

SYMBOLS	
SYMBOL	DESCRIPTION
	SANITARY PIPING BELOW GRADE
	SANITARY PIPING ABOVE GRADE
	VENT PIPING
	COLD WATER PIPING
	HOT WATER PIPING
	SHUT-OFF VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE
	VALVE IN VERTICAL
	PIPE DROP, RISE OR DOWN
	PIPE CONNECTION, TOP
	PIPE CONNECTION, BOTTOM
	PIPE UP
	"P" TRAP
	CLEANOUT
	CLEANOUT DECK PLATE
	CAPPED OUTLET
	DIELECTRIC UNION
	VENT THROUGH ROOF
	FLOOR DRAIN, AREA DRAIN
	HOSE BIBB
	WALL HYDRANT
	VACUUM BREAKER ASSEMBLY
	THERMOMETER
	PRESSURE GAUGE W/VALVE
	BACKFLOW PREVENTER
	FLOOR, AREA DRAIN (RISER)
	FRESH AIR INLET (FAI)
	METER
	DIRECTION OF FLOW
	PIPE BREAK
	EQUIPMENT DESIGNATION
	FRESH AIR INLET
	INDIRECT WASTE PIPING
	ANGLE VALVE
	OS & Y VALVE
	OS & Y VALVE IN VERTICAL
	HOUSE TRAP
	CONCENTRIC REDUCER
	STRAINER Y-TYPE
	WATERTIGHT PIPE SLEEVE, BEAM PENETRATION

ABBREVIATIONS	
SYMBOL	DESCRIPTION
ARCH	ARCHITECTURAL
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
CLG	CEILING
CO	CLEANOUT
CODP	CLEANOUT DECK PLATE
COWP	CLEANOUT WALL PLATE
CONN	CONNECTION
CONT	CONTINUATION
CW	DOMESTIC COLD WATER
DCV	DOUBLE CHECK VALVE
DET	DETAIL
DFU	DRAINAGE FIXTURE UNIT
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DRAIN
DWG	DRAWING
EA	EACH
EL	ELEVATION
EQ	EQUAL
EPH	ELECTRIC WATER HEATER
FAI	FRESH AIR INLET
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
F.F.	FINISH FLOOR
FL	FLOOR
GAL	GALLON
GPM	GALLON PER MINUTE
HB	HOSE BIBB
HW	DOMESTIC HOT WATER
I.E.	INVERT ELEVATION
IW	INDIRECT WASTE
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
RPZ	REDUCED PRESSURE ZONE
S	SANITARY WASTE
SF	SQUARE FEET
ST	STORM DRAINAGE
TP	TRAP PRIMER
TYP	TYPICAL
V	VENT
UON	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
VLV	VALVE
VTR	VENT THROUGH ROOF
W	WASTE
W/	WITH
WC	WATER CLOSET
WCO	WALL CLEANOUT
W/O	WITHOUT
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR

GENERAL NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO 2020 NYS PLUMBING CODE AND APPLICABLE LOCAL CODES AND REGULATIONS.
- 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.
- FOR EXACT LOCATION OF PLUMBING FIXTURES REFER TO ARCHITECTURAL DRAWINGS AND DETAILS.
- PRIOR TO BURYING ANY PIPING, PIPES MUST BE INSPECTED BY THE ENGINEER.
- ANY PIPE THAT PASSES UNDER A FOOTING SHALL BE PROVIDED WITH A RELIEVING ARCH.
- 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.
- MAINTENANCE LABEL SHALL BE AFFIXED TO ALL PLUMBING EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED TO OWNER.
- 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.
- 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

- 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.
- INSPECTION AND TESTING OF PLUMBING PIPING SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION PC107 AND PC312.
- MATERIALS USED IN PLUMBING SYSTEMS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION PC303.
- RODENT PROOFING AS PER PC304.
- PROTECTION OF PLUMBING PIPING SYSTEM COMPONENTS AS PER PC 305; PIPE SLEEVES AS PER PC305.4.
- INSTALLATION OF UNDERGROUND PIPING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION PC305 AND PC306.
- TRENCHING, EXCAVATING AND BACKFILL AS PER PC306.
- VERTICAL AND HORIZONTAL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION PC308.
- FLOOD HAZARD RESISTANCE AS PER SECTION PC309.
- FIXTURES, FAUCETS AND FIXTURE FITTINGS AS PER PC CHAPTER 4.
- WATER SUPPLY SYSTEMS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF PC CHAPTER 6.
- EQUIPMENT CONNECTIONS AND JOINING OF PIPING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION PC605.
- DISINFECTION OF POTABLE WATER SYSTEM AS PER SECTION PC810.
- INDIRECT WASTE PIPING AS PER SECTION PC802.

PLUMBING FIXTURE SCHEDULE

ITEM	DESCRIPTION	CW INTLET SIZE	TEMPERED WATER	TEMPERED WATER TEMPERATURE	FLOW RATE (GPM)	MANUFACTURER	MODEL	NOTES
TYPE	NO.							
ES	1	-	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	1"	-			ZURN	Z1397XL	

NOTES:

- COMBINATION EMERGENCY SHOWER AND EYE/FACE WASH UNIT SHALL BE PROVIDED WITH INTEGRAL POWER AND ALARMS.
- 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

ITEM	DESCRIPTION	SIZE	MANUFACTURER	MODEL NO.	NOTES
TYPE	NO.				
M	1	2"	HONEYWELL	EVOQ4-LF	LOW FLOW ELECTROMAGNETIC METER, STAINLESS STEEL BODY, LCD DISPLAY

BACKFLOW PREVENTION SCHEDULE

ITEM	DESCRIPTION	SERVICE	LOCATION	SIZE [IN]	MANUFACTURER	MODEL NO.	APPROVALS	NOTES
TYPE	NO.							
RPZ	1	REDUCED PRESSURE ZONE	DOMESTIC WATER	OUTDOOR HEATED ENCLOSURE	2	ZURN -WILKINS	375XL-AG	ASSE THREADED CONNECTIONS, QUARTER-TURN BALL VALVES, AIRGAP ASSEMBLY REQUIRED

PRESSURE REDUCING VALVE SCHEDULE

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

PLUMBING - EQUIPMENT SCHEDULE

ITEM	DESCRIPTION	MANUFACTURER	MODEL NO.	DIMENSIONS	SYSTEM SERVED	ELECTRICAL	LOCATION	NOTES
TYPE	NUMBER			LENGTH WIDTH HEIGHT		Watts V		
HBE	1	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

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

DRAIN SCHEDULE								
ITEM	DESCRIPTION	BASIS OF DESIGN	MODEL NO.	BODY MATERIAL	TOP COVER	GRATE OR STRAINER MATERIAL	DUTY	
TYPE	NO.	MANUFACTURER						
FD	1	FLOOR DRAIN	ZURN	Z505	DUCO CAST IRON	12" ROUND	CAST IRON	MEDIUM

NOTES:

- PROVIDE W/ TRAP SEAL DEVICE ZURN MODEL # Z1072

NOTES:

- 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

IF SHEET IS LESS THAN 22" X 34" IT IS A REDUCED PRINT. SCALE ACCORDINGLY

VERTICAL DATUM CONVERSION (ft)

+1.28 BWS

0 NAVD88

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

7/28/2023 5:17:52 PM

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

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 PREPERATION**

**PLUMBING**  
 ELECTRICAL BUILDING SYMBOL LIST, NOTES, LEGENDS & SCHEDULES

DATE: JULY 2023  
 SCALE: AS NOTED  
 SHEET NO:  
 DRAWING NO. KSEB-P-001.01