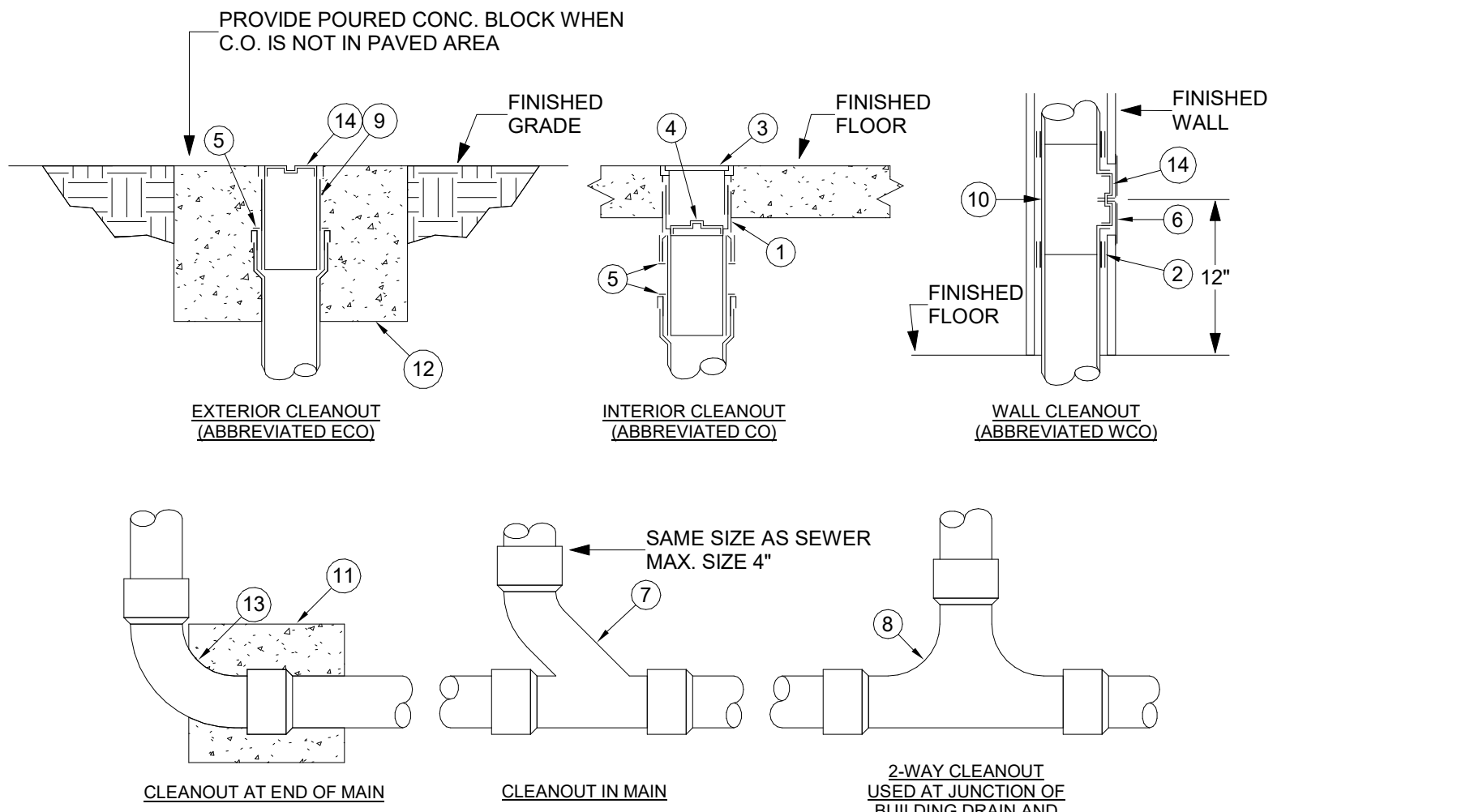
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SHEET TITLE
**PRESSURE FLOOR PLAN
P1.2**

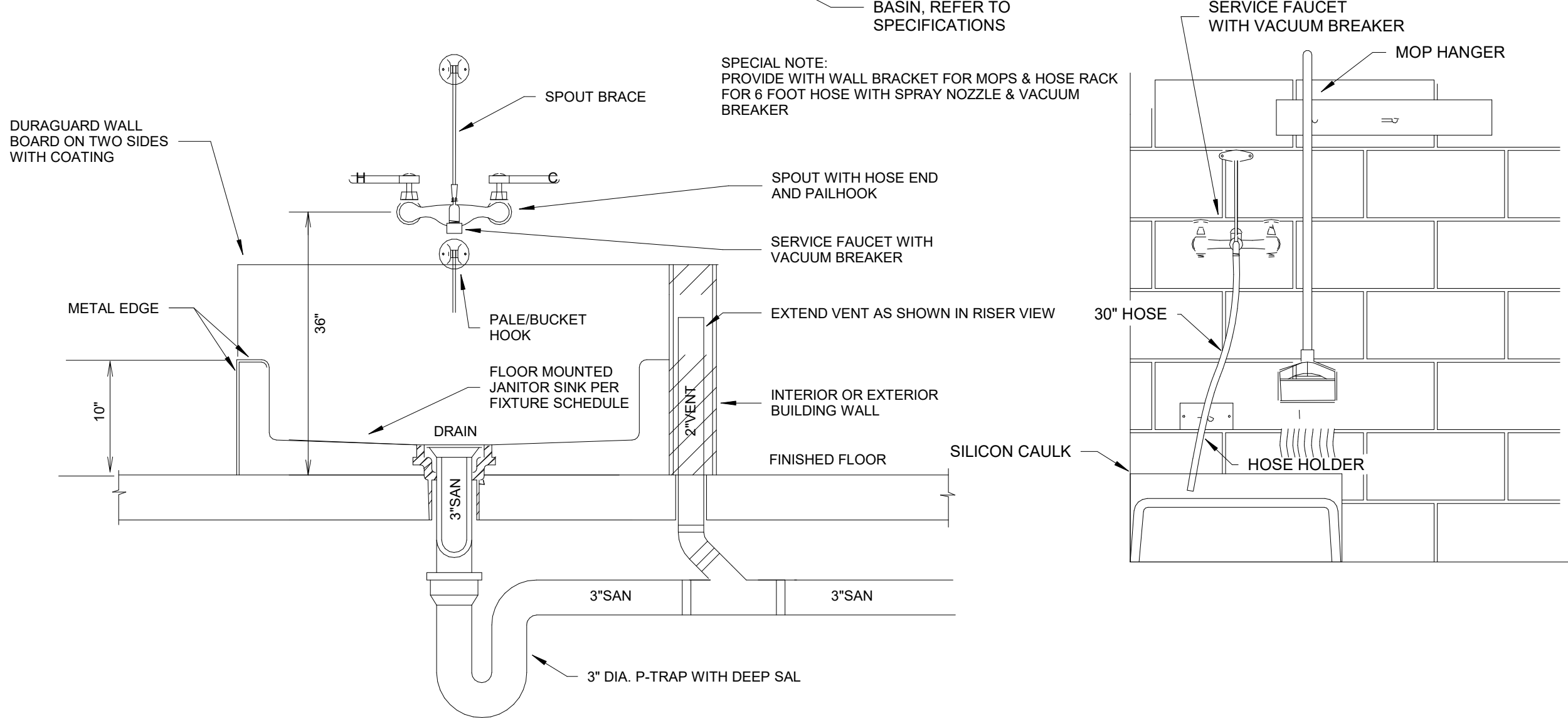


1 CONDENSATE DRY WELL DETAIL
P5.1 No Scale

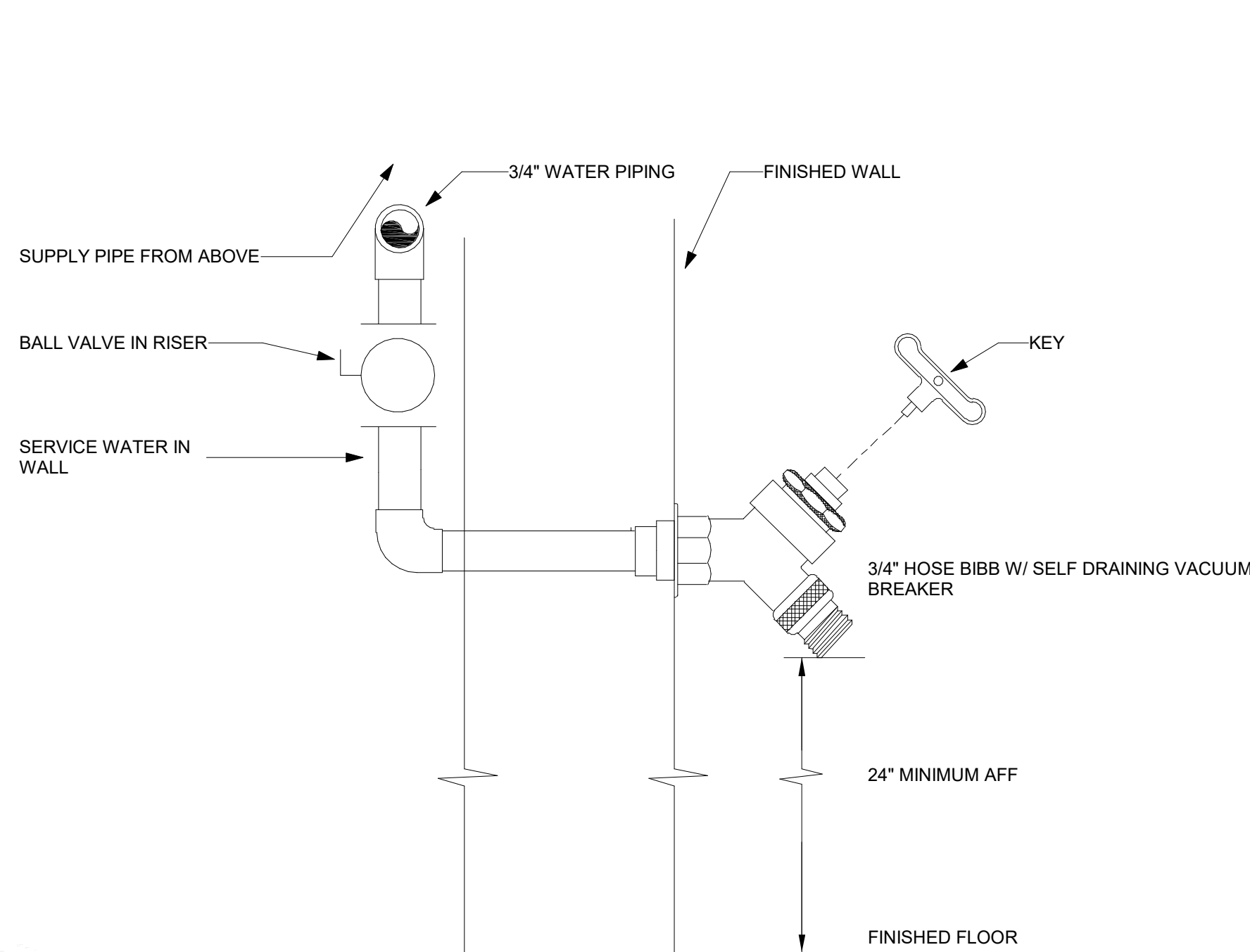


- KEY NOTES: (THIS DETAIL ONLY)
- 1 CAST IRON 2-PIECE CLEANOUT BODY WITH ADJUSTABLE HEAD.
 - 2 NO-HUB COUPLING (FOR ABOVE GROUND APPLICATION ONLY).
 - 3 POLISHED NICKEL BRONZE SCORRATED TOP (PROVIDE CARPET MARKER FOR CARPETED FLOORS).
 - 4 BRONZE TAPERED THREAD, RAISED HEAD CLEANOUT PLUG.
 - 5 PUSH-ON NEOPRENE RUBBER COMPRESSION GASKET.
 - 6 STAINLESS STEEL ROUND WALL ACCESS COVER.
 - 7 COMBINATION 1/2" & 1/8" BEND FITTING.
 - 8 TWO-WAY CLEANOUT FITTING.
 - 9 CAST IRON CLEANOUT FERRULE.
 - 10 CAST IRON CLEANOUT TEE.
 - 11 12" x 12" x 12" CONCRETE THRUST BLOCK.
 - 12 24" x 24" x 12" CONCRETE PAD FLUSH WITH GRADE.
 - 13 LONG SWEEP ELBOW.
 - 14 BRONZE TAPERED THREAD, RECESSED HEAD CLEANOUT PLUG.

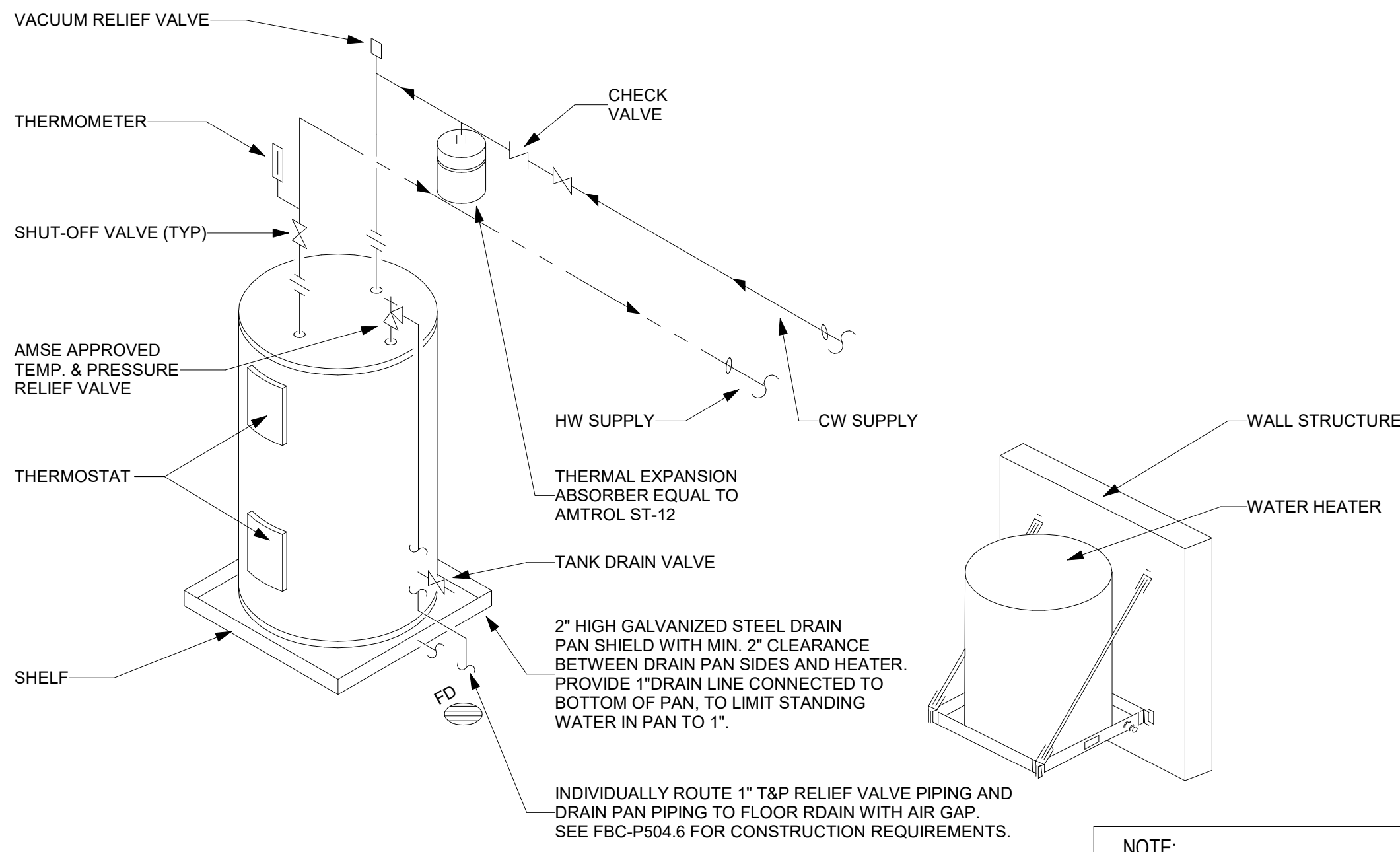
2 TYPICAL CLEANOUT
P5.1 No Scale



3 MOP SINK DETAIL
P5.1 No Scale

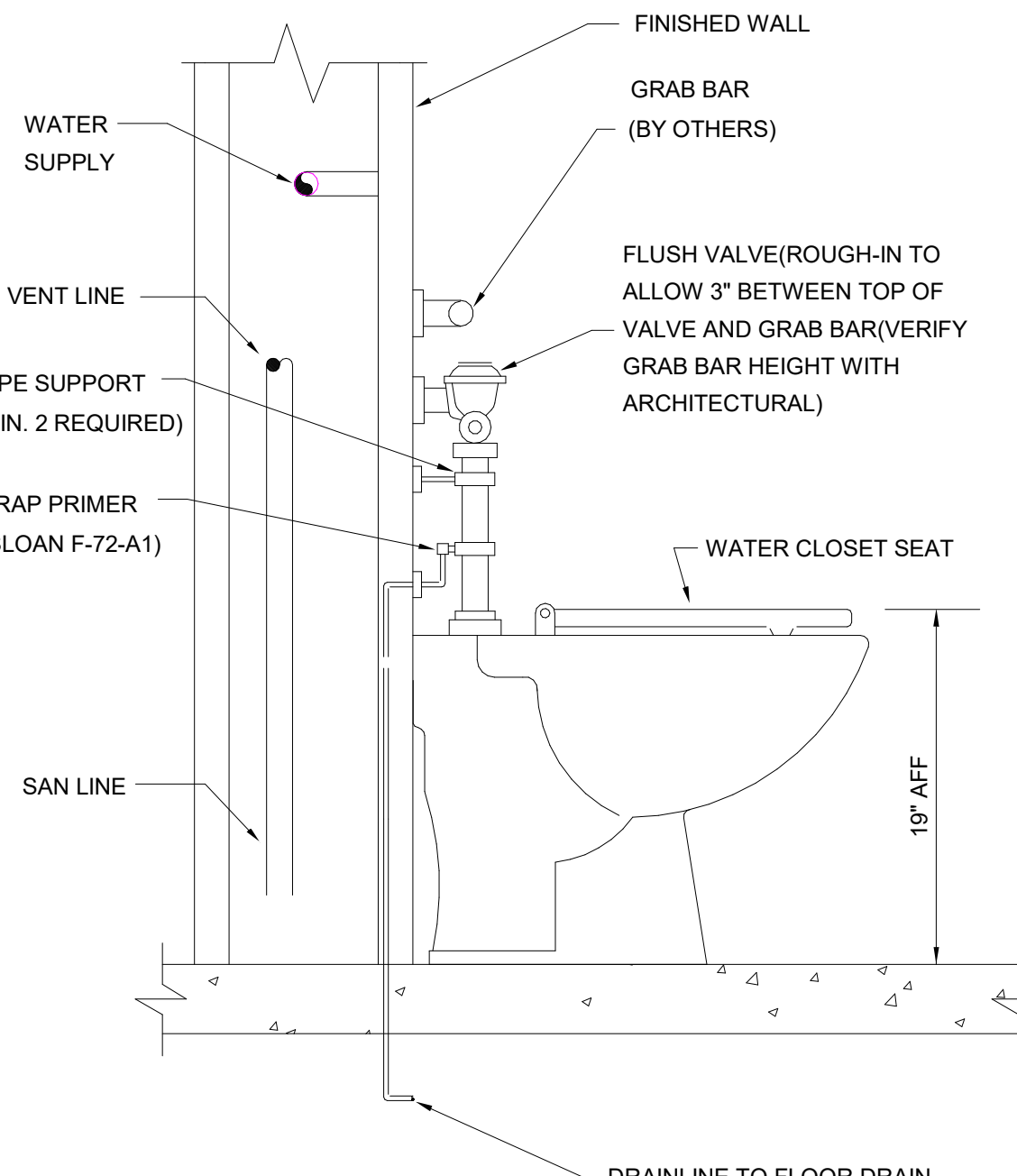


4 HOSE BIBB DETAIL
P5.1 No Scale

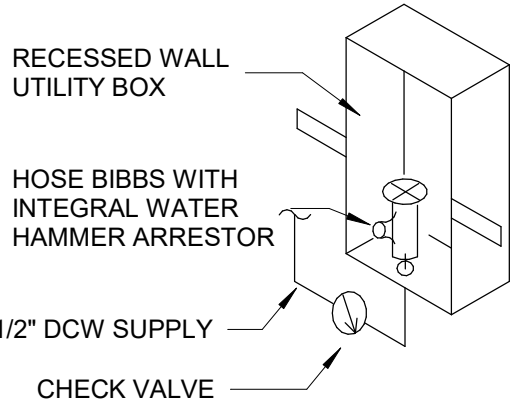


NOTE:
BOD: HOLDRITE UP TO 750LBS OR 50 GAL MAX
MOUNT AT LEAST 4" AFF

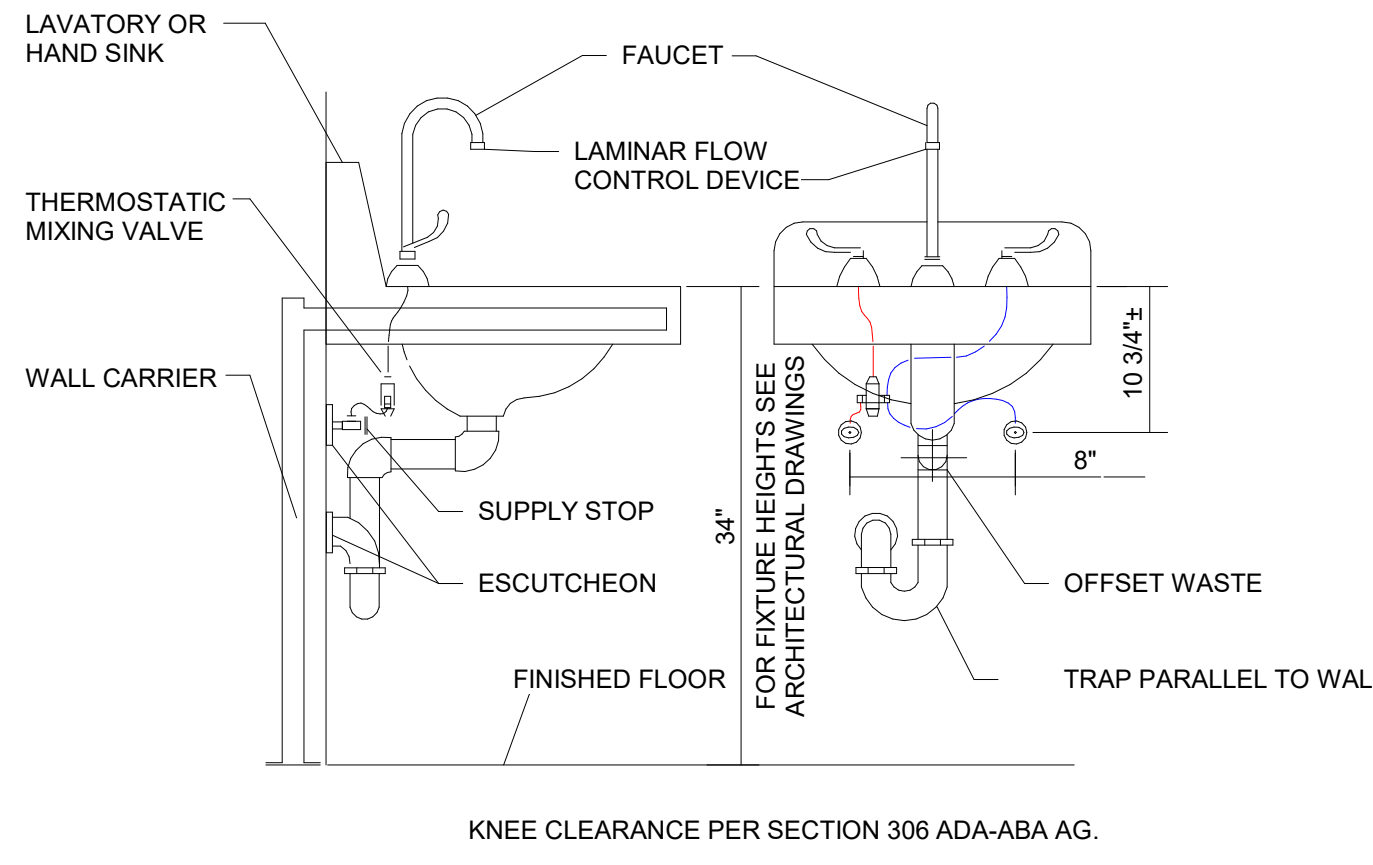
5 WATER HEATER PIPING DIAGRAM DETAIL
P5.1 No Scale



6 FLUSH VALVE TOILET DETAIL
P5.1 No Scale

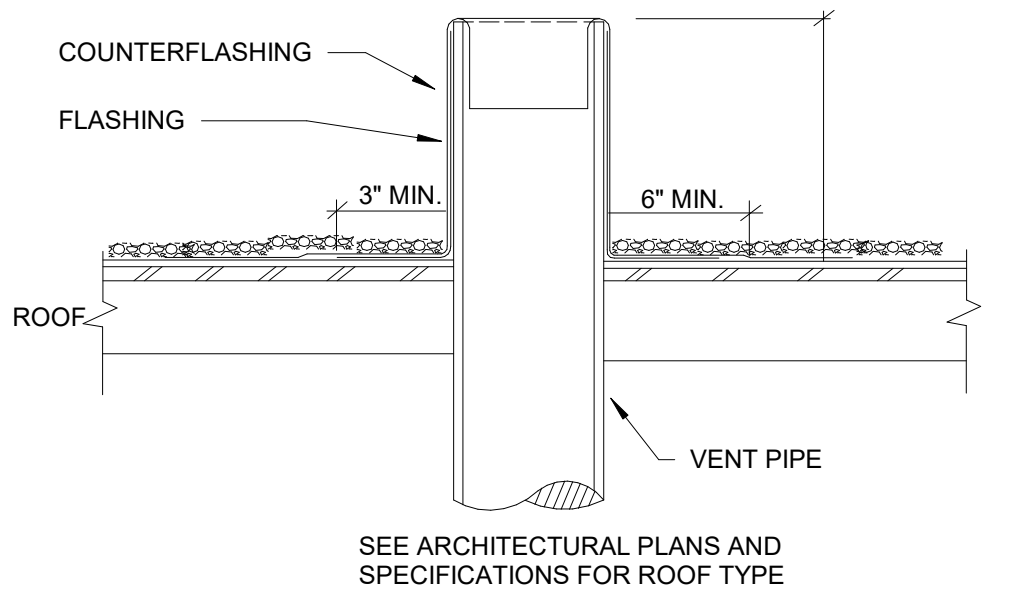


7 ICE MAKER BOX DETAIL
P5.1 No Scale



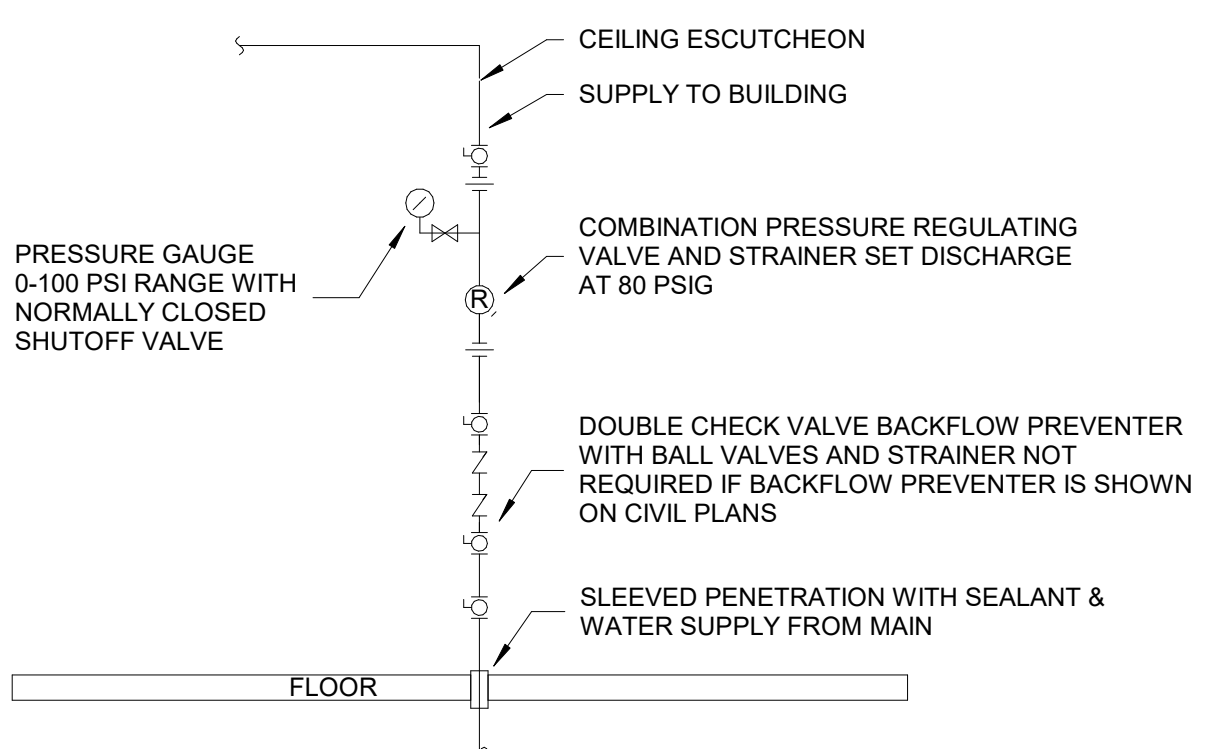
- NOTES:
1. ALL HAND SINKS AND LAVATORIES REQUIRED TO MEET A.D.A. GUIDELINE SHALL HAVE ADA COMPLIANT UNDER-SINK PROTECTION. SUPPLY, WASTE AND VALVES MUST ALL BE COVERED.
 2. ALL HAND SINKS AND LAVATORIES REQUIRE THERMOSTATIC MIXING VALVES ASSE 1070 CERTIFIED AND SET TO 110°F

8 LAV WITH THERMOSTATIC MIXING VALVE DETAIL
P5.1 No Scale

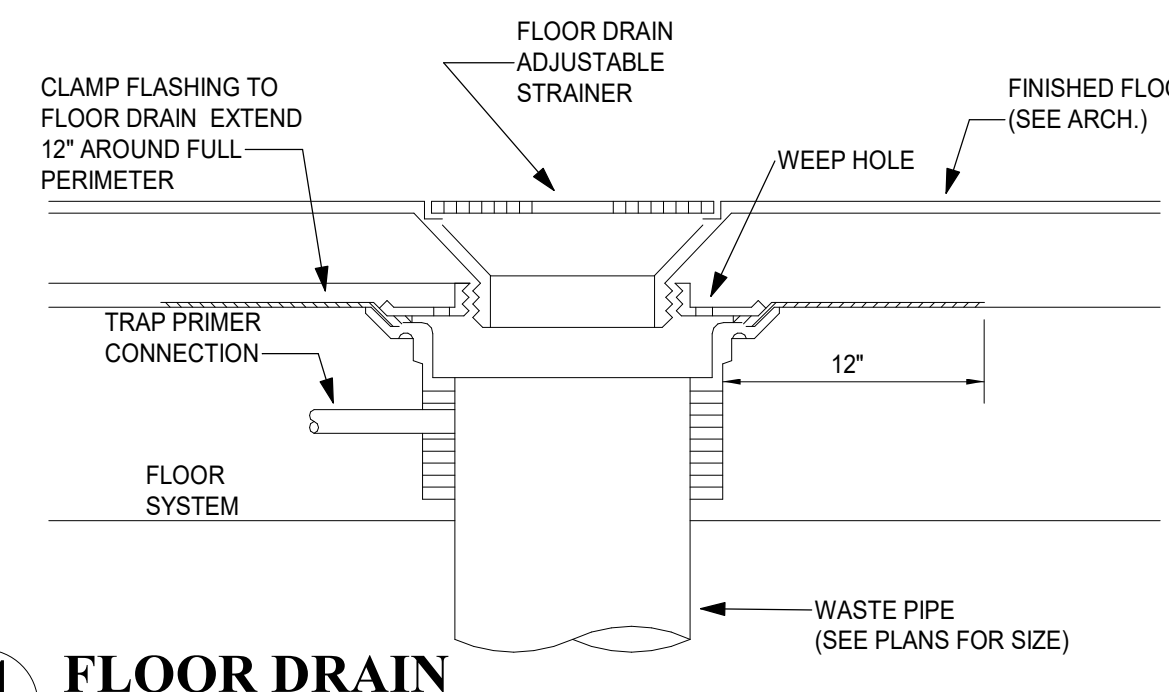


- NOTES:
1. FLASHING AND COUNTERFLASHING FURNISHED BY PLUMBING CONTRACTOR AND INSTALLED BY ROOFING CONTRACTOR.
 2. PAINT VENT TO MATCH ROOF.

9 VENT THROUGH ROOF DETAIL
P5.1 No Scale



10 WATER SERVICE ENTRANCE DETAIL
P5.1 No Scale

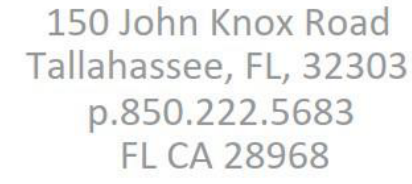


11 FLOOR DRAIN
P5.1 No Scale

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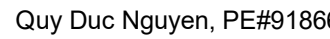


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P6.1

PLUMBING FIXTURE CALCULATION									
PFC NOTE: FIXTURE UNITS BASED ON TABLES FBC-P 709 & E103.3 (2).									
MARK	QUANTITY	GWFU	TOTAL CWFU	HWFU	TOTAL HWFU	VSFU	COMBINED WSFU	WFU	TOTAL WFU
HB	4	0.25	1	0	0	0	0	0	0
IM	1	0.25	0.25	0	0	0.25	0.25	0	0
LAV	2	1.5	3	1.5	3	2	4	1	2
MIS	1	2.25	2.25	0	2.25	3	3	2	2
SK	1	1	1	1	1	1.4	1.4	2	2
WC	2	10	20	0	0	0	0	4	8
WF	1	0.25	0.25	0	0	0.25	0.25	0.5	0.5
TOTAL 12	12		34.75		6.25		36.9		14.5

BUILDING SERVICE REMARKS:
BRING ANY ISSUES TO EOR.
RESIDUAL PRESSURE: 50 PSI
WATER LINE SIZED PER FBC-P TABLE 201.1
SEWER SIZED PER FBC-P TABLE 710.1(f)
EXISTING LIBRARY HAS 2" WATER METER
MAIN DISTRIBUTION INCREASED IN SIZE DUE TO MINIMUM SUPPLY PER FLUSH VALVE SIZING

[illegible]



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**PLUMBING RISER
DIAGRAM
P9.1**



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