	SYMBOLS LIST	Γ	
LE	GEND		ABBREVIATIONS
SYMBOL	DESCRIPTION	AFF	ABOVE FINISHED FLOOR
OTHIBOE	BESSELL HON	BTU	BRITISH THERMAL UNIT
<u>O</u> —	PIPING UP	BTUH	BTU PER HOUR
<u> </u>	PIPING DOWN	CLG	CEILING
	1 11 110 501111	со	CLEAN OUT
$\longrightarrow$	REDUCER	CODP	CLEAN OUT DECK PLATE
	CLEANOUT	COWP	CLEAN OUT WALL PLATE
		CW	COLD WATER
$\odot$	CLEANOUT DECKPLATE	(D)	DEMOLISH
	CARRED DIDE	DEG. F	° FAHRENHEIT
	CAPPED PIPE	DIA	DIAMETER
M	METER	DN	DOWN
		(E)	EXISTING
0	FLOOR DRAIN	EA	EACH
$\Diamond$	AQUASTAT	FAI	FRESH AIR INTAKE
		FD	FLOOR DRAIN
* 7	FROST FREE HOSE BIBB	G	GAS
	PUMP	'GC'	GENERAL CONSTRUCTION CONTRACTOR
		GPM	GALLONS PER MINUTE
	STRAINER	GPH	GALLONS PER HOUR
	LINION	'H'	HVAC CONTRACTOR
	UNION	HP	HORSEPOWER
— <del>"</del> —	THERMOSTATIC MIXING VALVE	HWR	HOT WATER RETURN
Т		HWS	HOT WATER SUPPLY
<b>─</b> ₩	BALANCING VALVE (BV)	IN.	INCHES
<b>─</b> \ <b>\</b>	GLOBE VALVE (GLV)	IN. W.C. (W.G.)	INCHES WATER COLUMN (WATER GAUGE)
<b>—</b>	CHECK VALVE	KW	KILOWATTS
		LBS	POUNDS
$\longrightarrow$	GAS COCK	М	METER
<u> </u>	BALL VALVE (BV)	MAX	MAXIMUM
		MIN	MINIMUM
$-\!\!\bowtie\!\!-$	GATE VALVE (GV)	NTS	NOT TO SCALE
	— COLD WATER (CW)	OD	OUTER DIAMETER
	— GOLD WATER (GW)	(P)	PROPOSED
	— HOT WATER (HW)	'P'	PLUMBING CONTRACTOR
		PD	PRESSURE DROP
	— HOT WATER RETURN (HWR)	RD	ROOF DRAIN
	WASTE PIPING (W,S,OW)	RPM	REVOLUTIONS PER MINUTE
		RPZ	REDUCED PRESSURE ZONE
	BELOW SLAB WASTE PIPING	SAN / S	SANITARY
	VENT PIPING (V)	ST	STORM DRAIN
		TEMP	TEMPERATURE
G	— GAS PIPING (G)	TYP	TYPICAL
·/////	PIPING / EQUIPMENT TO BE REMOVED	TWS	TEMPERED WATER SUPPLY
.//////,	I II 1140 / EQUII MILITI TO DE REMIOVED	TWR	TEMPERED WATER RETURN
<b>←</b>	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**

- 1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- 2. 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
- 3. PERFORM ALL WORK IN ACCORDANCE WITH THE 2020 NEW YORK STATE PLUMBING (NYSPC), FIRE (NYSFC), MECHANICAL (NYSMC), ENERGY CONSERVATION CONSTRUCTION (NYSECC), AND FUEL GAS (NYSFGC) CODE AND THE REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.
- 4. COMPLY WITH THE NATIONAL ELECTRIC CODE AND THE REQUIREMENTS OF DIVISION 26 FOR ALL ELECTRICAL INSTALLATIONS.
- 5. 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.
- 7. 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 FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE.
- 8. COORDINATE CONTRACT DOCUMENTS PROJECT REQUIREMENTS, WORK OF OTHERS, AND EQUIPMENT AND MATERIALS PURCHASED WITH FIELD DIMENSIONS. MANUFACTURERS REQUIREMENTS FOR INSTALLATION. OPERATION, AND MAINTENANCE, CONTRACTORS INTENDED MEANS AND METHODS OF INSTALLATION 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 ANY EQUIPMENT.
- 9. 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 EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
- 10. 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 WORK. OBTAIN THE APPROVAL OF THE ARCHITECT/ENGINEER FOR MODIFICATIONS.
- 11. PROVIDE PRODUCTS OF ONE MANUFACTURER WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF MATERIAL OR EQUIPMENT IS REQUIRED.
- 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 AND EQUIPMENT INSTALLATION REQUIREMENTS.
- 13. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER TO ENSURE MANUFACTURER CERTIFIED ACCURACY.
- 14. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. COORDINATE AND 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. COORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURE WITH GENERAL CONSTRUCTION WORK.
- 16. COMPLETE ALL PRESSURE TESTS BEFORE ANY PLUMBING EQUIPMENT, OR PIPING INSULATION IS APPLIED.
- 17. MAKE ALL ATTACHMENTS TO JOISTS, TRUSSES, OR JOIST GIRDERS AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. THE USE OF C-CLAMPS IS NOT PERMITTED.
- 18. PROVIDE CONCRETE PADS A MINIMUM OF 4 INCHES HIGH FOR ALL FLOOR MOUNTED EQUIPMENT, EXTEND PAD 4 INCHES BEYOND THE EQUIPMENT ON ALL SIDES.
- 19. INSTALL PIPING, AND CONDUIT CONCEALED IN AREAS HAVING HUNG CEILINGS AND/OR FURRED SPACES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- 20. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL ACCESSIBLE FIXTURES. MOUNT ALL SUCH FIXTURES IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- 21. PROVIDE ACCESS DOORS IN WALLS, PARTITIONS, AND CEILINGS AS REQUIRED TO MAKE VALVES, WATER HAMMER ARRESTERS, ETC. READILY ACCESSIBLE.
- 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
- 24. CORE DRILL ALL PENETRATIONS THROUGH CONCRETE FLOORS, WALLS, AND FOOTINGS.
- 25. INSTALL LINK SEAL TYPE PROTECTION FOR WATER RESISTANT SEALS AT ALL SLAB AND BELOW GROUND WALL FOOTING PENETRATIONS.
- 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.
- 27. COVER ALL COPPER PIPING BELOW SLAB WITH "ARMAFLEX" TYPE INSULATION.
- 28. SLOPE ALL VENT PIPING TO DRAIN BACK TO THE DRAINAGE SYSTEM.
- 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 LOCAL AUTHORITIES HAVING JURISDICTION AND OBTAIN THEIR APPROVAL.
- 30. PROVIDE WATER HAMMER ARRESTORS AT ALL QUICK CLOSING FIXTURE VALVE LOCATIONS.
- 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 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.

PLUMBING FIXTURES									
				MINI	MUM CONI	NECTION SIZES	(IN)		
FIXTURE NO.	DESCRIPTION	COLD	WATER	HOT W	ATER	TEMPERED WATER	DF	RAIN	V
		SIZE	FU	SIZE	FU	SIZE	SIZE	DFU	-
EW-1	EMERGENCY EYEWASH STATION - BRADLEY S19-210B	-	-	-	-	3/4	1-1/4	-	-
MS-1	MOP SINK - BASIN - MUSTEE MODEL 28CF (INCLUDES 24" PULL-OUT SPOUT AND LEVER HANDLES FAUCET	3/4	2.25	3/4	2.25	-	3	2	2
FD-1	FLOOR DRAIN - ZURN MODEL ZN415BZ-P	-	-	-	-	-	3	2	1 1/2
HB-1	INTERIOR HOSE BIBB - ACORN MODEL 8121	3/4	-	-	-	-	-	-	-
HB-2	FROST FREE WALL HYDRANT - JOSAM 71000 SERIES	3/4		-	-	-	-	-	-

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

### MIXING VALVE

EQUIPMENT			BASI	S OF DESIGN INFOR	MATION			REMARKS
NO.	LOCATION	MAXIMUM PRESSURE RANGE	MINIMUM FLOW	MAXIMUM FLOW	MANUFACTUER	MODEL	NOMINAL DIMENSIONS (W X H)	PROVIDE UNDER EYEWASH
MV-1	EYEWASH	125 PSI	1.5 GPM	60 GPM	BRADLEY	S19-2000EFX	3 1/2" X 7 5/8"	W/ CONNECTIONS TO CW & HW.

#### OIL/WATER SEPARATOR

EQUIPMENT				BASIS OF DES	GIGN INFORMATION			
NO.	LOCATION	FLUID	FLOW (GPM)	INLET AND OUTLET SIZE	MANUFACTUER	MODEL	NOMINAL DIMENSIONS (L X W X H)	REMARKS
OWS-1	GARAGE	OIL	100	3"	ZURN	Z1188	42-3/4" X 33-5/8" X 27"	PROVIDE COLLAR EXTENSION AS REQUIRED FOR COVER TO BE FLUSH WITH FINISHED FLOOR.

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

	•	•	-							
			PERFORMA	ANCE/CONSTRUCTION	I REQUIREMENTS		Е	QUIPMENT SPECIFICAT	IONS	
EQUIPMENT NO.	LOCATION	SYSTEM		SYSTEM DATA						OPERATING
		SERVED	ESTIMATED VOLUME (GAL.)	MAX. OPERATING PRESS. RANGE (PSIG)	MAX. OPERATING TEMP. RANGE (DEG. F)	MNF	MODEL NO.	DIMENSION DIA. x H	WATER CONNECTION	WEIGHT (LBS.)
ET-1	GARAGE	MOP SINK & EYEWASH	2	150	200	AMTROL	ST-5C	8" X 13"	3/4"	21

#### PUMP SCHEDULE

PUMP NO.	LOCATION	TYPE	SERVICE	GPM	TDH (FT)			MOTOR	DATA		REMARKS
PUMP NO.	LOCATION	ITPE	SERVICE	(EA)	TOTT (1.1)	RPM	HP (EA)	PHASE	CYCLE	VOLTS	REWARKS
SP-1	GARAGE	SIMPLEX	SANITARY WASTE	70	13	1725	0.4	1	60	115 V	LITTLE GIANT MODEL #WCR-9SP. PROVIDE COLLAR EXTENSION AS REQUIRED FOR COVER TO BE FLUSH WITH FINISHED FLOOR.

### **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).
- . 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.



engineers

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MARK	DATE	DESCRIPTION
1	11/18/2021	FINAL BID DOCUMENT



"ALTER	RATION OF T	HIS DOCUME	NT EXCEPT	BY A LICENSED PROFES	SIONAL IS IL	LEGAL"
GNED BY:	DRAWN	IBY:		CHECKED BY:		REVIEWED BY:
JRM		PMA		JRM		Q
IRSD1903		DATE:	NOV	2021	SCALE:	AS SHOWN

## **Irvington Union Free School District**

**Facilities Storage Building** at Irvington Campus



**Irvington Campus** 40 N. Broadway Irvington, NY 10533

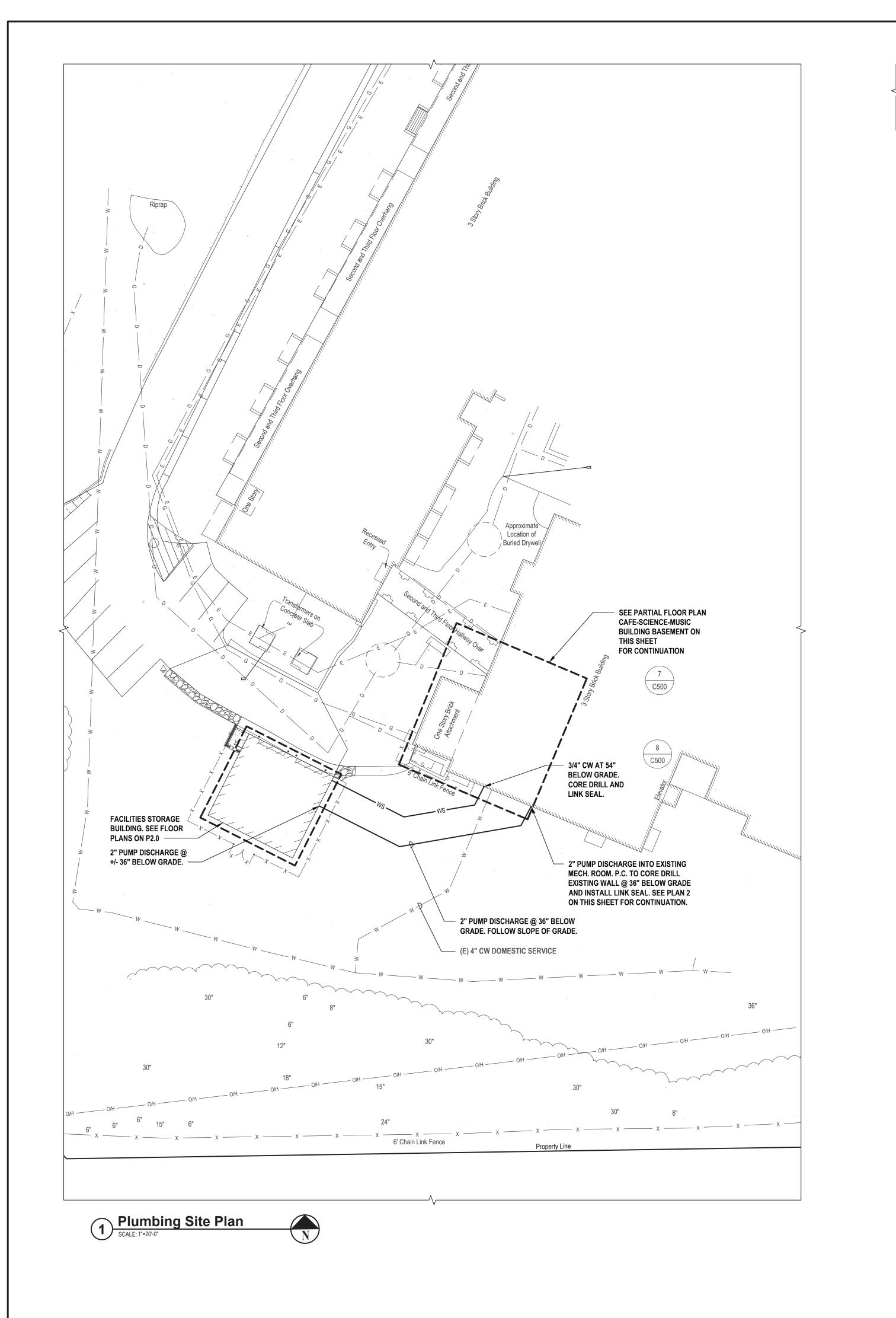
SED Number:66-04-02-02-2-022-001

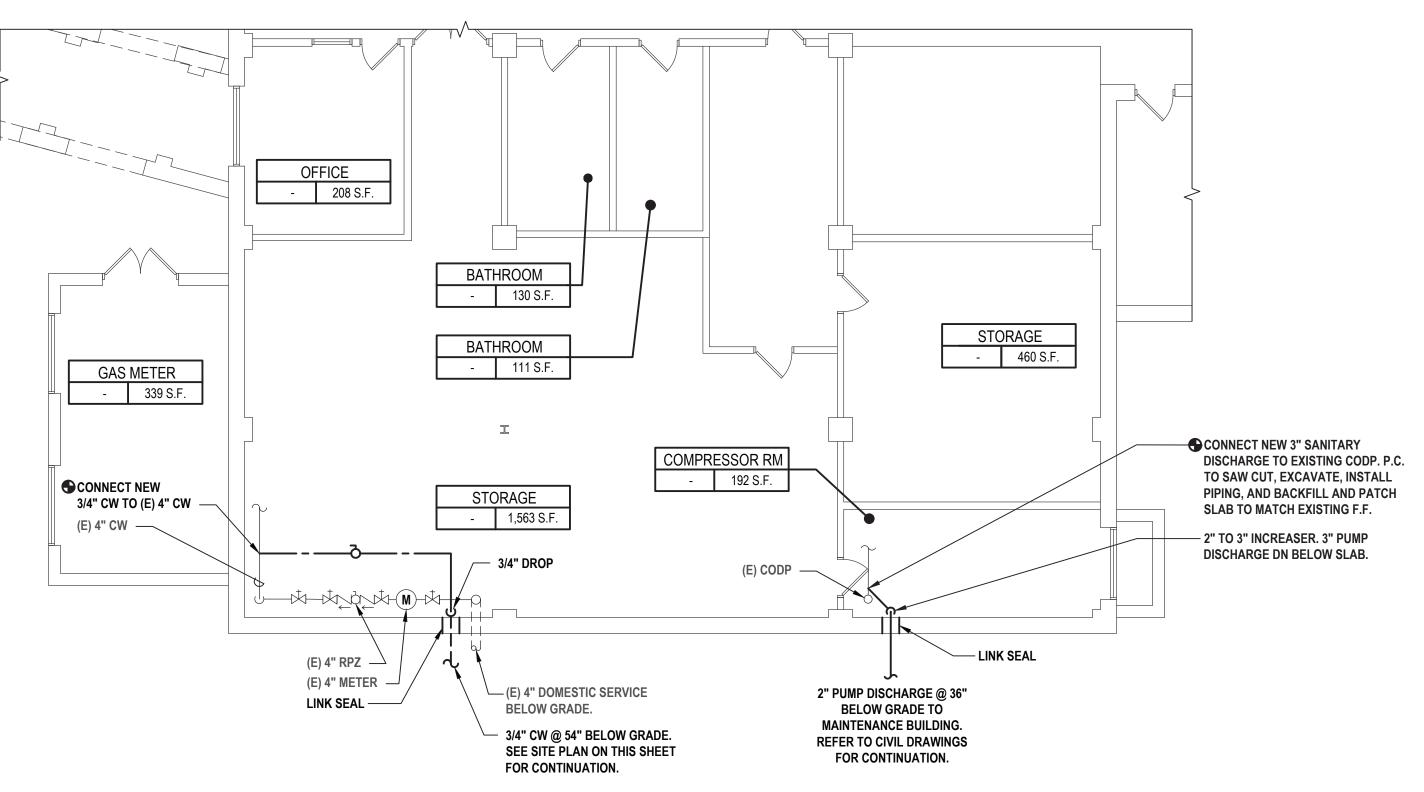
FINAL BID DOCUMENT

**PLUMBING GENERAL NOTES, LEGENDS, AND SCHEDULES** 

P0.0

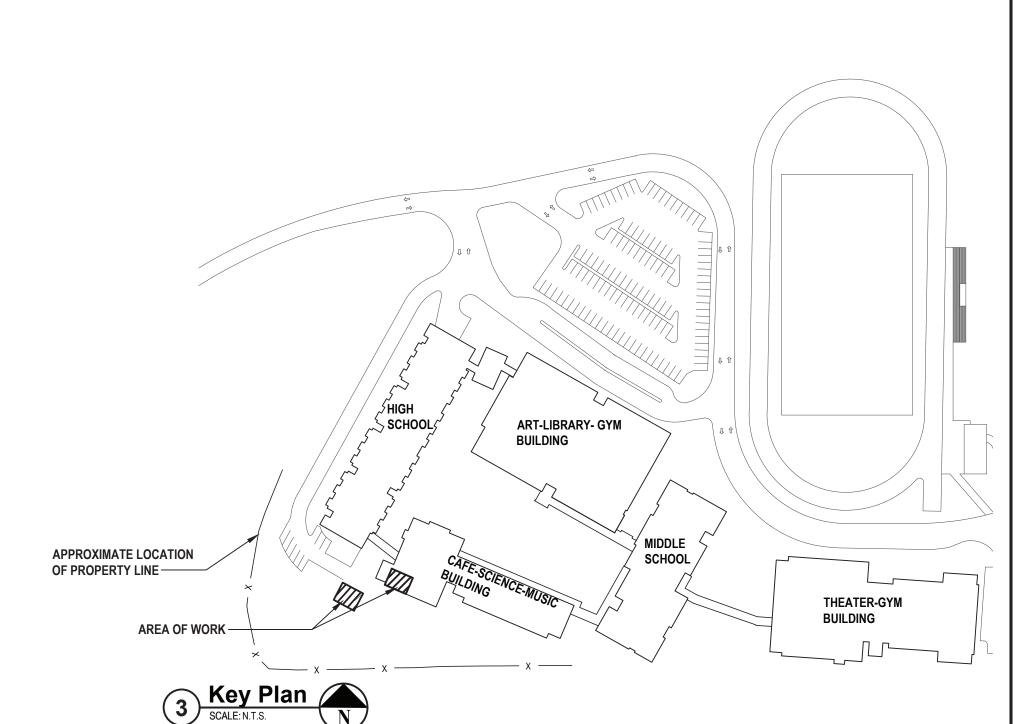
#### **ELECTRIC WATER HEATER [ASME]** MINIMUM PERFORMANCE OF WATER HEATING (TABLE C404.2) **EQUIPMENT SPECIFICATIONS NOMINAL** NOMINAL **EQUIPMENT NO.** LOCATION SYSTEM SERVED REMARKS **CAPACITY** WATER PERFORMANCE DIMENSION **OPERATING SUBCATEGORY ENERGY FACTOR ELECTRIC POWER** MODEL NO. VOLTS / PHASE | EQUIPMENT TYPE | SIZE CATEGORY (GAL) REQUIRED CONNECTION (DIA X HEIGHT) WEIGHT (LBS.) WATER HEATER, WH-1 **GARAGE** MOP SINK & EYEWASH 2 KW **AO SMITH** < 12 KW RESISTANCE 0.97-0.0013V EFFICIENCY 97 PERCENT DEL-15 18" X 26" 185 **ELECTRIC**

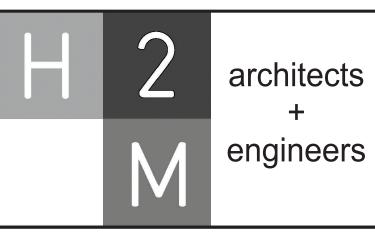




Partial Floor Plan Cafe-Science-Music Building Basement

SCALE: 1/8"=1'-0"

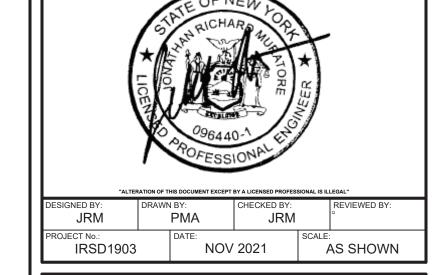




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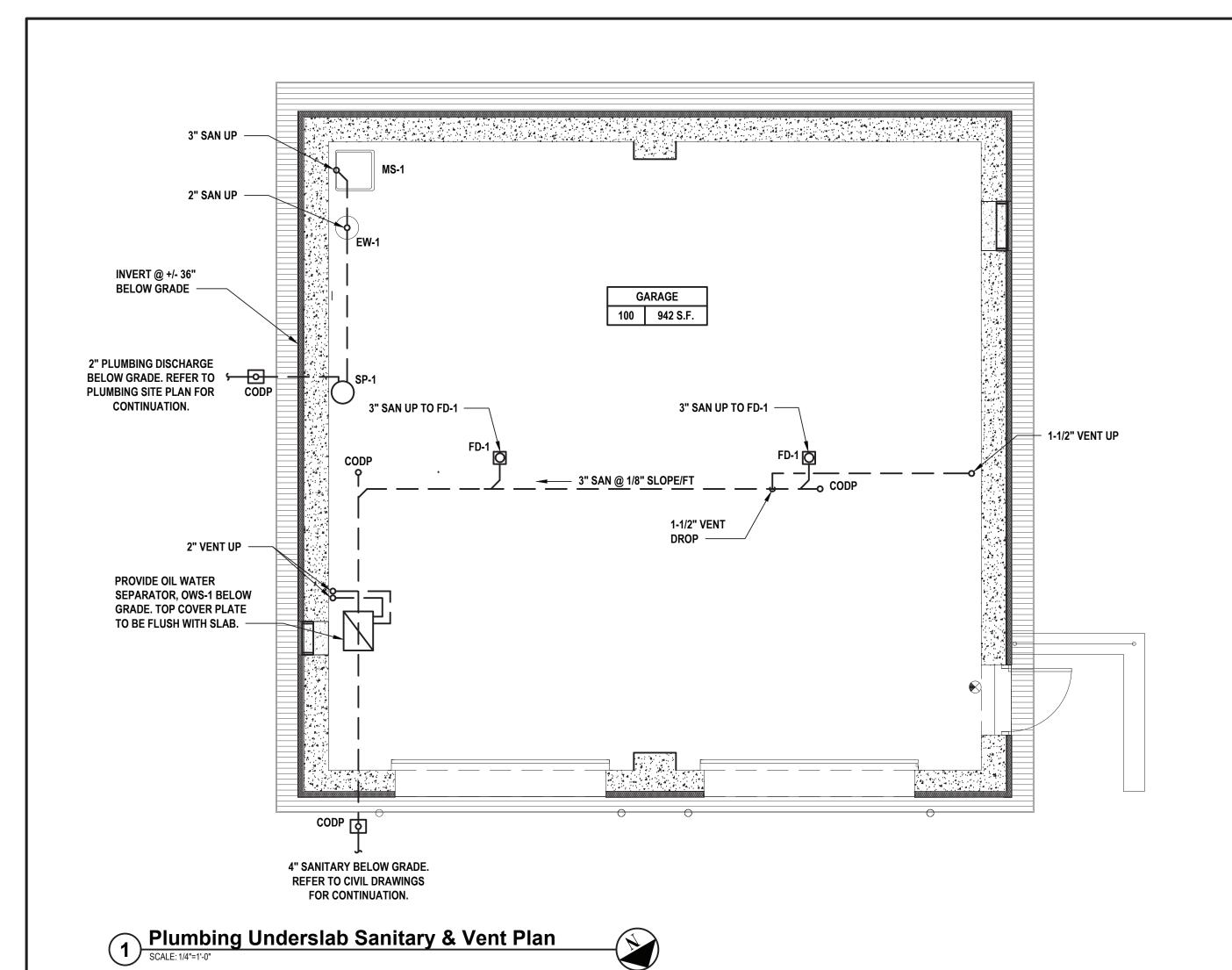
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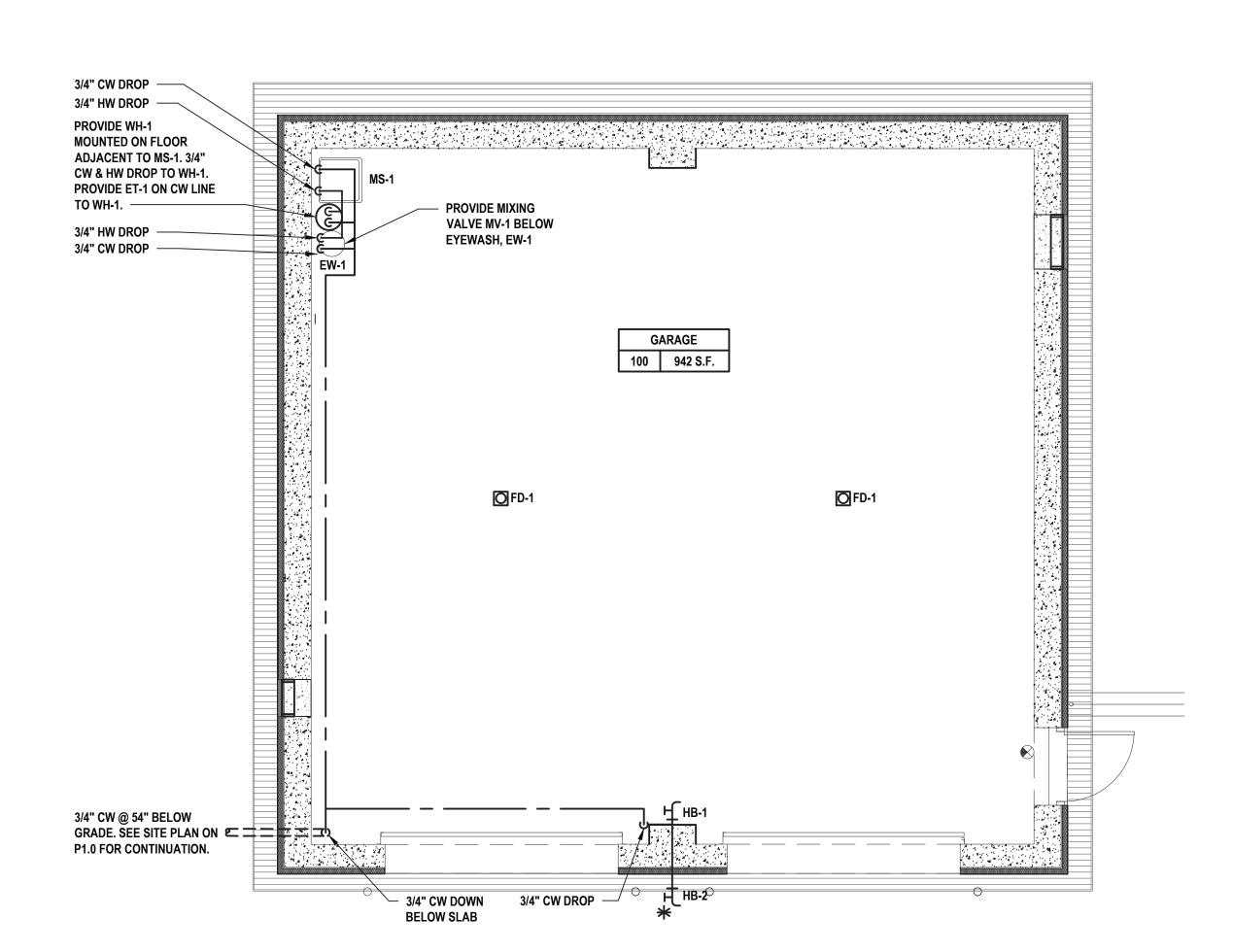
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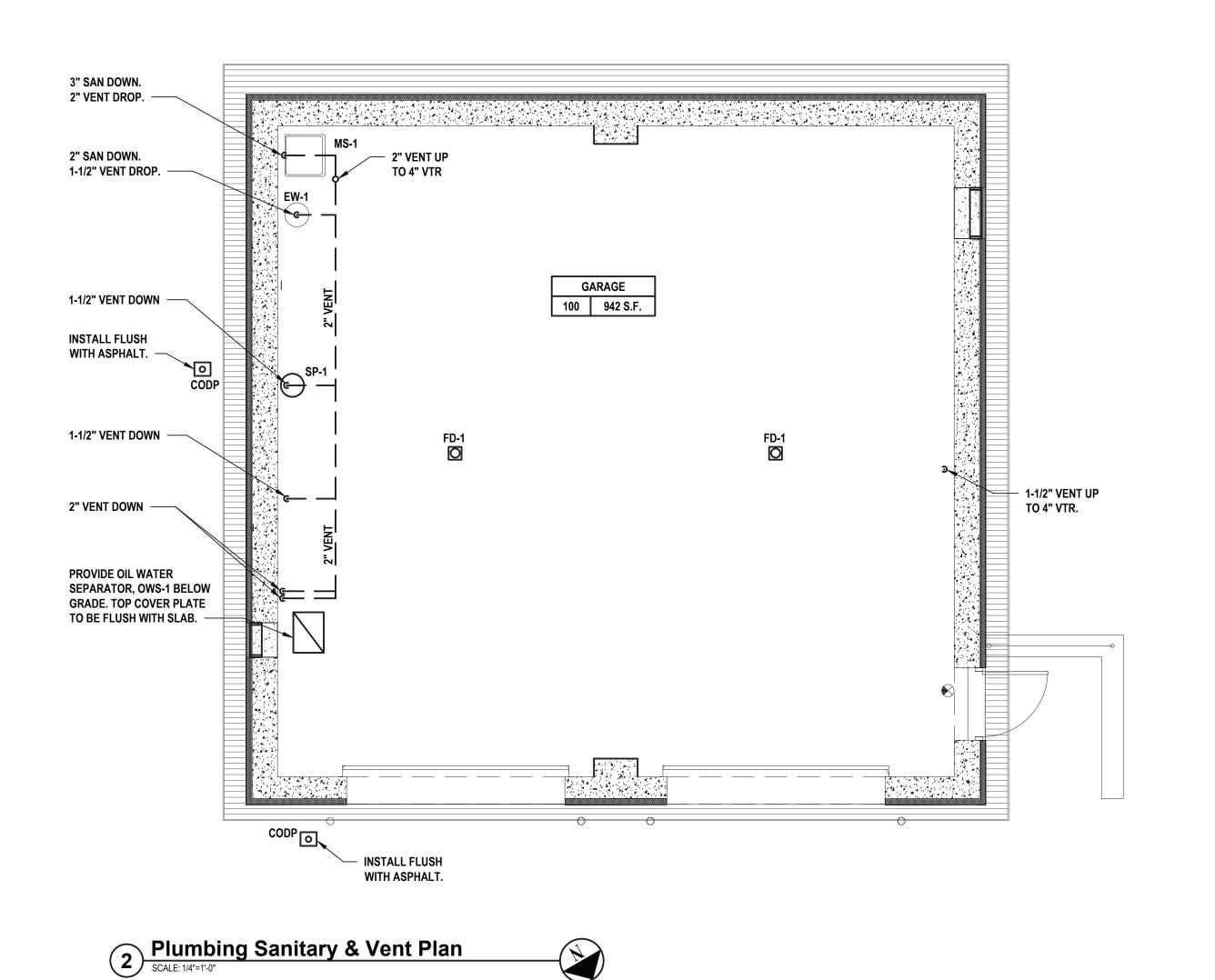
PLUMBING SITE PLAN AND PARTIAL FLOOR PLAN CAFE-SCIENCE-MUSIC BUILDING BASEMENT

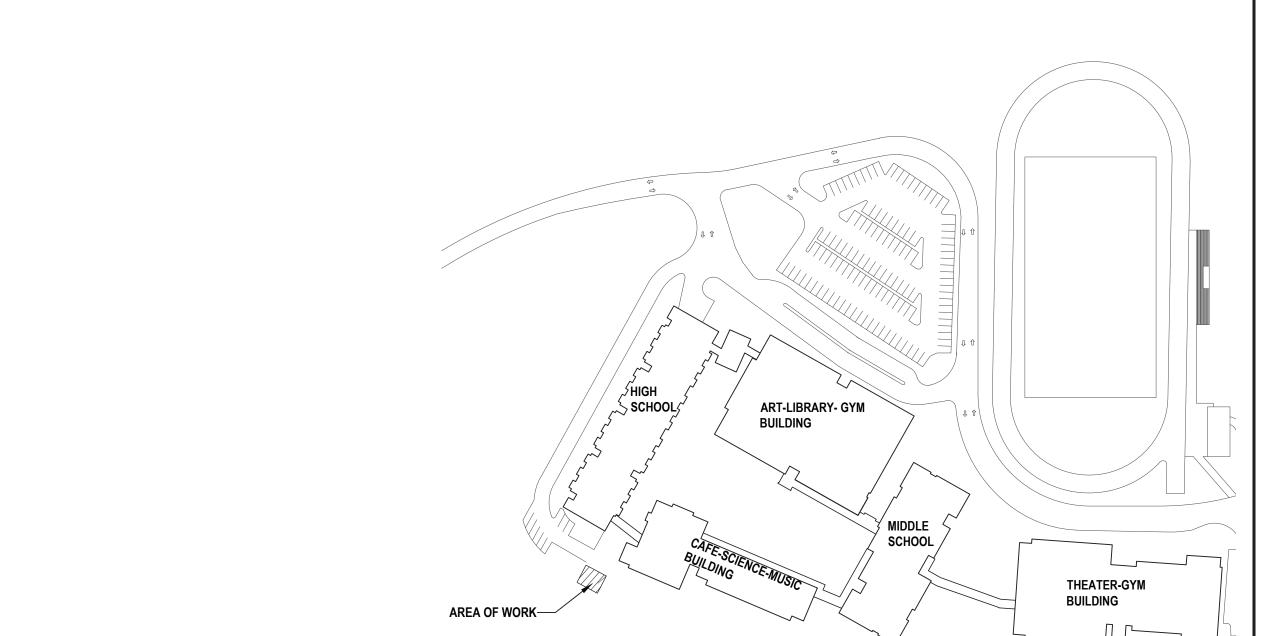
P1.0

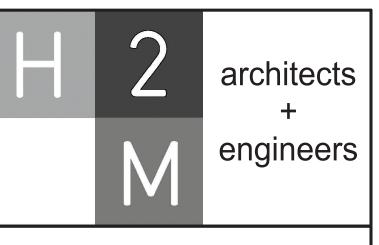




3 Plumbing Domestic Water Plan
SCALE: 1/4"=1'-0"



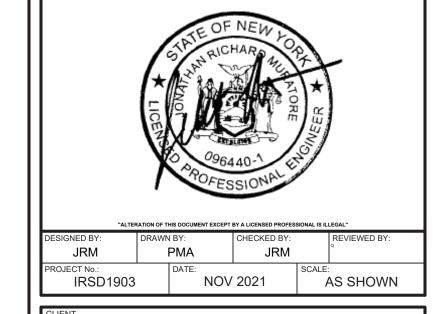




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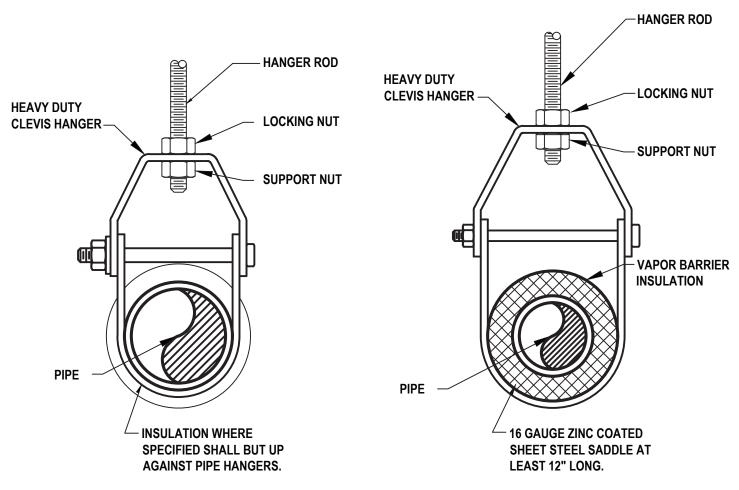
SHEET TITLE

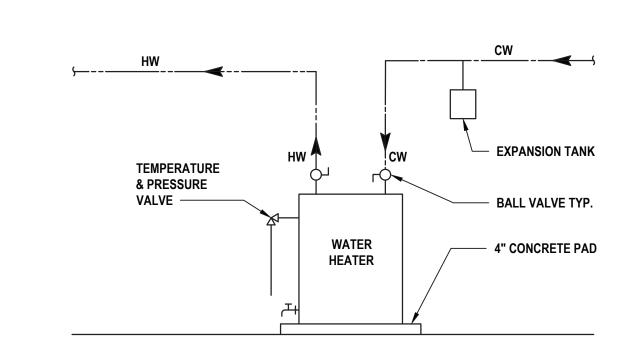
PLUMBING FLOOR PLANS

P2.0

PIPING MATERIAL	MAX. HORIZONTAL (FT)	MAX. VERTICAL (FT)
ABS PIPE	4	10
ALUMINUM TUBING	10	15
BRASS PIPE	10	10
CAST-IRON PIPE	5	15
COPPER OR COPPER ALLOY PIPE	12	10
COPPER OR COPPER ALLOY PIPE 11/4"Ø OR SMALLER	6	10
COPPER OR COPPER ALLOY PIPE 11/2"Ø OR LARGER	10	10
PEX	2.67	10
CPVC 1" OR SMALLER	3	10
CPVC 1½" OR LARGER	4	10
STEEL PIPE	12	15
POLYETHYLENE /ALUMINUM/ POLYETHYLENE	2.67	4
PVC PIPE	4	10
STAINLESS STEEL DRAINAGE	10	10

PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	3/8" DIA.	4" THRU 5"	5/8" DIA.
2 1/2" THRU 3"	1/2" DIA		







TILE/FINISHED

FLOOR ---

THINSET MORTAR —

MORTAR -

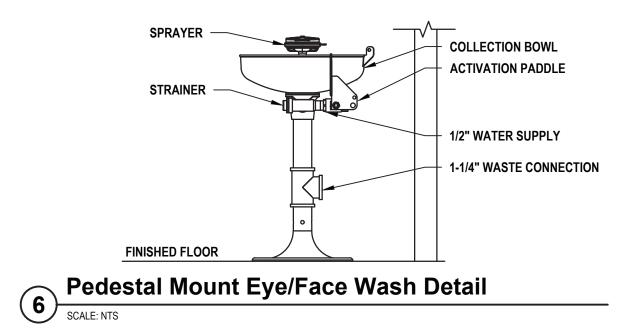
WATERPROOF

SEE 'A' DRAWINGS

MEMBRANE.

Water Heater Schematic

SCALE: NTS



- 2% FINISHED FLOOR SLOPE

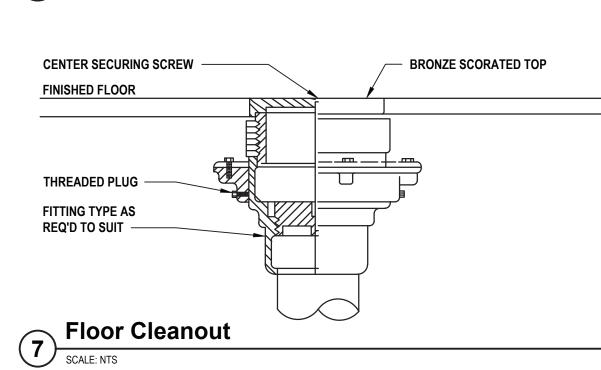
- FINISHED TOP

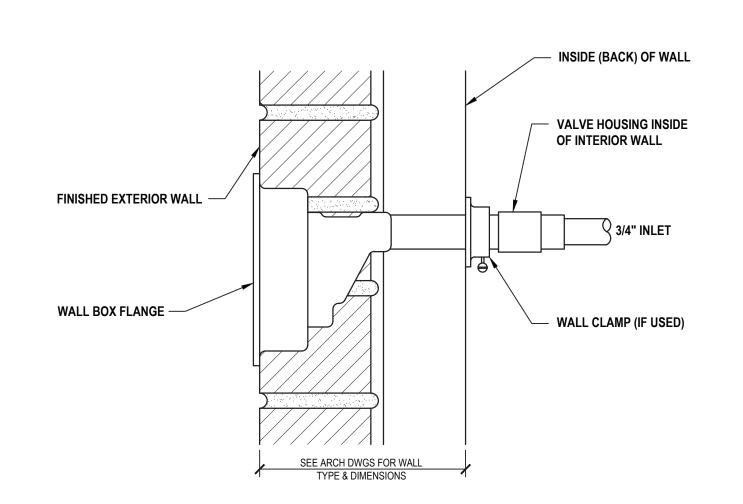
- RUBBER SLEEVE

- MEMBRANE CLIP

- DRAIN FLANGE BASE

— ADJUSTABLE STRAINER

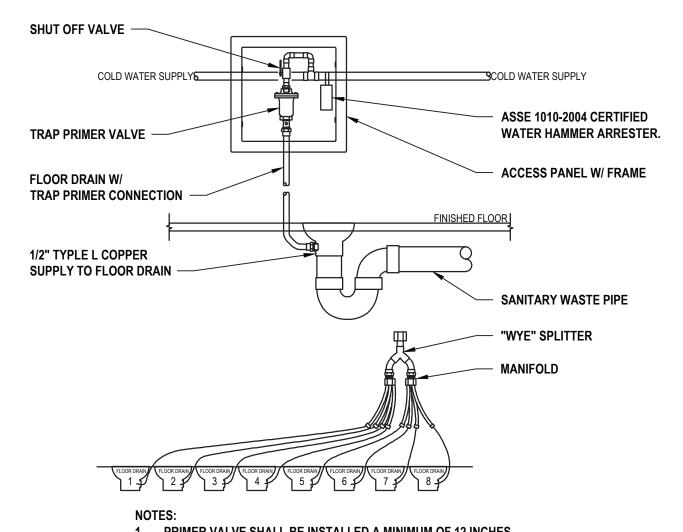




8 Freeze Proof Wall Hydrant Detail
SCALE: NTS

Pipe Hanger Detail

SCALE: NTS

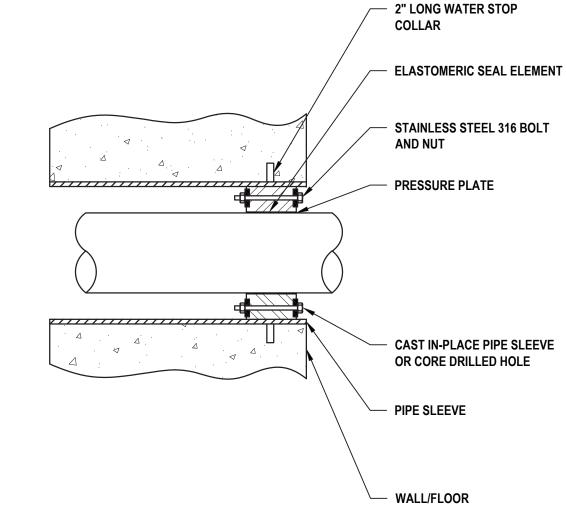


1. PRIMER VALVE SHALL BE INSTALLED A MINIMUM OF 12 INCHES ABOVE THE FINISH FLOOR.

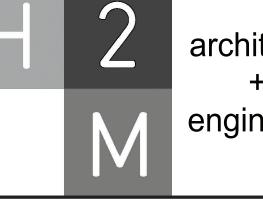
2. SINGLE TRAP PRIMER VALVE CAN SERVE UP TO (8) FLOOR DRAINS WITH THE USE OF "WYE" SPLITTER AND MANIFOLD FITTINGS.

Trap Primer Connection Detail

SCALE: NTS

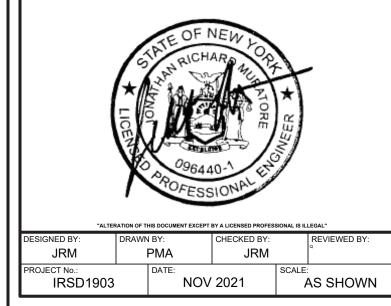


5 Link-Seal Pipe Penetration Detail
SCALE: NTS



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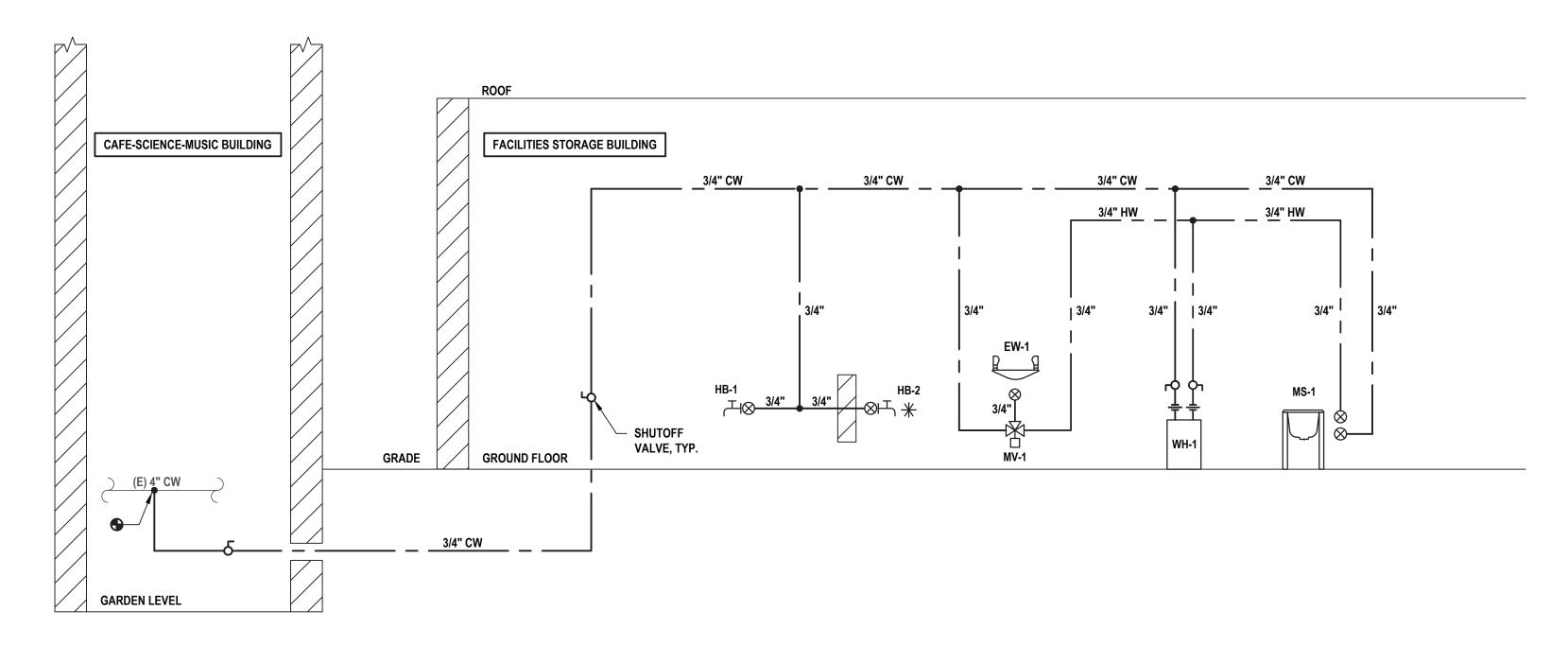
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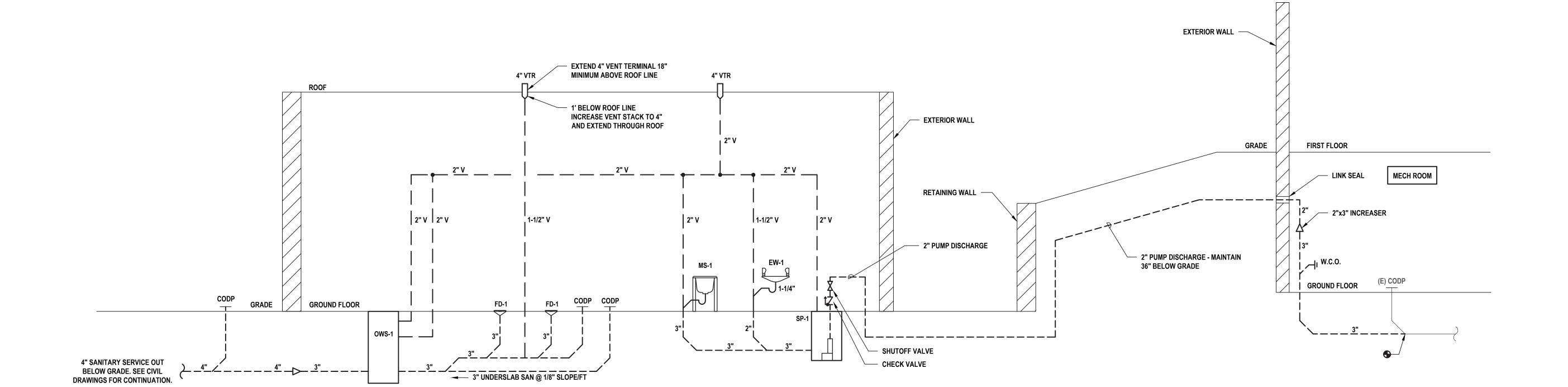
PLUMBING DETAILS

P3.0

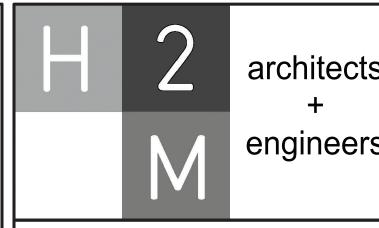


Domestic Water Riser Diagram

SCALE: NTS



2 Sanitary and Vent Riser Diagram
SCALE: NTS



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NSULTANTS:						
• )	NSULTANTS:	NSULTANTS:	NSULTANTS:	NSULTANTS:	NSULTANTS:	NSULTANTS:

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'	11/10/2021	



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ı	CONTRACT
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PLUMBING RISER DIAGRAMS

P4.0