SYMBOL

SYMBOLS	A	ABBREVIATIONS
DESCRIPTION	SYMBOL	DESCRIPTION
NITARY PIPING BELOW GRADE	ARCH	ARCHITECTURAL
NITARY PIPING ABOVE GRADE	BFP	BACKFLOW PREVENTER
NT PIPING	BLDG CLG	BUILDING CEILING
	CO	CLEANOUT
LD WATER PIPING	CODP	CLEANOUT DECK PLATE
T WATER PIPING	COWP	CLEANOUT WALL PLATE
UT-OFF VALVE	CONN	CONNECTION
ECK VALVE	CONT	CONTINUATION  DOMESTIC COLD WATER
ESSURE REDUCING VALVE	DCV	DOUBLE CHECK VALVE
LVE IN VERTICAL	DET	DETAIL
	DFU	DRAINAGE FIXTURE UNIT
PE DROP, RISE OR DOWN	DIA	DIAMETER
PE CONNECTION, TOP	DIM	DIMENSION
PE CONNECTION, BOTTOM	DN DR	DOWN DRAIN
PE UP	DWG	DRAWING
TRAP	EA	EACH
	EL	ELEVATION
EANOUT	EQ	EQUAL
EANOUT DECK PLATE	EWH FAI	ELECTRIC WATER HEATER FRESH AIR INLET
PPED OUTLET	FCO	FLOOR CLEANOUT
ELECTRIC UNION	FD	FLOOR DRAIN
NT THROUGH ROOF	FS	FLOOR SINK
OOR DRAIN, AREA DRAIN	F.F.	FINISH FLOOR
	FL GAL	FLOOR GALLON
SE BIBB	GPM	GALLON PER MINUTE
ALL HYDRANT	HB	HOSE BIBB
CUUM BREAKER ASSEMBLY	HW	DOMESTIC HOT WATER
ERMOMETER	I.E.	INVERT ELEVATION
ESSURE GAUGE W/VALVE	IW	INDIRECT WASTE
	MAX MECH	MAXIMUM MECHANICAL
CKFLOW PREVENTER	MIN	MINIMUM
OOR, AREA DRAIN (RISER)	NC	NORMALLY CLOSED
ESH AIR INLET (FAI)	NO	NORMALLY OPEN
TER	NTS	NOT TO SCALE
RECTION OF FLOW	RPZ S	REDUCED PRESSURE ZONE SANITARY WASTE
PE BREAK	SF	SQUARE FEET
L DIVLAR	ST	STORM DRAINAGE
UIPMENT DESIGNATION	TP	TRAP PRIMER
	TYP	TYPICAL
ESH AIR INLET	V	VENT
DIRECT WASTE PIPING	UON VIF	UNLESS OTHERWISE NOTED VERIFY IN FIELD
GLE VALVE	VLV	VALVE
	VTR	VENT THROUGH ROOF
& Y VALVE	W	WASTE
& Y VALVE IN VERTICAL	W/	WATER CLOSET
USE TRAP	WCO WCO	WATER CLOSET WALL CLEANOUT
NCENTRIC REDUCER	W/O	WITHOUT
	,	

	ITEM BASIS OF DESIGN MODEL TOR COVER GRATE OR STRAINER BUTY													
ITE	EM	DESCRIPTION	TOP COVER	GRATE OR STRAINER	DUTY									
TYPE	NO.	DEGORAL FIGH	MANUFACTURER	NO.	<b>BODY MATERIAL</b>	TOT COVER	MATERIAL	ВОТТ						
FD	1	FLOOR DRAIN	ZURN	Z505	DUCO CAST IRON	12" ROUND	CAST IRON	MEDIUM						

1. PROVIDE W/ TRAP SEAL DEVICE ZURN MODEL # Z1072

## **GENERAL NOTES**

- 1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO 2020 NYS PLUMBING CODE AND APPLICABLE LOCAL CODES AND REGULATIONS.
- 2. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLED. MAINTAIN HEADROOM AND SPACE CONDITIONS AT ALL TIMES.
- COORDINATE PLUMBING SYSTEMS WITH WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
- 4. FOR EXACT LOCATION OF PLUMBING FIXTURES REFER TO ARCHITECTURAL DRAWINGS AND DETAILS.
- 5. PRIOR TO BURYING ANY PIPING, PIPES MUST BE INSPECTED BY THE ENGINEER.
- 6. ANY PIPE THAT PASSES UNDER A FOOTING SHALL BE PROVIDED WITH A RELIEVING ARCH.
- 7. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES. PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
- 8. MAINTENANCE LABEL SHALL BE AFFIXED TO ALL PLUMBING EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED TO OWNER.
- 9. THE CONTRACTOR SHALL VISIT THE JOB SITE TO DETERMINE EXISTING CONDITIONS, BECOME FULLY FAMILIAR WITH PLUMBING INSTALLATION, COMPARE SAME WITH DRAWINGS AND SPECIFICATIONS AND SATISFY HIMSELF OF ALL CONDITIONS PRIOR TO SUBMISSION OF A BID PROPOSAL. SUBMISSION OF A COST PROPOSAL (BID) WILL BE JUDGED AS EVIDENCE THAT SITE EXAMINATION HAS BEEN MADE. CLAIMS FOR EXTRA COSTS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH EXAMINATION BEEN MADE WILL NOT BE RECOGNIZED
- 10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO ENTERING MANHOLES, USE OF WATER FROM LOW PRESSURE HYDRANTS, DEMOLITION AND NEW WORK, ETC. PRIOR TO COMMENCE OF WORK.

## PLUMBING CODE NEW YORK STATE NOTES

- 1. ALL PLUMBING SYSTEMS (SANITARY, WASTE, VENT AND WATER DISTRIBUTION SYSTEMS) AND ASSOCIATED EQUIPMENT SHALL BE INSTALLED, OPERATED AND MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2020 NEW YORK STATE PLUMBING CODE. POTABLE AND BACKFLOW PREVENTION TESTING SHALL BE IN ACCORDANCE WITH 2020 PCNYS SECTION 608
- 2. INSPECTION AND TESTING OF PLUMBING PIPING SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION PC107 AND
- 3. MATERIALS USED IN PLUMBING SYSTEMS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION PC303.
- 4. RODENT PROOFING AS PER PC304.
- 5. PROTECTION OF PLUMBING PIPING SYSTEM COMPONENTS AS PER PC 305; PIPE SLEEVES AS PER PC305.4.
- 6. INSTALLATION OF UNDERGROUND PIPING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION PC305 AND PC306.
- 7. TRENCHING, EXCAVATING AND BACKFILL AS PER PC306.
- 8. VERTICAL AND HORIZONTAL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION PC308.
- 9. FLOOD HAZARD RESISTANCE AS PER SECTION PC309.
- 10. FIXTURES, FAUCETS AND FIXTURE FITTINGS AS PER PC CHAPTER 4.
- 11. WATER SUPPLY SYSTEMS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF PC CHAPTER 6.
- 12. EQUIPMENT CONNECTIONS AND JOINING OF PIPING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION PC605.
- 13. DISINFECTION OF POTABLE WATER SYSTEM AS PER SECTION PC810.
- 14. INDIRECT WASTE PIPING AS PER SECTION PC802.

	PLUMBING FIXTURE SCHEDULE													
ITEM			CW		TEMPERED									
TYPE	NO.	DESCRIPTION		TEMPERED WATER	WATER TEMPERATU RE	FLOW RATE (GPM)	MANUFACTURER	MODEL	NOTES					
ES	1	EMERGENCY SHOWER AND EYE/FACE WASH UNIT	-	1 1/4"	80°F	27	BRADLEY CORPORATION	S19314BB2CFEB	24" DRAIN HEIGHT, 120 VOLT, TOP SUPPLY, 304SS PIPE, 316SS BALL VALVE, ABS PLASTIC SHOWER HEAD WITH SS SHROUD, 304 SS EYE/FACE WASH W/ DUST COVER, 304 SS YOKE, 304SS BOWL AND COVER, 316SS HANDLE AND PULL ROD, GENERAL AREA LIGHT, PROVIDE WITH S19-324DG EMERGENCY SIGNALING SYSTEM					
YH	1	NON-FREEZE YARD HYDRANT	1"	-			ZURN	Z1397XL						

- 1. COMBINATION EMERGENCY SHOWER AND EYE/FACE WASH UNIT SHALL BE PROVIDED WITH INTEGRAL POWER AND ALARMS.
- 2. CONTRACTOR SHALL PROCURE COMBINATION EMERGENCY SHOWER AND EYE/FACE WASH UNIT AS A PACKAGED SYSTEM WITH ELECTRIC WATER HEATER, COMPLETE WITH INSULATION ON ALL EXPOSED PIPING.

	WATER METER SCHEDULE														
	TYPE NO.		DESCRIPTION		MANUFACTURER	MODEL NO.	NOTES								
T			DESCRIPTION	SIZE	MANOI ACTORER	WODEL NO.	NOTES								
	M	1	DOMESTIC WATER METER	2"	HONEYWELL	EVOQ4-LF	LOW FLOW ELECTROMAGNETIC METER, STAINLESS STEEL BODY, LCD DISPLAY								

	BACKFLOW PREVENTION SCHEDULE												
TYPE NO. DESCRIPTION SERVICE LOCATION SIZE [IN] MANUFACTURER MODEL NO. APPROVALS NOTES													
									THREADED CONNECTIONS, QUARTER-TURN BALL VALVES, AIRGAP ASSEMBLY REQUIRED				
	PRESSURE REDUCING VALVE SCHEDULE												

	PRESSURE REDUCING VALVE SCHEDULE														
ITEM       TYPE     NO.   DESCRIPTION SERVICE LOCATION SIZE [IN] MANUFACTURER MODEL								APPROVALS	NOTES						
PRV	1	WATER PRESSURE REDUCING VALVE	DOMESTIC COLD WATER	OUTDOOR HEATED ENCLOSURE	2	ZURN	ZURN 600XL-C-H LR		TAPPED WITH GAUGE, COPPER SWEAT CONNECTION, 10 PSI TO 125 PSI SPRING RANGE, OUTLET PRESSURE SET TO 80 PSI						

	PLUMBING - EQUIPMENT SCHEDULE												
	TEM		DIMENSIONS				ELECTRICAL						
TYPE	NUMBER	DESCRIPTION	MANUFACTURER	MODEL NO.	LENGTH	WIDTH	HEIGHT	SYSTEM SERVED	Watts	V	LOCATION	NOTES	
HBE	1	HEATED BACKFLOW PREVENTER ENCLOSURE	HUBELL	DURAFOLD CUSTOM	1'-9"	7'-4"	3'-4 1/2"	DOMESTIC WATER	1500.0	120	BUILDING EXTERIOR	DURAFOLD ALUMINUM HINGED ENCLOSURE, WITH DRAIN PORT, HEAT PROVIDED BY 1500 WATT, 120V SINGLE PHASE HEATER	

	WATER HEATER SCHEDULE													
П	ЕМ				I	ELECTRICAL								
			TEMP. IN	1	POWER	VOLTAGE	PHASE							
TYPE	NO.	EQUIPMENT DESCRIPTION	[°F]	OUT [°F]	[kW]	[V]	[PH]	MANUFACTURER	MODEL NO.	NOTES				
EWH	1 1	ELECTRIC TANKLESS WATER	40	80	126	480	3	BRADLEY	SNA-126 3/480	PROVIDE WITH DIGITAL CONTROL, STACK LIGHT WITH DISTRIBUTED				
		HEATER						CORPORATION	D-N4X-D-AL3-SL-FDS-GF-	CONSTROL SYSTEM LINK, INTERNAL FUSED DISCONNECT, GROUND				
									PRS-YSS	FAULT PACAKGE, ASME PRESSURE RELIEF VALVE, STAINLESS STEEL				
										Y-STRAINER				

1. CONTRACTOR SHALL PROCURE COMBINATION EMERGENCY SHOWER AND EYE/FACE WASH UNIT AS A PACKAGED SYSTEM WITH ELECTRIC WATER HEATER, COMPLETE WITH INSULATION ON ALL EXPOSED PIPING

AUREN D'ATTILE, PE

MICHAEL LOEHR, PE

DEPUTY DIRECTOR, IN HOUSE DESIGN

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# **JOB DESCRIPTION** CAPITAL PROJECT DESCRIPTION NAME LOCATION, SITE NAME

Environmental Protection BEDC/IHD

**BID SET** 

DATE ISSUED: 04/2023

ELECTRICAL ELECTRICAL BUILDING SYMBOL LIST, NOTES, LEGENDS & SCHEDULES

SCALE: AS NOTED SHEET NO: Page 449 of 536 DRAWING NO. KSEB-P-001.00

DATE: APRIL 2023

**GRAPHIC SCALES** 

CHECK BEFORE USE

IF SHEET IS LESS THAN 22" X 34"

IT IS A REDUCED PRINT.

SCALE ACCORDINGLY

**VERTICAL DATUM** 

CONVERSION (ft)

0 LNAVD88

+1.28 ┌BWS

DESIGN LEAD: **Environmental** DEEPAK KANDRA, PE SECTION MANAGER: REVISIONS/DESCRIPTION

DESIGNED BY:

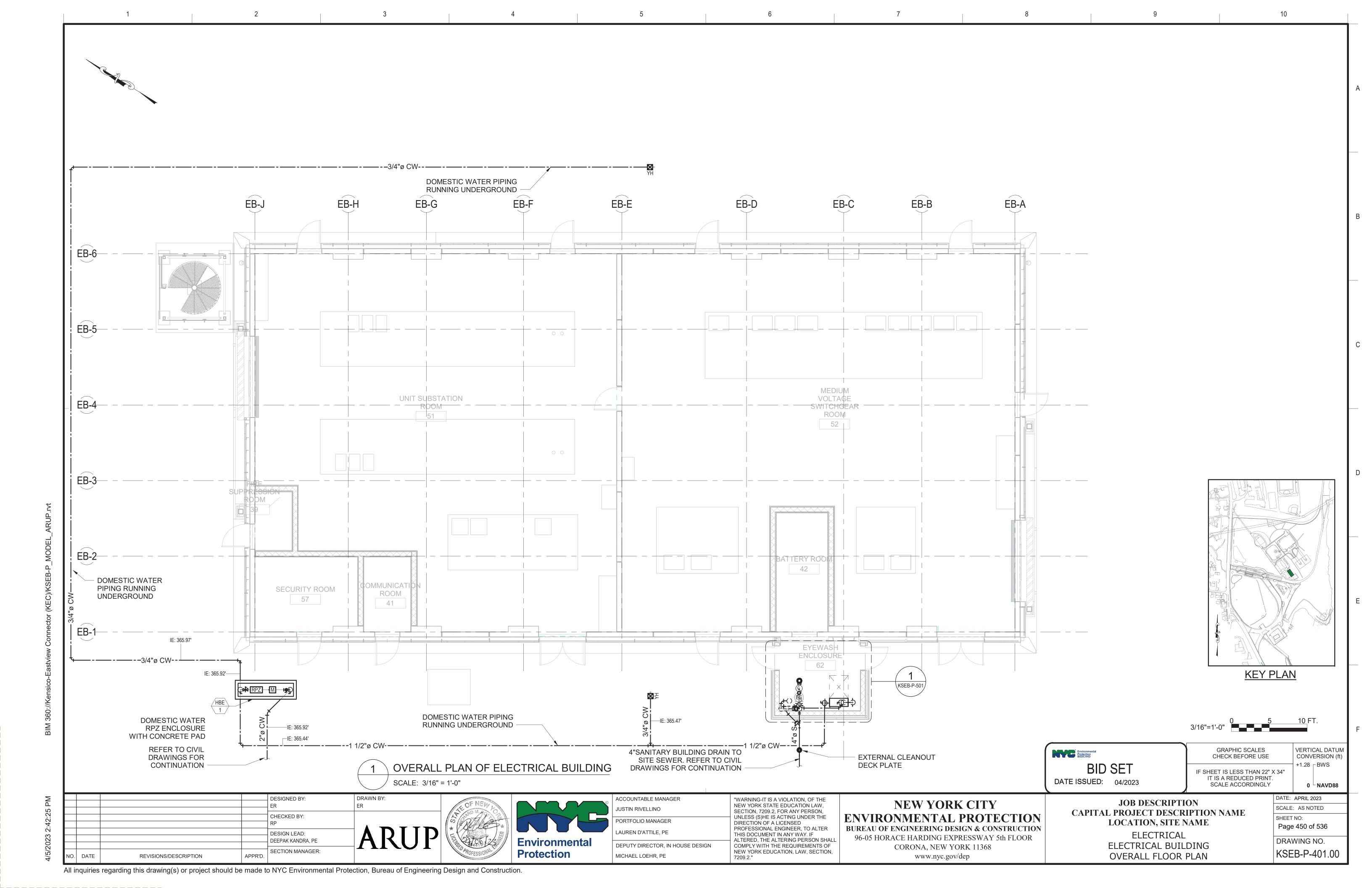
CHECKED BY:

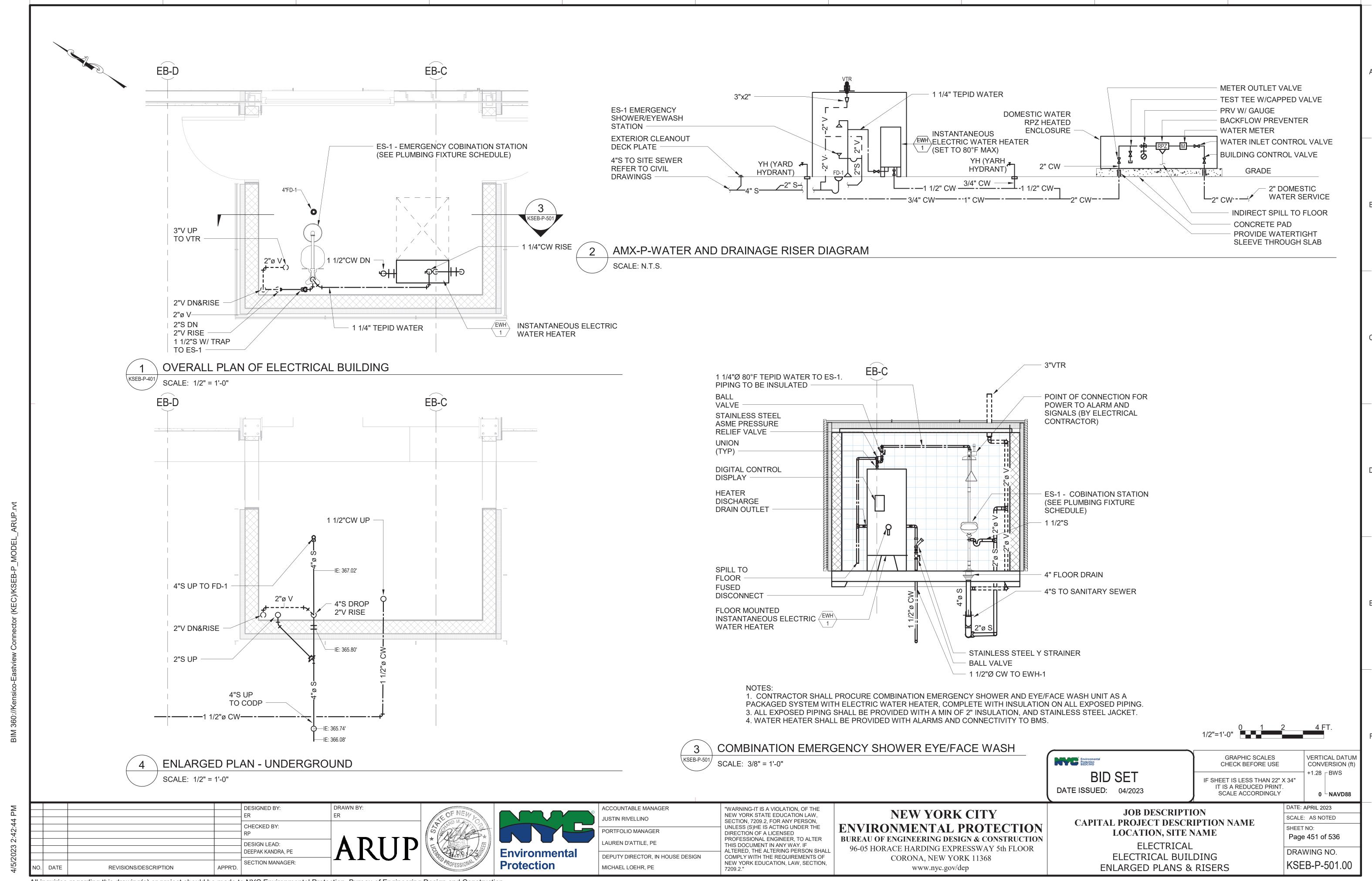
**WALL HYDRANT** 

WATER HAMMER ARRESTOR

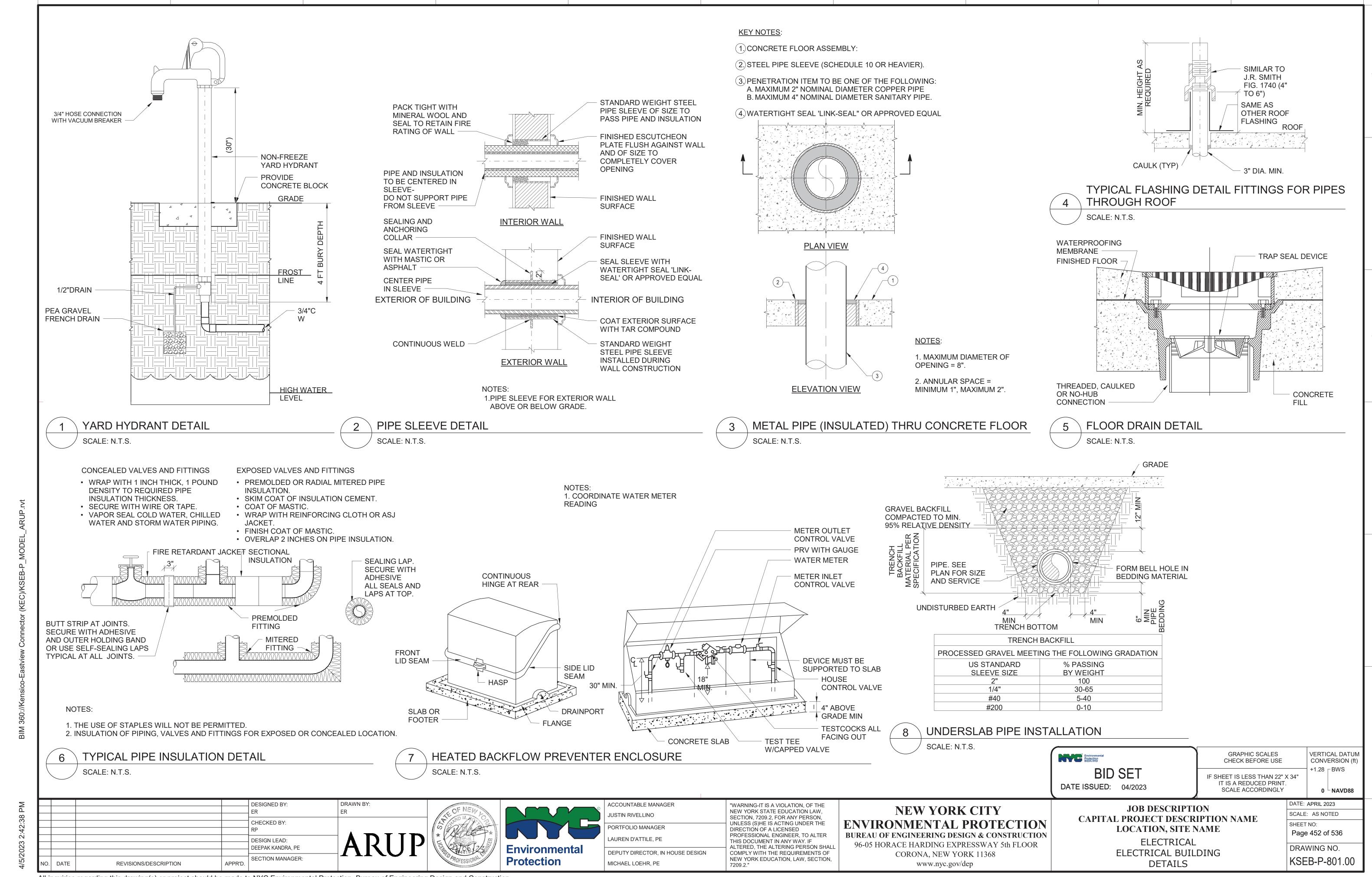
**Protection** 

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