







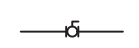


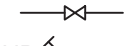


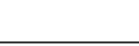
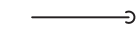
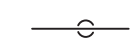

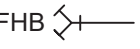




PLUMBING SYMBOL LIST	
IDENTIFIER	DESCRIPTION
-----CW-----	DOMESTIC COLD WATER
-----W-----	WASTE PIPING (ABOVE SLAB)
-----W-----	WASTE PIPING (UNDER SLAB)
-----S-----	SANITARY PIPING (ABOVE SLAB)
-----S-----	SANITARY PIPING (UNDER SLAB)
-----V-----	SANITARY VENT PIPING
	FIELD CONNECT
	FIELD DISCONNECT
	REFER TO SUPPLEMENTAL FIGURE INDICATED BY NUMBER (I.E. F2 REFERS TO FIGURE 2)
	EQUIPMENT TAG
	EQUIPMENT NUMBER
	DETAIL TAG/CALL OUT TAG
	PLUMBING SHEET NUMBER

PIPING ELEMENTS/VALVING	
	BACKFLOW PREVENTER (DOUBLE CHECK VALVE ASSEMBLY)
	BALL VALVE
	CAP ON END OF PIPE
	CLEANOUT
	FLOOR DRAIN
	GATE VALVE
	HOSE BIBB
	VALVE IN VALVE BOX
	PIPE DROPPING DOWN
	PIPE RISING UP
	TEE OUTLET DOWN
	TEE OUTLET UP
	VALVE IN RISE OR DROP
	NON FREEZE HOSE BIBB IN BOX W/VACUUM BREAKER

SCOPE OF WORK
PLUMBING SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO:
1. REMOVAL OF EXISTING WATER SERVICE.
2. THE INSTALLATION OF NEW PLUMBING FIXTURES AND ALL ASSOCIATED PIPING AND ACCESSORIES.
3. THE INSTALLATION OF NEW SANITARY AND DOMESTIC WATER SERVICES.
NOTE: THIS SCOPE OF WORK DESCRIPTION IS PROVIDED TO GIVE AN OVERALL "MACRO" DESCRIPTION OF THIS PROJECT. P.C. IS RESPONSIBLE TO REVIEW ALL ENGINEERING & ARCHITECTURAL DRAWINGS & VISIT THE SITE IF NEEDED, PRIOR TO SUBMISSION OF BID.

CODE REFERENCE
2020 NEW YORK STATE BUILDING CODE 2020 NEW YORK STATE MECHANICAL CODE 2020 NEW YORK STATE PLUMBING CODE 2020 NEW YORK STATE ENERGY CONSERVATION CODE

SECTION 704

DRAINAGE PIPING INSTALLATION

704.1 SLOPE OF HORIZONTAL DRAINAGE PIPING.

HORIZONTAL DRAINAGE PIPING SHALL BE INSTALLED IN UNIFORM ALIGNMENT AT UNIFORM SLOPES. THE MINIMUM SLOPE OF HORIZONTAL DRAINAGE PIPE SHALL BE IN ACCORDANCE WITH TABLE 704.1.

TABLE 704.1
SLOPE OF HORIZONTAL DRAINAGE PIPE

SIZE (INCHES)	MINIMUM SLOPE (INCH PER FOOT)
2 1/2 OR LESS	1/4
3 TO 6	1/8
8 OR LARGER	1/16

LEED NOTES
1. ALL ADHESIVES, SEALANTS, PAINTS & COATINGS APPLIED TO THE INTERIOR OF THE BUILDING (WITHIN THE WEATHER PROOFING SYSTEM, INCLUDING WALL CAVITIES) MUST NOT EXCEED THE LEED VOC LIMITS. PROVIDE A VOC SUBMITTAL AND MSDS FOR ALL ADHESIVES, SEALANTS, PAINTS AND COATINGS TO BE APPLIED.

PLUMBING GENERAL NOTES:
1. ALL PLUMBING WORK UNDER THIS CONTRACT SHALL CONFORM TO THE LATEST EDITION OF THE PLUMBING CODE OF NEW YORK STATE (PC-NYS), THE NEW YORK STATE ENERGY CODE, AND THE REQUIREMENTS OF THE UTILITY AND THE LOCAL WATER COMPANY.
2. ALL MATERIALS SHALL BE NEW UNLESS NOTED OTHERWISE.
3. THE PLUMBING CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL LABOR AND MATERIALS SUPPLIED AND INSTALLED UNDER THIS CONTRACT AND SHALL GUARANTEE THE WORK PERFORMED UNDER THIS CONTRACT FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE OF THIS WORK.
4. PLUMBING CONTRACTOR SHALL CONSULT WITH, COOPERATE AND COORDINATE WITH THE GENERAL CONTRACTOR, MECHANICAL CONTRACTOR, SPRINKLER CONTRACTOR, ELECTRICAL CONTRACTOR, ETC. IN ORDER TO MINIMIZE INTERFERENCES BETWEEN TRADES DURING PERFORMANCE OF THIS WORK.
5. THE PLUMBING CONTRACTOR SHALL PREPARE AND FILE ALL REQUIRED PLANS AND PERMITS WITH THE LOCAL AUTHORITIES. PC SHALL PAY THE FILING FEES AS REQUIRED. PC SHALL OBTAIN ALL APPROVALS AND SHALL PAY FOR ALL WORK PERMITS, INSPECTIONS AND SIGN-OFFS AS REQUIRED TO EXECUTE THIS WORK IN A MANNER IN CONFORMANCE WITH THE CODES AND AUTHORITIES HAVING JURISDICTION.
6. THE PLUMBING CONTRACTOR SHALL PERFORM ALL TESTS AND ARRANGE FOR ALL INSPECTIONS FOR WORK UNDER HIS CONTRACT AS REQUIRED BY LAW AND SHALL SUPPLY ALL CERTIFICATES OF INSURANCE AS REQUIRED BY THE LAW AND THE OWNER. REFER TO SECTION 107 (INSPECTIONS) OF THE PC-NYS.
7. THE PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO ALL PLUMBING EQUIPMENT REGARDLESS WHETHER ILLUSTRATED HEREIN WITHOUT ANY ADDITIONAL COSTS TO THE OWNER.
8. PLUMBING CONTRACTOR SHALL VISIT THE SITE & BECOME FAMILIAR WITH THE EXISTING CONDITIONS, INCLUDING THE SIZE OF CONNECTIONS, ROUGHING DIMENSIONS, ETC. BEFORE SUBMITTING A QUOTATION FOR THE WORK.
9. PLUMBING CONTRACTOR SHALL PERFORM ALL CUTTING, EXCAVATION, BACKFILLING, ROUGH & FINISH PATCHING AS PER THE SPECIFICATIONS AS REQUIRED FOR THE INSTALLATION OF THE WORK, UNLESS NOTED OTHERWISE.
10. ALL CONNECTIONS TO NEW AND/OR EXISTING EQUIPMENT SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
11. IT IS THE INTENT OF THIS CONTRACT THAT THE COMPLETED WORK BE FULLY OPERATIONAL.
12. ALL PIPE HANGERS AND SUPPORTS SHALL BE INSTALLED AT INTERVALS AND BE FABRICATED OF MATERIALS AS REQUIRED BY THE PC-NYS.
13. ALL NEW PLUMBING FIXTURES SHALL BE INSTALLED WITH ANGLE STOP VALVES IN THE SUPPLY LINES SERVING THE FIXTURE.
14. ALL NEW EXPOSED WATER AND WASTE PIPING SERVING THE FIXTURES SHALL BE CHROME PLATED AND SHALL HAVE CHROME PLATED ESCUTCHEONS RIGIDLY ATTACHED TO THE PIPING AT THE POINT OF WALL OR FLOOR PENETRATIONS.
15. PLUMBING CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL NEW PLUMBING FIXTURES AND EQUIPMENT TO BE SUPPLIED AND INSTALLED UNDER THIS CONTRACT FOR APPROVAL BEFORE INSTALLATION OF SAME.
16. WATERPROOF PIPE SLEEVES SHALL BE INSTALLED AT ALL PENETRATIONS THROUGH EXTERIOR WALLS. PIPE SLEEVES SHALL BE INSTALLED AT ALL WALL PENETRATIONS THROUGH INTERIOR WALLS AND FLOORS.
17. WATER HAMMER ELIMINATORS (APPROVED - FIELD FABRICATED OR MANUFACTURED) SHALL BE INSTALLED AT ALL RUN OUTS IN HOT AND/OR COLD WATER LINES SERVING TOILET ROOMS AND OTHER AREAS WHICH INCORPORATE "RAPID - ACTION" VALVES SUCH AS FLUSHOMETERS, SOLENOID VALVES, ETC.
18. ALL PIPING SHALL BE TESTED AT A MINIMUM PRESSURE OF 1-1/2 TIMES THE MAXIMUM OPERATING PRESSURE UNLESS OTHERWISE NOTED ON THE DOCUMENTS OR THE PLUMBING CODE AND IN ACCORDANCE WITH THE UTILITY REQUIREMENTS.
19. ALL REMOVALS PERFORMED UNDER THIS CONTRACT SHALL INCLUDE REMOVAL OF ALL DEBRIS AND DISPOSAL AT AN APPROPRIATE SITE.
20. ALL LAVATORIES DESIGNED FOR USE BY PERSONS CONFINED TO WHEELCHAIRS SHALL HAVE THE HOT & COLD WATER SERVICES, AS WELL AS THE TRAP, RECESSED & INSULATED IN ACCORDANCE WITH ADA REQUIREMENTS.
21. REFER TO THE ARCHITECTURAL PLANS FOR ALL STRUCTURAL DIMENSIONS.
22. ALL WORK TO BE COORDINATED WITH OTHER TRADES.
23. ALL PIPING PENETRATIONS TO BE SEALED AROUND WITH "NELSON" FIRE SEAL.
24. ALL WATER SERVICE PIPING WITHIN THE BUILDING IS TO BE INSULATED IN ACCORDANCE WITH ALL NEW YORK STATE PLUMBING CODE (NYS-PC) AND NYS ENERGY CODES.
25. ALL PLUMBING FIXTURES TO BE INSTALLED AS PER FACTORY RECOMMENDATIONS.
26. ALL PLUMBING FIXTURES TO BE TRAPPED, VENTED AND PROVIDED WITH AIR SHOCKS WHEN REQUIRED.
27. PLUMBING FIXTURES SHALL COMPLY WITH "WATER CONSERVATION" REQUIREMENT AS DETAILED IN THE NYS-PC.
28. GC IS RESPONSIBLE TO SUBMIT APPLICATION AND TAP FEES TO LOCAL WATER AUTHORITY AND HAVE OWNER FILL OUT APPLICATION UPON COMPLETION OF PLUMBING ROUGH-IN INSPECTION.
29. ALL WATER AND HORIZONTAL STORM DRAIN PIPING INCLUDING ROOF DRAIN BODY SHALL BE INSULATED.
30. FLOOR DRAINS AND FLOOR CLEAN-OUTS SHALL BE SET LEVEL WITH FINISHED FLOORS.
31. ALL PIPE DIMENSIONS ARE INSIDE CLEAR.
32. ALL PLUMBING FIXTURES TO HAVE ISOLATION VALVES.
33. P.C. IS RESPONSIBLE TO ADJUST HOT WATER HEATER (WH) TEMPERATURE TO ENSURE A TEMPERATURE RANGE OF 110°F TO 120°F AT THE INDIVIDUAL FIXTURE OUTPUT. P.C. MUST ENSURE A TEMPERATURE OF 120° F MAXIMUM AT THE FIXTURES TO PREVENT SCALDING.
34. BUILDING DOMESTIC WATER DEMAND & SIZING IS CALCULATED FROM NYS-PC SECTION 603, 604 & APPENDIX E.
35. BUILDING SANITARY DEMAND & SIZING IS CALCULATED FROM NYS-PC SECTIONS 709 AND 710.
36. ALL DFU CALCULATIONS ARE BASED OFF OF TABLE 709.1 OF THE NYS-PC.
37. ALL SANITARY WATER PIPING SHALL BE PITCHED IN ACCORDANCE WITH NYS-PC SECTION 704 BASED ON TABLE 704.1 SLOPE OF HORIZONTAL DRAINAGE PIPE.
38. ALL VENT SIZING IS BASED OFF OF SECTION 916 OF THE NYS PLUMBING CODE.
39. ALL PLUMBING EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS/SPECIFICATIONS.

ABBREVIATIONS:
AD ACCESS DOOR
BFP BACKFLOW PREVENTER
CO CLEAN OUT
CW COLD WATER
DCV DOUBLE CHECK VALVE
DFU DRAINAGE FIXTURE UNIT
DPCO DECK PLATE CLEAN OUT
FC FIELD CONNECT
FD FLOOR DRAIN
FFD FUNNEL FLOOR DRAIN
FU FIXTURE UNIT
HW HOT WATER
HWR HOT WATER RETURN
IAW IN ACCORDANCE WITH
IWFD INDIRECT WASTE FUNNEL DRAIN
LAV LAVATORY
JS JANITOR'S SINK
NC NORMALLY CLOSED
NO NORMALLY OPEN
NYS-PC NEW YORK STATE PLUMBING CODE
RD ROOF DRAIN
S SANITARY
SD STORM DRAIN
TMV THERMOSTATIC MIXING VALVE
U.O.N. UNLESS OTHERWISE NOTED
UR URINAL
V VENT
WC WATER CLOSET
PC PLUMBING CONTRACTOR
MC MECHANICAL CONTRACTOR
TYP. TYPICAL
VIF VERIFY IN FIELD
WCO WALL CLEAN OUT
WFU WATER FIXTURE UNITS
(N) NEW
(E) EXISTING
(D) DEMO
THE ABBREVIATIONS ARE SHOWN FOR GENERAL REFERENCE ONLY. THE PRESENCE OF AN ABBREVIATION ON THIS LIST DOES NOT IMPLY ITS USE ON THIS PROJECT. REFER TO DRAWINGS FOR SPECIFIC ABBREVIATIONS USED.

PLUMBING FIXTURE SCHEDULE											
MARK	DESCRIPTION	SERVICE						BASED ON:			REMARKS
		TRAP	S/W	V	CW	TW	HW	ITEM	MANUFACTURER	MODEL	
PF-1	WALL MOUNTED WATER CLOSET	-	4"	2"	1-1/2"	-	-	BOWL FLUSH VALVE SEAT CARRIER	SLOAN	ST-2459	FLUSH VALVE SLOAN 8111 SFSM-128
PF-3	LAVATORY - WALL-MOUNT	1-1/2"	1-1/2"	1-1/2"	-	1/2"	-	FAUCET SUPPORT DRAIN TRIM	DURAWT	2350500030	FAUCET AMERICAN STANDARD 702B.103
PF-5	SERVICE SINK	3"	3"	2"	1/2"	-	1/2"	FAUCET DRAIN TRIM	MUSTEE	63M	FAUCET AMERICAN STANDARD 8344.212
NOTES:											
1. PROVIDE ALL REQUIRED HANGERS, MOUNTING BRACKETS, AND HARDWARE FOR A COMPLETE INSTALLATION PER MANUFACTURES INSTRUCTIONS.											
2. PROVIDE ALL LAVATORIES WITH POWER KIT PK00.WRK BATTERY PACK W/HOLDER AND MIXING VALVE 605XTMV1070.											

ELECTRIC DOMESTIC HOT WATER HEATER SCHEDULE										
TAG	MANUFACTURER	MODEL	LOCATION	HEATER KW	STORAGE CAPACITY GAL.	STORAGE WATER TEMP SETPOINT (DEG F)	ELECTRICAL		DIMENSION	APPROX. SHIPPING
							V-PH-HZ	AMPS	HxD (IN)	WEIGHT (LBS)
WH-1	BRADFORD WHITE	LE150L3-3	JANITOR CLOSET	3	47	110	240-1-60	12.5	34.5x24	140
NOTES:										



FLOOR DRAIN SCHEDULE				
TAG	TYPE	MANUFACTURER	MODEL	SERVICE
FD-1	ADJUSTABLE	ZURN	FD-2320-R5	ALL SPACES
NOTES:				
1. PROVIDE THE FOLLOWING FOR FD-1: CHORME PLATED STRAINER ASSEMBLY, 6" NICKEL HEAD ASSEMBLY, AND VANDAL PROOF.				
2. PROVIDE BARRIER-TYPE TRAP SEAL PROTECTION DEVICE ZURN Z1072 OR APPROVED EQUAL.				

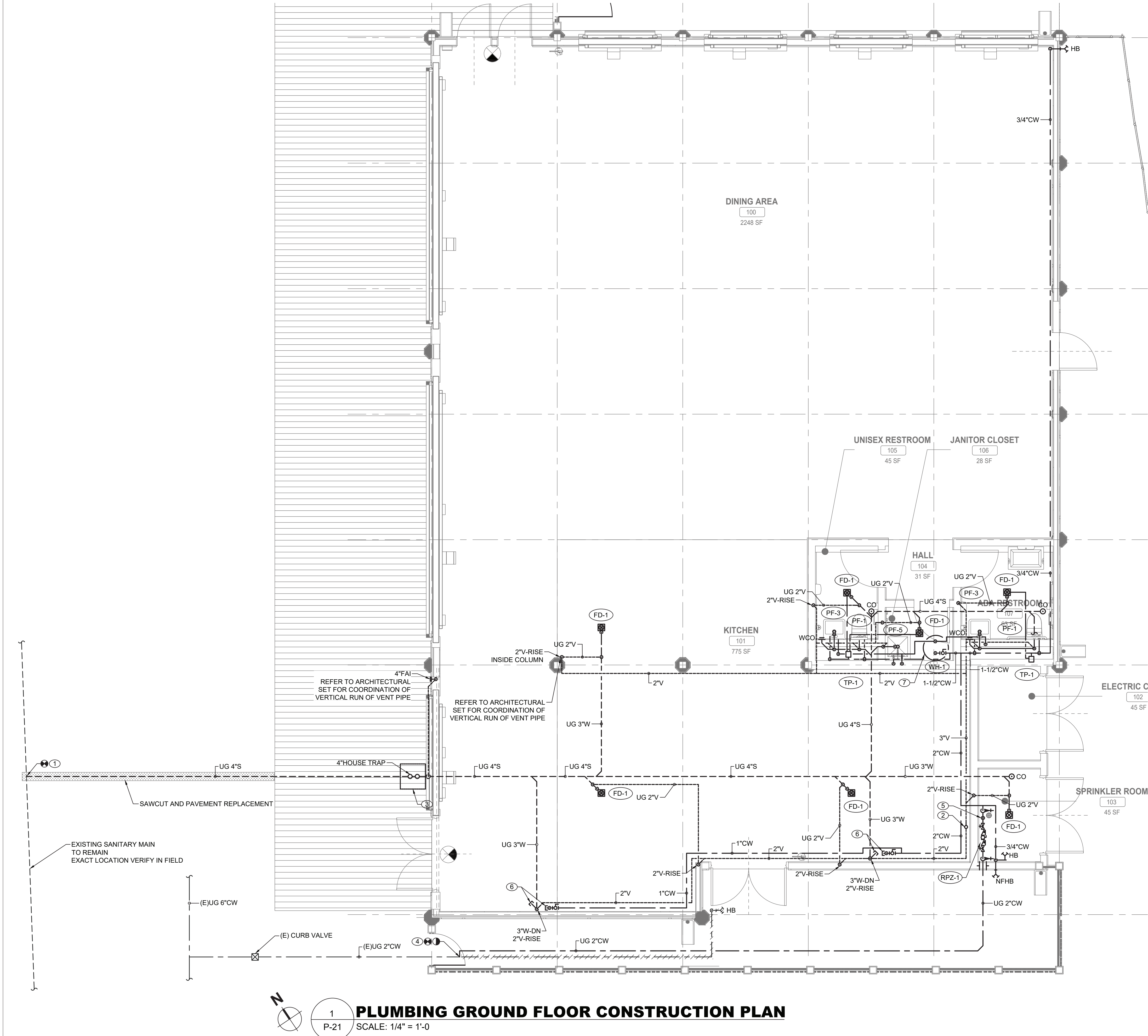
CLEANOUT SCHEDULE			
TAG	TYPE	MANUFACTURER	MODEL
CO	ADJUSTABLE DECK PLATE CLEAN OUT	WATTS	CO-1200-R

WALL HYDRANT SCHEDULE			
TAG	TYPE	MANUFACTURER	MODEL
NFHB	WALL HYDRANT	ZURN	Z1320XL

REDUCED PRESSURE ZONE VALVE SCHEDULE					
TAG	MANUFACTURER	MODEL	LOCATION	SIZE (IN)	PRESSURE DROP (PSI)
RPZ-1	WATTS	LF009-S	SPRINKLER ROOM	2	10
NOTES:					
1. PROVIDE STRAINER.					

PLUMBING DRAWING LIST			
SHEET NO.	SHEET NAME	REVISION NO.	REVISION DATE
BB-P-01	PLUMBING NOTES, SYMBOLS, ABBREVIATIONS AND DRAWING LIST	0	-
BB-P-21	PLUMBING GROUND FLOOR CONSTRUCTION PLAN	0	-
BB-P-81	PLUMBING DETAILS	0	-

<div>CONSULTANT INFORMATION</div> <div><div>LiRo Engineers, Inc. A LiRo Group Company Syosset, N.Y. 516-214-8157[T]</div></div>		<div>CONSULTANT SEAL</div> <div></div>								RECORD DRAWING CERTIFICATION				WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 22-523	SHEET NUMBER BB-P-01
											<input type="checkbox"/> AS BUILT – CHANGES AS NOTED		<input type="checkbox"/> AS BUILT – NO CHANGES			DWG. NO.: 66 of 664	SCALE: AS INDICATED
																DATE: 08/23/2022	
				REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION		NAME SIGNATURE TITLE	CONTRACTOR DATE	NAME SIGNATURE TITLE	PROJECT COORDINATOR DATE	INFRASTRUCTURE REHABILITATION - PHASE 3 PLAYLAND PARK, RYE, NEW YORK NORTHEAST BURGER BARN PLUMBING NOTES, SYMBOLS, ABBREVIATIONS AND DRAWING LIST		DPW FILE NUMBER 1-118-P-815-0	REV. NO. 0



1 PLUMBING GROUND FLOOR CONSTRUCTION PLAN
P-21 SCALE: 1/4" = 1'-0"

PLUMBING CONSTRUCTION NOTES:

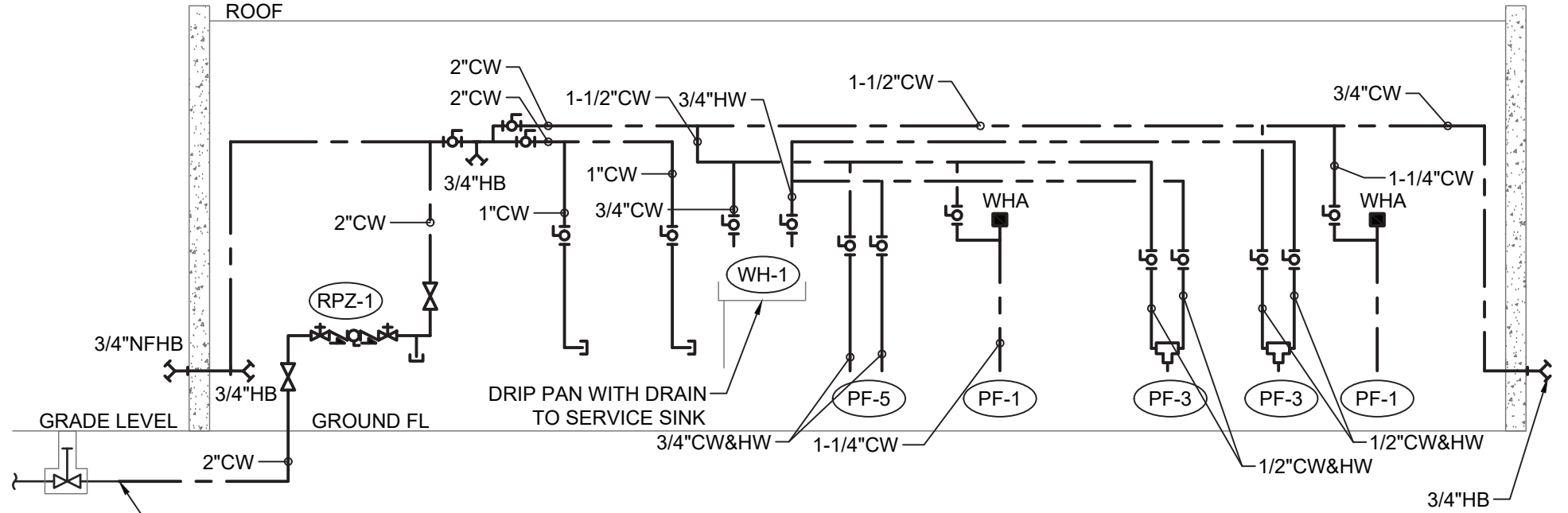
- CONNECT NEW 4" SANITARY SERVICE TO EXISTING SEWER MAIN. CONTRACTOR TO VERIFY THE INVERT, SIZE, AND MATERIAL OF THE EXISTING SEWER PIPING TO FACILITATE NEW SANITARY SERVICE CONNECTION.
- PROVIDE NEW 4" VENT THRU ROOF.
- PROVIDE NEW 4"HOUSE TRAP IN PIT. PROVIDE ACCESS DOOR FOR MAINTENANCE. PROVIDE 4" FRESH AIR INTAKE THRU EXTERIOR WALL. TERMINATE VENT WITH INSECT SCREEN. HOUSE TRAP SHALL BE PROTECTED FROM FREEZING.
- CUT EXISTING WATER SERVICE BELOW GROUND. ABANDON IN PLACE EXISTING WATER SERVICE PIPING. REMOVE PORTIONS OF PIPING THAT EXPOSED OR IN CONFLICT WITH NEW CONSTRUCTION. REMOVE EXISTING HOSE BIB FROM EXTERIOR OF THE BUILDING. VERIFY IN FIELD IF ANY OTHER FACILITIES CONNECTED TO THE SAME WATER SERVICE AND RECONNECT THEM AS NECESSARY. RECONNECT NEW 2" DOMESTIC COLD WATER SERVICE TO EXISTING WATER MAIN.
- PROVIDE A COMPRESSED AIR CONNECTION FOR WINTERIZING.
- PROVIDE 3"W AND 1"CW STUB-UP FOR FUTURE KITCHEN FIXTURES WITHIN EXPOSED NEXT TO THE WALL. CONNECTION SHALL BE ACCESSIBLE AFTER CONSTRUCTION.
- PROVIDE NEW CEILING MOUNTED ELECTRIC WATER HEATER. ALL FAUCETS FOR LAVATORIES WITH MIXING VALVE TO PROVIDE TEMPERED WATER.

GENERAL NOTES:

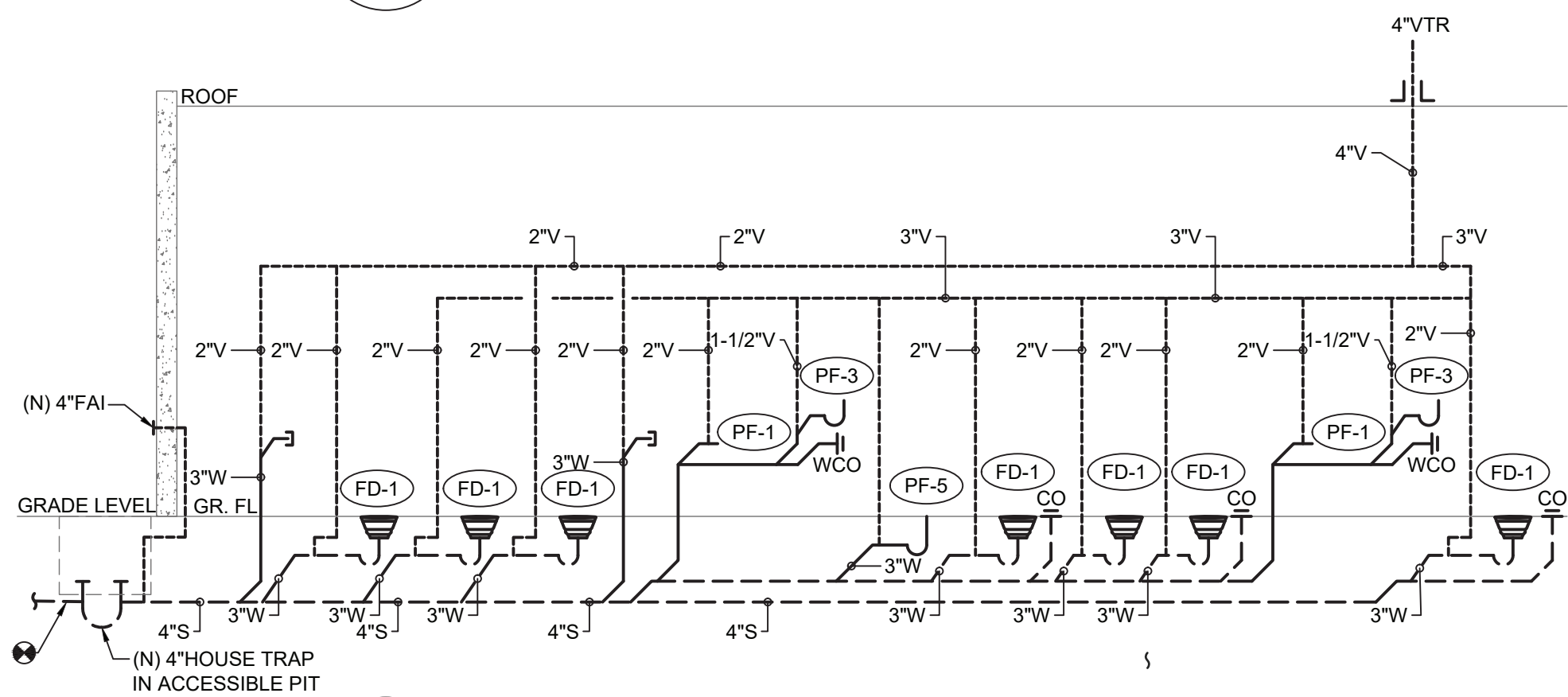
- COORDINATE WITH FACILITY PRIOR TO SHUTDOWN OF WATER DISTRIBUTION SYSTEM FOR ANY DEMOLITION AND CONSTRUCTION WORK.
- PROVIDE DRAIN VALVES AT BOTTOM FOR EACH BRANCH. PROVIDE ACCESS PANELS TO ALL VALVES ABOVE CEILING AND BEHIND WALLS.
- INSTALL NEW WATER PIPING WITH PROPER SLOPES TO AVOID WATER TRAPS DURING WINTER SEASON.
- CONTRACTOR TO COORDINATE WITH FACILITY WHEN WORKING AROUND OR ABOVE THE RIDE COMPONENTS, AND PROVIDE ALL NECESSARY MEASURES TO PROTECT THESE COMPONENTS PER THE REQUIREMENTS OF THE FACILITY.
- UPON COMPLETION, SYSTEM SHALL BE TESTED FOR PROPER OPERATION.
- SEWER CROSSING WATER MAINS, CONDUITS, OR OTHER UTILITY SHALL BE MINIMUM 18" CLEARANCE BETWEEN THE OUTSIDE OF THE UTILITY AND OUTSIDE OF THE SEWER. THE CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.

RISER DIAGRAMS NOTES:

- SANITARY AND DOMESTIC WATER RISER DIAGRAM IS PROVIDED AS A SCHEMATIC AID DELINEATING PROJECT SCOPE. CONTRACTOR SHALL FIELD-VERIFY CONDITIONS AND COMPLY WITH ALL PLUMBING REQUIREMENTS OF THE NEW YORK STATE BUILDING CODE.
- ALL DOMESTIC WATER AND SANITARY PIPING SHALL BE IN FULL CONFORMANCE WITH THE NEW YORK STATE PLUMBING CODE.
- PROVIDE AN AIR CHAMBER AT LEAST THE SIZE OF THE SUPPLY PIPE AT THE TOP OF EACH HOT AND COLD WATER RISER.
- PROVIDE ALL REQUIRED OFFSETS, FITTINGS, VALVES, TRAPS, DRAINS, ETC., EVEN THOUGH TROUGH NOT INDICATED DUE TO SMALL SCALE OF THE DRAWING.
- CHECK DRAWINGS OF OTHER TRADES AND ARRANGE WORK TO AVOID CONFLICTS.
- USE REDUCING FITTINGS FOR CHANGES OF PIPE SIZE. USE NO BUSHING EXCEPT WITH SPECIAL PERMISSION.
- PROVIDE CONTROL GATE VALVES WHERE NOTED OR REQUIRED FOR COMPLETE REGULATING CONTROL OF ALL SYSTEM, PLUMBING FIXTURES, AND EQUIPMENT. VALVES: ACCESSIBLE BUT NO VALVES INSTALLED WITH HANDLES POINTING DOWN.
- PROVIDE DRAIN VALVES FOR EACH BRANCH AT BOTTOM OF CHASES. PROVIDE ACCESS PANELS TO ALL VALVES ABOVE CEILING AND BEHIND WALLS.
- INSTALL NEW WATER PIPING WITH PROPER SLOPES TO AVOID WATER TRAPS DURING WINTER SEASON.

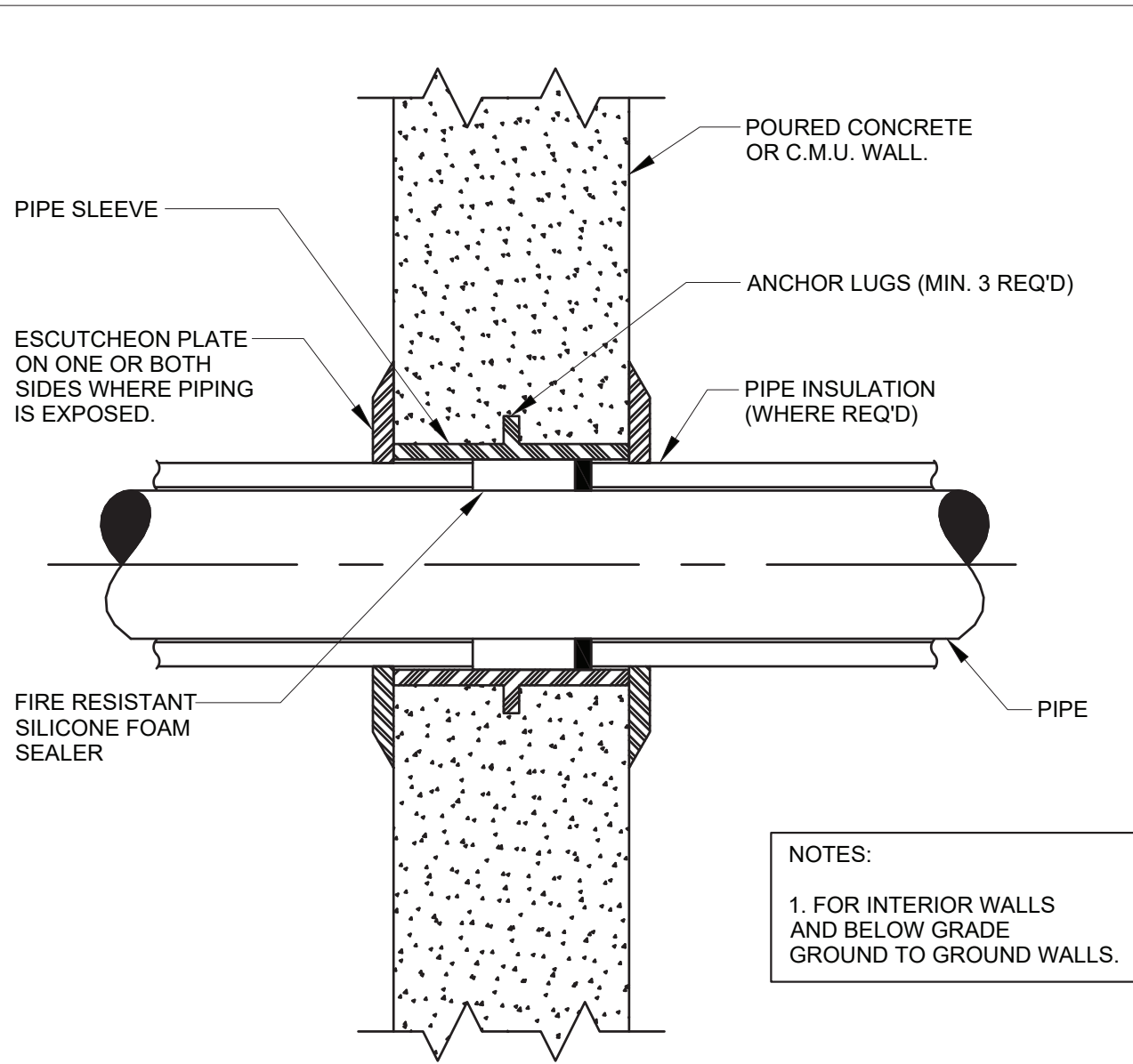


2 DOMESTIC WATER RISER DIAGRAM
P-21 SCALE: NOT TO SCALE

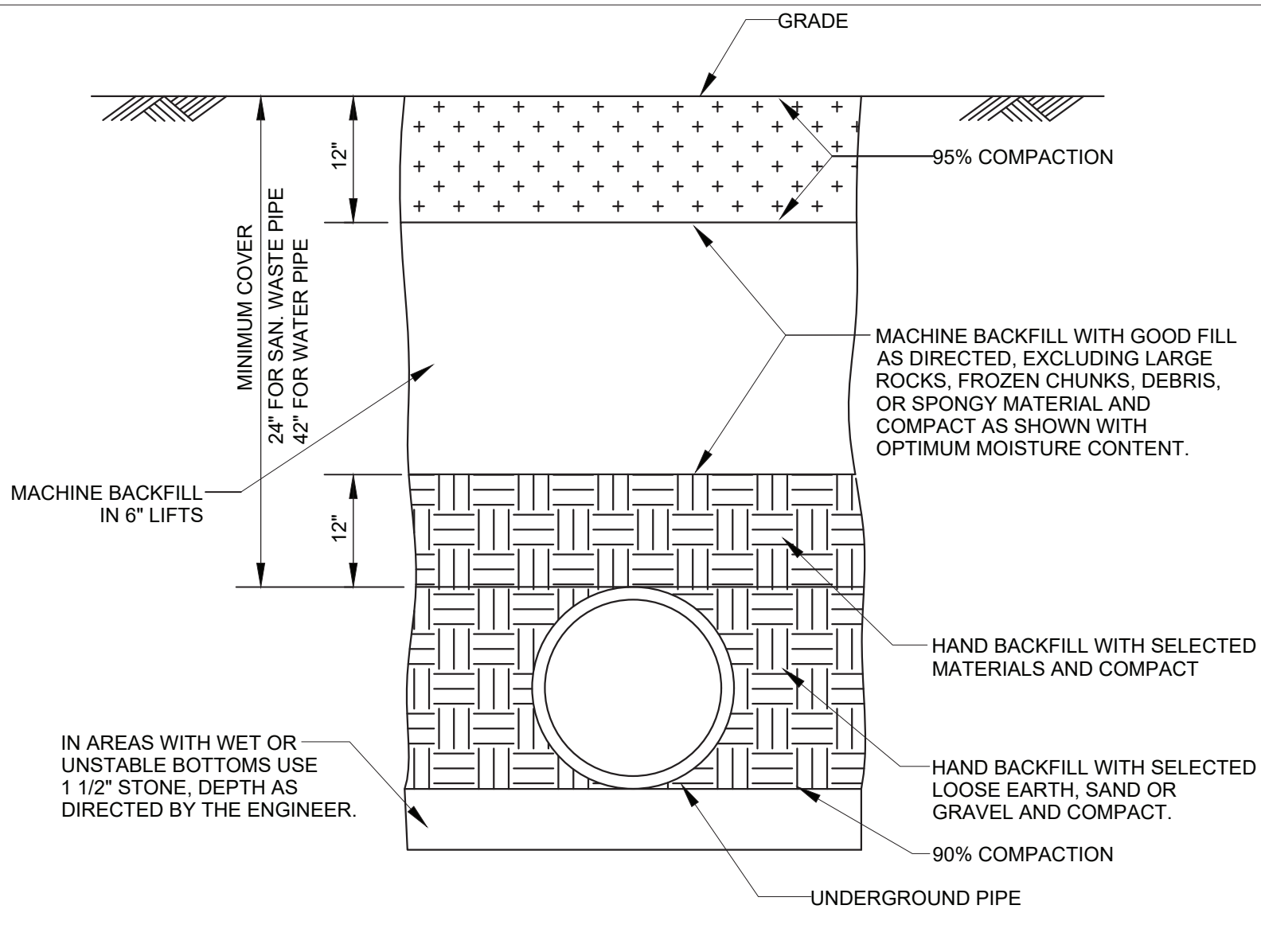


3 SANITARY RISER DIAGRAM
P-21 SCALE: NOT TO SCALE

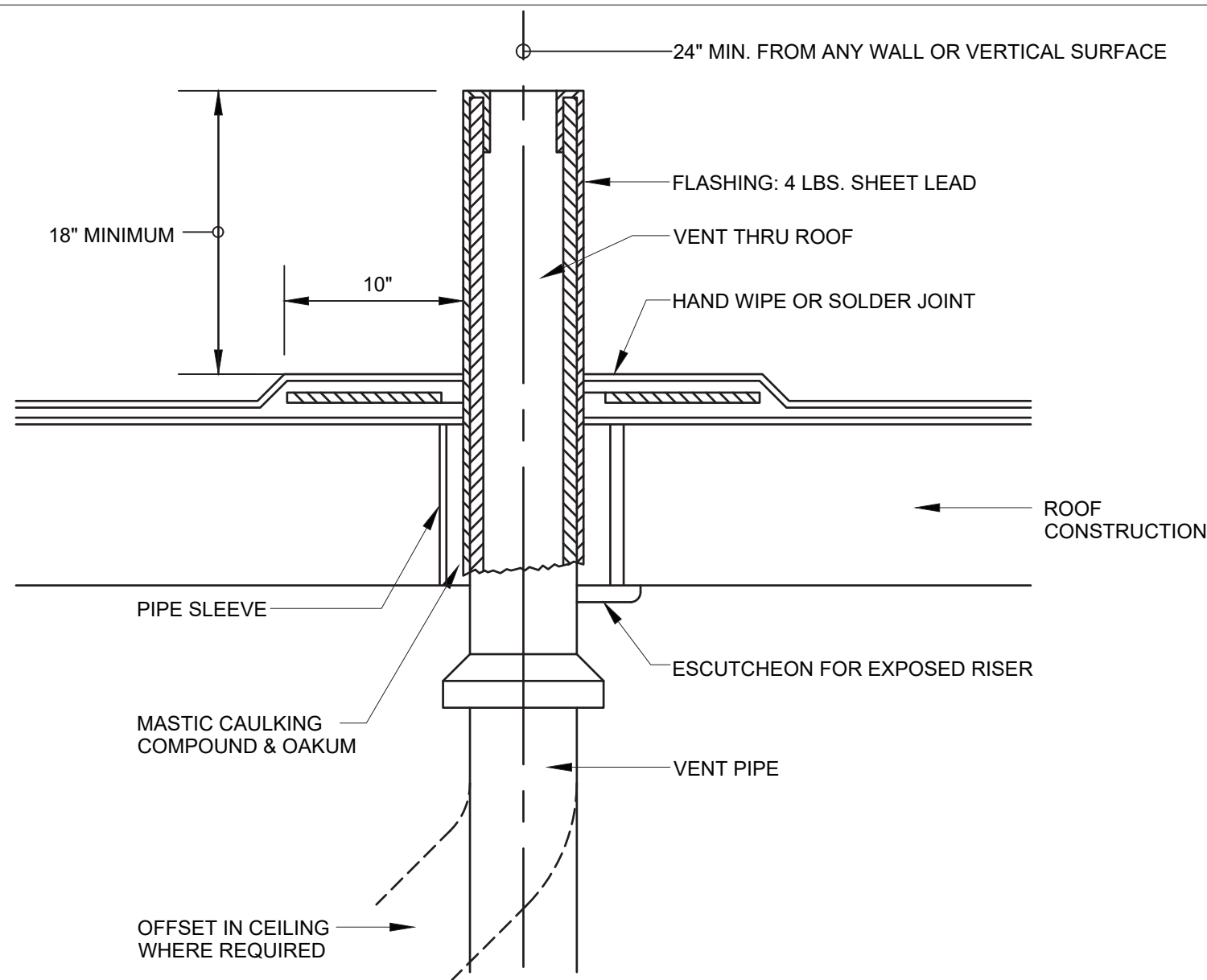
<div>CONSULTANT INFORMATION</div> <div><div><div></div><div>LiRo Engineers, Inc.</div><div>A LiRo Group Company</div><div>Syosset, N.Y. 516-214-8157[T]</div></div></div>		<div>CONSULTANT SEAL</div> <div><div><div>STATE OF NEW YORK</div><div>FRANK F. LISE</div><div>Professional Engineer</div><div>No. 090111-1</div></div><div><div>Frank F. Lise</div><div>Professional Engineer</div></div></div> <table><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													



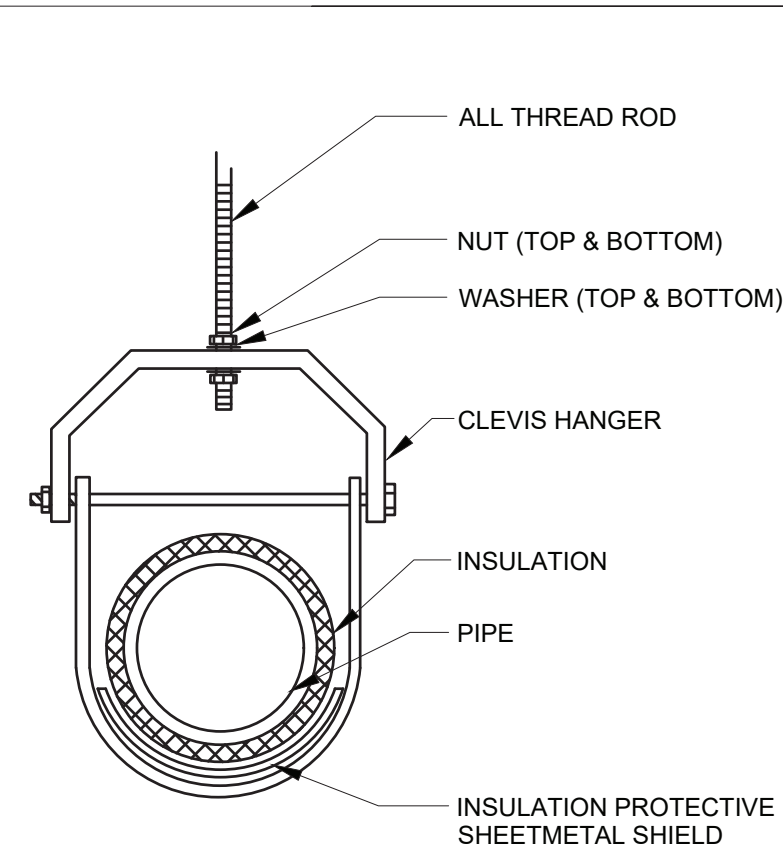
1 **PIPE SLEEVE THROUGH WALL DETAIL**
P-81 SCALE: NOT TO SCALE



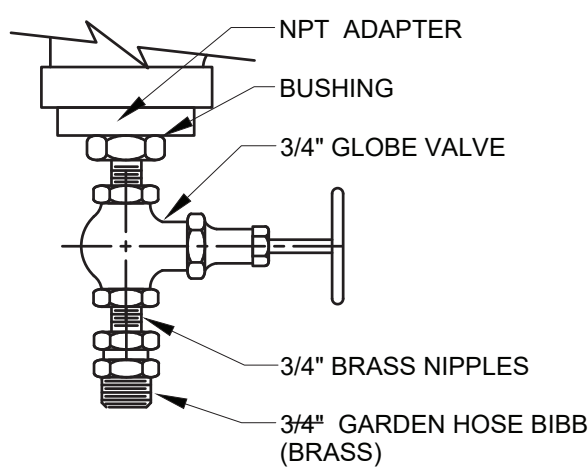
2 **PIPE TRENCH DETAIL**
P-81 SCALE: NOT TO SCALE



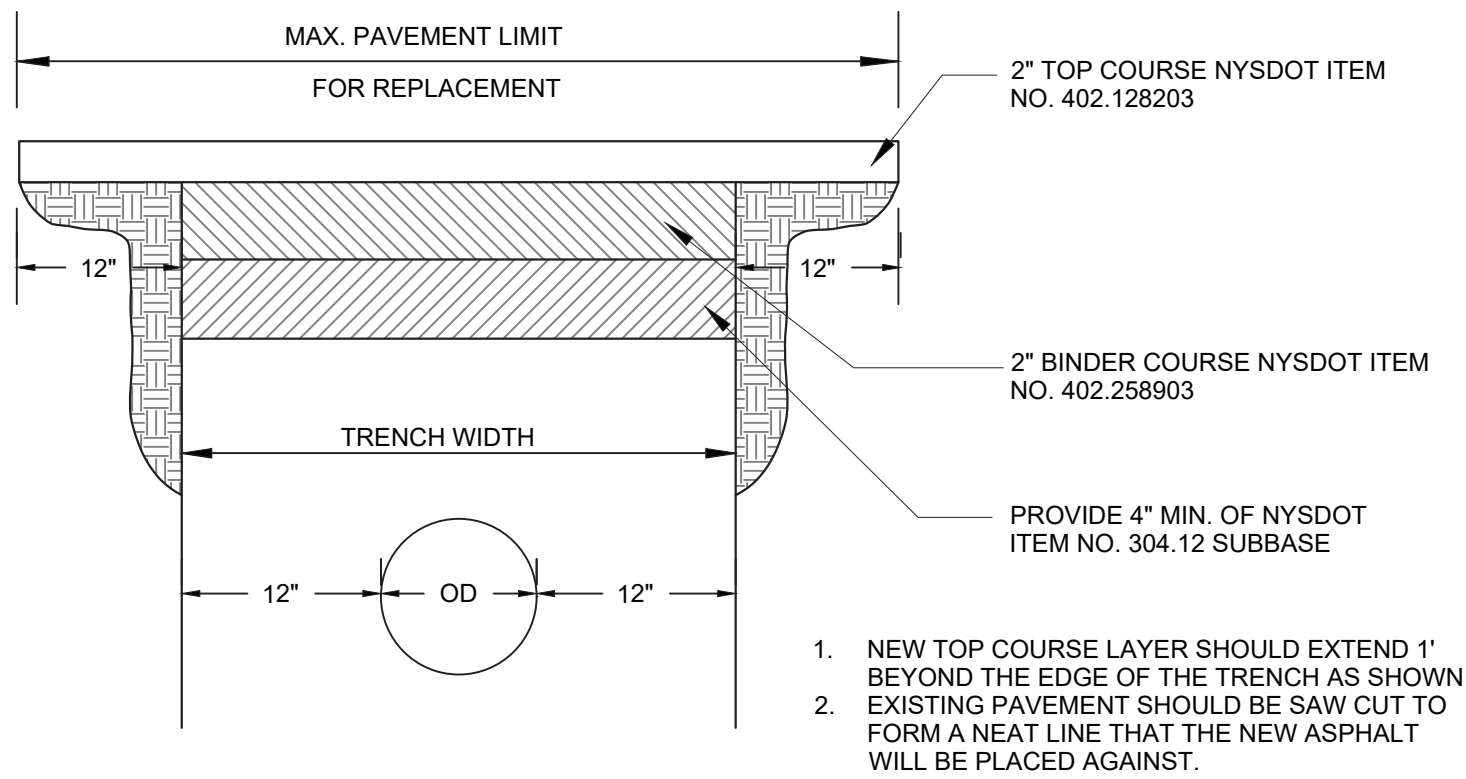
3 **VENT THRU ROOF DETAIL**
P-81 SCALE: NOT TO SCALE



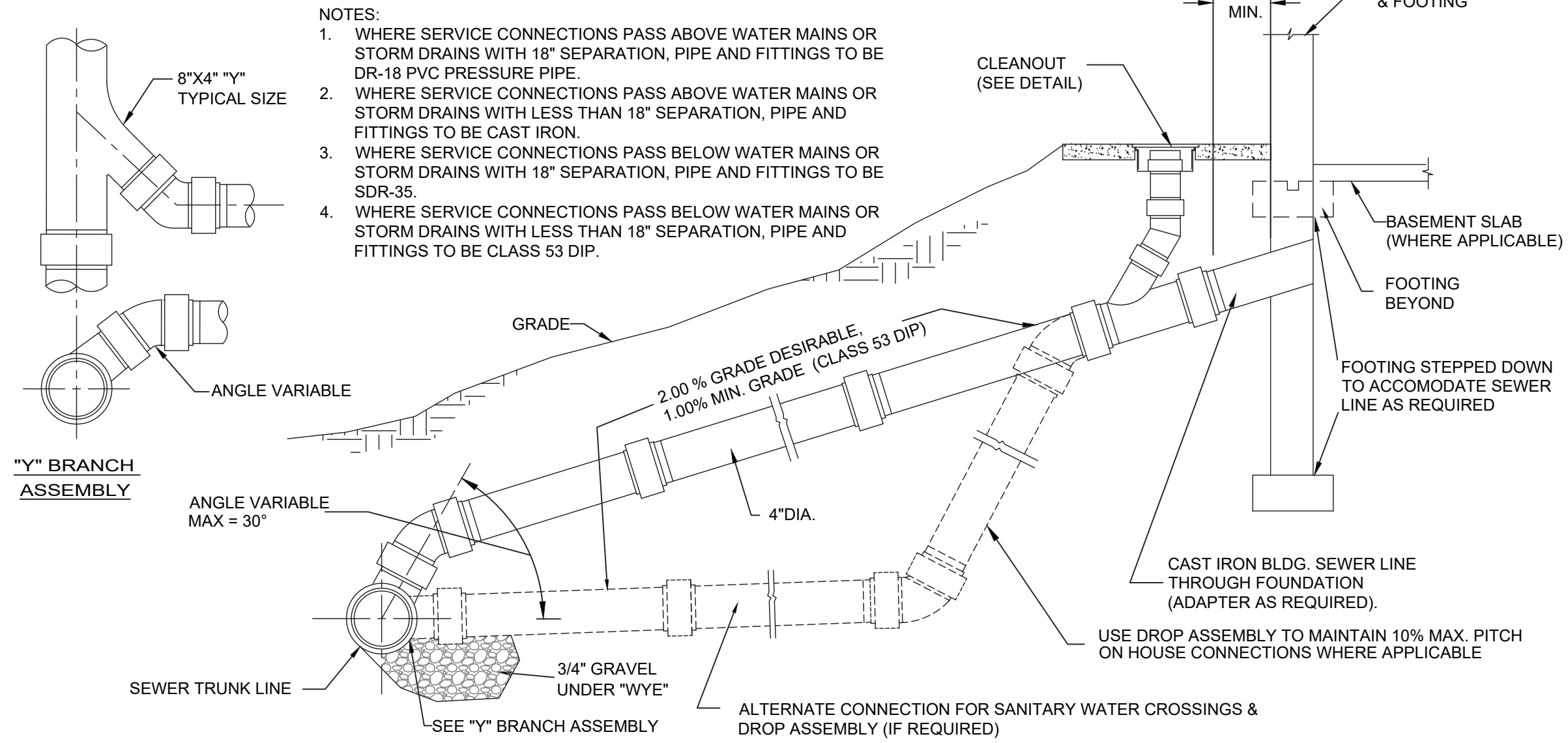
4 **TYPICAL CLEVIS HANGER DETAIL**
P-81 SCALE: NOT TO SCALE



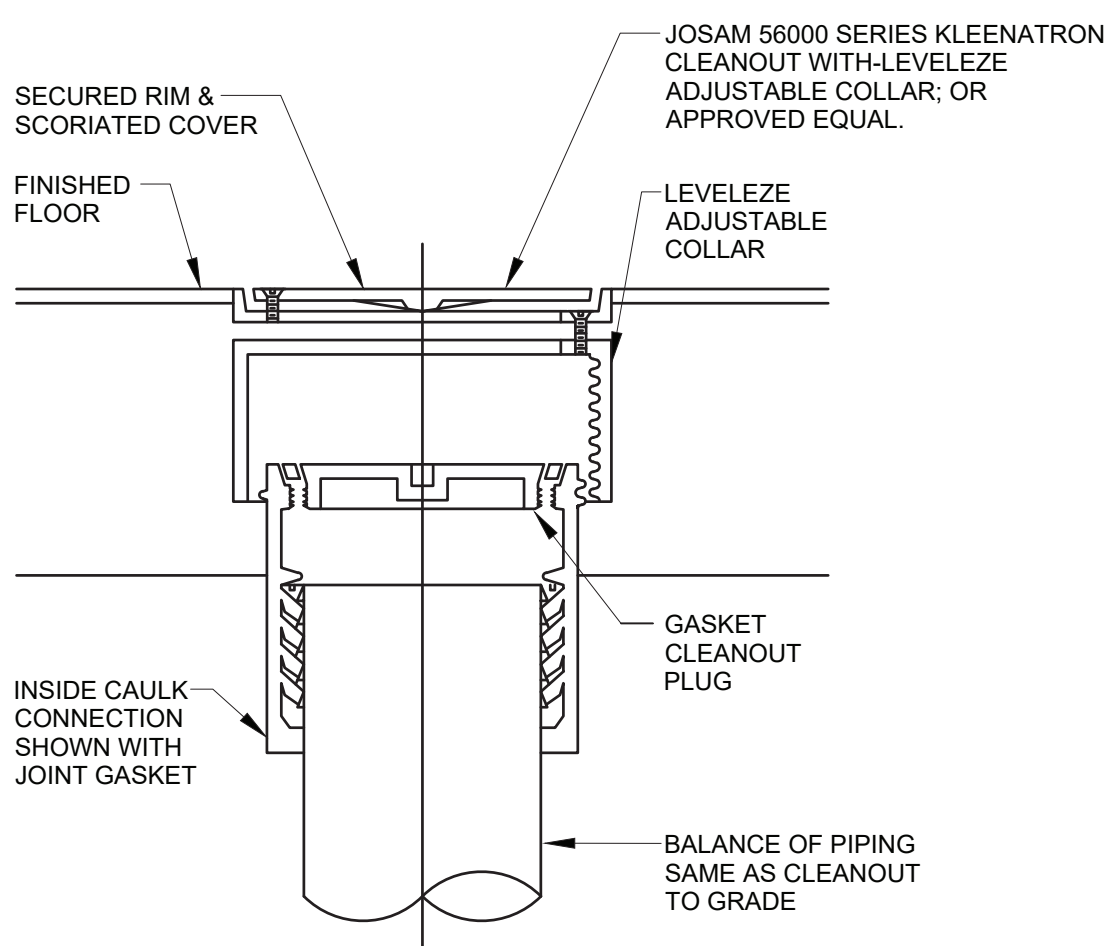
5 **DRAIN VALVE DETAIL**
P-81 SCALE: NOT TO SCALE



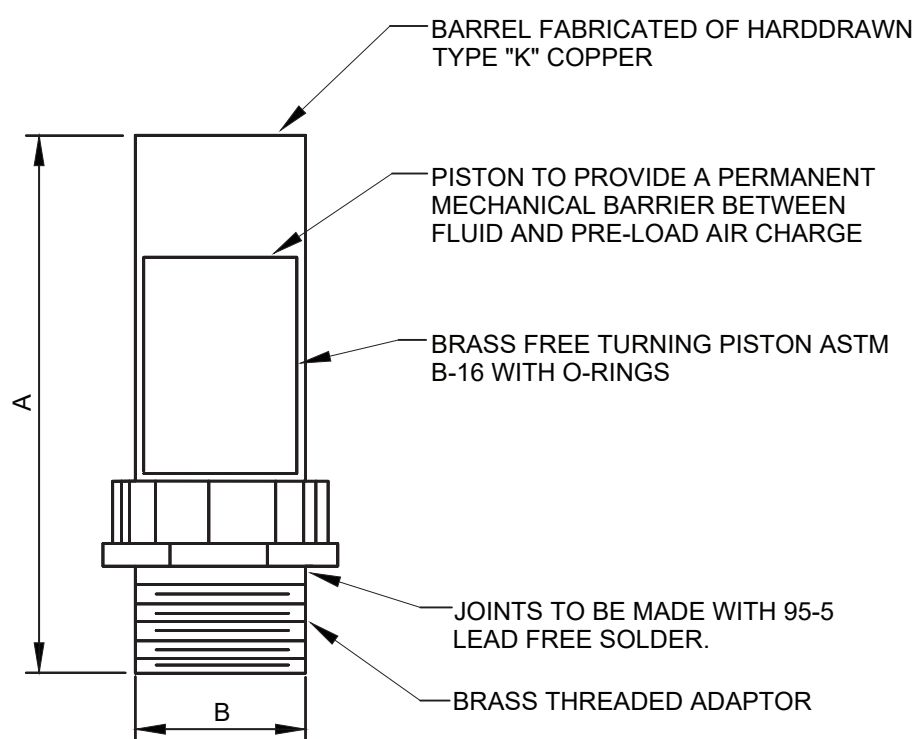
6 **ASPHALTIC MACADAM PAVEMENT REPLACEMENT**
P-81 SCALE: NOT TO SCALE



7 **SEWER SERVICE CONNECTION/ DROP ASSEMBLY**
P-81 SCALE: NOT TO SCALE



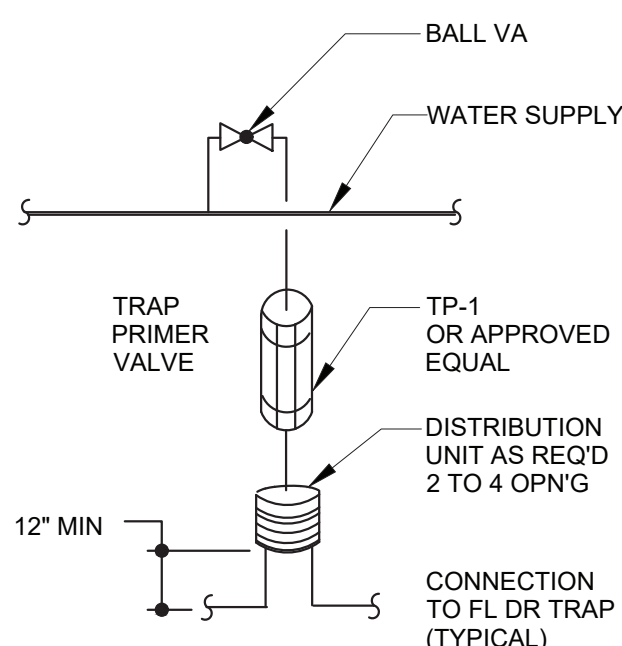
8 **FLOOR CLEANOUT DETAIL**
P-81 SCALE: NOT TO SCALE



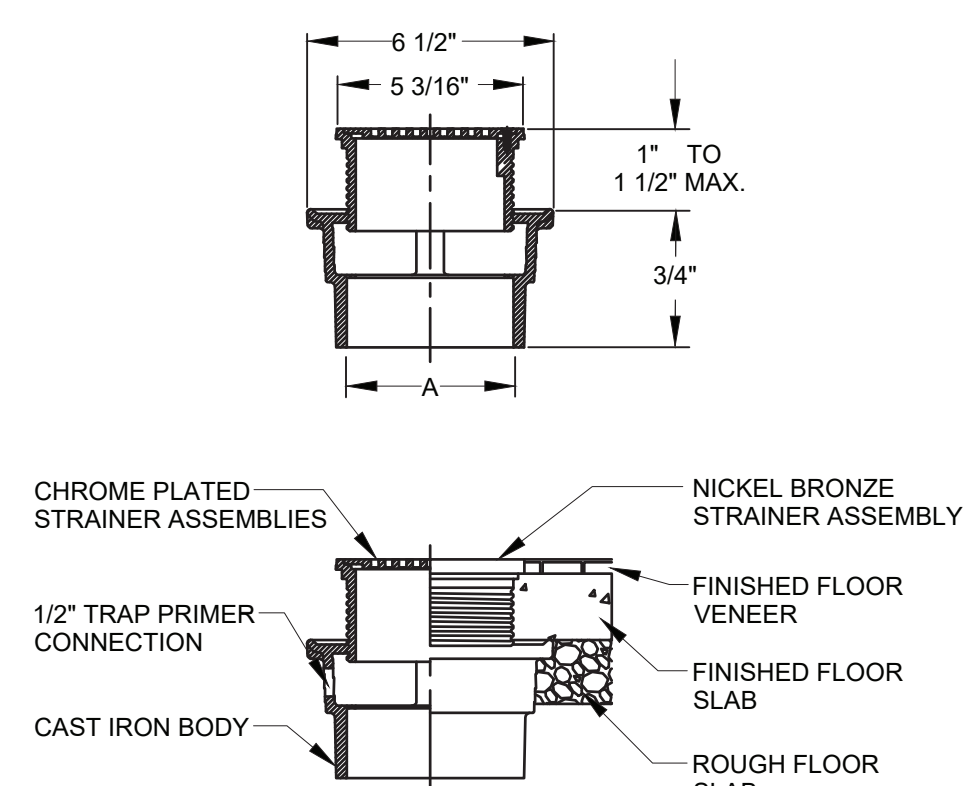
PPP SIZE	P.D.I. SYMBOL	FIXTURE UNIT RATINGS	A SIZE	B SIZE
1/2"	A	1 - 11	5"	1/2"
3/4"	B	12 - 32	5"	3/4"
1"	C	33 - 60	7"	1"
1-1/4"	D	61 - 113	7"	1-1/4"
1-1/2"	E	114 - 154	9"	1-1/2"
2"	F	155 - 330	9"	2"

NOTE: SEE WATER RISER DIAGRAMS FOR LOCATIONS OF WATER HAMMER ARRESTORS.

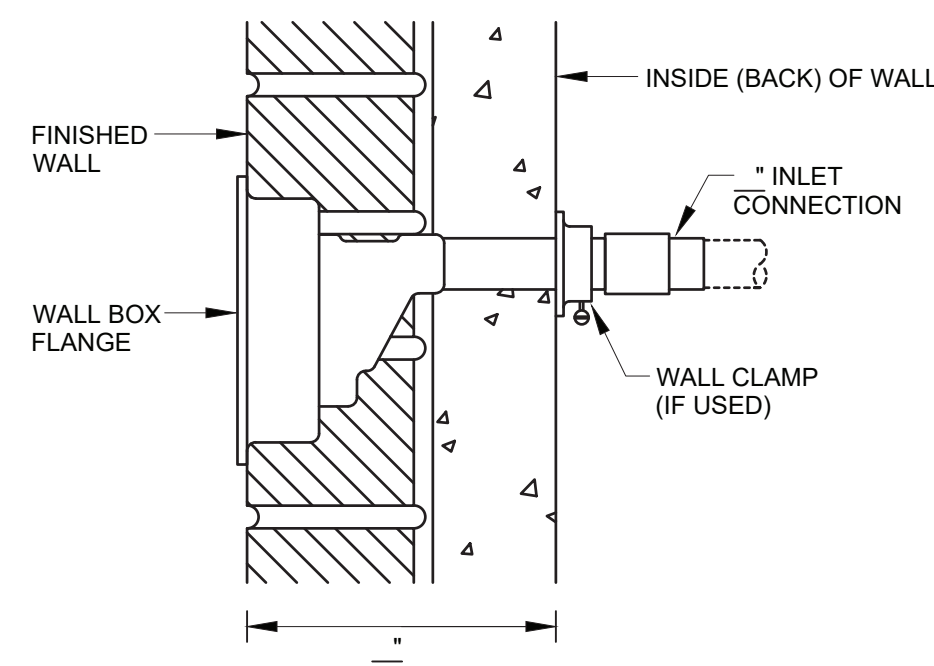
9 **WATER HAMMER ARRESTOR DETAIL**
P-81 SCALE: NOT TO SCALE





10 **TRAP PRIMER DETAIL**
P-81 SCALE: NOT TO SCALE



11 **FLOOR DRAIN DETAIL**
P-81 SCALE: NOT TO SCALE



12 **FREEZE PROOF WALL HYDRANT**
P-81 SCALE: NOT TO SCALE

CONSULTANT INFORMATION  LiRo Engineers, Inc. A LiRo Group Company Syosset, N.Y. 516-214-8157/T	CONSULTANT SEAL 					RECORD DRAWING CERTIFICATION <input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES				WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING				CONTRACT NUMBER 22-523	SHEET NUMBER BB-P-81
										INFRASTRUCTURE REHABILITATION PHASE 3 PLAYLAND PARK, RYE, NEW YORK SOUTHEAST ARCADE PLUMBING DETAILS				DWG. NO.: 68 of 664	
														SCALE: AS INDICATED	
														DATE: 08/23/2022	
REVISION NUMBER		DATE	MADE BY	APP'D BY	REVISION	CONTRACTOR NAME _____ SIGNATURE _____ TITLE _____ DATE _____		PROJECT COORDINATOR NAME _____ SIGNATURE _____ TITLE _____ DATE _____				DPW FILE NUMBER 1-118-P-817-0	REV. NO. 0		