	SYMBOLS LIST							
LEGE	END		ABBREVIATIONS					
SYMBOL	DESCRIPTION	AFF	ABOVE FINISHED FLOOR					
		BTU	BRITISH THERMAL UNIT					
· · · · ·	PIPING UP	BTUH	BTU PER HOUR					
(	PIPING DOWN	CLG	CEILING					
		со	CLEAN OUT					
	REDUCER	CODP	CLEAN OUT DECK PLATE					
	CLEANOUT	COWP	CLEAN OUT WALL PLATE					
, ·		CW	COLD WATER					
$\odot$	CLEANOUT DECKPLATE	(D)	DEMOLISH					
7	CAPPED PIPE	DEG. F	° FAHRENHEIT					
	••••	DIA	DIAMETER					
M	METER		DOWN					
	FLOOR DRAIN	. (E)						
		EA FAI	EACH FRESH AIR INTAKE					
$\land$	AQUASTAT	FAI	FLOOR DRAIN					
V II	FROST FREE HOSE BIBB	G	GAS					
<u>*</u> ~		'GC'	GENERAL CONSTRUCTION CONTRACTOR					
	PUMP	GPM	GALLONS PER MINUTE					
 		GPH	GALLONS PER HOUR					
· ` ` `	STRAINER	'H'	HVAC CONTRACTOR					
	UNION	HP	HORSEPOWER					
<u>.                                    </u>		HWR	HOT WATER RETURN					
	THERMOSTATIC MIXING VALVE	HWS	HOT WATER SUPPLY					
	BALANCING VALVE (BV)	IN.	INCHES					
— <b>x</b> —	GLOBE VALVE (GLV)	IN. W.C. (W.G.)	INCHES WATER COLUMN (WATER GAUGE)					
	CHECK VALVE	KW	KILOWATTS					
		LBS	POUNDS					
	GAS COCK	м	METER					
_7_	BALL VALVE (BV)	MAX	MAXIMUM					
		MIN	MINIMUM					
	GATE VALVE (GV)	NTS	NOT TO SCALE					
	COLD WATER (CW)	OD	OUTER DIAMETER					
		(P)	PROPOSED					
	HOT WATER (HW)	'P'	PLUMBING CONTRACTOR					
	HOT WATER RETURN (HWR)	PD	PRESSURE DROP					
		RD						
	WASTE PIPING (W,S,OW)	RPM						
	BELOW SLAB WASTE PIPING	RPZ	REDUCED PRESSURE ZONE					
		SAN / S ST	SANITARY STORM DRAIN					
	VENT PIPING (V)	TEMP	TEMPERATURE					
G	GAS PIPING (G)	TYP	TYPICAL					
	- 1~1	TWS	TEMPERED WATER SUPPLY					
	PIPING / EQUIPMENT TO BE REMOVED	TWR	TEMPERED WATER RETURN					
	POINT OF CONNECTION	V	VENT					
		VTR	VENT THROUGH ROOF					
	POINT OF DISCONNECTION	W	WASTE					

# APPLICABLE CODES

• 2020 NEW YORK STATE RESIDENTIAL CODE (NYSRC) 1ST PRINTING (INCLUDES PLUMBING, MECHANICAL, FUEL GAS, AND

ENERGY CONSERVATION) • 2020 NEW YORK STATE BUILDING CODE (NYSBC) 1ST PRINTING

2020 NEW YORK STATE FIRE CODE (NYSFC) 1ST PRINTING

 2020 NEW YORK STATE PLUMBING CODE (NYSPC) 1ST PRINTING 2020 NEW YORK STATE FUEL GAS CODE (NYSFGC) 1ST PRINTING

2020 NEW YORK STATE MECHANICAL CODE (NYSMC) 1ST PRINTING

• 2020 NEW YORK STATE ENERGY CONSERVATION CODE (NYSECC) 1ST PRINTING

# **GENERAL PLUMBING NOTES**

- OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- OF BIDS.
- PERFORM ALL WORK IN ACCORDANCE WITH THE 2020 NEW YORK STATE PLUMBING (NYSPC), FIRE (NYSFC), REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.
- INSTALLATIONS.
- APPLY FOR AND SECURE ALL REQUIRED PERMITS AND INSPECTIONS AND PAY ALL COSTS FOR THE SAME.
- 6. FIRE STOP ALL OPENINGS IN FIRE RATED CONSTRUCTION FOR PIPING, CONDUIT, ETC.
- FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE.
- MATERIALS PURCHASED WITH FIELD DIMENSIONS, MANUFACTURERS REQUIREMENTS FOR INSTALLATION, OPERATION, AND MAINTENANCE, CONTRACTORS INTENDED MEANS AND METHODS OF INSTALLATION AND ANY EQUIPMENT.
- EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
- WORK. OBTAIN THE APPROVAL OF THE ARCHITECT/ENGINEER FOR MODIFICATIONS.
- EQUIPMENT IS REQUIRED.
- AND EQUIPMENT INSTALLATION REQUIREMENTS.
- 13. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH MANUFACTURER CERTIFIED ACCURACY.
- PROVIDE ALL PIPING TRANSITIONS REQUIRED FOR FINAL CONNECTIONS TO EQUIPMENT.
- 15. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES.
- 16. COMPLETE ALL PRESSURE TESTS BEFORE ANY PLUMBING EQUIPMENT, OR PIPING INSULATION IS APPLIED.
- MEETING MSS STANDARDS. THE USE OF C-CLAMPS IS NOT PERMITTED.
- INCHES BEYOND THE EQUIPMENT ON ALL SIDES.
- OTHERWISE INDICATED ON THE DRAWINGS.
- FIXTURES IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- ARRESTERS, ETC. READILY ACCESSIBLE.
- JURISDICTION.
- 24. CORE DRILL ALL PENETRATIONS THROUGH CONCRETE FLOORS, WALLS, AND FOOTINGS.
- FOOTING PENETRATIONS.
- 27. COVER ALL COPPER PIPING BELOW SLAB WITH "ARMAFLEX" TYPE INSULATION.
- 28. SLOPE ALL VENT PIPING TO DRAIN BACK TO THE DRAINAGE SYSTEM.
- LOCAL AUTHORITIES HAVING JURISDICTION AND OBTAIN THEIR APPROVAL. 30. PROVIDE WATER HAMMER ARRESTORS AT ALL QUICK CLOSING FIXTURE VALVE LOCATIONS.
- FOR LOW LEAD.
- PROVISIONS.
- 33. ALL PIPING IN PLENUM SPACES SHALL BE CAST IRON FOR SANITARY, STORM, VENT SYSTEMS, AND COPPER PIPING FOR DOMESTIC SYSTEMS, AND STEEL PIPING FOR GAS SYSTEMS. NO PLASTIC PIPING ALLOWED.

ELE	CTRIC V	VATER HE	ATER [ASME	≡]													
								EQUIPMENT S	PECIFICATIONS				MINIMUM PERFOR	MANCE OF WATER HE	ATING (TABLE C404.2)		
EQUI	PMENT NO.	LOCATION	SYSTEM SERVED	ELECTRIC POWER	WATER CONNECTION	MNF	MODEL NO.	NOMINAL DIMENSION (DIA X HEIGHT)	CAPACITY (GAL)	NOMINAL OPERATING WEIGHT (LBS.)	VOLTS / PHASE	EQUIPMENT TYPE	SIZE CATEGORY	SUBCATEGORY	PERFORMANCE REQUIRED	ENERGY FACTOR	REMARKS
	WH-1	GARAGE	MOP SINK & EYEWASH	2 KW	3/4	AO SMITH	DEL-15	18" X 26"	15	185	208/1	WATER HEATER, ELECTRIC	< 12 KW	RESISTANCE	0.97-0.0013V EFFICIENCY	97 PERCENT	

PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND

THE CONTRACTOR, BY PRESENTING THEIR BID FOR THE WORK, REPRESENTS THAT HE/SHE HAS INSPECTED THE SITE AND IS COMPLETELY FAMILIAR WITH THE SCOPE OF WORK AND ALL FIELD CONDITIONS RELATED TO, AND AFFECTING THE WORK AND ITS PERFORMANCE. EXCEPTIONS AFFECTING THE WORK AND ITS PERFORMANCE, OR CONFLICTS BETWEEN FIELD CONDITIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE SUBMISSION

MECHANICAL (NYSMC), ENERGY CONSERVATION CONSTRUCTION (NYSECC), AND FUEL GAS (NYSFGC) CODE AND THE

COMPLY WITH THE NATIONAL ELECTRIC CODE AND THE REQUIREMENTS OF DIVISION 26 FOR ALL ELECTRICAL

DO NOT SCALE DRAWINGS. DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED

COORDINATE CONTRACT DOCUMENTS PROJECT REQUIREMENTS, WORK OF OTHERS, AND EQUIPMENT AND CONTRACTORS FABRICATED ITEMS TO ENSURE A PROPER "FIT" AND INSTALLATION. BRING ANY CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER DURING THE SUBMITTAL PHASE FOR RESOLUTION PRIOR TO PURCHASING

MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM AND SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH INSTALLATION. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE FROM FINISHED FLOOR TO UNDERSIDE OF PIPES, CONDUITS, SUSPENDED

0. FIELD VERIFY AND COORDINATE ALL PIPING DIMENSIONS BEFORE FABRICATION. MAKE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE

I. PROVIDE PRODUCTS OF ONE MANUFACTURER WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF MATERIAL OR

12. INSTALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS. REFER TO DETAILS FOR ADDITIONAL PIPING

STRAIGHT SECTION OF PIPE UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER TO ENSURE

. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. COORDINATE AND

COORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURE WITH GENERAL CONSTRUCTION WORK.

17. MAKE ALL ATTACHMENTS TO JOISTS, TRUSSES, OR JOIST GIRDERS AT PANEL POINTS. PROVIDE BEAM CLAMPS

18. PROVIDE CONCRETE PADS A MINIMUM OF 4 INCHES HIGH FOR ALL FLOOR MOUNTED EQUIPMENT. EXTEND PAD 4

19. INSTALL PIPING, AND CONDUIT CONCEALED IN AREAS HAVING HUNG CEILINGS AND/OR FURRED SPACES UNLESS

20. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL ACCESSIBLE FIXTURES. MOUNT ALL SUCH

21. PROVIDE ACCESS DOORS IN WALLS, PARTITIONS, AND CEILINGS AS REQUIRED TO MAKE VALVES, WATER HAMMER

22. ARRANGE FOR, COORDINATE, AND MAKE CONNECTION TO ALL SERVICES PROVIDED BY OTHERS. CONFORM TO ALL REQUIREMENTS APPLICABLE TO CONNECTIONS IMPOSED BY UTILITY COMPANIES AND AUTHORITIES HAVING

23. INSTALL FIXTURES AND EQUIPMENT WITH VALVES, UNIONS, ETC. TO ALLOW FOR EASE OF SERVICE AND/OR REMOVAL.

25. INSTALL LINK SEAL TYPE PROTECTION FOR WATER RESISTANT SEALS AT ALL SLAB AND BELOW GROUND WALL

26. FURNISH AND INSTALL WATER PRESSURE REDUCING VALVE AND PRESSURE RELIEF VALVE IN ACCORDANCE WITH THE NEW YORK STATE PLUMBING CODE ON ALL INCOMING DOMESTIC WATER SYSTEMS IN EXCESS OF 80 P.S.I.G.

29. FLUSH AND DISINFECT ALL DOMESTIC POTABLE WATER PIPING AND TEST THE WATER IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE. PROVIDE CERTIFICATE OF PERFORMANCE AND LABORATORY TEST REPORT TO

31. ALL PIPING, VALVES AND FITTINGS USED FOR POTABLE WATER SHALL BE NSF 61/372 COMPLIANT AND BE TESTED

32. ANY PENETRATIONS THROUGH AIR BARRIER SHALL BE SEALED AS PER 2020 NYSECC RESIDENTIAL AND COMMERCIAL

PLUMBI	NG FI	XTURES
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FIXTURE NO.	DESCRIPTION	С
		SIZ
EW-1	EMERGENCY EYEWASH STATION - BRADLEY S19-210B	
MS-1	MOP SINK - BASIN - MUSTEE MODEL 28CF (INCLUDES 24" PULL-OUT SPOUT AND LEVER HANDLES FAUCET	3/
FD-1	FLOOR DRAIN - ZURN MODEL ZN415BZ-P	
HB-1	INTERIOR HOSE BIBB - ACORN MODEL 8121	3/
HB-2	FROST FREE WALL HYDRANT - JOSAM 71000 SERIES	3/
NOTES:		

1. CHROME PLATE ALL DRAIN PIPE, FITTINGS, P-TRAPS AND SUPPLY LINES THAT ARE EXPOSED, LOCATED WITHIN VANITIES OR ACCESSIBLE 2. MINIMUM CONNECTION SIZES INDICATED ARE EQUIPMENT CONNECTION SIZES OR CODE MINIMUM SIZES, SEE PLANS AND DIAGRAMS FOR A

## MIXING VALVE

	EQUIPMENT NO.			BASI	S OF DESIGN INFORI	MATION
		LOCATION	MAXIMUM PRESSURE RANGE	MINIMUM FLOW	MAXIMUM FLOW	MANUFACTUE
	MV-1	EYEWASH	125 PSI	1.5 GPM	60 GPM	BRADLEY

## OIL/WATER SEPARATOR

	QUIPMENT LOCATION FLUID FLOW	BASIS OF DES	BASIS OF DESIGN INFORMATION			
	LOCATION	FLUID	-	INLET AND OUTLET SIZE	MANUFACTUER	MODEL
OWS-1	GARAGE	OIL	100	3"	ZURN	Z1188

#### **EXPANSION TANKS [ASME CERTIFIED]**

EQUIPMENT NO. LOCATIO			PERFORM	ANCE/CONSTRUCTION	REQUIREMENTS	
	LOCATION	SYSTEM	SYSTEM DATA			
	EQUIPMENT NO. LOCATION	SERVED	ESTIMATED VOLUME (GAL.)	MAX. OPERATING PRESS. RANGE (PSIG)	MAX. OPERATING TEMP. RANGE (DEG. F	
ET-1	GARAGE	MOP SINK & EYEWASH	2	150	200	
		ETEWASH				

#### **PUMP SCHEDULE**

PUMP NO.     LOCATION     TYPE     SERVICE     OTH (EA)     TDH (FT)       SP-1     GARAGE     SIMPLEX     SANITARY     70     13     1725     0.4     1									
SP-1     GARAGE     SIMPLEX     SANITARY     70     13     1725     0.4     1			TVDE		GPM				MOTOR
<b>I</b> SP-1   (JARAGE   SIMPLEX     /U   13   1/25   U.4   1	PUMP NO.	LUCATION	ITPE	SERVICE	(EA)		RPM	HP (EA)	PHASE
	SP-1	GARAGE	SIMPLEX	SANITARY WASTE	70	13	1725	0.4	1

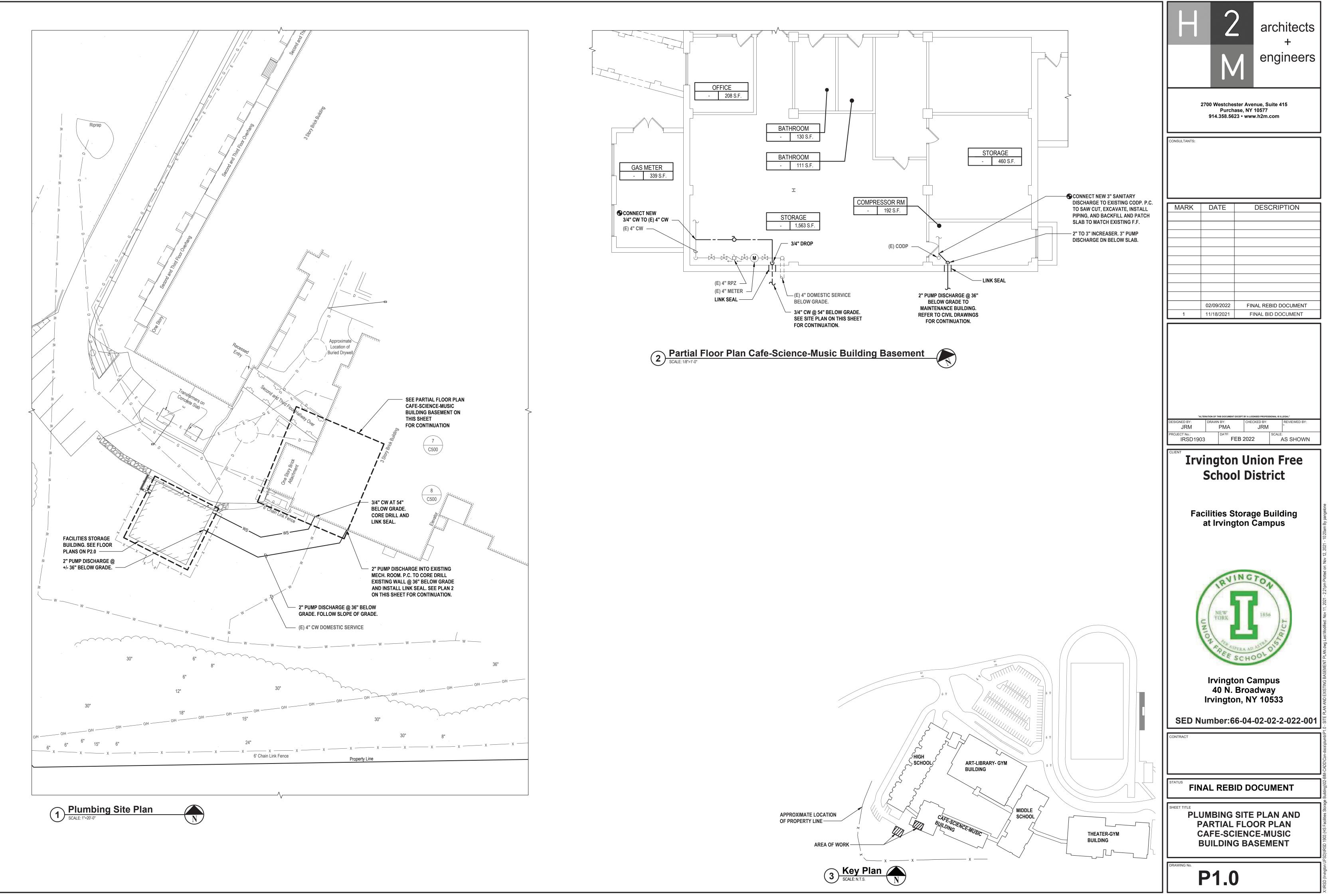
#### PLUMBING NOTES

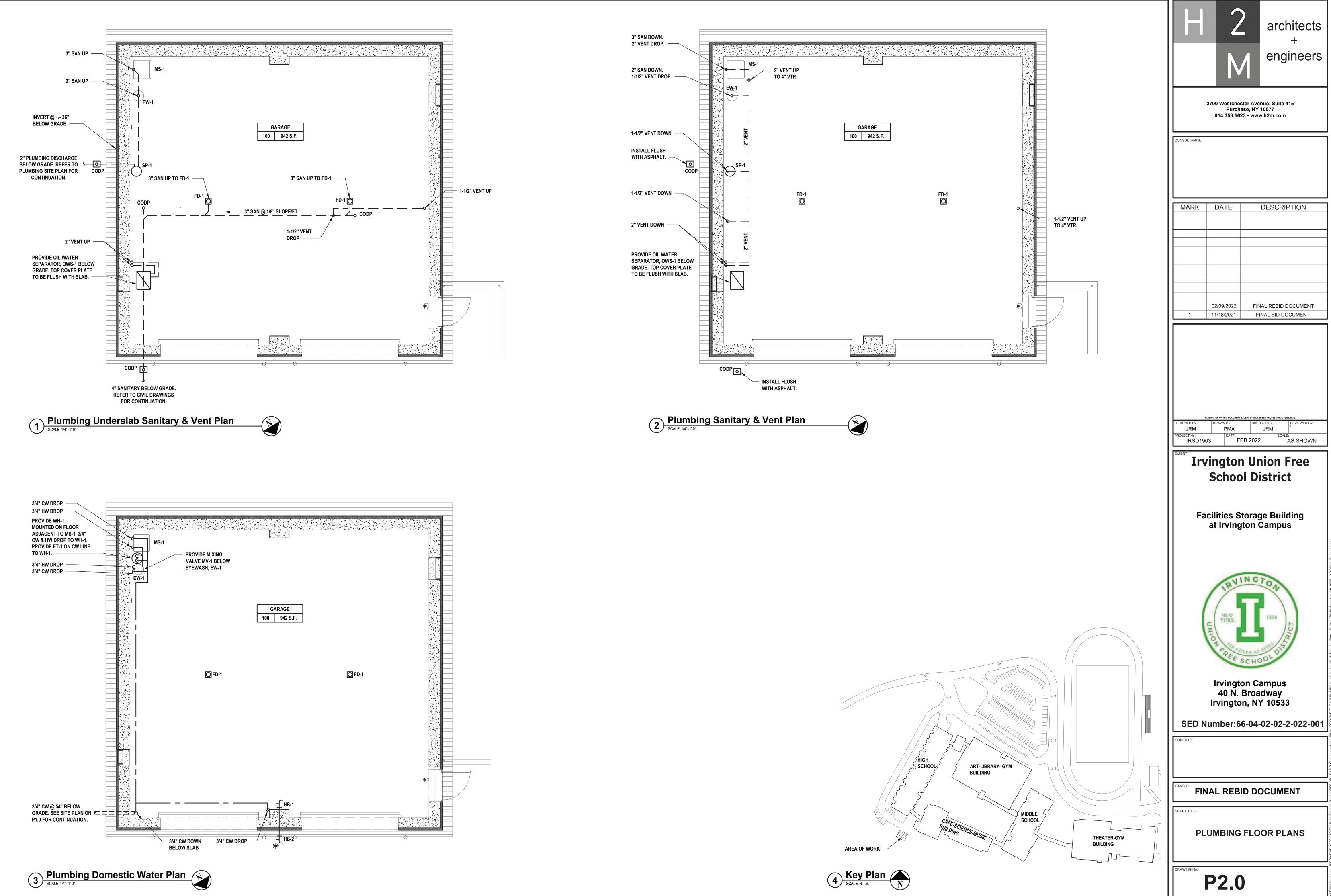
1. ALL FAUCETS, FITTINGS, AND VALVES MUST COMPLY WITH NSF 61 AND ANSI / NSF 372 FOR LOW LEAD PERCENTAGE

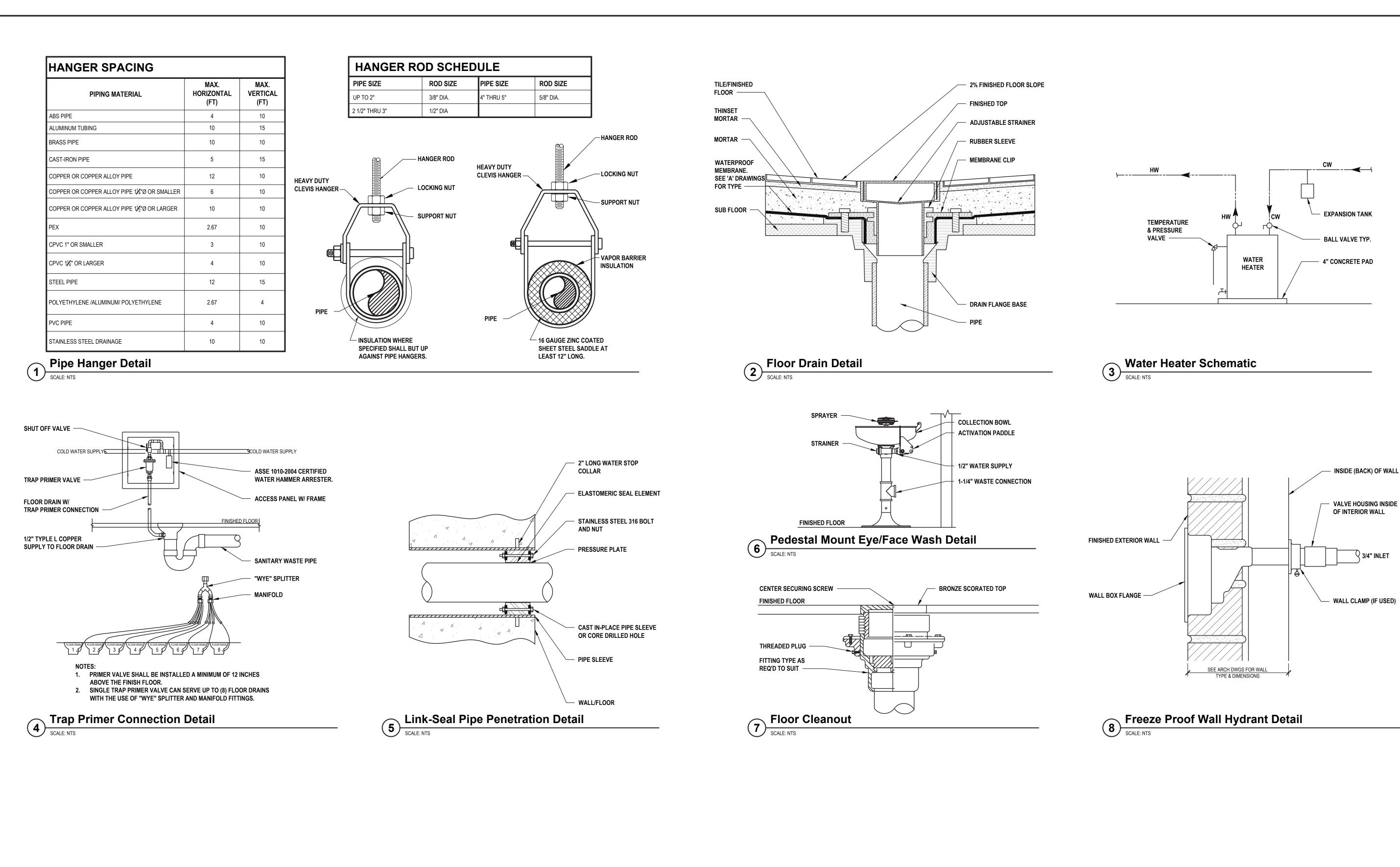
2. CONTRACTOR SHALL BE RESPONSIBLE TO DEMONSTRATE COMPLIANCE WITH THE NYS DEPARTMENT OF HEALTH LEAD IN WATER REGULATION (10 NYCRR 67-4).

3. AT THE CONCLUSION OF NEW PLUMBING WORK, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE THE SERVICES OF A THIRD PARTY NYS LICENSED ENVIRONMENTAL TESTING LABORATORY TO PROVIDE LEAD TESTING AT ALL NEW LAVATORIES. SINKS, DRINKING FOUNTAINS AND ALL OTHER FIXTURES WHERE WATER MAY BE CONSUMED FOR DRINKING. TWO COPIES OF THE REPORT MUST BE SUBMITTED, ONE COPY TO THE ENGINEER AND THE OTHER ONE TO THE OWNER.

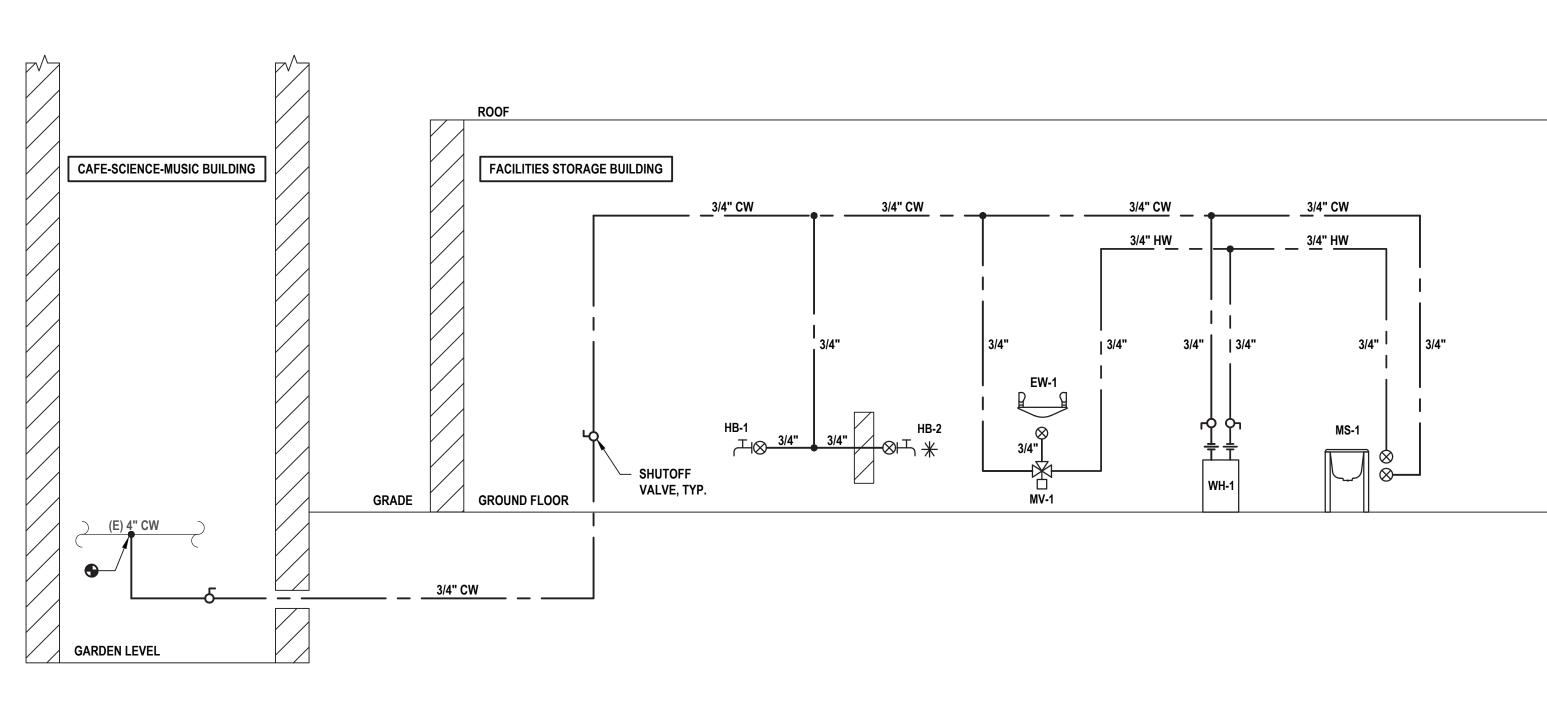
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		N		ONNECTION SIZES	S (IN)			
OLD	WATER	но	T WATER	TEMPERED WATER	DRAIN		V	
ZE	FU	SIZE	FU		SIZE	DFU	V	M engineers
	-	-	-	3/4	1-1/4	-		
4	2.25	3/4	2.25	5 -	3	2	2	2700 Westchester Avenue, Suite 415 Purchase, NY 10577
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4	-	-	-	-	-	-	-	
BINE	TS OR BEHIN	D WATER CI	LOSETS					
TUAL	SIZES REQUI	RED						MARK DATE DESCRIPTION
		NOMINIAL			MARKS			
	MODEL		DIMENSIONS / X H)	PROVIDE L	JNDER EYEV			
S	19-2000EFX	3 1/2"	' X 7 5/8"					
NON	AINAL DIME	NSIONS		REMARKS				02/09/2022         FINAL REBID DOCUMENT           1         11/18/2021         FINAL BID DOCUMENT
	(L X W X H	H)	PROVIDE	COLLAR EXTENSION				
42	2-3/4" X 33-5/8"	· X 27"		TO BE FLUSH WITH F				
			EQUIPN		IONS			
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ļ	AMTROL	ST-5C		8" X 13"	3/4'		21	PROJECT No.: DATE: SCALE: AS SHOWN
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ΟΑΤΑ	l			DEN	MARKS			School District
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	60	115	V AS	REQUIRED FOR COV	ER TO BE FL	LUSH WITH	FINISHED FLOOR.	Facilities Storage Building
								at Irvington Campus
								IRVINGTON
								C YORK 1856
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								REE SCHOOL
								Irvington Campus 40 N. Broadway
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								GENERAL NOTES, LEGENDS, AND SCHEDULES
								DRAWING No.



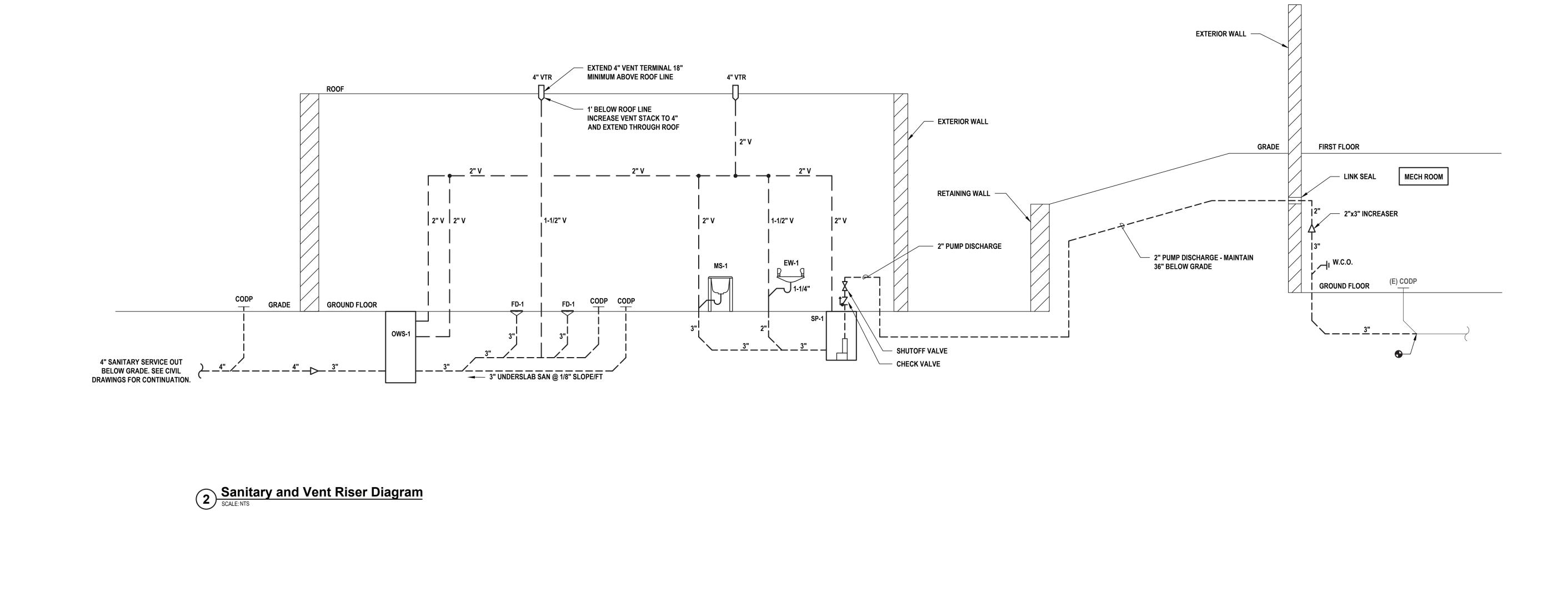




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