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PLUMBING LEGEND	
120 HOT WATER SUPPLY	----- DHW -----
HOT WATER RETURN	----- HWR -----
COLD WATER SUPPLY	----- DCW -----
SANITARY	----- SAN -----
KITCHEN GREASE SANITARY	----- GW -----
STORM	----- ST -----
STORM OVERFLOW	----- STO -----
VENT PIPING	----- VENT -----
CONDENSATE	----- C -----
ELBOW, TURNED DOWN	DN -----
ELBOW, TURNED UP	UP -----
ELBOW, 90°	F -----
CONNECTION, TOP	-----
CONNECTION, BOTTOM	-----
CONNECTION, SIDE	-----
CAP, AIR AND WATER TIGHT	-----
VENT THROUGH ROOF	VTR-----
RECIRCULATION PUMP	BCP#
CHECK VALVE / BACKFLOW PREVENTOR	CV
BALL VALVE	CV
FLOW CONTROL VALVE	FCV
WATER METER	M
PRESSURE REGULATOR	R
SOLENOID SHUTOFF VALVE	SV
HOSE BIBB WITH VACUUM BREAKER	HBB# + -----
AIR ADMITTANCE VALVE (BOD: STUODR)	AAV
UNION	-----
WALL CLEANOUT	WCO#-----
FLOOR CLEANOUT	FCO#-----
FLOOR DRAIN	FD#-----
FLOOR SINK	FS#-----
EXISTING SYSTEM PIPING	EX###-----
TO BE DEMOLISHED	----- EX### -----
DEMOLITION KEYNOTE	#
RENOVATION KEYNOTE	#
CONNECT TO EXISTING	-----
LIMITS OF DEMOLITION	-----
ACCESS PANEL	AP
MIN. INVERT ELEVATION	MIN. I.E. 38' 6" F.F. 0
ALL MAY NOT APPLY	

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, TEFLOON 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 ASSE1024 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 FS/SD-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" IMCOLOCK PRE-SLIT, PRE-GLUED INSULATION. INSULATE FITTINGS WITH MITERED CUT PIECES OF IMCOLOCK, 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.	

ABBREVIATIONS	
AAV	AIR ADMITTANCE VALVE
AFF	ABOVE FINISHED FLOOR
AHAP	AS HIGH AS POSSIBLE
BFP	BACK FLOW PREVENTOR
BF	BELOW FLOOR
BFF	BELOW FINISHED FLOOR
BG	BELOW GRADE
BOD	BASIS OF DESIGN
C	CONDENSATE
CO	CLEAN OUT
CWV	COMBINATION WASTE AND VENT
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DN	DOWN
ECO	EXTERIOR CLEANOUT
EW	ELECTRIC WATER COOLER
EW	ELECTRIC WATER HEATER
EX	EXISTING
FC	FLOW CONTROL VALVE
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
GW	GAS WATER HEATER
HB	HOSE BIBB
HD	HUB DRAIN
HWR	HOT WATER RETURN
IE	INVERT ELEVATION
IM	ICE MAKER VALVE BOX
IRP	IN-LINE RECIRCULATION PUMP
L	LAVATORY
MS	MOP SINK
PF	PLUMBING FIXTURE
PR#	PRESSURE RISER NO.
SAN	SANITARY WASTE
SH	SHOWER
SK	STAINLESS STEEL SINK
SR#	SANITARY RISER NO.
TYP	TYPICAL
TMV	THERMOSTATIC MIXING VALVE
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTER
WHY	FREEZE PROOF WALL HYDRANT
WMB	WASH MACHINE BOX
XT	EXPANSION TANK

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		JR SMITH M#
FLOOR (FCO) (CAST IRON BODY, BRONZE PLUG, NICKEL BRONZE TOP)			4028C
WALL (WCO) (CAST IRON BODY, BRONZE PLUG STAINLESS STEEL COVER)			4532S
EXPOSED (TCO) (CAST IRON BODY, BRONZE PLUG, THREADED CAP)	HORIZONTAL VERTICAL		4400C 4512S
EXTERIOR CLEANOUT SCHEDULE			
	TYPE		JR SMITH M#
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 WHEN 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 120F 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 1IN OF INSULATION HAVING A CONDUCTIVITY OF 0.27 (BTU / IN / H X FT^2 X °F).	
5. CIRCULATING HOT WATER SYSTEM PUMPS OR HEAT TRACE SHALL BE ARRANGED TO BE TURNED OFF EITHER AUTOMATICALLY OR MANUALLY WHEN THERE IS LIMITED HOT WATER DEMAND. READY ACCESS SHALL BE PROVIDED TO THE OPERATING CONTROLS.	
6. FOR NON-CIRCULATING STORAGE WATER TANKS HEAT TRAPS MUST BE INSTALLED ON THE SUPPLY AND DISCHARGE PIPING ASSOCIATED WITH THE EQUIPMENT.	
7. CONDENSER HEAT RECOVERY SHALL BE INSTALLED FOR HEATING OR REHEATING OF SERVICE HOT WATER, PROVIDED THE FACILITY OPERATES 24 HOURS A DAY, THE TOTAL HEAT CAPACITY OF WATER-COOLED SYSTEMS EXCEEDS 6,000,000 BTU/Hr OF HEAT REJECTION, AND THE DESIGN SERVICE WATER HEATING LOAD EXCEEDS 1,000,000 BTU/Hr. THE HEAT RECOVERY SHALL PROVIDE THE SMALLER OF EITHER: 60% OF THE PEAK HEAT REJECTION LOAD AT DESIGN CONDITIONS, OR PROVIDE THE PREHEATING REQUIRED TO RAISE THE PEAK SERVICE HOT WATER DRAW TO 85°F.	

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, TAKFIX 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 CONFORMING TO ASSE1018. USE SELF SEAL RUBBER TYPE 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 SPIGOT FITTINGS OR PVC PIPING WITH 1/2" THICK FIRE WRAP INSULATION SEALED TO PROVIDE FS/SD-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.	

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 AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL 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 EPS 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 UL 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
P01	PLUMBING NOTES & LEGEND
P1.00	PLUMBING DEMOLITION FLOOR PLAN
P1.1	SANITARY FLOOR PLAN
P1.2	PRESSURE FLOOR PLAN
P1.3	STORM FLOOR PLAN
P5.1	PLUMBING DETAILS
P5.2	PLUMBING DETAILS
P6.1	PLUMBING SCHEDULES
P6.1	SANITARY RISER DIAGRAM
P6.2	PRESSURE RISER DIAGRAM
P60.1	GAS NOTES & LEGEND
P61.1	GAS & RISER FLOOR PLAN



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HAVANA, FL 32333



P1.0D Scale: 3/16" = 1'-0"

Scale: 3/16" = 1'-0"

Quy Duc Nguyen, P.E., State of Florida, Professional Engineer, License No. F. 91866. This Item has been digitally signed and sealed by Quy Duc Nguyen, P.E. on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

DEMOLITION GENERAL NOTES - P1.0D

1. SANITARY SEWER SYSTEM HAS BEEN DESIGNED & ROUTED WITH COORDINATION OF STRUCTURAL FOOTERS & FOUNDATION PLANS. THESE DOCUMENTS SHOULD BE FIELD VERIFIED PRIOR TO INSTALLATION TO ASSURE COMPLIANCE. COORDINATE SLAB CUT WITH ARCHITECT DEMOLITION SHEETS.
2. CONTRACTOR SHALL FIELD VERIFY EXISTING SANITARY UTILIZING TV SCOPE AND LOCATION EQUIPMENT. PRIOR TO COMMENCEMENT OF WORK.
3. CONTRACTOR SHALL RECONNECT NEW PIPING TO EXISTING PIPES BELOW GRADE AT PROPER ELEVATION INVERT. BRING ANY ISSUES TO EOR FOR CONSIDERATION AND DIRECTION.
4. CONTRACTOR SHALL DEMOLISH ALL ABOVE GROUND EXISTING FIXTURES AND PIPES AS SHOWN. ALL BELOW GROUND PIPES SHALL BE ABANDONED, CAP AIR AND WATER TIGHT IN CONCEALED LOCATIONS.

DEMOLITION KEYED NOTES

1	DEMOLISH PLUMBING FIXTURES AND THEIR ASSOCIATED SANITARY BACK TO FLOOR AND WALL. DEMOLISH ASSOCIATED VENTING AND V.T.R. CAP AND SEAL SANITARY AND VENTS AIR TIGHT AND CONCEAL ANY REMAINING PIPES UNDERGROUND OR BEHIND WALL. SEAL AIR AND WATER TIGHT REMAINING VOID IN ROOF STRUCTURE DUE TO REMOVAL OF V.T.R.
---	--



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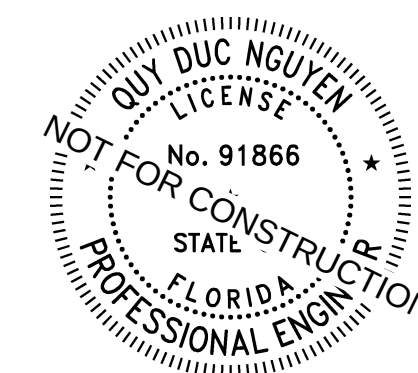
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Quy Duc Nguyen, PE#91866

Submittal

Phase	Date	Drw	Cl
SCHEMATIC DESIGN	03/10/26	LJ	BK
50% CONSTRUCTION DOC.	03/27/26	LJ	BK
90% CONSTRUCTION DOC.	04/06/26	LJ	BK
100% CONSTRUCTION DOC.			
PERMIT DOCS.			

Revision

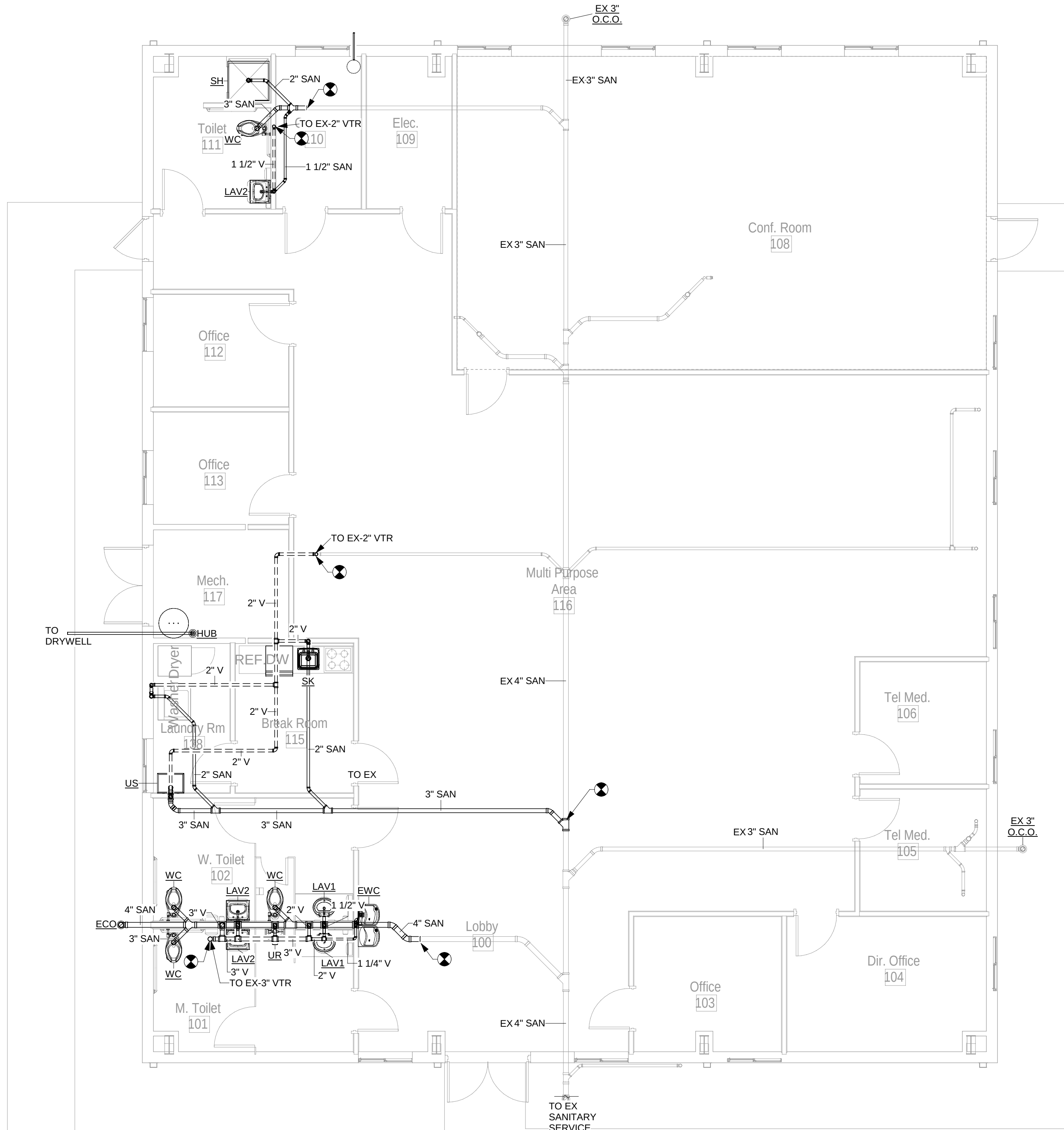
#	Description	Date
1		

CRA Project #	23065
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Phase: **90% CD**

SHEET TITLE

**PLUMBING DEMOLITION
FLOOR PLAN
P1.0D**



1 RENOVATION PLAN - SANITARY

Scale: 3/16" = 1'-0"

SANITARY GENERAL NOTES - P1.1	
1. CONTRACTOR SHALL FIELD VERIFY EXISTING SANITARY PRIOR TO COMMENCEMENT OF WORK.	
2. CONTRACTOR SHALL REFER TO OWNER/ ARCHITECT FOR RE-USE OF FIXTURES IN RENOVATION PHASE. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER DISPOSAL OF DEMOLISHED PIPES AND FIXTURES.	
3. CONTRACTOR SHALL RECONNECT NEW PIPING TO EXISTING PIPES BELOW GRADE AT PROPER ELEVATION INVERT.	
X	SANITARY KEYED NOTES

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#	Description	Date
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SHEET TITLE

SANITARY FLOOR PLAN

P1.1

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PRESSURE GENERAL NOTES - P1.2

1. ALL EXISTING PIPEWORK SHALL BE INSULATED AND SEALED TO THE SAME STANDARD OF THE NEW INSTALLATIONS



PRESSURE KEYED NOTES

1	REUSE EX SERVICE ENTRANCE. INSTALL WITH NEW VALVES. SEE DETAIL PROVIDE ACCESS PANEL.
---	---



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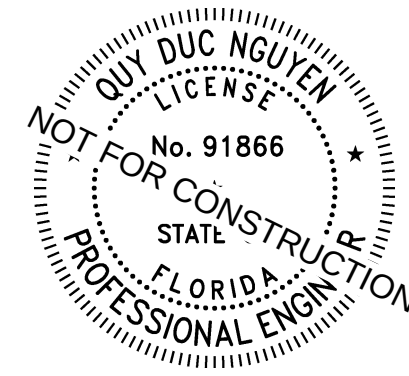
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CRA Project #	23065
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Phase: **90% CD**

SHEET TITLE

PRESSURE FLOOR PLAN **P1.2**

1 RENOVATION PLAN - PRESSURE
P1.2 Scale: 3/16" = 1'-0"

Scale: 3/16" = 1'-0"



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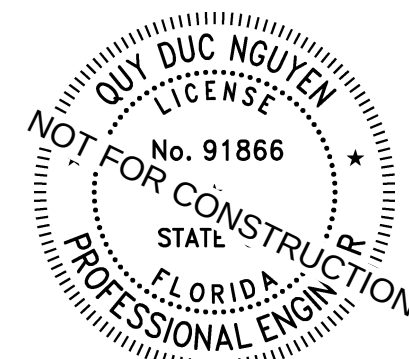
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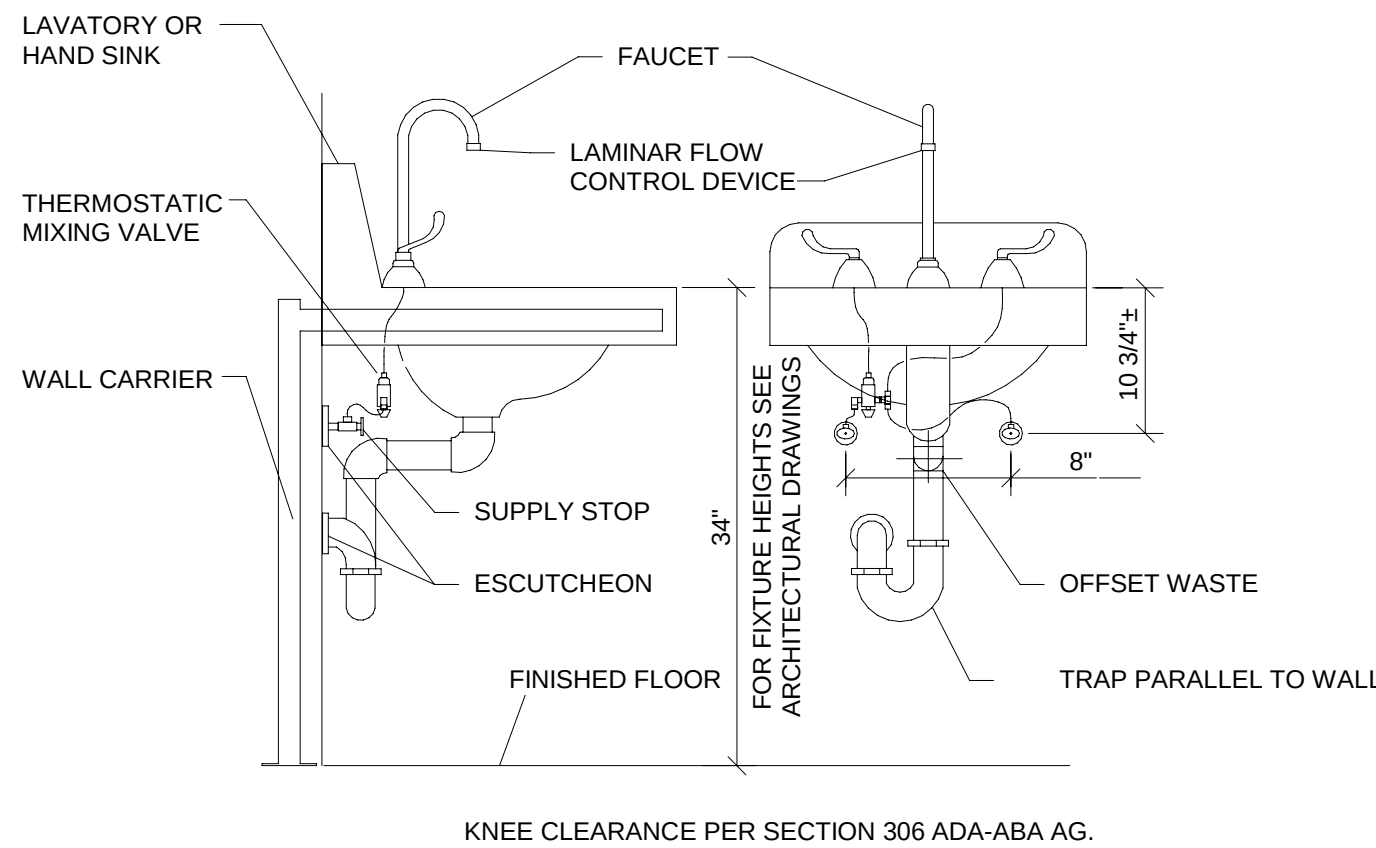
CRA Project # 23065

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PLUMBING DETAILS

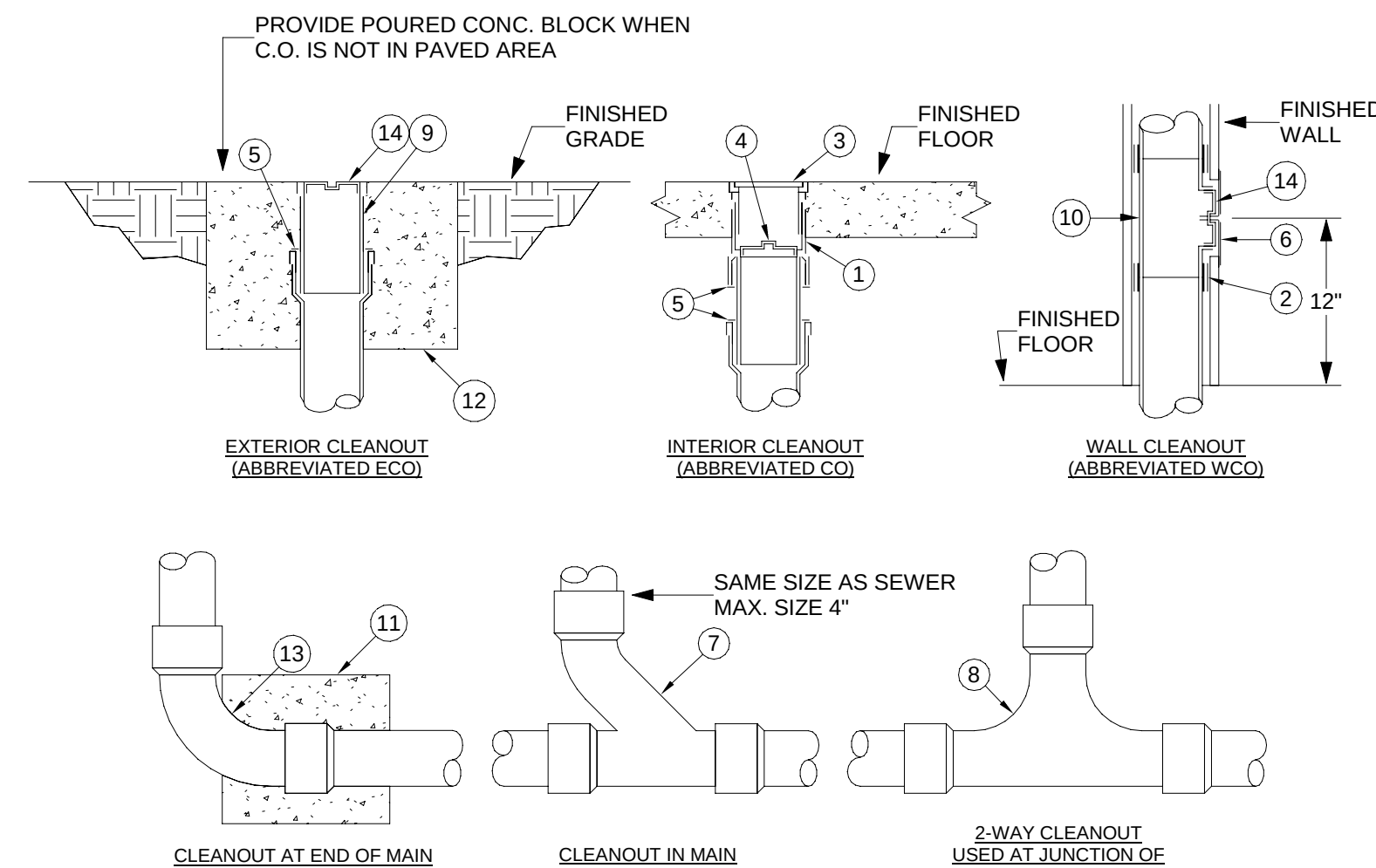
P5.1



- 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

1 LAV WITH THERMOSTATIC MIXING VALVE DETAIL

P5.1 No Scale

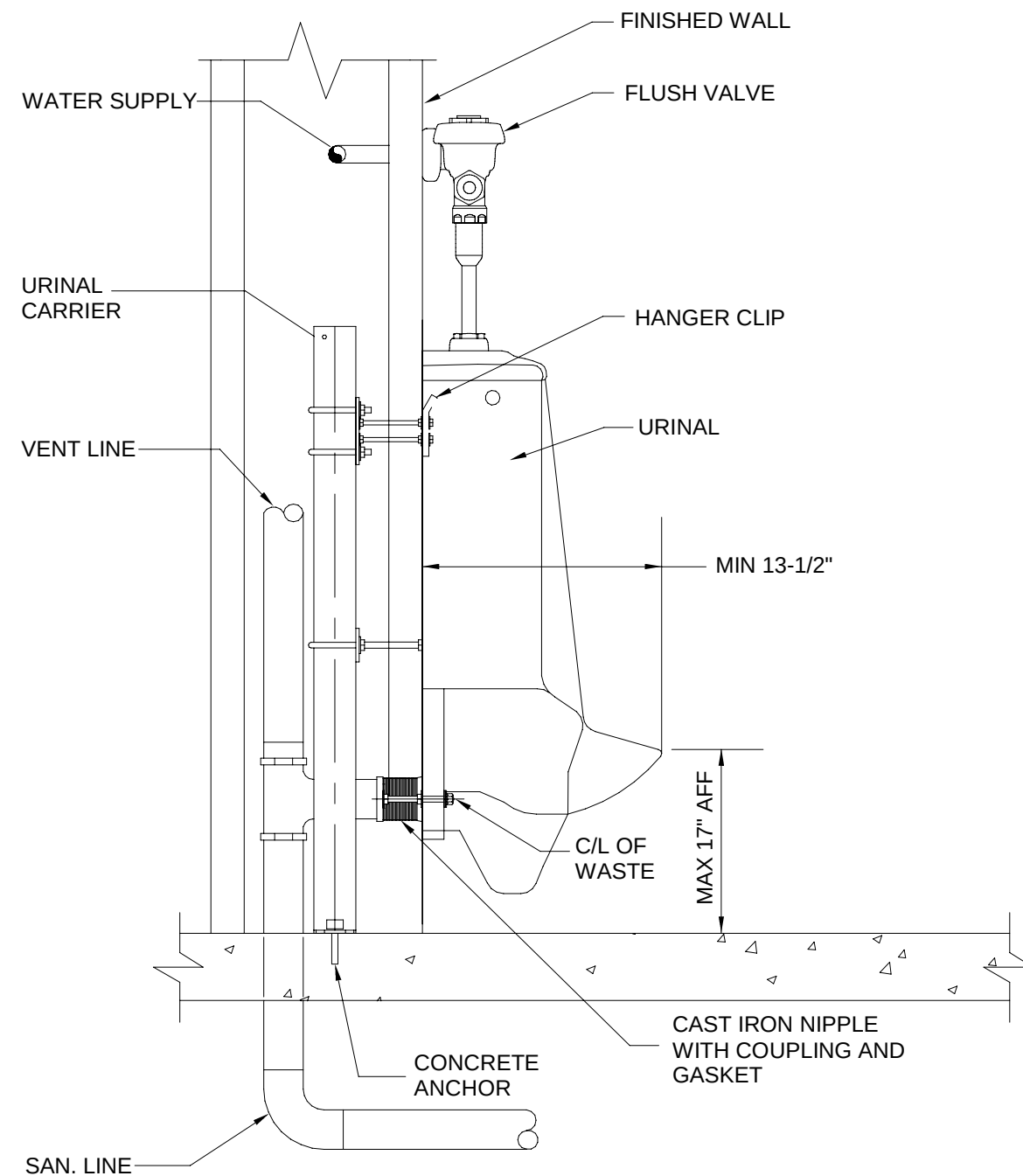


KEY NOTES: (THIS DETAIL ONLY)

- 1 CAST IRON 2-PIECE CLEANOUT BODY WITH ADJUSTABLE HEAD.
- 2 NO-HUB COUPLING (FOR ABOVE GROUND APPLICATION ONLY).
- 3 POLISHED NICKEL BRONZE SCORIATED 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 "Y" & 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.

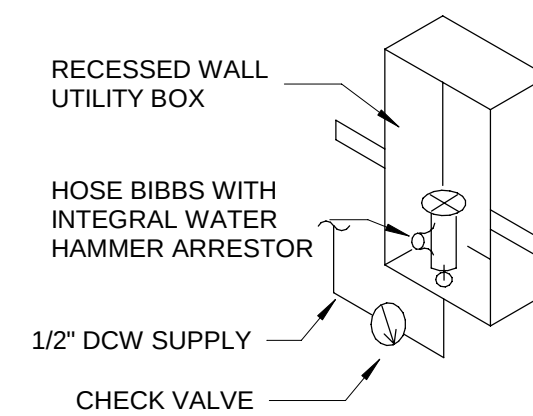
5 TYPICAL CLEANOUT

P5.1 No Scale



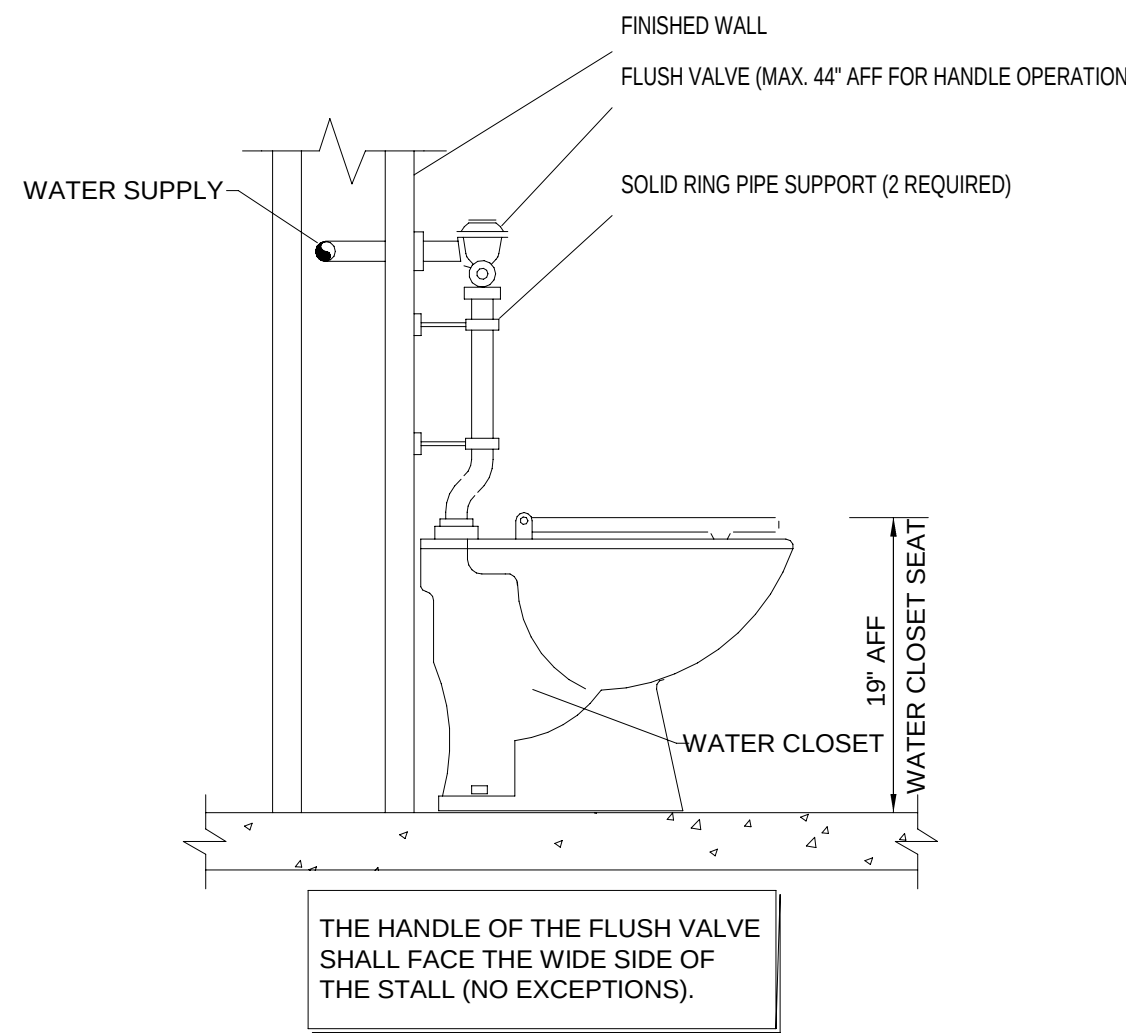
2 HANDICAPPED URINAL DETAIL

P5.1 No Scale



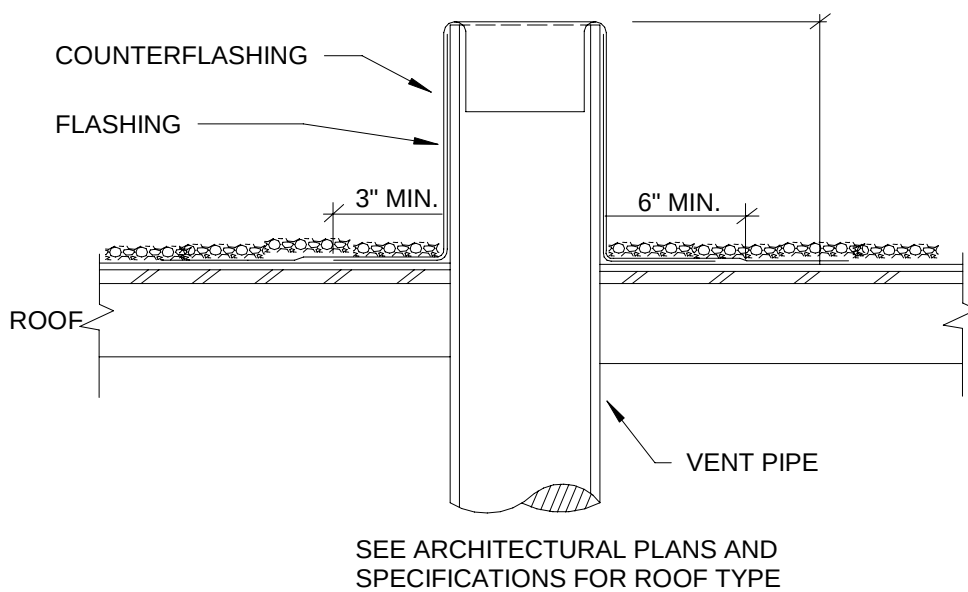
3 ICE MAKER BOX DETAIL

P5.1 No Scale



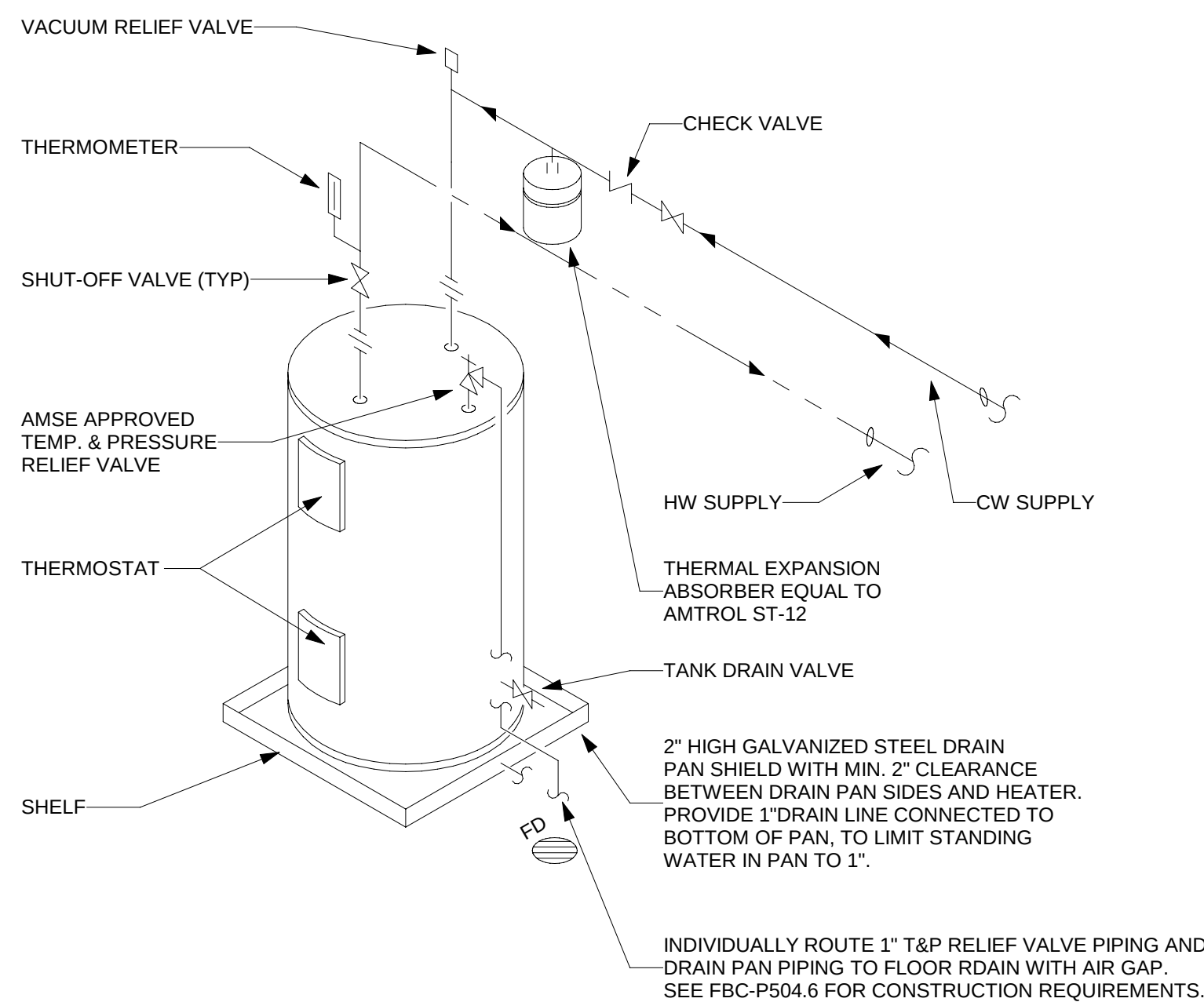
4 FLUSH VALVE WATER CLOSET DETAIL

P5.1 No Scale



6 VENT THROUGH ROOF DETAIL

P5.1 No Scale



7 WATER HEATER PIPING DIAGRAM DETAIL

P5.1 No Scale



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PERMIT DOCS.			

Revision

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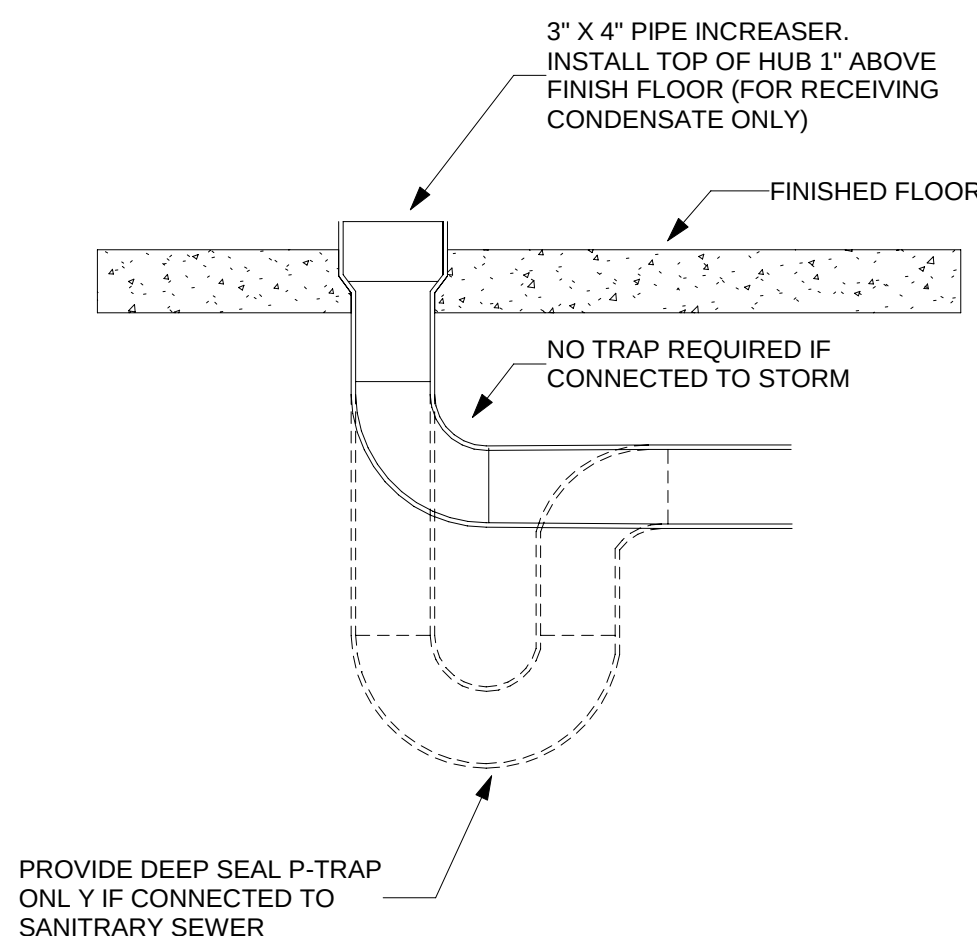
CRA Project # 23065

Phase: **90% CD**

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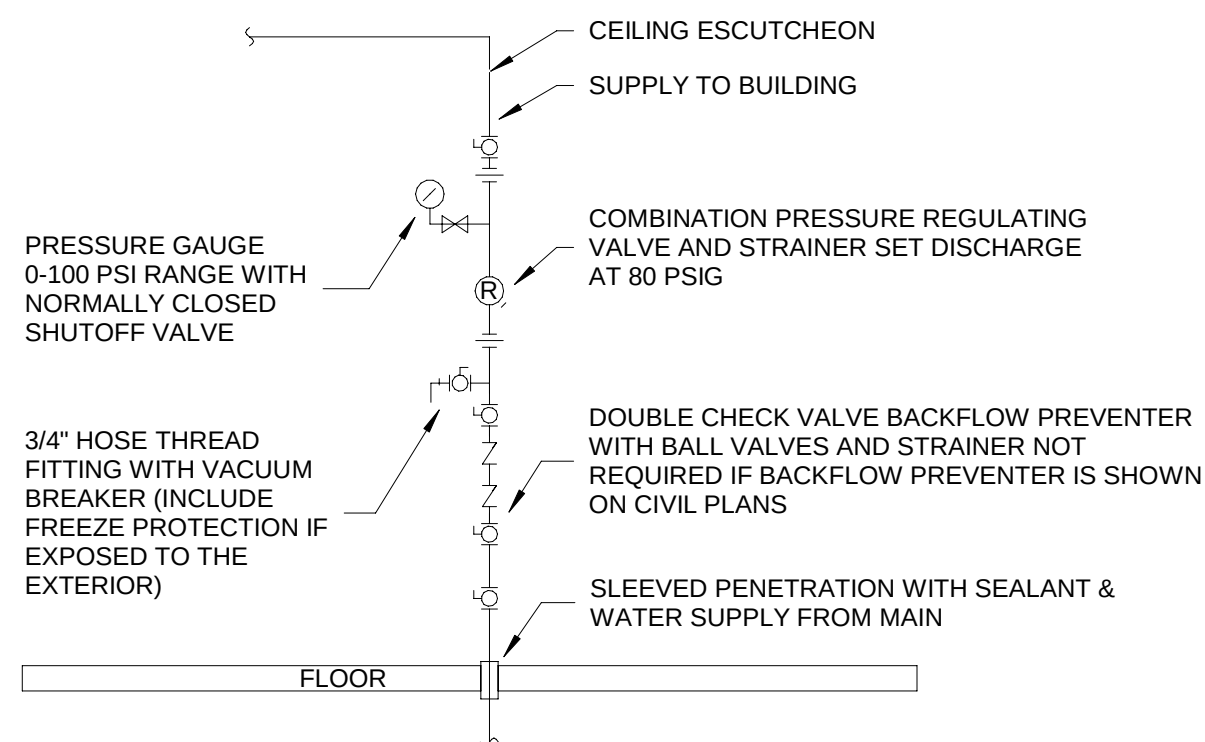
PLUMBING DETAILS

P5.2



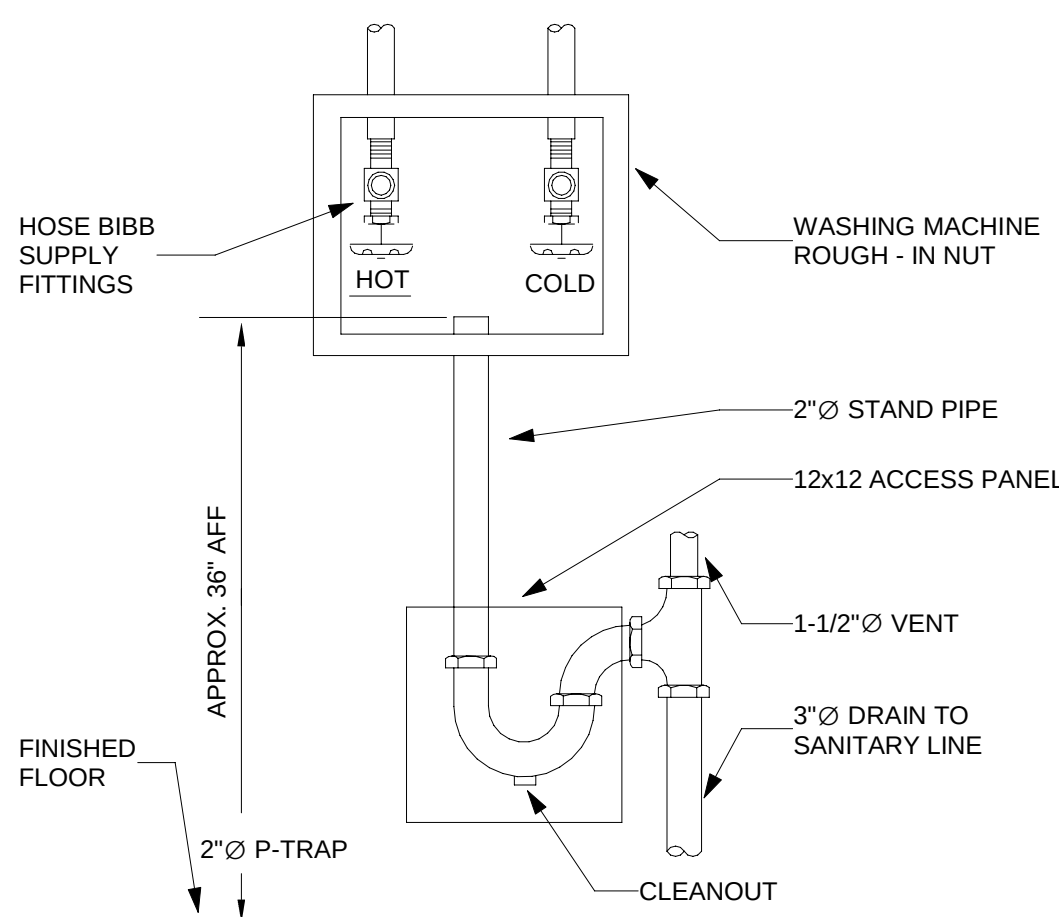
1 HUB DRAIN DETAIL

P5.2	No Scale
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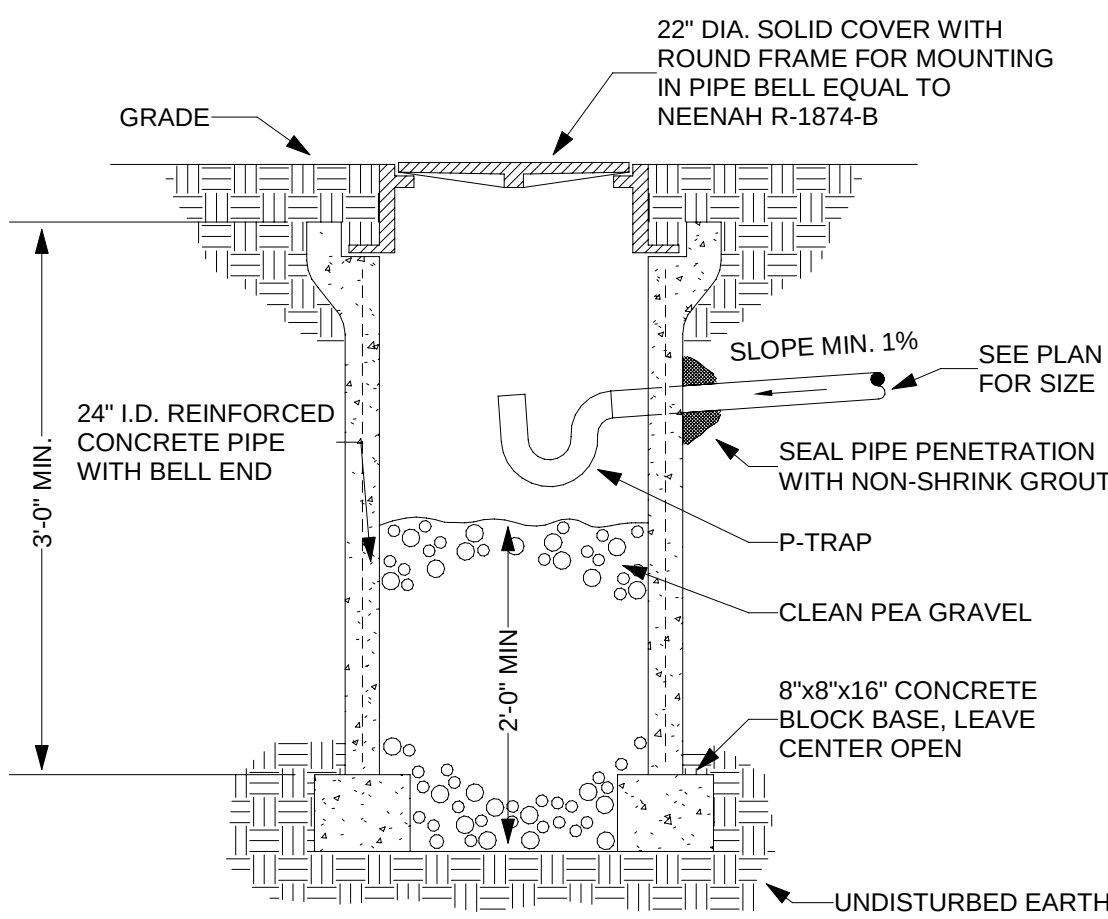
2 WATER SERVICE ENTRANCE DETAIL

P5.2 No Scale



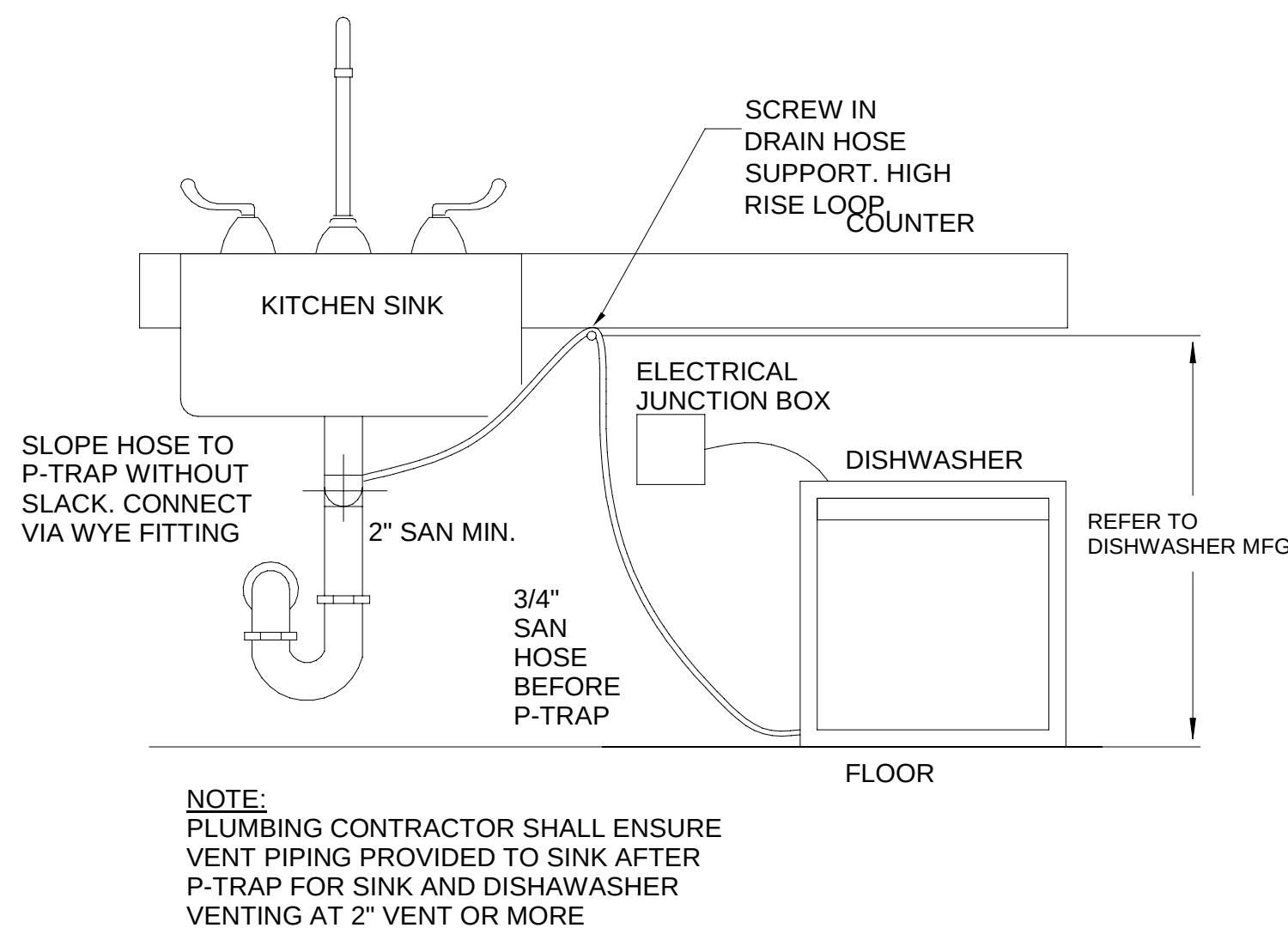
4 LAUNDRY MACHINE CONNECTION

P5 2	No Scale
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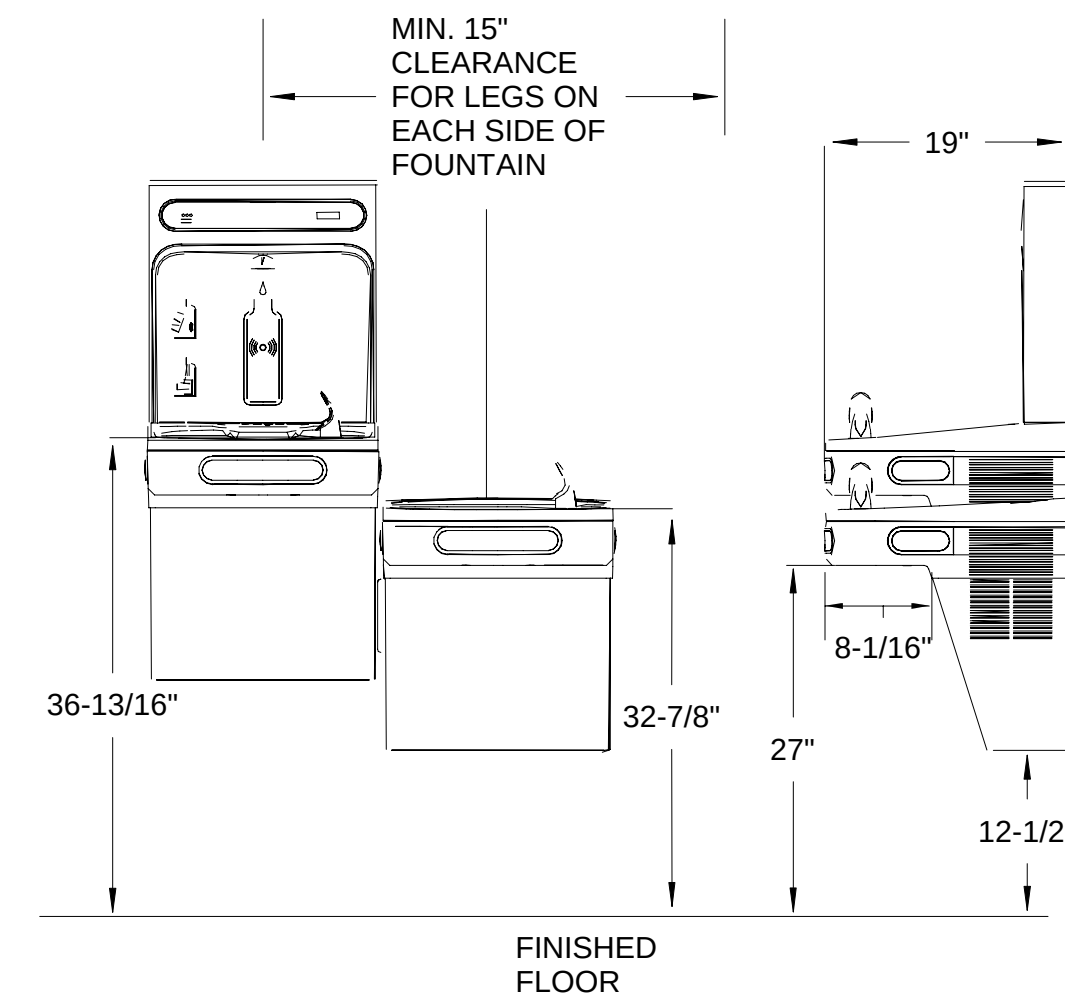
5 DRYWELL DETAIL

P5 2 No Scale



3 DISH WASHER TIE-IN DETAIL

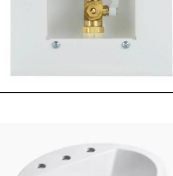
P5.2 No Scale



6 ADA DUAL HEIGHT DRINKING FOUNTAIN DETAIL

P5 2 No Scale

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PLUMBING FIXTURE SCHEDULE									
MARK	TYPE	MANUFACTURER	MODEL	FIXTURE DESCRIPTION	CW	HW	SAN	IMAGE	COUNT
DW	DISHWASHER	OWNER SELECTED	OWNER SELECTED	OWNER SELECTED DISHWASHER, DRAIN DISHWASHER WITH 1-1/4" HOSE INTO BACK OF SINK P-TRAP. REFER TO DISHWASHER DETAIL.	1/2"	1/2"	1 1/4"		1
EWC	ADA DUAL HEIGHT DRINKING FOUNTAIN	ELKAY	LZSTL8WSLK	WALL MOUNT DUAL HEIGHT ADA ELECTRIC WATER COOLER WITH BOTTLE FILLER. FILTERED, REFRIGERATED CHILLING CAPACITY OF 8 GPH OF 50 DEGREE DRINKING WATER. ELECTRONIC BOTTLE FILLER SENSOR WITH ELECTRONIC FRONT AND SIDE PUSHBAR ACTIVATION. MCGUIRE 17 GA FULLY CAST BRASS P-TRAP AND TAILPIECE. MCGUIRE ANGLE SUPPLY STOPS AND BRAIDED STAINLESS STEEL SUPPLY. CHROME PLATED ESCUTCHEON PLATE WITH SET SCREW. PROVIDE BACKFLOW PREVENTER AND WALL CARRIER.	1/2"	0"	1 1/2"		1
EWH	ELECTRIC WATER HEATER	AO SMITH	DEN-52	50 GALLON TANK, 140 DEGREE OUTPUT, 72 DEG TEMPERATURE RISE, 4.5 KW HEAT INPUT, 208V/1PHASE, 66 USGPH 1ST HOUR DELIVERY, 26 USGPH AT 72 DEGREE RISE HEATER RECOVERY. DRAIN T&P VALVE TO HUB DRAIN SEPARATELY FROM DRAIN PAN VALVE.	1 1/4"	1 1/4"	0"		1
HB	WALL HYDRANT	WOODFORD	24	ANTI-SIPHON, VACUUM BREAKER PROTECTED WALL FAUCET, AND LOOSE-KEY OPERATION.	3/4"	0"	0"		4
HUB	HUB DRAIN	WATTS	FD-100-DD	HUB FUNNEL, EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, ADJUSTABLE CAST IRON HUB FUNNEL.	0"	0"	1"		1
IM	ICE MAKER BOX	GUY GREY	88531	WHITE POWDER-COATED COLD-ROLLED STEEL ICE MAKER OUTLET BOX, 4"X4"X2" OPENING, WATER HAMMERARRESTER VALVE, 1/4 TURN VALVE.	1/2"	0"	0"		1
LAV1	UNDERMOUNT LAVATORY	AMERICAN STANDARD	9482	AMERICAN STANDARD OVALYN UNIVERSAL ACCESS SINK, VITREOUS CHINA, UNGLAZED RIM FOR UNDER COUNTER MOUNT. SUPPLY WITH MOUNTING KIT (047194-0070A), ADA COMPLIANT. MOUNT PER ADA CODE REQUIREMENTS, TMV, FAUCET: AMERICAN STANDARD 7075055.002.	1/2"	1/2"	1 1/2"		2
LAV2	LAVATORY	KOHLER	K-2005	SINK BASIN: (20-1/2" x 18-1/4" x 12-1/8") VITREOUS CHINA, WALL HUNG, WALL CARRIER WITH CONCEALED ARMS, FRONT OVERFLOW, TMV, SELF DRAINING FAUCET LEDGE, SIDE SPLASH SHIELD, ADA COMPLIANT. FAUCET: DELTA D501LF-HDF CENTERSET, PROVIDE LAV SHIELD.	1/2"	1/2"	1 1/2"		3
SH	SHOWER	KOHLER	KSS-PURIST-4-RT HS-CP	KOHLER ADA KSS-PURIST-4-RTHS-CP SHOWER COMBO REQUIRES K-8593, K-9514, K-98360, K-98359, K-45981, TMV, OR CODES/STANDARDS K-45982 SHOWER HOSE, 2.5 GPM, 60 IN. HOSE LENGTH, SHOWER HEAD 1.75 GPM AND 80 PSI, 5-1/2" DIAMETER SPRAYFACE, 1/2" - 14 NPT CONNECTION, 30" ADJUSTABLE SLIDEBAR	1/2"	1/2"	2"		1
SK	SINGLE BOWL SINK	ELKAY	LRAD191955	COUNTERTOP SINGLE COMPARTMENT SINK, TMV, ADA, S.S., 20"X19", TYPE 302, 18 GAGE S.S. SINK, BOWL SHALL BE 17X 13-1/2"X 5-1/2" DEEP. PAIRS WITH LK406GN04L2 FAUCETS.	1/2"	1/2"	2"		1
UR	ADA URINAL	KOHLER	K-5016-ET	ADA WALL HUNG URINAL, VITREOUS CHINA, 0.125 GPF TOUCHLESS FLUSHOMETER, HARD WIRED, MOUNTING HEIGHT SHALL BE 17" FROM BOWL FLOOD RIM TO FINISHED FLOOR. INSTALL WITH WALL CARRIER.	3/4"	0"	2"		1
US	UTILITY SINK	MUSTEE	19CF	ONE PIECE MOLDED CONSTRUCTION, 18 GALLON CAPACITY, 6" SWING SPOUT FAUCET, 1-1/2" PVC P-TRAP, FLOOR MOUNTED, 34" TALL.	3/4"	3/4"	3"		1
WB	WASHING MACHINE SUPPLY BOX	GUY GRAY	FB8200TS	11"x20" RECESSED SUPPLY BOX WITH WALL FLANGE MANUFACTURED FROM 18 GAUGE STEEL WITH WHITE POWDER COAT FINISH. FURNISH WITH SUPPLY VALVES AND 2" DRAIN OUTLET.	1/2"	1/2"	2"		1
WC	FLOOR MOUNT FLUSH VALVE WATER CLOSET	AMERICAN STANDARD	3043528	WATER CLOSET, ADA, FLOOR MOUNT, FLUSH VALVE, VITREOUS CHINA, SIPHON JET FLUSHING ACTION, ELONGATED RIM, MIN. 17" RIM HEIGHT, 1-1/2" TOP SPRU, TOUCHLESS BATTERY-POWERED 1.28 GPF PISTON (CAN OTHERWISE PAIR WITH SLOAN ROYAL 111ESS/GEM 111BYC FLUSH VALVES). INSTALL WITH WATER HAMMER ARRESTOR.	1"	0"	3"		4

PLUMBING FIXTURE CALCULATION									
MARK	QUANTITY	CWFU	TOTAL CWFU	HWFU	TOTAL HWFU	WSFU	COMBINED WSFU	WFU	TOTAL WFU
DW	1	0	0	1.4	1.4	1.4	1.4	2	2
EWC	1	0.25	0.25	0	0	0.25	0.25	0.5	0.5
H8	4	2	8	0	0	2	8	0	0
IM	1	0.25	0.25	0	0	0.25	0.25	0	0
LAV1	2	1.5	3	1.5	3	2	4	1	2
LAV2	3	1.5	4.5	1.5	4.5	2	6	1	3
SH	1	3	3	3	3	4	4	2	2
SK	1	1	1	1	1	1.4	1.4	2	2
UR	1	5	5	0	0	5	5	2	2
US	1	2.25	2.25	2.25	2.25	3	3	2	2
WB	1	1	1	1	1	1.4	1.4	2	2
WC	4	10	40	0	0	10	40	4	16
TOTAL	21	21	68.25		16.15		74.7		33.5

PFC NOTE:FIXTURE UNITS BASED ON TABLES FBC-P 709 & E103.3 (2).

BUILDING SERVICE PIPING			
TYPE	FU	SIZE	DEV LENGTH
DCW METER	75	1"	150'
DCW DISTRIB.		1-1/2"	
SEWAGE	32	4"	85'

BUILDING SERVICE REMARKS:
BRING ANY ISSUES TO EOR.
RESIDUAL PRESSURE: ASSUMED 30-39 PSI
WATER LINE SIZED PER FBC-P TABLE 201.1
SEWER SIZED PER FBC-P TABLE 710.1(1)

METER AND SERVICE PIPE (inches)	DISTRIBUTION PIPE (inches)	MAXIMUM DEVELOPMENT LENGTH (feet)									
Pressure Range 30 to 39 psi		40	60	80	100	150	200	250	300	400	500
3/4	1/2 ^a	2.5	2	1.5	1.5	1	1	0.5	0.5	0	0
3/4	3/4	9.5	7.5	6	5.5	4	3.5	3	2.5	2	1.5
3/4	1	32	25	20	16.5	11	9	7.8	6.5	5.5	4.5
1	1	32	32	27	21	13.5	10	8	7	5.5	5
3/4	1 1/4	32	32	32	32	30	24	20	17	13	10.5
1	1 1/4	80	80	70	61	45	34	27	22	16	12
1 1/2	1 1/4	80	80	80	75	54	40	31	25	17.5	13
1	1 1/2	87	87	87	87	84	73	64	56	45	36
1 1/2	1 1/2	151	151	151	151	117	92	79	69	54	43
2	1 1/2	151	151	151	151	128	99	83	72	56	45
1	2	87	87	87	87	87	87	87	87	87	86
1 1/2	2	275	275	275	275	258	223	196	174	144	122
2	2	365	365	365	365	318	266	229	201	160	134
		533	533	533	533	533	495	448	409	353	311

1
P6.1

PRESSURE TABLE 30-39 PSI 2 1/2
No Scale



GADSDEN CO. BOCC

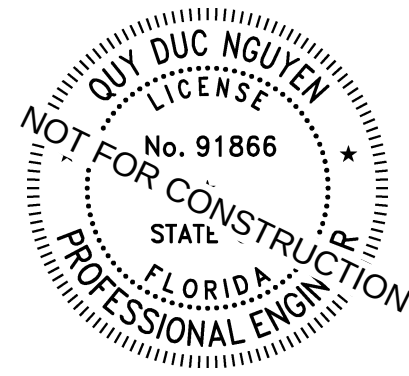
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Quy Duc Nguyen, PE#91866

Submittal			
Phase	Date	Drw	Chk
SCHEMATIC DESIGN	03/10/26	LJ	BK
50% CONSTRUCTION DOC.	03/27/26	LJ	BK
90% CONSTRUCTION DOC.	04/06/26	LJ	BK
100% CONSTRUCTION DOC.			
PERMIT DOCS.			
Revision			
#	Description	Date	
1			
CRA Project # 23065			
Phase: 90% CD			
SHEET TITLE			
PLUMBING SCHEDULES			
P6.1			



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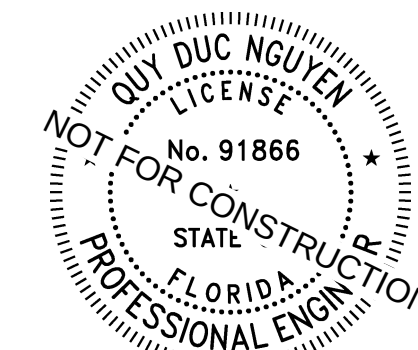


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Quy Duc Nguyen, PE#91866

Submittal

Phase	Date	Drw	Ch
SCHEMATIC DESIGN	03/10/26	LJ	BK
50% CONSTRUCTION DOC.	03/27/26	LJ	BK
90% CONSTRUCTION DOC.	04/06/26	LJ	BK
100% CONSTRUCTION DOC.			
PERMIT DOCS.			

Revision

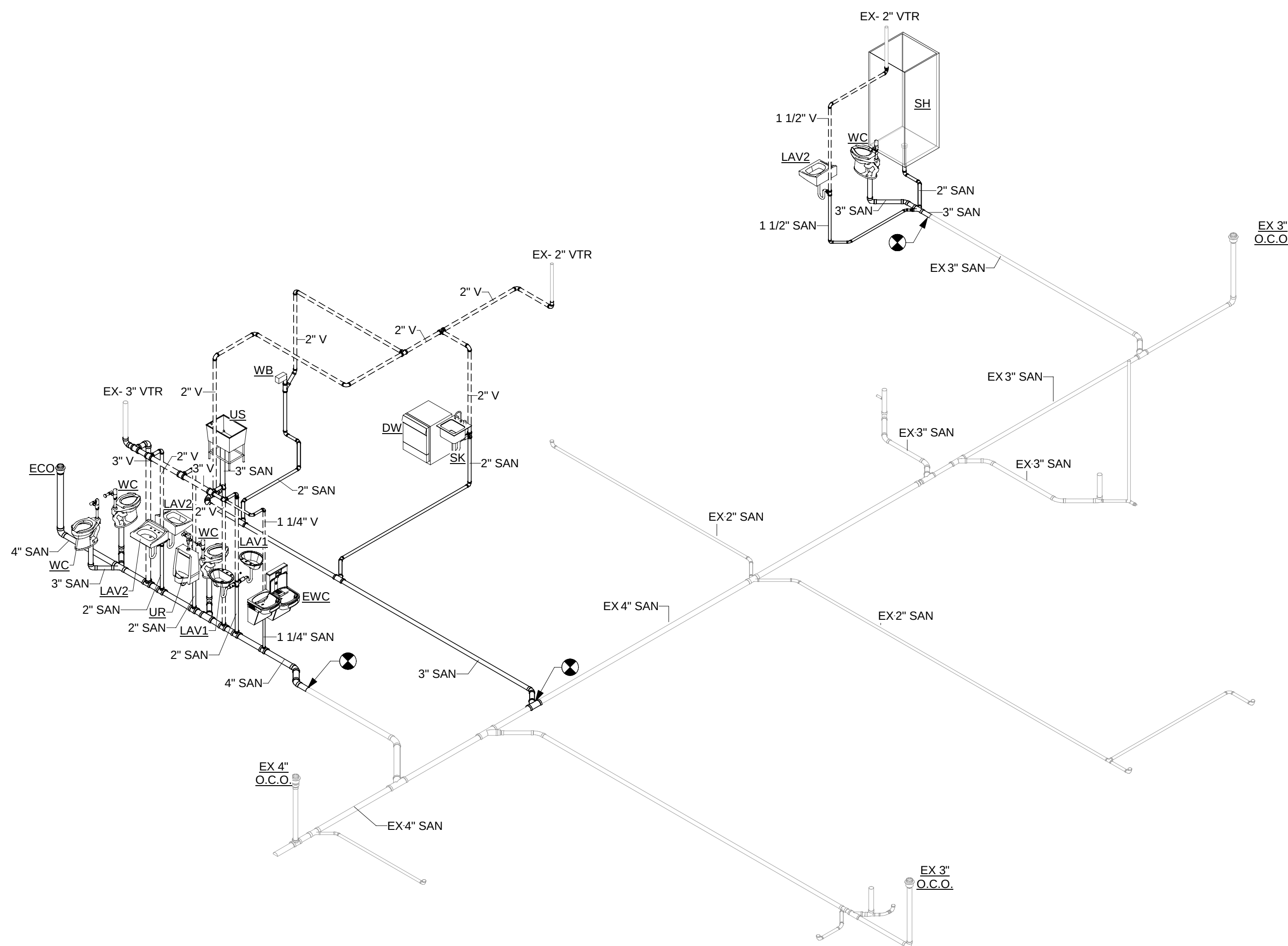
#	Description	Date
1		

CRA Project #	23065
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Phase: **90% CD**

SHEET TITLE

SANITARY RISER DIAGRAM P9.1



1 SANITARY RISER
P9.1 No Scale

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Submittal

Revision		
#	Description	Date
1		

SHEET TITLE

PRESSURE RISER DIAGRAM P9.2

