

SYMBOLS table with columns SYMBOL and DESCRIPTION. Includes symbols for sanitary piping, vent piping, cold/hot water piping, valves, traps, and equipment designations.

ABBREVIATIONS table with columns SYMBOL and DESCRIPTION. Lists abbreviations for architectural, plumbing, and electrical components like ARCH, BFP, BLDG, CLG, CO, etc.

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.
3. 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 PC312.
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 table with columns ITEM, TYPE, NO., DESCRIPTION, CW INTLET SIZE, TEMPERED WATER, TEMPERED WATER TEMPERATURE, FLOW RATE (GPM), MANUFACTURER, MODEL, NOTES. Includes entries for ES (EMERGENCY SHOWER AND EYE/FACE WASH UNIT) and YH (NON-FREEZE YARD HYDRANT).

NOTES:

- 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 table with columns ITEM, TYPE, NO., DESCRIPTION, SIZE, MANUFACTURER, MODEL NO., NOTES. Includes entry for M (DOMESTIC WATER METER).

BACKFLOW PREVENTION SCHEDULE table with columns ITEM, TYPE, NO., DESCRIPTION, SERVICE, LOCATION, SIZE [IN], MANUFACTURER, MODEL NO., APPROVALS, NOTES. Includes entry for RPZ (REDUCED PRESSURE ZONE).

PRESSURE REDUCING VALVE SCHEDULE table with columns ITEM, TYPE, NO., DESCRIPTION, SERVICE, LOCATION, SIZE [IN], MANUFACTURER, MODEL NO., APPROVALS, NOTES. Includes entry for PRV (WATER PRESSURE REDUCING VALVE).

PLUMBING - EQUIPMENT SCHEDULE table with columns ITEM, TYPE, NUMBER, DESCRIPTION, MANUFACTURER, MODEL NO., DIMENSIONS (LENGTH, WIDTH, HEIGHT), SYSTEM SERVED, ELECTRICAL (Watts, V), LOCATION, NOTES. Includes entry for HBE (HEATED BACKFLOW PREVENTER ENCLOSURE).

WATER HEATER SCHEDULE table with columns ITEM, TYPE, NO., EQUIPMENT DESCRIPTION, TEMP. IN [°F], TEMP. OUT [°F], ELECTRICAL (POWER [kW], VOLTAGE [V], PHASE [PH]), MANUFACTURER, MODEL NO., NOTES. Includes entry for EWH (ELECTRIC TANKLESS WATER HEATER).

DRAIN SCHEDULE table with columns ITEM, TYPE, NO., DESCRIPTION, BASIS OF DESIGN MANUFACTURER, MODEL NO., BODY MATERIAL, TOP COVER, GRATE OR STRAINER MATERIAL, DUTY. Includes entry for FD (FLOOR DRAIN).

NOTES:

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

NOTES:

- 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.

ADDENDUM NO. 2
DATE ISSUED: 07/2023

GRAPHIC SCALES CHECK BEFORE USE
VERTICAL DATUM CONVERSION (ft) +1.28 BWS
IF SHEET IS LESS THAN 22" X 34" IT IS A REDUCED PRINT. SCALE ACCORDINGLY
0 NAVD88

DESIGNED BY: ER
CHECKED BY: RP
DESIGN LEAD: RICHARD POTTER, PE
SECTION MANAGER:
ARUP logo

NYC Environmental Protection logo

ACCOUNTABLE MANAGER: JUSTIN RIVELLINO
PORTFOLIO MANAGER: LAUREN D'ATILE, PE
DEPUTY DIRECTOR, IN HOUSE DESIGN: MICHAEL LOEHR, PE
"WARNING-IT IS A VIOLATION, OF THE NEW YORK STATE EDUCATION LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS (S)HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATION, LAW, SECTION, 7209.2."

NEW YORK CITY ENVIRONMENTAL PROTECTION BUREAU OF ENGINEERING DESIGN & CONSTRUCTION
96-05 HORACE HARDING EXPRESSWAY 5th FLOOR
CORONA, NEW YORK 11368
www.nyc.gov/dep

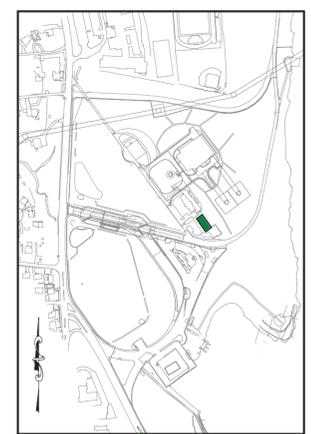
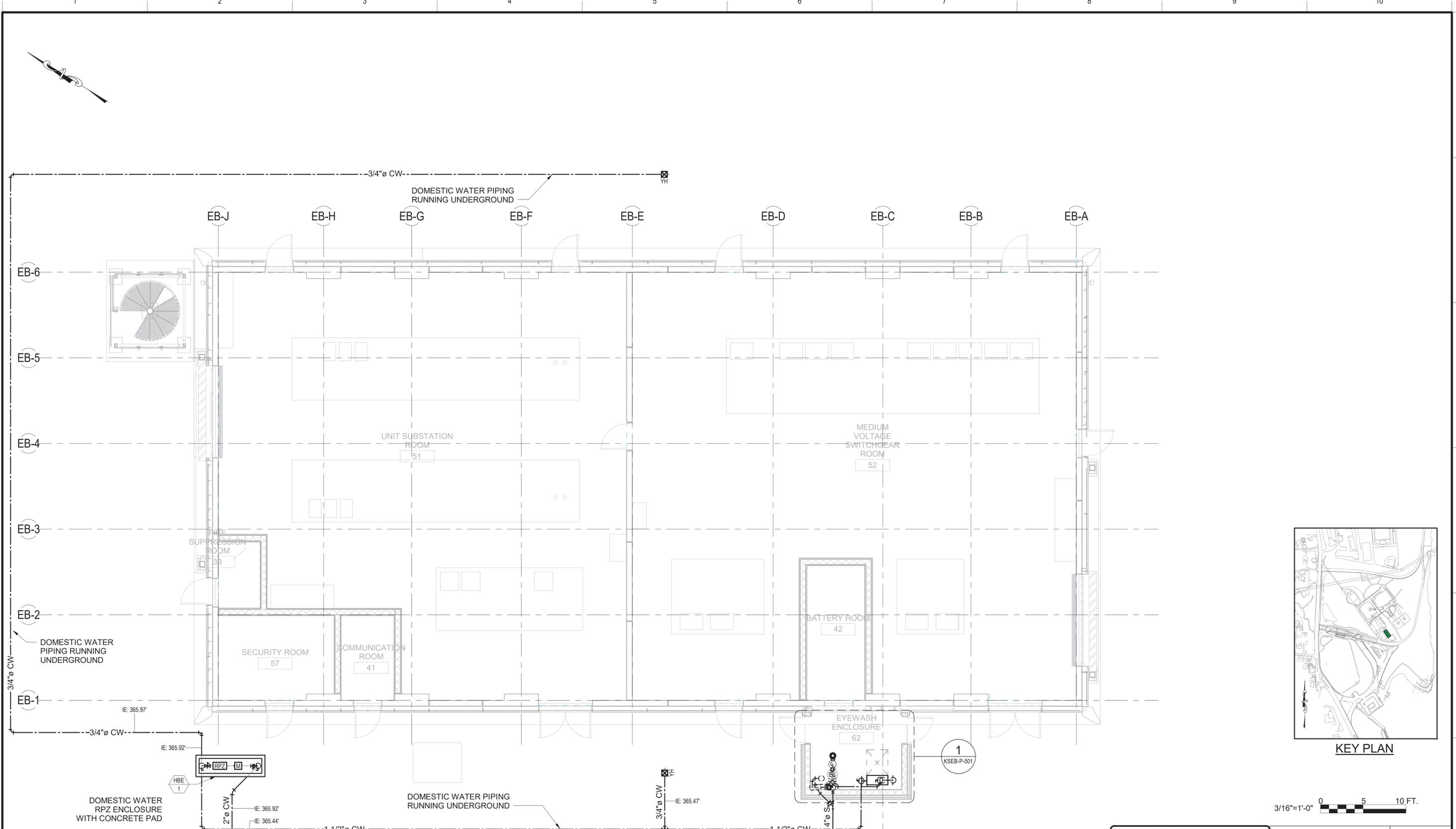
CONTRACT KENS EAST-2 KENSICO SITE PREPARATION
PLUMBING ELECTRICAL BUILDING SYMBOL LIST, NOTES, LEGENDS & SCHEDULES
DATE: JULY 2023
SCALE: AS NOTED
SHEET NO.:
DRAWING NO.: KSEB-P-001.01

BIM 360//Kensico-Eastview Connector (KEC)KSEB-P\_MODEL\_ARUP.rvt

7/28/2023 5:17:52 PM

BIM 360://Kensico-Eastview Connector (KEC)/KSEB-P\_MODEL\_ARUP.rvt

7/28/2023 5:17:52 PM



KEY PLAN



**1** OVERALL PLAN OF ELECTRICAL BUILDING  
SCALE: 3/16" = 1'-0"

**NYC** Environmental Protection  
**ADDENDUM NO. 2**  
DATE ISSUED: 07/2023

GRAPHIC SCALES CHECK BEFORE USE  
IF SHEET IS LESS THAN 22" X 34" IT IS A REDUCED PRINT. SCALE ACCORDINGLY  
VERTICAL DATUM CONVERSION (ft)  
+1.28 BWS  
0 NAVD88

NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.
1	07/23	ADDENDUM #2	RP

DESIGNED BY: ER  
CHECKED BY: RP  
DESIGN LEAD: RICHARD POTTER, PE  
SECTION MANAGER:

DRAWN BY: ER  
**ARUP**



ACCOUNTABLE MANAGER  
JUSTIN RIVELLINO  
PORTFOLIO MANAGER  
LAUREN D'ATTILE, PE  
DEPUTY DIRECTOR, IN HOUSE DESIGN  
MICHAEL LOEHR, PE

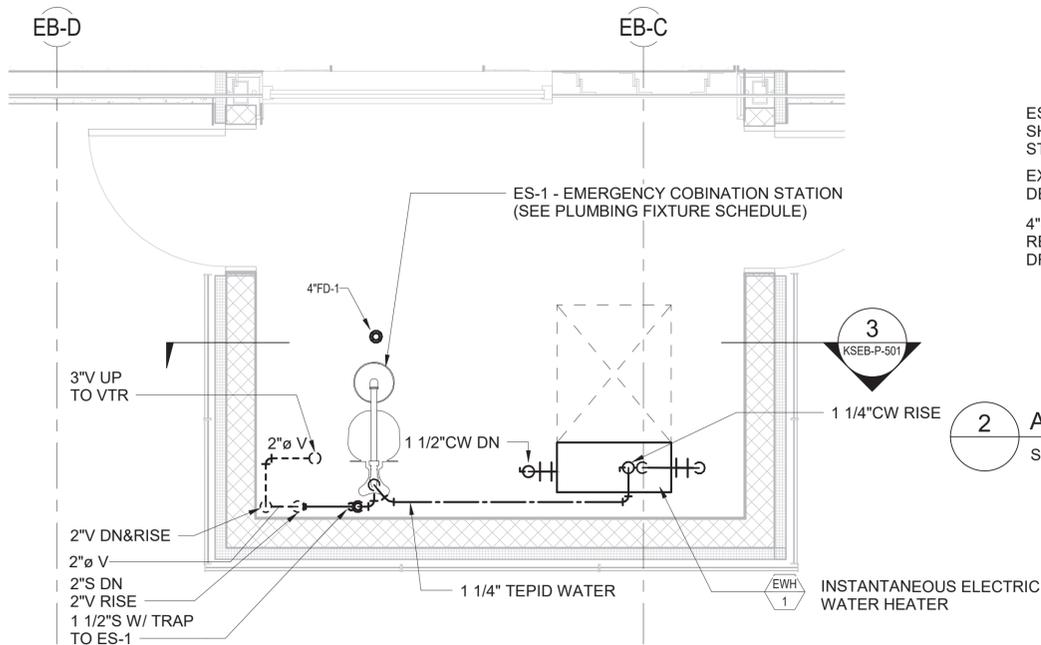
"WARNING-IT IS A VIOLATION, OF THE NEW YORK STATE EDUCATION LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS (S)HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATION, LAW, SECTION, 7209.2."

**NEW YORK CITY**  
**ENVIRONMENTAL PROTECTION**  
BUREAU OF ENGINEERING DESIGN & CONSTRUCTION  
96-05 HORACE HARDING EXPRESSWAY 5th FLOOR  
CORONA, NEW YORK 11368  
www.nyc.gov/dep

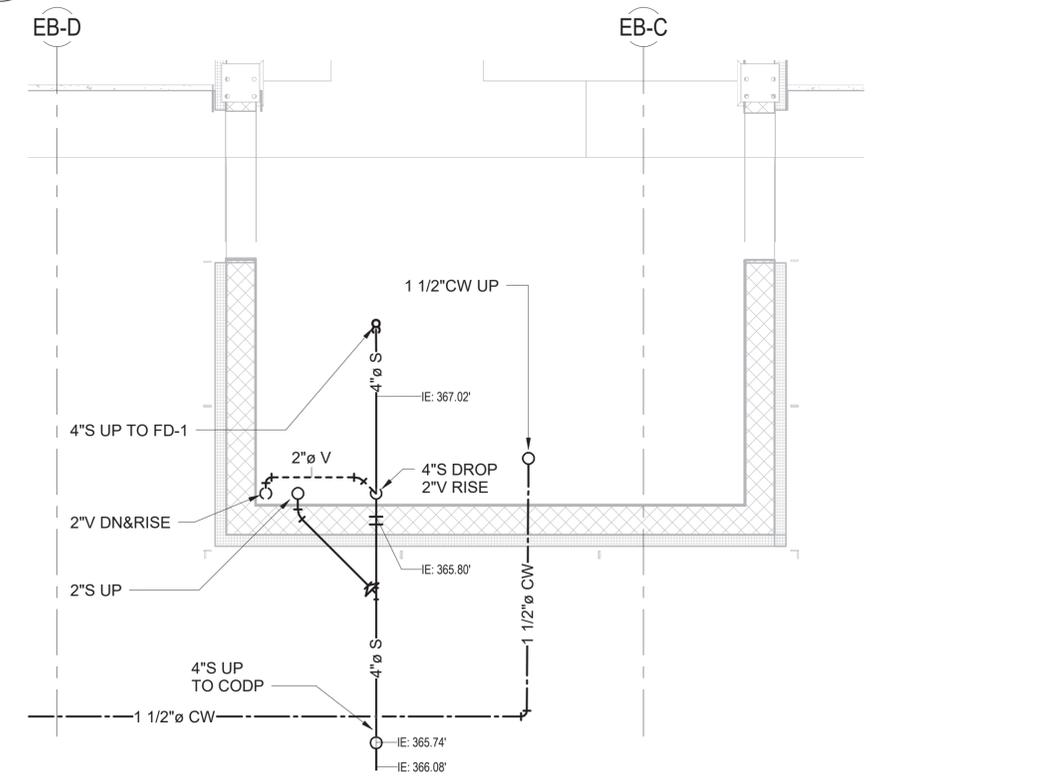
**CONTRACT KENS EAST-2**  
**KENSICO SITE PREPARATION**  
**PLUMBING**  
ELECTRICAL BUILDING  
OVERALL FLOOR PLAN

DATE: JULY 2023  
SCALE: AS NOTED  
SHEET NO.:  
DRAWING NO.:  
KSEB-P-401.01

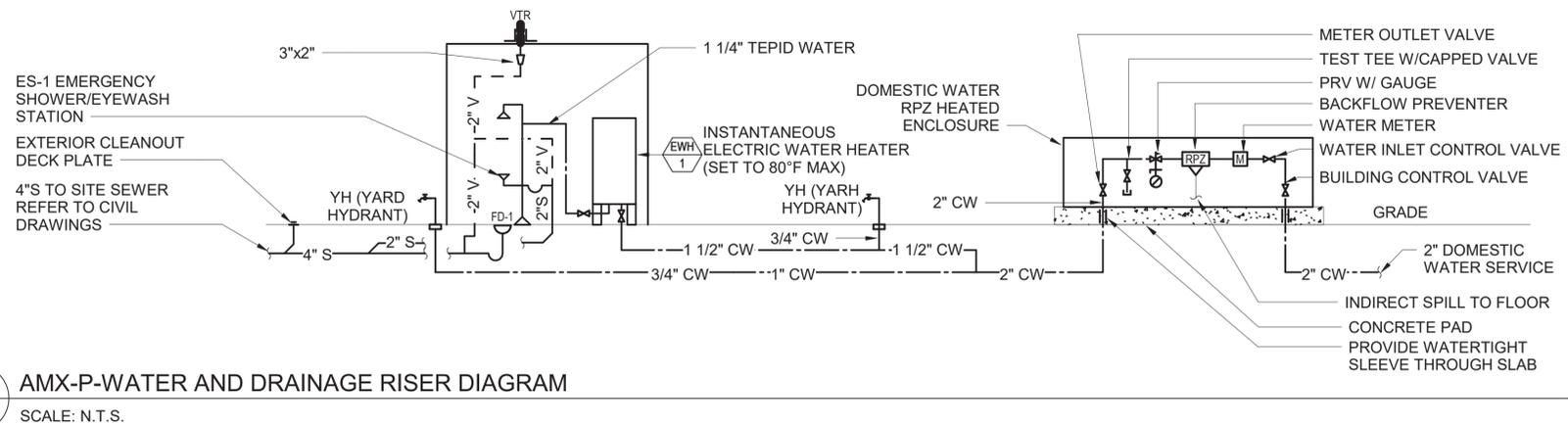
All inquiries regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureau of Engineering Design and Construction.



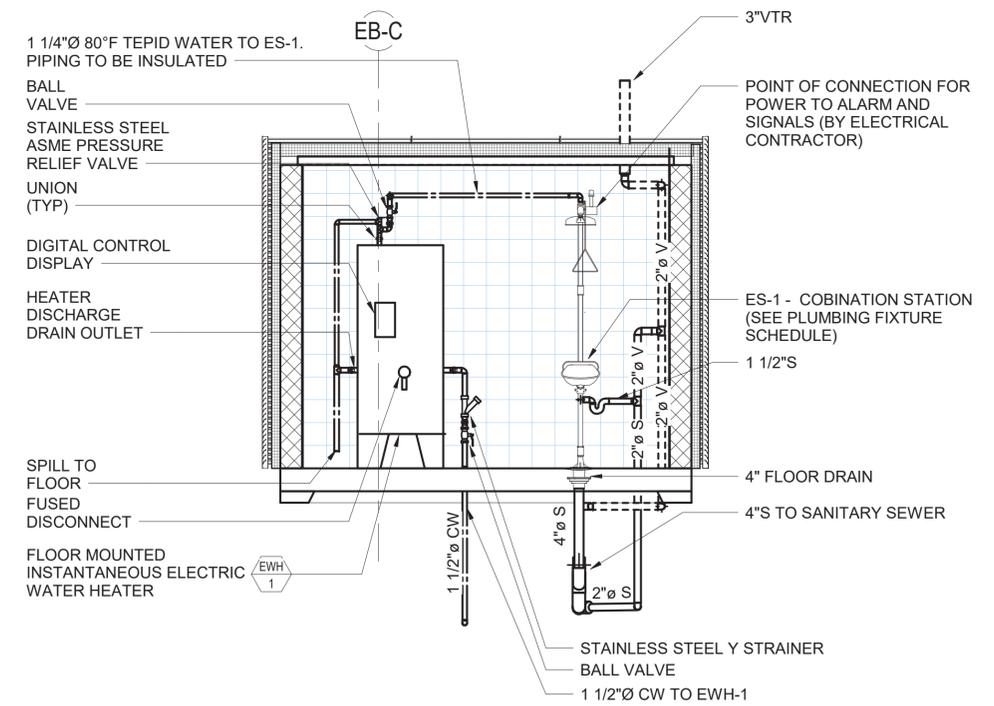
**1 OVERALL PLAN OF ELECTRICAL BUILDING**  
 KSEB-P-401 SCALE: 1/2" = 1'-0"



**4 ENLARGED PLAN - UNDERGROUND**  
 SCALE: 1/2" = 1'-0"



**2 AMX-P-WATER AND DRAINAGE RISER DIAGRAM**  
 SCALE: N.T.S.



NOTES:  
 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.  
 2. ALL EXPOSED PIPING SHALL BE PROVIDED WITH A MIN OF 2" INSULATION, AND STAINLESS STEEL JACKET.  
 3. WATER HEATER SHALL BE PROVIDED WITH ALARMS AND CONNECTIVITY TO BMS.

**3 COMBINATION EMERGENCY SHOWER EYE/FACE WASH**  
 KSEB-P-501 SCALE: 3/8" = 1'-0"



**ADDENDUM NO. 2**  
 DATE ISSUED: 07/2023

GRAPHIC SCALES CHECK BEFORE USE  
 VERTICAL DATUM CONVERSION (ft)  
 IF SHEET IS LESS THAN 22" X 34" IT IS A REDUCED PRINT. SCALE ACCORDINGLY  
 0 NAVD88

BIM 360://kensico-Eastview Connector (KEC)/KSEB-P\_MODEL\_ARUP.rvt

7/28/2023 5:17:54 PM

NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.
1	07/23	ADDENDUM #2	RP

DESIGNED BY: ER  
 CHECKED BY: RP  
 DESIGN LEAD: RICHARD POTTER, PE  
 SECTION MANAGER:

DRAWN BY: ER  
**ARUP**



ACCOUNTABLE MANAGER  
 JUSTIN RIVELLINO  
 PORTFOLIO MANAGER  
 LAUREN D'ATILE, PE  
 DEPUTY DIRECTOR, IN HOUSE DESIGN  
 MICHAEL LOEHR, PE

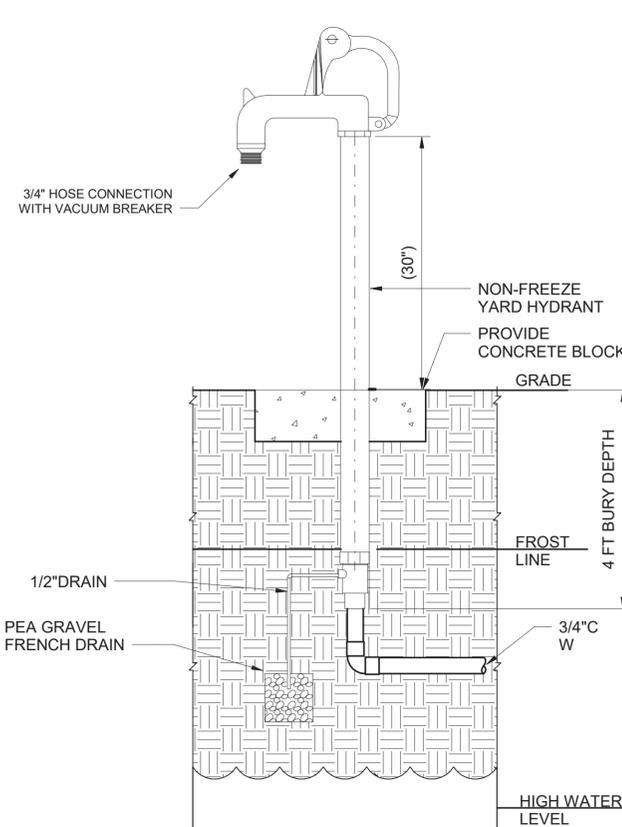
"WARNING-IT IS A VIOLATION, OF THE NEW YORK STATE EDUCATION LAW, SECTION, 7209.2, FOR ANY PERSON, UNLESS (S)HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATION, LAW, SECTION, 7209.2."

**NEW YORK CITY ENVIRONMENTAL PROTECTION**  
 BUREAU OF ENGINEERING DESIGN & CONSTRUCTION  
 96-05 HORACE HARDING EXPRESSWAY 5th FLOOR  
 CORONA, NEW YORK 11368  
 www.nyc.gov/dcp

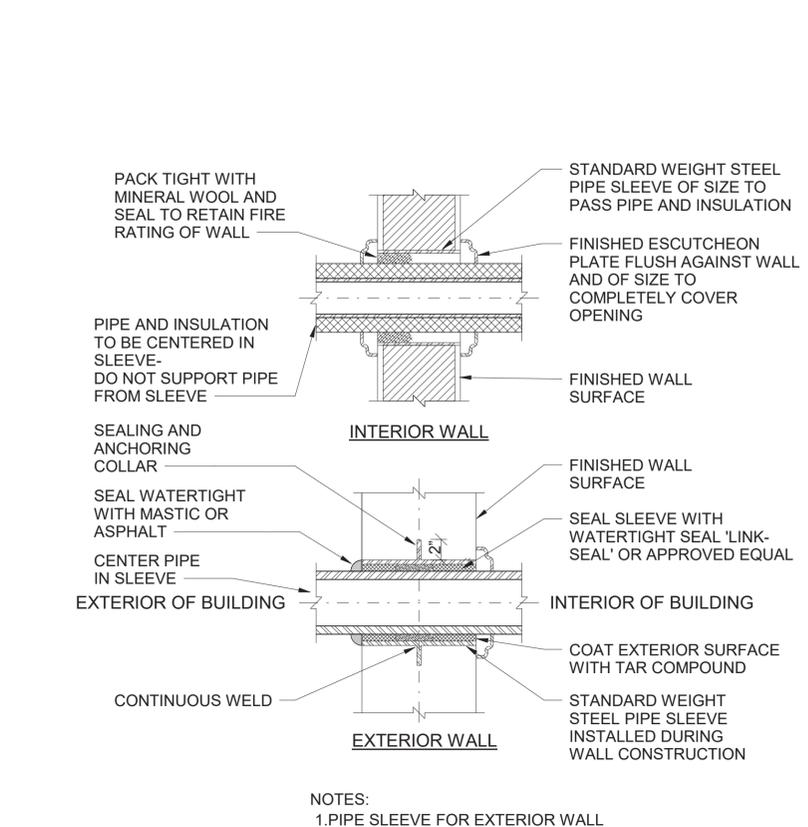
**CONTRACT KENS EAST-2 KENSICO SITE PREPARATION**  
**PLUMBING**  
 ELECTRICAL BUILDING ENLARGED PLANS & RISERS

DATE: JULY 2023  
 SCALE: AS NOTED  
 SHEET NO.:  
 DRAWING NO. KSEB-P-501.01

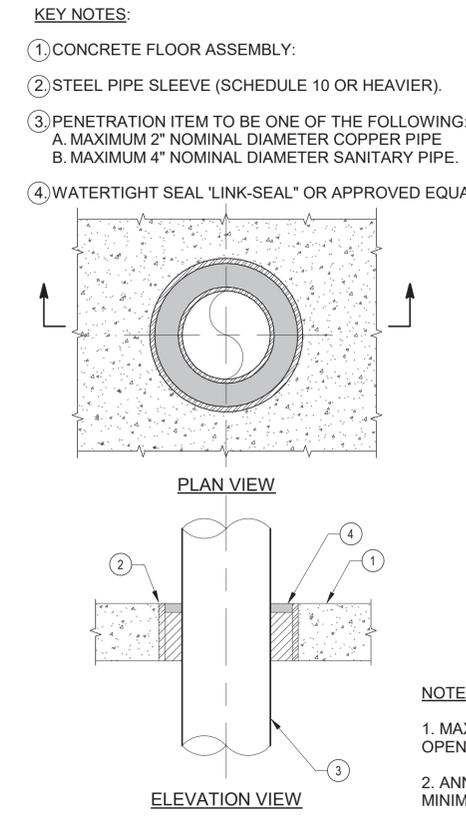
All inquiries regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureau of Engineering Design and Construction.



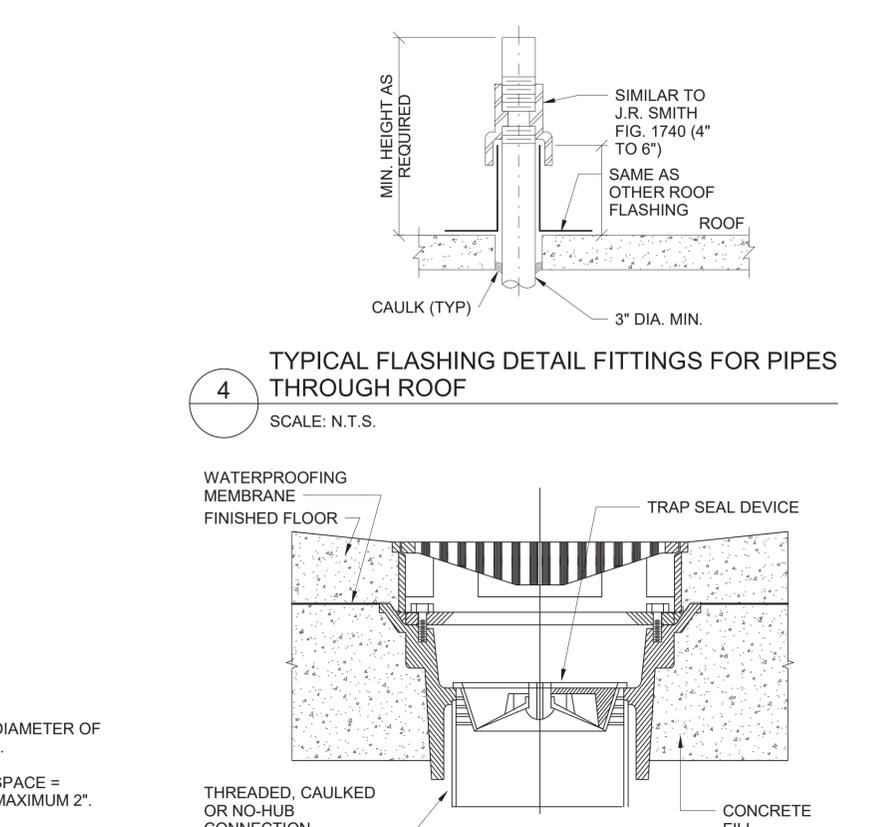
**1 YARD HYDRANT DETAIL**  
SCALE: N.T.S.



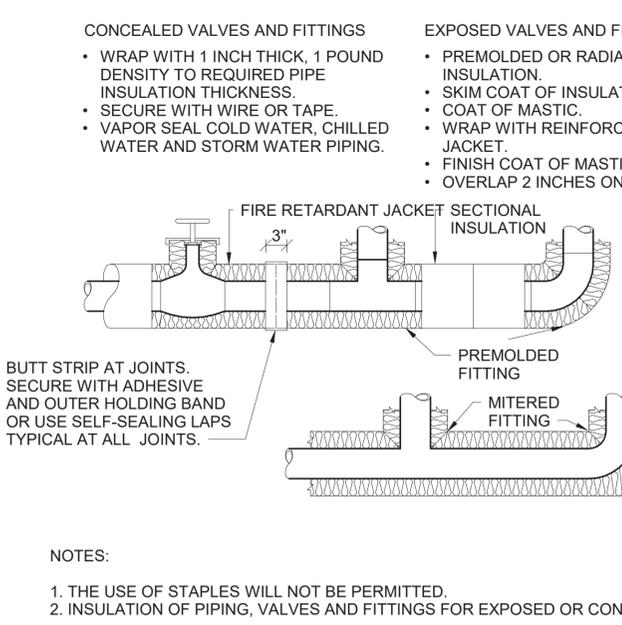
**2 PIPE SLEEVE DETAIL**  
SCALE: N.T.S.



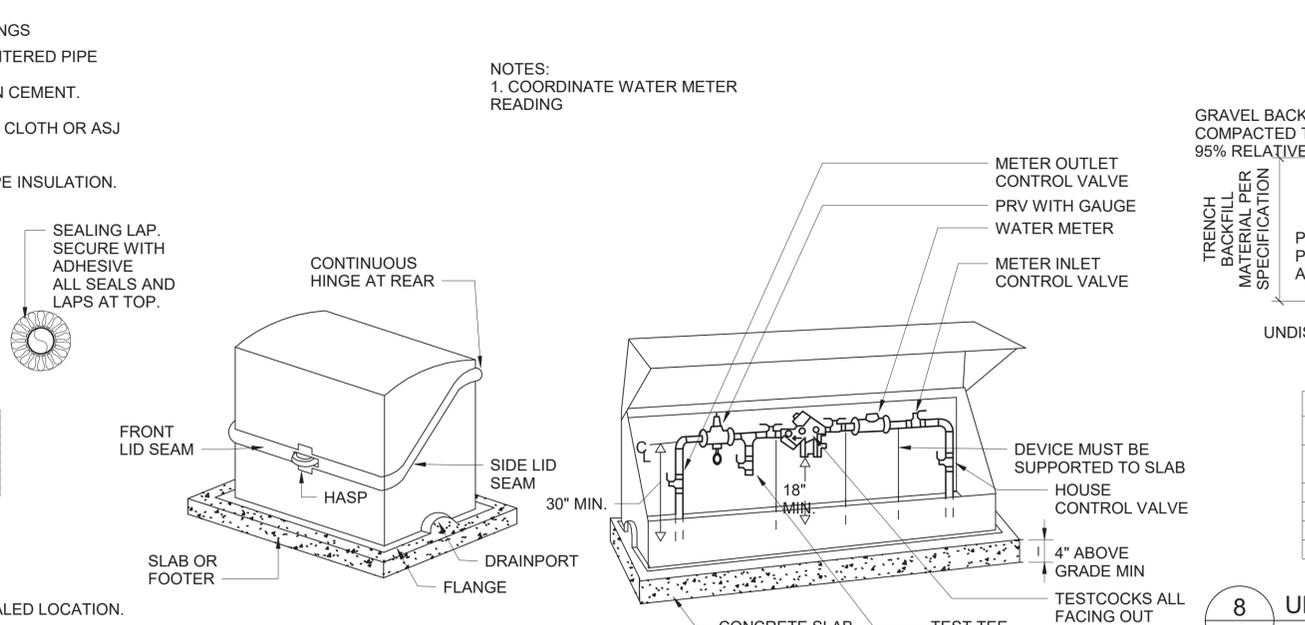
**3 METAL PIPE (INSULATED) THRU CONCRETE FLOOR**  
SCALE: N.T.S.



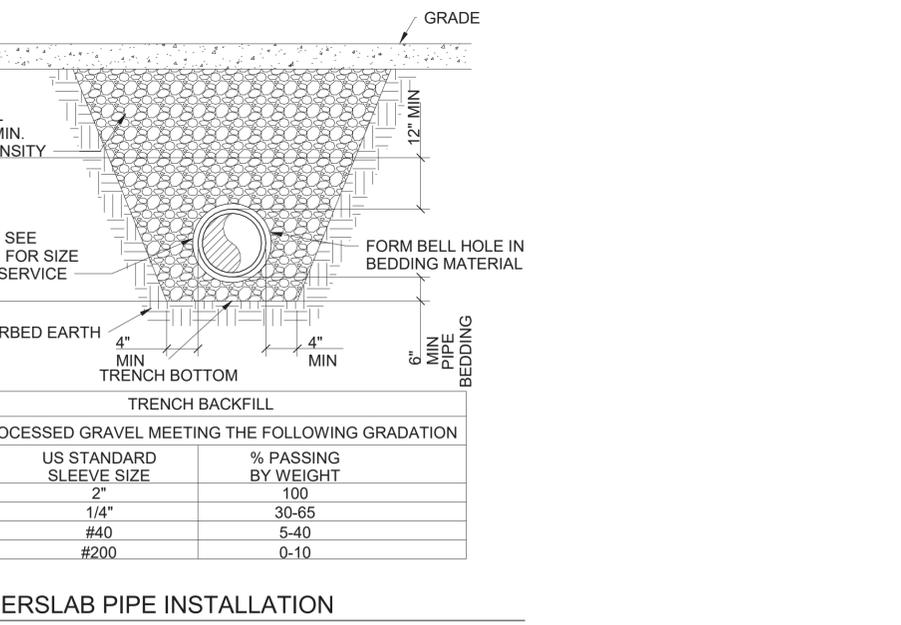
**4 TYPICAL FLASHING DETAIL FITTINGS FOR PIPES THROUGH ROOF**  
SCALE: N.T.S.



**6 TYPICAL PIPE INSULATION DETAIL**  
SCALE: N.T.S.



**7 HEATED BACKFLOW PREVENTER ENCLOSURE**  
SCALE: N.T.S.



**8 UNDERSLAB PIPE INSTALLATION**  
SCALE: N.T.S.

BIM 360://kensico-Eastview Connector (KEC)/KSEB-P\_MODEL\_ARUP.rvt

7/28/2023 5:17:53 PM

DESIGNED BY:	ER
CHECKED BY:	RP
DESIGN LEAD:	RICHARD POTTER, PE
SECTION MANAGER:	RP



ACCOUNTABLE MANAGER	JUSTIN RIVELLINO
PORTFOLIO MANAGER	LAUREN D'ATILE, PE
DEPUTY DIRECTOR, IN HOUSE DESIGN	MICHAEL LOEHR, PE

"WARNING-IT IS A VIOLATION, OF THE NEW YORK STATE EDUCATION LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS (S)HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATION, LAW, SECTION, 7209.2."

**NEW YORK CITY ENVIRONMENTAL PROTECTION**  
BUREAU OF ENGINEERING DESIGN & CONSTRUCTION  
96-05 HORACE HARDING EXPRESSWAY 5th FLOOR  
CORONA, NEW YORK 11368  
www.nyc.gov/dep

**ADDENDUM NO. 2**  
DATE ISSUED: 08/2023

GRAPHIC SCALES CHECK BEFORE USE  
IF SHEET IS LESS THAN 22" X 34" IT IS A REDUCED PRINT. SCALE ACCORDINGLY  
VERTICAL DATUM CONVERSION (ft)  
+1.28 BWS  
0 NAVD88

DATE: JULY 2023  
SCALE: AS NOTED  
SHEET NO.:  
DRAWING NO.: KSEB-P-801.01

All inquiries regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureau of Engineering Design and Construction.