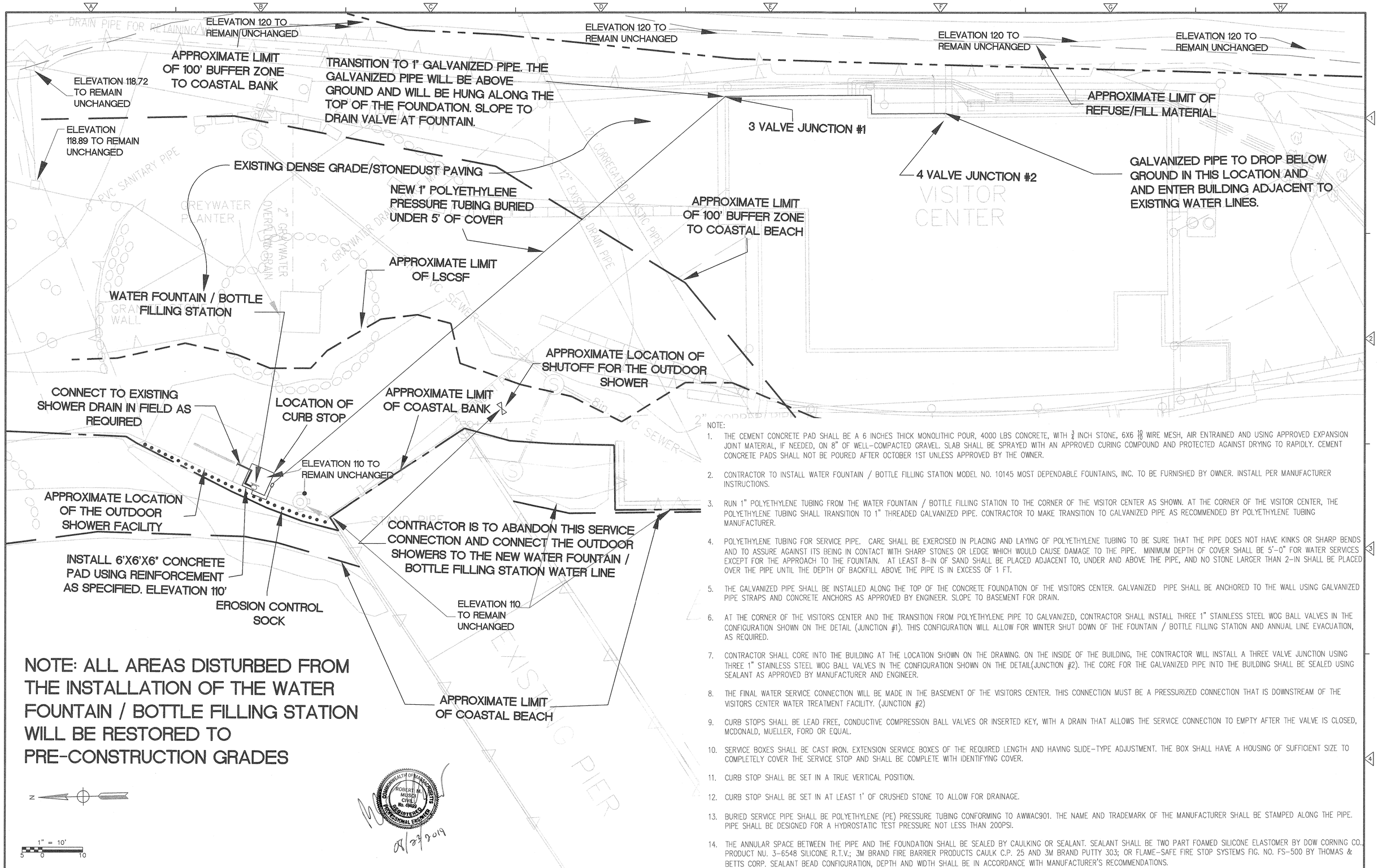

NOTE:

1. THE CEMENT CONCRETE PAD SHALL BE A 6 INCHES THICK MONOLITHIC POUR, 4000 LBS CONCRETE, WITH $\frac{3}{4}$ INCH STONE, 6X6 $\frac{10}{10}$ WIRE MESH, AIR ENTRAINED AND USING APPROVED EXPANSION JOINT MATERIAL, IF NEEDED, ON 8" OF WELL-COMPACTED GRAVEL. SLAB SHALL BE SPRAYED WITH AN APPROVED CURING COMPOUND AND PROTECTED AGAINST DRYING TO RAPIDLY. CEMENT CONCRETE PADS SHALL NOT BE POURED AFTER OCTOBER 1ST UNLESS APPROVED BY THE OWNER.
2. CONTRACTOR TO INSTALL WATER FOUNTAIN / BOTTLE FILLING STATION MODEL NO. 10145 MOST DEPENDABLE FOUNTAINS, INC. TO BE FURNISHED BY OWNER. INSTALL PER MANUFACTURER INSTRUCTIONS.
3. RUN 1" POLYETHYLENE TUBING FROM THE WATER FOUNTAIN / BOTTLE FILLING STATION TO THE CORNER OF THE VISITOR CENTER AS SHOWN. AT THE CORNER OF THE VISITOR CENTER, THE POLYETHYLENE TUBING SHALL TRANSITION TO 1" THREADED GALVANIZED PIPE. CONTRACTOR TO MAKE TRANSITION TO GALVANIZED PIPE AS RECOMMENDED BY POLYETHYLENE TUBING MANUFACTURER.
4. POLYETHYLENE TUBING FOR SERVICE PIPE. CARE SHALL BE EXERCISED IN PLACING AND LAYING OF POLYETHYLENE TUBING TO BE SURE THAT THE PIPE DOES NOT HAVE KINKS OR SHARP BENDS AND TO ASSURE AGAINST ITS BEING IN CONTACT WITH SHARP STONES OR LEDGE WHICH WOULD CAUSE DAMAGE TO THE PIPE. MINIMUM DEPTH OF COVER SHALL BE 5'-0" FOR WATER SERVICES EXCEPT FOR THE APPROACH TO THE FOUNTAIN. AT LEAST 8-IN OF SAND SHALL BE PLACED ADJACENT TO, UNDER AND ABOVE THE PIPE, AND NO STONE LARGER THAN 2-IN SHALL BE PLACED OVER THE PIPE UNTIL THE DEPTH OF BACKFILL ABOVE THE PIPE IS IN EXCESS OF 1 FT.
5. THE GALVANIZED PIPE SHALL BE INSTALLED ALONG THE TOP OF THE CONCRETE FOUNDATION OF THE VISITORS CENTER. GALVANIZED PIPE SHALL BE ANCHORED TO THE WALL USING GALVANIZED PIPE STRAPS AND CONCRETE ANCHORS AS APPROVED BY ENGINEER. SLOPE TO BASEMENT FOR DRAIN.
6. AT THE CORNER OF THE VISITORS CENTER AND THE TRANSITION FROM POLYETHYLENE PIPE TO GALVANIZED, CONTRACTOR SHALL INSTALL THREE 1" STAINLESS STEEL WOG BALL VALVES IN THE CONFIGURATION SHOWN ON THE DETAIL (JUNCTION #1). THIS CONFIGURATION WILL ALLOW FOR WINTER SHUT DOWN OF THE FOUNTAIN / BOTTLE FILLING STATION AND ANNUAL LINE EVACUATION, AS REQUIRED.
7. CONTRACTOR SHALL CORE INTO THE BUILDING AT THE LOCATION SHOWN ON THE DRAWING. ON THE INSIDE OF THE BUILDING, THE CONTRACTOR WILL INSTALL A THREE VALVE JUNCTION USING THREE 1" STAINLESS STEEL WOG BALL VALVES IN THE CONFIGURATION SHOWN ON THE DETAIL(JUNCTION #2). THE CORE FOR THE GALVANIZED PIPE INTO THE BUILDING SHALL BE SEALED USING SEALANT AS APPROVED BY MANUFACTURER AND ENGINEER.
8. THE FINAL WATER SERVICE CONNECTION WILL BE MADE IN THE BASEMENT OF THE VISITORS CENTER. THIS CONNECTION MUST BE A PRESSURIZED CONNECTION THAT IS DOWNSTREAM OF THE VISITORS CENTER WATER TREATMENT FACILITY. (JUNCTION #2)
9. CURB STOPS SHALL BE LEAD FREE, CONDUCTIVE COMPRESSION BALL VALVES OR INSERTED KEY, WITH A DRAIN THAT ALLOWS THE SERVICE CONNECTION TO EMPTY AFTER THE VALVE IS CLOSED, MCDONALD, MUELLER, FORD OR EQUAL.
10. SERVICE BOXES SHALL BE CAST IRON. EXTENSION SERVICE BOXES OF THE REQUIRED LENGTH AND HAVING SLIDE-TYPE ADJUSTMENT. THE BOX SHALL HAVE A HOUSING OF SUFFICIENT SIZE TO COMPLETELY COVER THE SERVICE STOP AND SHALL BE COMPLETE WITH IDENTIFYING COVER.
11. CURB STOP SHALL BE SET IN A TRUE VERTICAL POSITION.
12. CURB STOP SHALL BE SET IN AT LEAST 1' OF CRUSHED STONE TO ALLOW FOR DRAINAGE.
13. BURIED SERVICE PIPE SHALL BE POLYETHYLENE (PE) PRESSURE TUBING CONFORMING TO AWWAC901. THE NAME AND TRADEMARK OF THE MANUFACTURER SHALL BE STAMPED ALONG THE PIPE. PIPE SHALL BE DESIGNED FOR A HYDROSTATIC TEST PRESSURE NOT LESS THAN 200PSI.
14. THE ANNULAR SPACE BETWEEN THE PIPE AND THE FOUNDATION SHALL BE SEALED BY CAULKING OR SEALANT. SEALANT SHALL BE TWO PART FOAMED SILICONE ELASTOMER BY DOW CORNING CO., PRODUCT NU. 3-6548 SILICONE R.T.V.; 3M BRAND FIRE BARRIER PRODUCTS CAULK C.P. 25 AND 3M BRAND PUTTY 303; OR FLAME-SAFE FIRE STOP SYSTEMS FIG. NO. FS-500 BY THOMAS & BETTS CORP. SEALANT BEAD CONFIGURATION, DEPTH AND WIDTH SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

COMMONWEALTH OF MASSACHUSETTS
ROBERT M. MUSCI
CIVIL
No. 49409
REGISTERED PROFESSIONAL ENGINEER

08/22/2019

REV. NO.	DATE	DRWN	CHKD	REMARKS

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CITY OF BOSTON, MASSACHUSETTS

WATER FOUNTAIN / BOTTLE FILLING STATION

FOR PERMITTING ONLY

PROJECT NO.
FILE NAME:
SHEET NO.