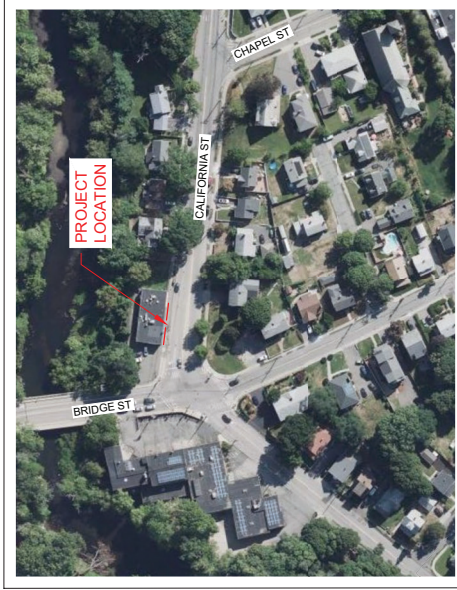


nationalgrid

6" PREFABRICATED REGULATOR STATION INSTALLATION & EXISTING STATION ABANDONMENT STATION #123 - 22 PSIG TO L.P. CALIFORNIA ST @ BRIDGE ST, NEWTON, MA W.O. NO.: 90000228066



LOCATION MAP
LAT/LON: 42°15'55.2"N, 71°12'14.2"W
NEWTON, MA
SCALE: 1:100

SHEET	NAME	TITLE
1	SR-123-90000228066 G-001	COVER - LOCATION MAP
2	SR-123-90000228066 C-002	CONSTRUCTION NOTES
3	SR-123-90000228066 G-003	CONSTRUCTION NOTES
4	SR-123-90000228066 G-004	LEGEND & BILL OF MATERIALS
5	SR-123-90000228066 C-001	EXISTING CONDITIONS
6	SR-123-90000228066 C-002	EXISTING CONDITIONS
7	SR-123-90000228066 C-003	ABANDONMENT
8	SR-123-90000228066 C-004	PROPOSED CONDITIONS
9	SR-123-90000228066 C-101	TIE-IN DETAILS
10	SR-123-90000228066 C-005	RESTORATION PLAN
11	SR-123-90000228066 C-201	STANDARD DETAILS
12	SR-123-90000228066 C-202	STANDARD DETAILS

78-23



THE DDS COMPANIES
45 DENVER ROAD
NEST HAVEN, MA 01866
PHONE: (978) 581-7540
FAX: (978) 581-7541

BOSTON GAS COMPANY
476 S
nationalgrid
WALTON, MA 02451

IPC



NO.	DESCRIPTION	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
0	FIELD FOR CONSTRUCTION								

CALIFORNIA ST @ BRIDGE ST
REGULATOR STATION REPLACEMENT
CALIFORNIA ST & BRIDGE ST
NEWTON, MA

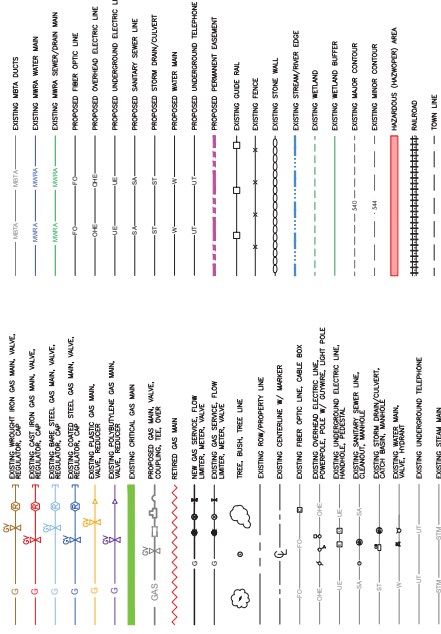
COVER - LOCATION MAP

DESIGNER: J. LAMBERT
DATE: 10/25/2022
PROJECT NO.: 90000228066

SR-123-90000228066 G-001

01

LEGEND



BILL OF MATERIALS

ITEM	QTY	UOM	DESCRIPTION	SIZE (IN.)	THICKNESS (IN.)	MATERIAL SPECIFICATION	GRADE	RATING / CLASS	NATIONAL GRID REFERENCE	MATERIAL PROVIDED BY	POW / STOCK ID	STOCKROOM
1	EA	1/2" PRECASTED REGULATOR STATION VALVE (RS-DTSL-3D)	1/2"	1.14	0.191	API 6L PSL-1	GRADE B	-	-	NATIONAL GRID	NSN STOCK	BAYSTATE
2	20	FT	PIPE, CARBON STEEL, BARE, 3X WALL	12	0.375	API 5L PSL-2	GRADE B	-	120020-MS	NATIONAL GRID	NSN STOCK	WILMINGTON
3	60	FT	PIPE, COATED W/ 1000 PRITEC	8	0.322	API 5L PSL-2	GRADE B	-	120020-MS	NATIONAL GRID	9440771	WILMINGTON
4	EA	ELBOW, 90 DEG, LR, BW, SEGMENTABLE	12	0.375	ASTM A234, ASME B16.9	GRADE WPB	-	-	MATL-3100	NATIONAL GRID	9440255	WILMINGTON
5	1	EA	ELBOW, 90 DEG, LR, BW, SEGMENTABLE	12	0.322	ASTM A234, ASME B16.9	GRADE WPB	-	MATL-3100	NATIONAL GRID	9315521	WILMINGTON
6	1	EA	VALVE BALL, DELTA, FIG 55, FULL PORT, W/ X W/ VALVE BOX	12	0.375	API 6D, ASME B31.8	LF2	-	MATL-3150	NATIONAL GRID	9315387	WILMINGTON
7	1	EA	VALVE BALL, DELTA, FIG 55, FULL PORT, W/ X W/ VALVE BOX	12	0.322	API 6D, ASME B31.8	LF2	-	MATL-3150	NATIONAL GRID	NSN STOCK	IBBY
8	1	EA	REDUCER STEEL, CONCENTRIC	8	0.222	ASTM A234	GRADE WPB	-	MATL-3100	NATIONAL GRID	9315715	WILMINGTON
9	EA	SEWER, STYLE 100, INSULATED, 100RSG	18"	0.191	ASME B16.11, ASTM A105	GRADE B	-	-	FTR5005	NATIONAL GRID	942263	WILMINGTON
10	EA	SEWER, STYLE 100, INSULATED, 100RSG	18"	0.191	ASME B16.11, ASTM A105	GRADE B	-	-	MATL-3100	NATIONAL GRID	NSN STOCK	IBBY
11	EA	ELBOW, 45 DEG, LR, SW	12	0.191	ASME B16.11, ASTM A105	GRADE B	-	-	MATL-3100	NATIONAL GRID	NSN STOCK	IBBY
12	EA	ELBOW, 45 DEG, LR, SW	12	0.191	ASME B16.11, ASTM A105	GRADE B	-	-	MATL-3100	NATIONAL GRID	NSN STOCK	IBBY
13	1	EA	VALVE BALL, KEROTEST, WELDBALL, W/ X W/ VALVE BOX	1-1/2	-	API 6D, ASME B31.8	-	-	-	NATIONAL GRID	9323667	IBBY
14	1	EA	MUELLER, NO BOLD, WELD, X WELD, H-17650	1-1/2	-	ASME B16.11, ASTM A105	GRADE B	-	MATL-3100	NATIONAL GRID	9385335	WILMINGTON
15	EA	COUPLING, SW	1-1/2	0.191	ASME B16.11, ASTM A105	GRADE B	-	-	MATL-3100	NATIONAL GRID	9385335	WILMINGTON
16	1	EA	FITTING, TRANSITION, WELD END STEEL, MPDE	12	SDR 33.5	-	PE 2406	-	120028-MS	NATIONAL GRID	9385997	WILMINGTON
17	1	EA	TEE, 3-WAY, FLANGED, FLAT BOTTOM	8	0.322	-	-	-	FTR5005	NATIONAL GRID	9308511	WILMINGTON
18	2	EA	SADDLE, SERVICE, INSULATED	180"	-	-	-	-	FTR5005	NATIONAL GRID	NSN STOCK	IBBY
19	2	EA	PLUG, SQUARE HEAD, THREADED	1	-	-	-	-	REG-0690	NATIONAL GRID	9312287	WILMINGTON
20	EA	PLUG, SQUARE HEAD, THREADED	1	-	-	-	-	-	NATIONAL GRID	CONTRACTOR	-	BAYSTATE
21	EA	WENT DOST, EXTENDED, LEFT ABOVE GRADE	5	-	-	-	-	-	NATIONAL GRID	CONTRACTOR	-	-
22	EA	DRYWELL CONCRETE, PRECAST, MODEL DB-5, ROTUNDO & SONS	1-1/2	-	-	-	-	-	-	CONTRACTOR	-	-
23	EA	PVC DRAIN PIPE, SCHEDULE 40	1-1/2	-	-	-	-	-	-	CONTRACTOR	-	-
24	EA	PVC 90 DEG ELBOW, SCHEDULE 40 FOR DRYWELL DRAIN	1-1/2	-	-	-	-	-	-	CONTRACTOR	-	-
25	EA	WIRE, TRACER, DIRECT BURY USE	-	-	-	-	-	-	ONS17061	NATIONAL GRID	9315005	WILMINGTON
26	EA	WIRE, TRACER, DIRECT BURY USE - GAS MAIN - 6" WIDE	-	-	-	-	-	-	ONS17061	NATIONAL GRID	9411904	WILMINGTON
27	EA	COUPLING, ELECTROFUSION	12	-	-	-	-	-	120025-MS	NATIONAL GRID	9314899	WILMINGTON
28	EA	PIPE, PLASTIC, MPDE	12	-	-	-	-	-	120028-MS	NATIONAL GRID	9340683	WILMINGTON
29	EA	PIPE, CONDUIT, W/ 1000 PRITEC	6	0.260	API 5L PSL-2	GRADE B	-	-	120028-MS	NATIONAL GRID	9322694	WILMINGTON
30	EA	PIPE, CONDUIT, W/ 1000 PRITEC	6	0.260	API 5L PSL-2	GRADE B	-	-	120028-MS	NATIONAL GRID	9322694	WILMINGTON
31	EA	FRP SHIELDS, FIBERGLASS, REINFORCED	8	0.322	-	-	-	-	REG-509	NATIONAL GRID	9440227	WILMINGTON
32	EA	FRP SHIELDS, FIBERGLASS, REINFORCED	12	-	-	-	-	-	NATIONAL GRID	CONTRACTOR	-	WILMINGTON
FOR ELECTRICAL AND SCADA												
S1	EA	SCADA BOX, NEMA 3R ENCLOSURE, W/ CONCRETE BASE	36 x 50 x 18	-	-	-	-	-	-	NATIONAL GRID	NSN STOCK	IBBY
S2	EA	CONCRETE PAD	40 x 24 x 18	-	-	-	-	-	-	CONTRACTOR	-	-
S3	EA	CONDUIT, PVC	1-1/2	-	-	-	-	-	-	CONTRACTOR	-	-
S4	EA	CONDUIT, PVC	1-1/2	-	-	-	-	-	-	CONTRACTOR	-	-
S5	EA	ELBOW, 90 DEG, RIGID METAL FOR ELECTRICAL/TELECOM CONDUIT	1-1/2	-	-	-	-	-	-	CONTRACTOR	-	-
S6	EA	ELBOW, 45 DEG, RIGID METAL FOR ELECTRICAL/TELECOM CONDUIT	1-1/2	-	-	-	-	-	-	CONTRACTOR	-	-
S7	EA	ELBOW, 90 DEG, PVC	4	-	-	-	-	-	-	CONTRACTOR	-	-
S8	EA	ELBOW, 90 DEG, PVC	4	-	-	-	-	-	-	CONTRACTOR	-	-
S9	EA	ELBOW, 90 DEG, RIGID METAL FOR ELECTRICAL/TELECOM CONDUIT	1-1/2	-	-	-	-	-	-	CONTRACTOR	-	-
S10	EA	GROUND ROD, 1/2" DIA. X 10'-0" LONG, COPPER CLAD STEEL	1-1/2	-	-	-	-	-	-	CONTRACTOR	-	-
S11	EA	THERMOWELD, CR2 TYPE MOLD, MM5706	1/2" X 10'-0"	-	-	-	-	-	-	CONTRACTOR	-	-
S12	EA	THERMOWELD, CR2 TYPE MOLD, MM5706	1/2" X 10'-0"	-	-	-	-	-	-	CONTRACTOR	-	-
S13	EA	WIRE, TYPE RS, 36/2, 18/10 FOR 60 HOLES	#8 AWG	-	-	-	-	-	-	CONTRACTOR	-	-
S14	EA	WIRE, TYPE RS, 36/2, 18/10 FOR 60 HOLES	#8 AWG	-	-	-	-	-	-	CONTRACTOR	-	-
FOR CATHODIC PROTECTION & COATING INSTALLATION												
C1	EA	CP TEST BOX WITH COVER HEAVY DUTY	-	-	-	-	-	-	FTR5005	NATIONAL GRID	9338662	WILMINGTON
C2	EA	17M MAGNESIUM ANODE	-	-	-	-	-	-	-	NATIONAL GRID	9311180	WILMINGTON
C3	EA	WIRE, TYPE RS, 36/2, 18/10 FOR 60 HOLES	-	-	-	-	-	-	-	NATIONAL GRID	9317930	WILMINGTON
C4	EA	WIRE, TYPE RS, 36/2, 18/10 FOR 60 HOLES	-	-	-	-	-	-	-	NATIONAL GRID	9331477 / 8327228	WILMINGTON
C5	EA	WIRE, TYPE RS, 36/2, 18/10 FOR 60 HOLES	-	-	-	-	-	-	-	NATIONAL GRID	9314898 (4" WIDTH) 984493 (6" WIDTH)	WILMINGTON
C6	EA	WIRE, TYPE RS, 36/2, 18/10 FOR 60 HOLES	-	-	-	-	-	-	-	NATIONAL GRID	NSN STOCK	IBBY
FOR ABANDONMENT												
A1	EA	CAP, STEEL, WELDING	6	0.260	ASTM A234, ASME B16.9	GRADE WPB	-	-	MATL-3100	NATIONAL GRID	9312064	WILMINGTON
A2	EA	TEE, SERVICE, WELD INLET & OUTLET, SELF TAPPING	3/4	-	-	-	-	-	FTR5005	NATIONAL GRID	9383964	WILMINGTON
A3	EA	TEE, VENTED, SELF RESTRAINING, COMPRESSION, CONDUCTIVE	6	-	-	-	-	-	FTR5005	NATIONAL GRID	9314880	WILMINGTON
A4	EA	TEE, VENTED, SELF RESTRAINING, COMPRESSION, CONDUCTIVE	6	-	-	-	-	-	FTR5005	NATIONAL GRID	9383964	WILMINGTON
A5	EA	BAG, GAS CANVAS, 8 INCH TYPE	8	-	-	-	-	-	-	NATIONAL GRID	NA	WILMINGTON
A6	EA	FITTING, SHORTSTOPP, WELD	2	-	-	-	-	-	FTR5005	NATIONAL GRID	9440107	WILMINGTON
A7	EA	TEE, SERVICE, WELD INLET & OUTLET, SELF TAPPING	3/4	-	-	-	-	-	FTR5005	NATIONAL GRID	9383964	WILMINGTON
A8	EA	TEE, SERVICE, WELD INLET & OUTLET, SELF TAPPING	3/4	-	-	-	-	-	FTR5005	NATIONAL GRID	9312170	WILMINGTON
A9	EA	COUPLING, SELF RESTRAINING, COMPRESSION, CONDUCTIVE	12X12	-	-	-	-	-	FTR5005	NATIONAL GRID	9339730	WILMINGTON
A10	EA	TEE, SERVICE, WELD INLET & OUTLET, SELF TAPPING	1	-	-	-	-	-	FTR5005	NATIONAL GRID	9322065	WILMINGTON
FOR PRESSURE TESTING												
P1	EA	CAP, STEEL, WELDING	8	0.322	ASTM A234, ASME B16.9	GRADE WPB	-	-	MATL-3100	NATIONAL GRID	9312069	WILMINGTON
P2	EA	CAP, IMPRE BUTTWELD	12	SDR 13.5	-	PE 2406	-	-	120028-MS	NATIONAL GRID	9385999	WILMINGTON
P3	EA	TEE, SERVICE, WELD INLET & OUTLET, SELF TAPPING	6	-	-	-	-	-	FTR5005	NATIONAL GRID	9383964	WILMINGTON
P4	EA	CAP, STEEL, WELDING	12	0.375	ASTM A234, ASME B16.9	GRADE WPB	-	-	MATL-3100	NATIONAL GRID	9312062	WILMINGTON

BOSTON GAS COMPANY
476 S
nationalgrid
WALTON, MA 02451

45 DENNY ROAD
WEST BOSTON, MA 02126
PHONE 781/552-7500
FAX 781/552-7501

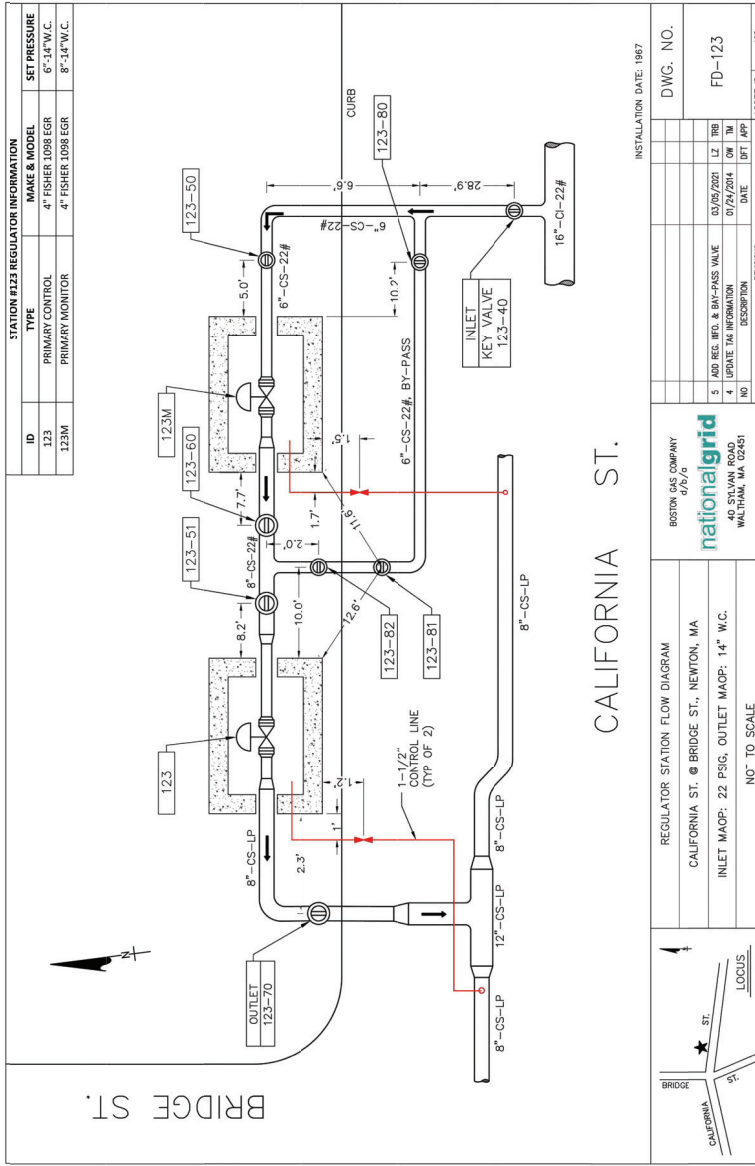


NO.	DESCRIPTION	DATE	BY	CHKD BY	APP'D BY	DATE	DESIGNER	ENGINEER	DATE	W.O. NO.	W.O. NO.
0	ISSUED FOR CONSTRUCTION	10/25/2022	DMU	JDL	JMP	10/25/2022	J.LAMBERT	J.LAMBERT	10/25/2022	9000000006	9000000006

CALIFORNIA ST & BRIDGE ST
REGULATOR STATION REPLACEMENT
CALIFORNIA ST & BRIDGE ST
NEWTON, MA

LEGEND & BILL OF MATERIALS

NOTE:
EXISTING CONDITIONS FLOW DIAGRAM



STATION #123 REGULATOR INFORMATION			
ID	TYPE	MAKE & MODEL	SET PRESSURE
123	PRIMARY CONTROL	4" FISHER I098 EGR	6"-3.4" W.C.
123M	PRIMARY MONITOR	4" FISHER I098 EGR	8"-3.4" W.C.

REGULATOR STATION FLOW DIAGRAM
CALIFORNIA ST. @ BRIDGE ST., NEWTON, MA
INLET MAOP: 22 PSIG, OUTLET MAOP: 14" W.C.
NOT TO SCALE

REGULATOR STATION FLOW DIAGRAM
CALIFORNIA ST. @ BRIDGE ST., NEWTON, MA
INLET MAOP: 22 PSIG, OUTLET MAOP: 14" W.C.
NOT TO SCALE

REGULATOR STATION FLOW DIAGRAM
CALIFORNIA ST. @ BRIDGE ST., NEWTON, MA
INLET MAOP: 22 PSIG, OUTLET MAOP: 14" W.C.
NOT TO SCALE



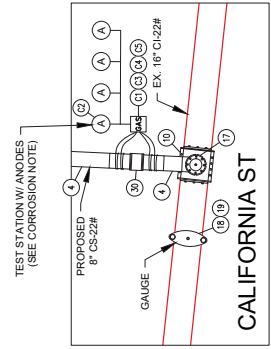
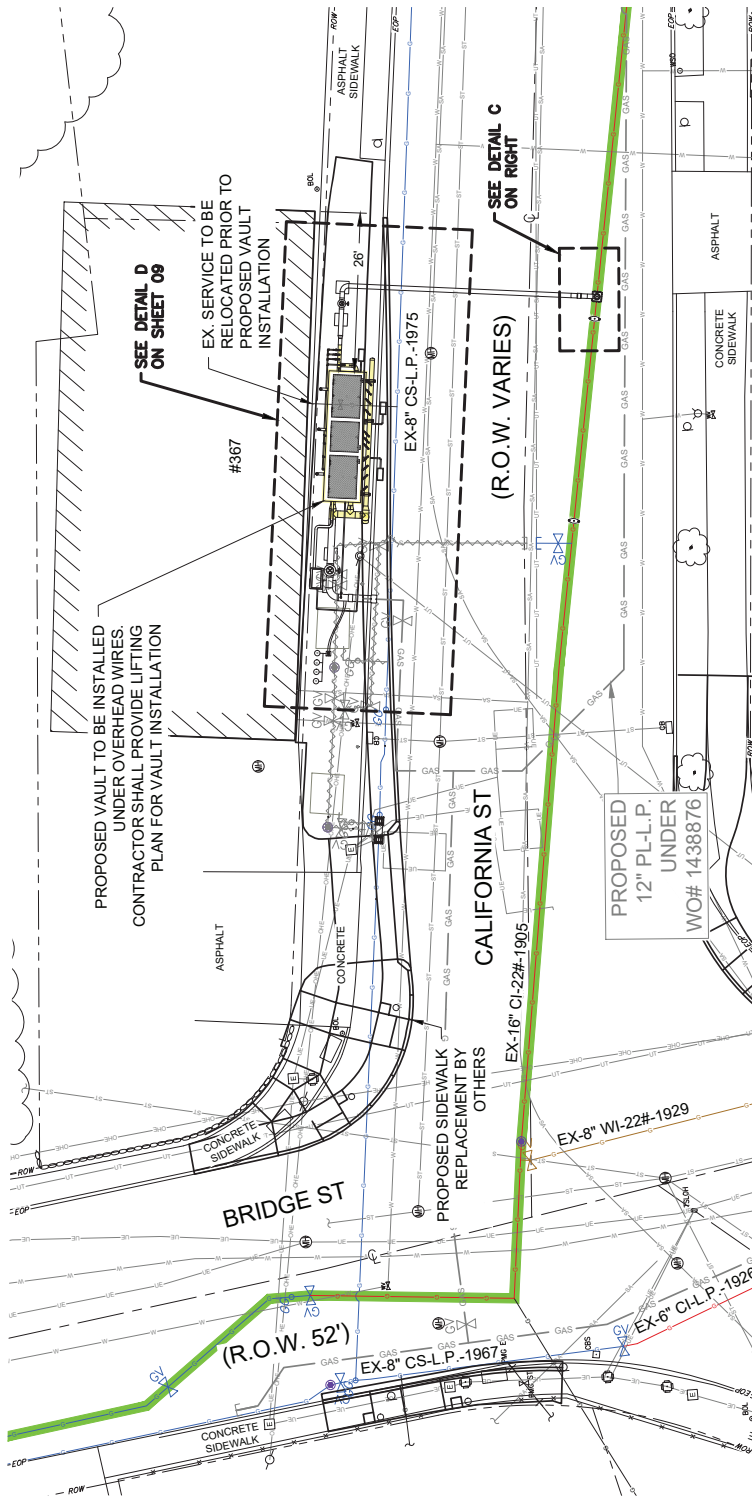
BOSTON GAS COMPANY
476 S
nationalgrid
40 SYLVAN ROAD
WALTHAM, MA 02451

NO	DESCRIPTION	DATE	BY	APP	REVISIONS
5	ADD REG. INFO. & BY-PASS VALVE	03/05/2021	LZ	BRB	
4	UPDATE I&M INFORMATION	01/24/2014	DM	TM	

INSTALLATION DATE: 1967	DWG. NO.
	FD-123
ASSET ID: 123	

78-23

CALIFORNIA ST. @ BRIDGE ST. REGULATOR STATION REPLACEMENT CALIFORNIA ST & BRIDGE ST NEWTON, MA EXISTING CONDITIONS				ENGINEER J. LAMBERT	DATE 10/25/2022	V.O. NO. 0000028066	SHEET NO. 06
SR-123-9000028066 C-002				PAGE 06 OF 12			



DETAIL C: TIE-IN
SCALE: 1:13
SEE NOTE 1

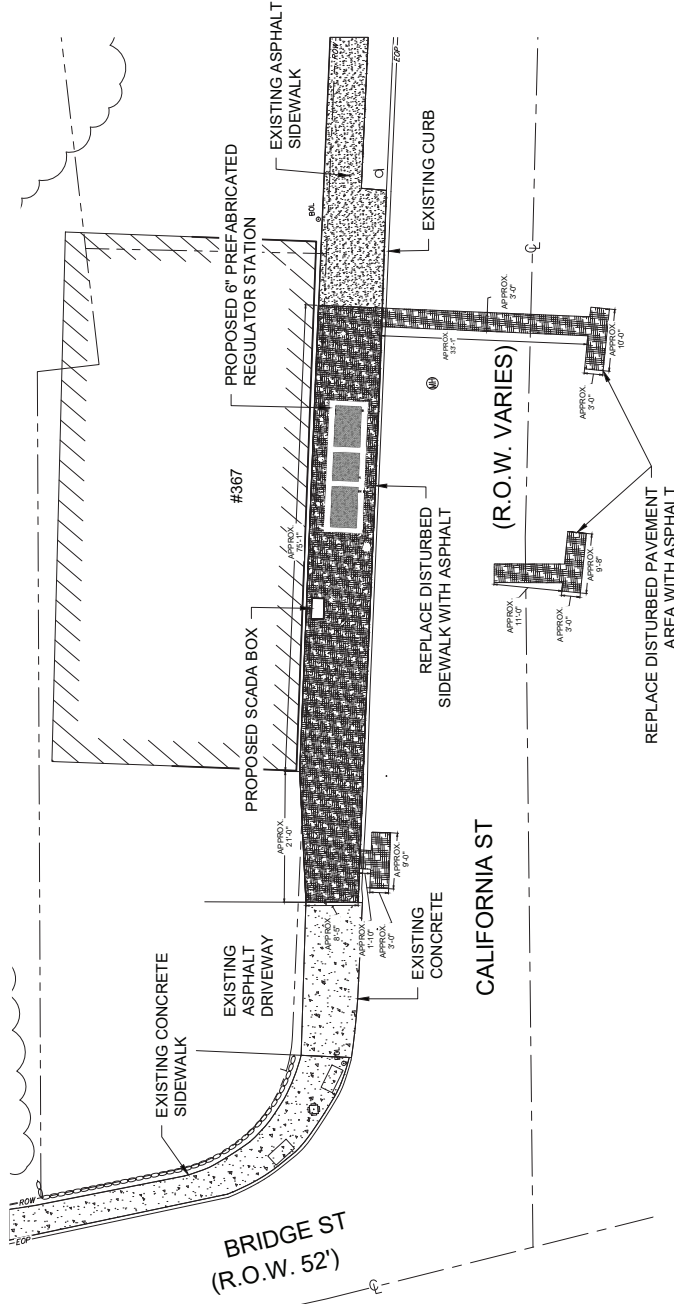
CORROSION NOTE:
INSTALL A WELD-END INSULATOR ON THE PROPOSED COATED STEEL MAIN. INSTALL A (4)-WIRE TEST STATION ACROSS THE INSULATOR. INCLUDE (4)-17 LB ANODES SPACED AT LEAST 8 FT APART AND 1 FT BELOW THE MAIN USING A SINGLE HEADER CABLE. INSTALL THE 8X9 TEST STATION IN AN ACCESSIBLE LOCATION.

NOTE:
1. ADDITIONAL VERTICAL BENDS NOT SHOWN SHALL BE INSTALLED AS NECESSARY TO FACILITATE THE CONNECTION TO THE MAIN UNDER WO# 1438876.

78-23

					
45 NEWBURY ROAD WEST BOSTON, MA 02186 PHONE: (617) 552-7500 FAX: (617) 552-7501		BOSTON GAS COMPANY 476 N nationalgrid WALTHAM, MA 02451		PROJECT NO. 1012111 SHEET NO. 08	
PROJECT: CALIFORNIA ST & BRIDGE ST REGULATOR STATION REPLACEMENT CALIFORNIA ST & BRIDGE ST NEWTON, MA		PROPOSED CONDITIONS ENGINEER: J. LAMBERT DATE: 10/25/2022 V.O. NO.: 9000228066		DRAWING NO. SR-123-90000228066 C-004 PAGE 08 OF 12	
NO.	DESCRIPTION	DATE	BY	CHK	APP
0	ISSUED FOR CONSTRUCTION	10/25/2022	JML	JML	





PROJECT NO.	SR-123-90000228066 C-005
DRAWING NO.	10
SHEET NO.	10

DATE	10/28/14	DATE	10/28/2012
DESIGNED BY	J. LAURET	DATE	10/28/2012
CHECKED BY	J. LAURET	DATE	10/28/2012
APPROVED BY	J. LAURET	DATE	10/28/2012

NO.	0	DESCRIPTION	REPLACE DISTURBED PAVEMENT AREA WITH ASPHALT
NO.	0	DESCRIPTION	REPLACE DISTURBED PAVEMENT AREA WITH ASPHALT

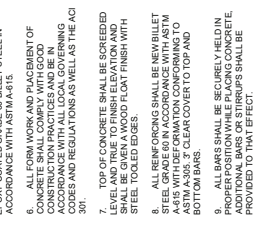
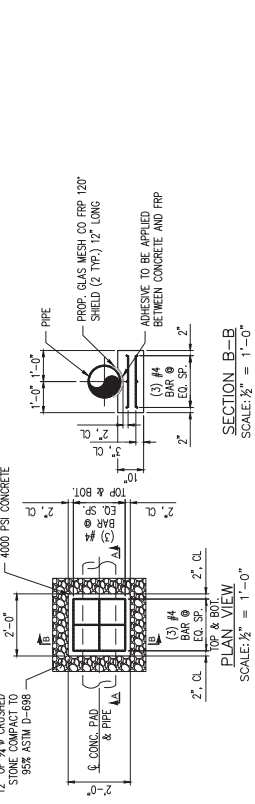
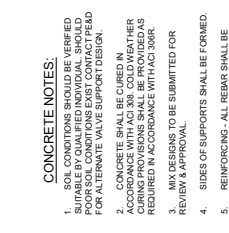
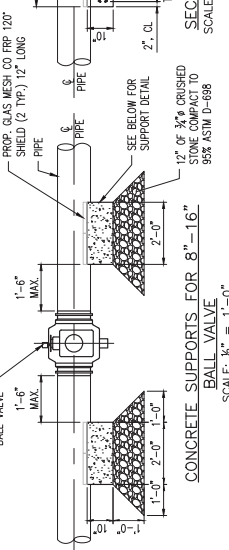
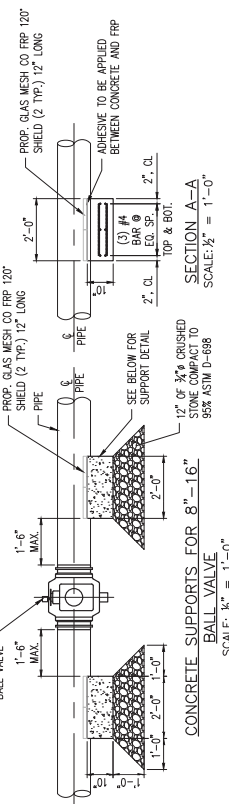
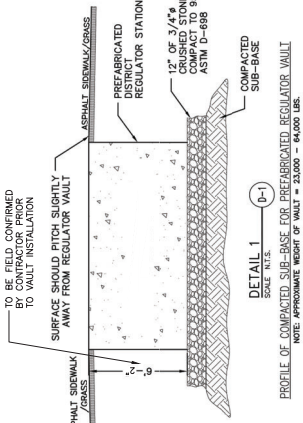
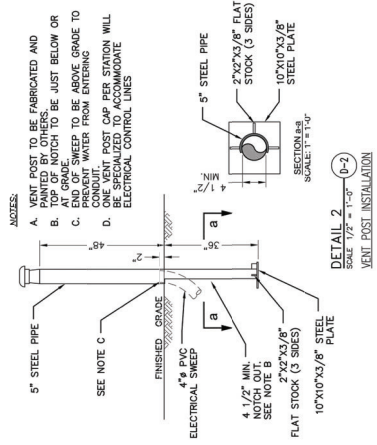


BOSTON, MA COMPANY
 476 N
nationalgrid
 WALTON, MA 02451
 IFC

45 DENNIS ROAD
 WEST BOSTON, MA 02126
 PHONE (617) 552-7500
 FAX (617) 552-7501
THE DDS CORPORATION

1"=10'
 0 10 20

CALIFORNIA ST @ BRIDGE ST REGULATOR STATION REPLACEMENT CALIFORNIA ST & BRIDGE ST NEWTON, MA RESTORATION PLAN	ENGINEER	J. LAURET	DATE	10/28/2012	ASSET ID.	XXXXXXXXXX	W.O. NO.	00000228066
--	----------	-----------	------	------------	-----------	------------	----------	-------------



NOTES:
 A. VENT POST TO BE FABRICATED AND PAINTED BY OTHERS.
 B. VENT POST NOTCH TO BE JUST BELOW OR AT GRADE.
 C. END OF SWEEP TO BE ABOVE GRADE TO PREVENT WATER FROM ENTERING CONDUIT.
 D. ONE VENT POST PER STATION WILL BE PROVIDED FOR THE APPROPRIATE ELECTRICAL CONTROL LINES.

NOTES:
 1. DRAIN PIPING SHALL BE FIELD Routed BY CONTRACTOR AND DRYWELL SHALL BE PROVIDED BY CONTRACTOR.
 2. ALL JOINTS ARE TO BE MADE WITH PVC GEMENT.

CONCRETE NOTES:
 1. SOIL CONDITIONS SHOULD BE VERIFIED BY QUALIFIED INDIVIDUAL SHOULD BE PROVIDED TO THE CONTRACTOR FOR ALTERNATE VALVE SUPPORT DESIGN.
 2. CONCRETE SHALL BE CURED IN ACCORDANCE WITH ACI 308. COLD WEATHER CONSTRUCTION PRACTICES AND BE IN ACCORDANCE WITH ACI 308.3. ALL CODES AND REGULATIONS AS WELL AS THE ACI 308.
 3. TOP OF CONCRETE SHALL BE SCAFFERED LEVEL AND TRUE TO FINISH ELEVATION AND SHALL BE TOUGHENED TO FINISH WITH STEEL TOGGLED EDGES.
 4. ALL REINFORCING SHALL BE NEW BULLET STEEL GRADE 60 IN ACCORDANCE WITH ASTM A618. ALL BARS SHALL BE CLEAR COVER TO TOP AND BOTTOM BARS.
 5. ALL BARS SHALL BE SECURELY HELD IN PROPER POSITION WHILE PLACING CONCRETE. PROVIDER TO THAT EFFECT.
 6. CONCRETE FINISH SHALL BE FREE OF HONEYCOMB, ROCK POCKETS AND UNFINED SURFACES.
 7. IF CONCRETE IS PLACED IN FIELD PIPE SHALL BE TEMPORARILY SUPPORTED BY WOOD BRACKETS TO MAINTAIN ELEVATION WITH 3 DAYS, MIN. TO ALLOW ENOUGH TIME FOR CONCRETE TO CURE.

nationalgrid
 BOSTON GAS COMPANY
 476 N
 WALL ST. MA 02109
 IFC

THE DDS
 CONCRETE
 45 DENVER ROAD
 WEST BOSTON, MA 02126
 PHONE: 617-552-7400
 FAX: 617-552-7401

NO.	DESCRIPTION	DATE	DESIGNER	DATE	DATE	DATE	DATE	DATE	DATE
0	ISSUED FOR CONSTRUCTION	10/25/2022	J. LAMBERT	10/25/2022					

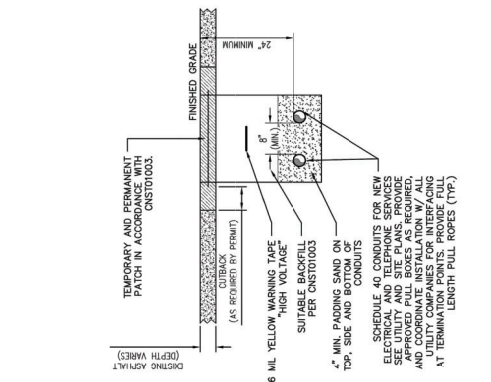


BOSTON GAS COMPANY
 476 N
nationalgrid
 100 STATE STREET
 WALTHAM, MA 02451

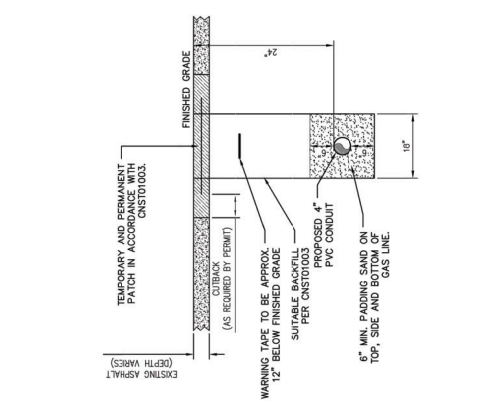
45 DENYARD ROAD
 WEST BOSTON, MA 02186
 PHONE 781/551-5400
 FAX 781/551-5401

THE DDS
 COMPANIES

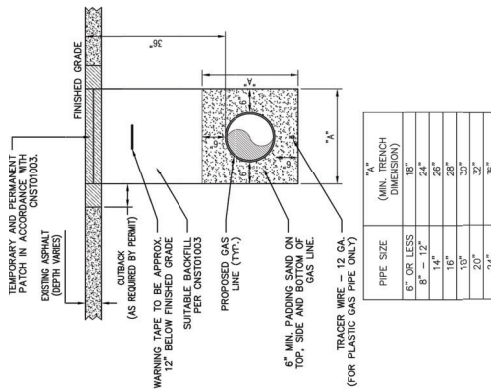
NO.	DESCRIPTION	DATE	DESIGNER	DATE	DATE	DATE	DATE	DATE	DATE
0	ISSUED FOR CONSTRUCTION	10/25/2022	J. LAMBERT	10/25/2022					



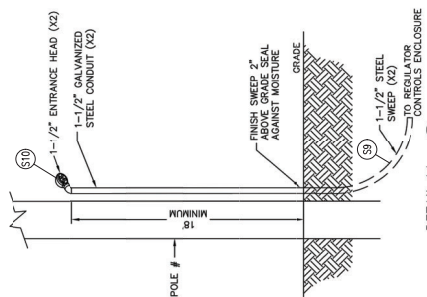
DETAIL 9
 SCALE: 3/8" = 1'-0"
 ELECTRICAL TRENCH GUIDELINES



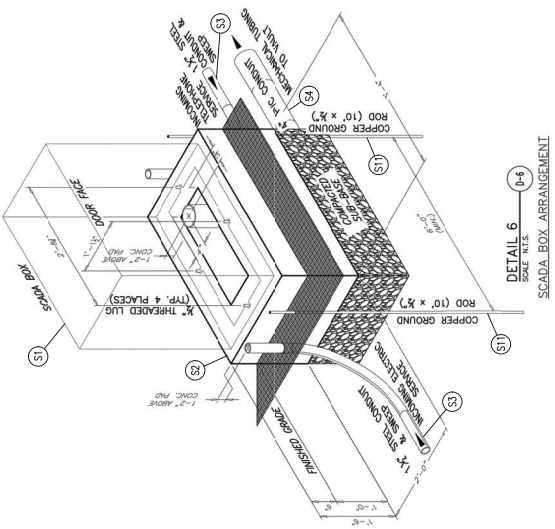
DETAIL 8
 SCALE: 3/8" = 1'-0"
 TRENCH GUIDELINES



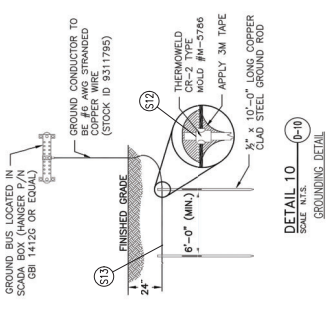
DETAIL 7
 SCALE: 3/8" = 1'-0"
 TRENCH GUIDELINES



DETAIL 11
 SCALE: N.T.S.
 ELECTRIC & TELEPHONE SERVICE ENTRANCE DETAIL



DETAIL 6
 SCALE: N.T.S.
 SCADA BOX ARRANGEMENT



DETAIL 10
 SCALE: N.T.S.
 GROUNDING DETAIL