



TOWN OF ANDOVER

Town Clerk's Office

36 Bartlet Street
Andover, MA 01810
978-623-8230
townclerk@andoverma.gov

NOTICE

You are hereby notified that a Public Hearing will be held by the Andover Select Board, on July, 17, 2023 in the School Committee Room, 30 Whittier Court, at 7 PM.

This hearing is on the petition of Eversource Gas of Massachusetts requesting permission to excavate for the purpose of replacing and or extending its gas mains, according to blueprints made a part of this petition, and to make the necessary house connections along said extensions, as follows:

This project is to install approximately 980 feet of 8" plastic gas main in Andover on Essex St. from Central St. to School St.

WO#: 12735996

Plan(s) of the proposed work can be found in the Meeting Packet on the Select Board's page on the Town of Andover website, www.andoverma.gov.

In addition to the hearing itself, representatives from the utility company will be available at 6:45 P.M. on the above date to answer any other questions residents may have relating to the proposed work.

By order of the
Select Board

Austin Simko
Assistant Town Manager/Town Clerk

Plan No.: WO#: 12735996
Date: July 17, 2023

TOWN OF ANDOVER, MASSACHUSETTS



PRIVATE UTILITY PETITION CHECKLIST

TO BE FILLED OUT BY PETITIONER

COMPANY: Eversource Gas of Massachusetts

WO# 127-35996

PROJECT MANAGER NAME: Louie DeRoxas

PROJECT MANAGER CONTACT NUMBER: 978-701-3625

LIST OF ADDRESSES IMPACTED BY PROPOSED WORK:

6-53 Essex Street (see attached map). No service work, only main installation.

PETITIONER IS REQUIRED TO ATTACH PICTURES SHOWING AREA OF PROPOSAL

PICTURES HAVE BEEN ATTACHED YES

TO BE FILLED OUT BY TOWN OF ANDOVER STAFF

DPW

SUPPORT PROJECT (YES / NO)

YES

SIGNATURE:

[Handwritten Signature]

TITLE:

Town Engineer

COMMENTS:

POLICE DEPARTMENT

SUPPORT PROJECT (YES / NO)

SIGNATURE: _____

TITLE: _____

COMMENTS:

FIRE DEPARTMENT

SUPPORT PROJECT (YES / NO)

SIGNATURE: _____

TITLE: _____

COMMENTS:

TOWN OF ANDOVER, MASSACHUSETTS

ANDOVER TOWN CLERK
RCUD 2023 MAY 23 AM 10:19



PRIVATE UTILITY PETITION CHECKLIST

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PROJECT MANAGER NAME:	Louie DeRoxas	
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PICTURES HAVE BEEN ATTACHED	YES	

TO BE FILLED OUT BY TOWN OF ANDOVER STAFF

<u>DPW</u>	
SUPPORT PROJECT (YES / NO)	SIGNATURE: _____
COMMENTS:	TITLE: _____

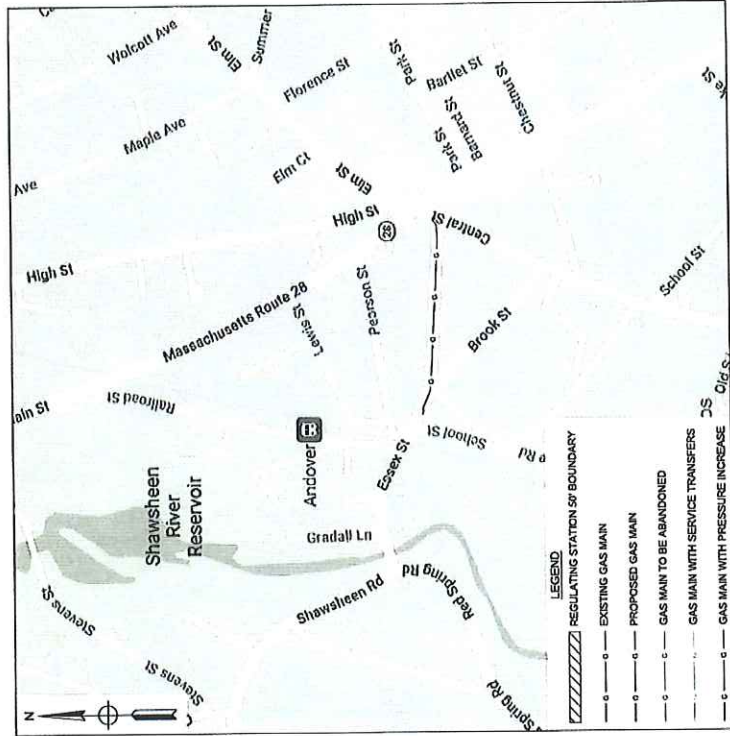
<u>POLICE DEPARTMENT</u>	
SUPPORT PROJECT (YES / NO)	SIGNATURE: _____
COMMENTS:	TITLE: _____

<u>FIRE DEPARTMENT</u>	
SUPPORT PROJECT (YES / NO)	SIGNATURE: <u>MB Mansfield</u>
COMMENTS:	TITLE: <u>Fire Chief</u>

TABLE OF CONTENTS

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01 OF 10	COVER SHEET
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03 OF 10	LEGEND
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05 OF 10	PREPARATORY AND FINAL TIE-IN DETAILS
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07 OF 10	MA CORROSION DETAILS
08 OF 10	MA CORROSION DETAILS
09 OF 10	MA CORROSION DETAILS
10 OF 10	BLANK GRIDDED SHEET

EVERSOURCE ENERGY



WORK SCOPE
NOT TO SCALE

PROJECT SUMMARY TABLE			
INSTALLATION INFORMATION			
Work Type	LENGTH (FT)	SIZE (IN)	MATERIAL
INSTALL	37	8"	30 PSIG
INSTALL	500	8"	30 PSIG
INSTALL	6	8"	30 PSIG
INSTALLATION TOTAL			543
UPGRADE/RETEST TOTAL			0

PROJECT SUMMARY TABLE			
ABANDONMENT INFORMATION			
LENGTH (FT)	SIZE (IN)	MATERIAL	ABANDONMENT CLASS
37	8"	30 PSIG	CLASS 1
CSP ABANDONMENT SUBTOTAL			0
NON-CSP ABANDONMENT SUBTOTAL			37
ABANDONMENT TOTAL			37



ISSUED FOR CONSTRUCTION

NO.	ISSUED FOR CONSTRUCTION	DESCRIPTION	DATE	DRAWN BY
0	ISSUED FOR CONSTRUCTION	DESCRIPTION	05/15/23	KOUR/MCM

Revision/Status

EVERSOURCE ENERGY

ESSEX ST, ANDOVER, MA
PROJECT # 23E164R
COVER SHEET

SCALE: 1" = 100'

DATE: 05/15/23

PROJECT NUMBER: MA-LMA-PIP-23-407-01

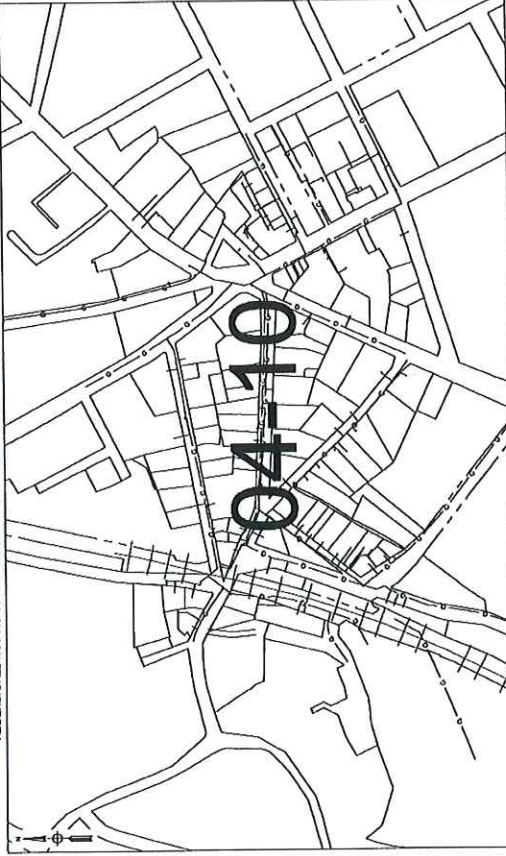
SHEET: 01 OF 10

FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

ESSEX ST, ANDOVER, MA
PROJECT #23E164R
WORK ORDER #12735996

GENERAL NOTES:

- A. IF ANY OF THE FOLLOWING OCCUR A DRAWING REVISION IS REQUIRED AND MUST BE APPROVED AND/OR STAMPED BY THE ENGINEER OF RECORD. CHANGES CAN BE APPROVED AND/OR STAMPED BY A PROJECT ENGINEER, BUT THE ENGINEER OF RECORD MUST BE INFORMED.
 - 1. IF THE TIE IN POINT MOVES TO A DIFFERENT SEGMENT OF PIPE THAN SHOWN.
 - 2. IF A CHANGE IN THE LOCATION OF VALVES IS REQUIRED.
 - 3. IF THERE IS ANY CHANGE TO WHAT IS SHOWN ON THE DRAWING WITHIN 50 FT OF A PRESSURE REGULATING STATION, DISTRICT REGULATOR, OR GATE STATION.
 - 4. IF A CHANGE IN PIPE SIZE, MATERIAL OR WALL THICKNESS IS REQUIRED.
 - 5. ALTERNATE FITTINGS THAT ARE ACCEPTABLE FOR ANY TIE-IN DETAIL WILL BE CALLED OUT IN THE DRAWING. FITTING CHANGES NOT SHOWN AS ALTERNATIVES ON THE DRAWING WILL NEED TO FOLLOW THE DRAWING CHANGE PROCESS CONTAINED IN SECTION V.2.
- B. CONSTRUCTION DRAWINGS, LOCATIONS OF EXISTING UTILITIES, UNDERGROUND STRUCTURES AND WORK LOCATIONS ARE BASED ON BEST AVAILABLE INFORMATION BUT HAVE NOT BEEN FIELD VERIFIED.
- C. ALL WORK MATERIAL AND CONSTRUCTION SHALL BE PERFORMED AND COMPLETED IN COMPLIANCE WITH ALL PERMITS AND APPROVALS PER EVERSOURCE, LOCAL, STATE, OSHA AND FEDERAL REGULATIONS AND STANDARDS.
- D. ALL LIVE GAS WORK EXCEPT SERVICE SIZE TAPS, INCLUDING BUT NOT LIMITED TO TAPPING OF FITTINGS ON LIVE MAINS, STOPPING, MANIPULATING VALVE, ABANDONMENT, SHALL BE PERFORMED BY, OR AT THE DIRECTION AND UNDER THE DIRECT SUPERVISION OF EVERSOURCE GAS PERSONNEL, AND IN ACCORDANCE WITH THE WRITTEN PROCEDURE. DRAWING CHANGES MAY ALSO REQUIRE A CHANGE TO THE PROCEDURE.
- E. EXCAVATOR IS REQUIRED TO PROTECT EXISTING UTILITIES, STRUCTURES, LANDSCAPES FEATURES, SIGNAGE, CURBS, ETC. OPERATIONS SHOULD BE TAKEN NOT TO DISTURB OR DAMAGE SUCH OPERATIONS. ALL GRASS, SIDEWALKS, AND GRASS DISTURBED SHALL BE RELOCATED TO THEIR EXISTING REGULAR LOCATION.
- F. ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), INCLUDING ALL REVISIONS AND ADDENDA. ALL TRAFFIC CONTROL DEVICES WILL BE SUPPLIED BY EXCAVATOR.



OVERVIEW KEY MAP
NOT TO SCALE

ISSUED FOR
CONSTRUCTION



CAMPOS
EPC
6 Columbus Drive, Ashwaht, WI 53031
(608) 457-7160

ESSEX ST. ANDOVER
REQUIRED BILL OF MATERIALS

Item Number	Material Part	Description	Quantity	Units
36	500706	1/2" WALL 8 IN IPS POLYETHYLENE GHAEL BUTT WELD W/ FULL POINT OPENING, BLACK FINISH	2	EA
37	500806	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
38	500807	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
39	500808	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
40	500809	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
41	500810	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
42	500811	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
43	500812	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
44	500813	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
45	500814	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
46	500815	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
47	500816	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
48	500817	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
49	500818	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
50	500819	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
51	500820	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
52	500821	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
53	500822	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
54	500823	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
55	500824	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
56	500825	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
57	500826	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
58	500827	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
59	500828	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
60	500829	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
61	500830	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
62	500831	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
63	500832	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
64	500833	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
65	500834	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
66	500835	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
67	500836	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
68	500837	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
69	500838	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
70	500839	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
71	500840	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
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73	500842	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
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75	500844	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
76	500845	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
77	500846	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
78	500847	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
79	500848	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
80	500849	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
81	500850	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
82	500851	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
83	500852	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
84	500853	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
85	500854	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
86	500855	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
87	500856	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
88	500857	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
89	500858	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
90	500859	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
91	500860	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
92	500861	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
93	500862	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
94	500863	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
95	500864	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
96	500865	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
97	500866	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
98	500867	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
99	500868	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA
100	500869	COURTESY PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC PIPE	2	EA

COMPLETE BOM

Item No.	Description	Revision/Status	Date	Dw/CK
0	ISSUED FOR CONSTRUCTION		05/15/23	KUR/MCM

EVERSOURCE
ENERGY
PROJECT # 23ES164R

NOTES
SHEET 02 OF 10
Drawing Number
JH 1661623
M4-LAN-PP-23-01-02
0

FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION


DRAWING LEGEND

- Gas Main Symbolology
- REGULATING STATION FOR BOUNDARY
- EXISTING GAS MAIN
- EXISTING ABANDONED GAS MAIN
- PROPOSED GAS MAIN
- GAS MAIN TO BE ABANDONED
- GAS MAIN WITH SERVICE TRANSFERS
- GAS MAIN WITH PRESSURE INCREASE
- GAS SERVICE
- RIGHT-OF-WAY / PARCELS
- EASEMENT
- PAVEMENT
- ELECTRIC
- WATER LINE
- SEWER LINE
- TELEPHONE
- DRAIN LINE
- FENCE LINE


- Gas Main Material/Pressure Label References
- MATERIAL CODES
- Unprotected Coated Steel Gas Main
- Protected Coated Steel Gas Main
- Cast Iron Gas Main
- Bare Steel Gas Main
- Wrought Iron Gas Main
- High Density Polyethylene Gas Main
- Medium Density Polyethylene Gas Main
- Low Pressure (<0.5 PSIG or 4" W.C.)
- Medium Pressure (>0.5 PSIG & 6" W.C.)
- High Pressure (>10 PSIG & 6" W.C.)
- High Pressure (>60 PSIG)

- MISCELLANEOUS CODES
- Service
- Class
- Transmission Class
- Gas Main Installation Method Label References
- Attached
- BH
- BLGH
- IS
- OC
- PB
- PL
- PT
- RI
- Proposed

- Gas Facility Symbolology
- Gas Valve
- Critical Gas Valve
- Gate - GV, Plug - PV, PE Ball - BP, ST Ball - BV
- High Volume Tapping Tee
- Pressure Control Filling - SpheriSeal Tee
- Pressure Control Filling - SpheriSeal Tee
- Pressure Control Filling - Mueller Bottom-out
- Pressure Control Filling - Mueller Side-out
- Pressure Control Filling - Mueller Flange Tee
- Pressure Control Filling - ShortStop
- Pressure Control Filling - Mueller Stopper
- Pressure Control Filling - Mueller Stopper
- Transition
- End Cap
- Riser
- Reducer
- Flush-mounted Tracer Wire Station
- Post Pipeline Marker with Tracer Wire
- Gas Main Marker without Tracer Wire
- Test Well
- Regulator Station
- Single Customer Regulator
- Meter with Regulator
- Test Point (Station)
- Gas Service Replacement
- Gas Service Replacement
- Meter Move Out
- Swing Tie Symbolology
- Telephone Manhole
- Drain Manhole
- Water Manhole
- Catch Basin
- Sewer Manhole
- Fire Hydrant
- Utility Pole
- Telephone Pedestal
- Telephone Pedestal
- Unknown Manhole
- Water Box
- Blower Pedestal
- Iron Pin
- Light Pole
- INSIDE METER
- CURBSIDE METER



5 Columbus Drive, Newark, NJ 07102
(908) 457-2189



State of New Jersey
Professional Engineer
No. 121267
Date of Expiration: 12/31/2024

ISSUED FOR CONSTRUCTION

No.	Description	Date	Drawn/Checked
0	ISSUED FOR CONSTRUCTION	05/15/23	KMR/MCM

Revision/Status

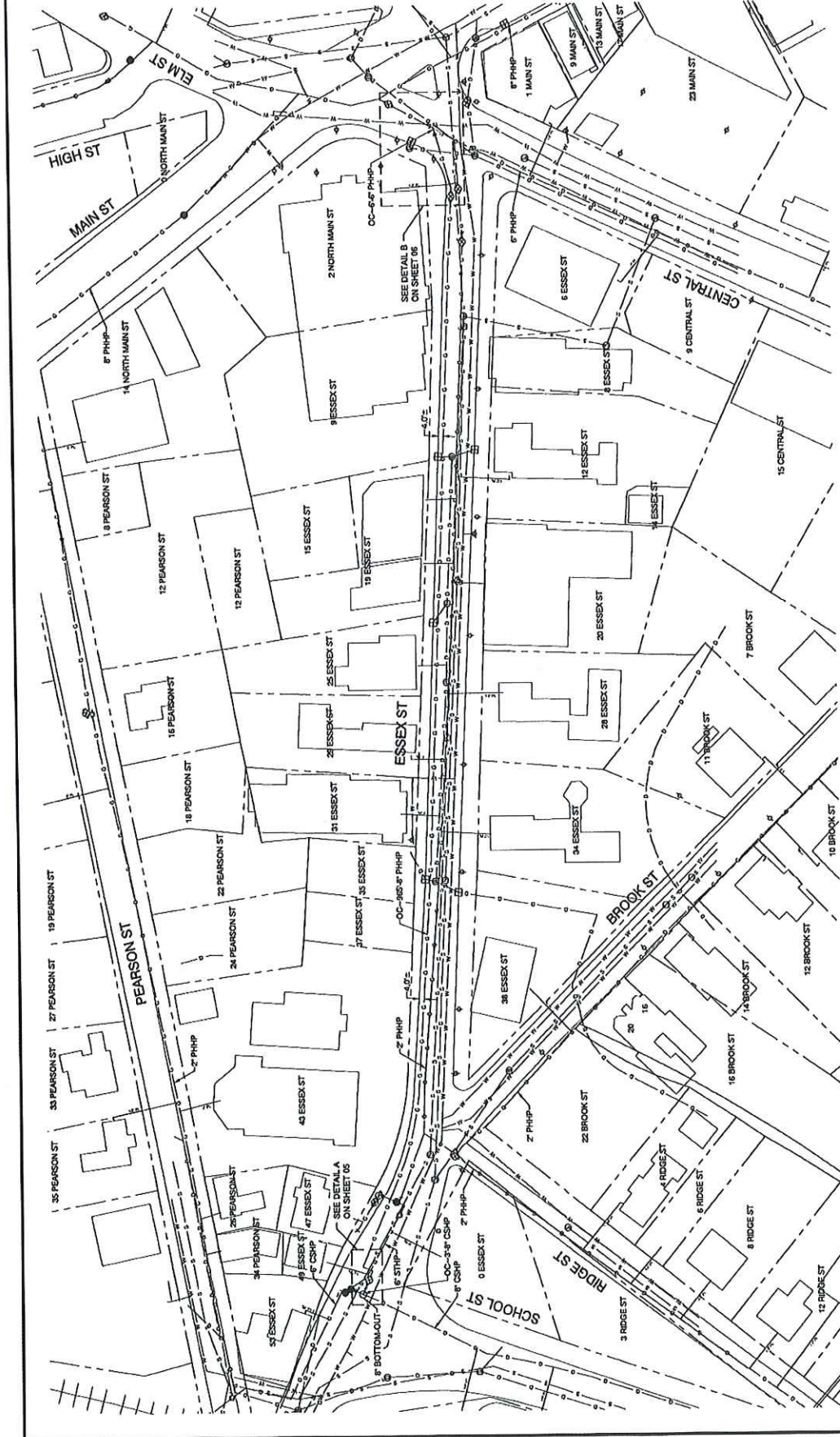
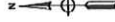
EVERSOURCE ENERGY

ESSEX-ST. ANDOVER, MA
PROJECT # 22EG164R
LEGEND

Checked by / Date: JH 05/15/23
SHEET 03 OF 10
Drawing Number: MA-JVW-PP-23-407-03
Scale No.: 0

SCALENTS
Checked by / Date: JH 05/15/23
Drawing Number: MA-JVW-PP-23-407-03
Scale No.: 0

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION



EVERSOURCE ENERGY	
ESSEX ST ANDOVER, MA	
PROJECT # 2255154R	
PROJECT LOCATION PLAN	
SHEET 04 OF 10	Drawn By: JH
Scale: 1" = 40'	Checked By: JH
Date: 05/15/23	Project Number: MAL-AN-PP-23-40-04
0	0

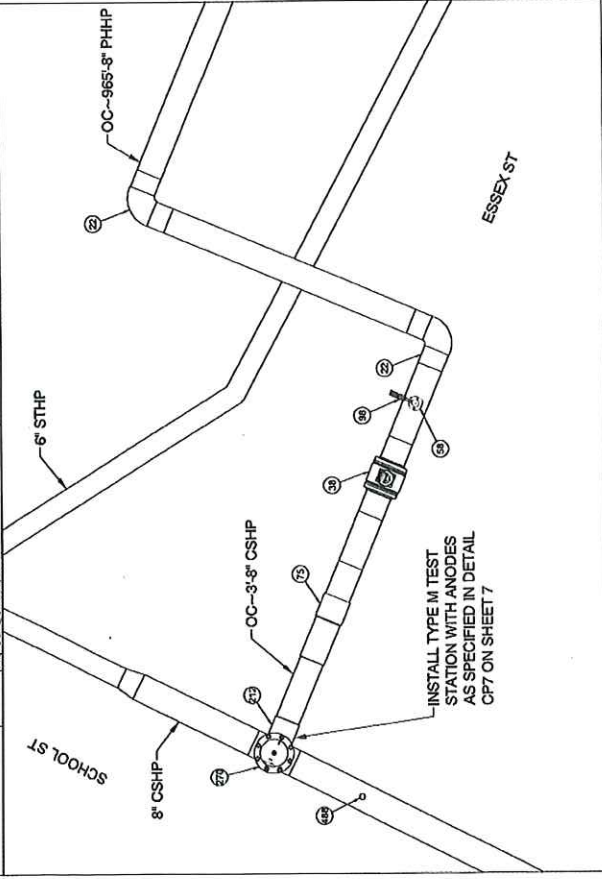
FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION



ISSUED FOR CONSTRUCTION

No.	Description	Date	Drawn/Checked
0	ISSUED FOR CONSTRUCTION	05/15/23	KVR/MCM

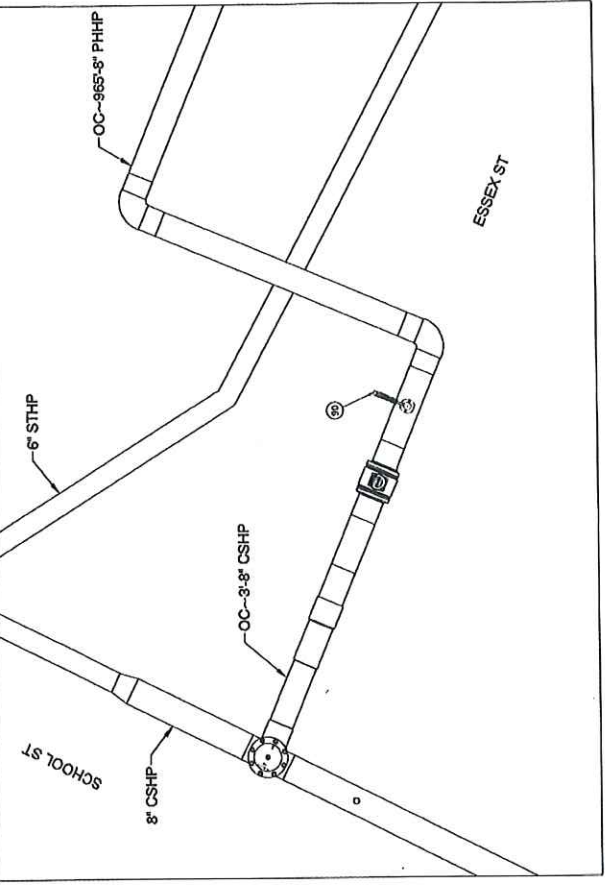
ESSEX ST. ANDOVER		DETAIL 'A' PREPARATORY	
Item Number	MISC Book Number	Description	Quantity
22	1-0002167	1/2" OD x 1/2" THK. 1/2" DIA. IN 1/2" WALL BUTT WELD	1
22	0276159	1/2" OD x 1/2" THK. 1/2" DIA. IN 1/2" WALL BUTT WELD	2
270	0350397	1/2" OD x 1/2" THK. 1/2" DIA. IN 1/2" WALL BUTT WELD	1
38	1471216	VALVE BALL IN IPS, POLYETHYLENE SHELL BUTT WELD, W/	1
488	0342017	VALVE BALL IN IPS, POLYETHYLENE SHELL, 1/2" DIA. IN 1/2" WALL, W/	1
58	0262059	FITTING, 1/2" IN IPS x 1/2" IN O.D., ELECTROFUSION TAPPING TEE	1
75	0320032	FITTING, 1/2" IN IPS x 1/2" IN O.D., ELECTROFUSION TAPPING TEE	1
98	0440025	1/2" THK. ELASTIC CHA-3160500 IN WALL	1



PREPARATORY TIE-IN DETAIL A
NOT TO SCALE




ESSEX ST. ANDOVER		DETAIL 'A' FINAL	
Item Number	MISC Book Number	Description	Quantity
98	0440025	FITTING, 1/2" IN IPS x 1/2" IN O.D., ELECTROFUSION TAPPING TEE	1
	010757	1/2" THK. ELASTIC CHA-3160500 IN WALL	1




FINAL TIE-IN DETAIL A
NOT TO SCALE

0	ISSUED FOR CONSTRUCTION	05/15/23	KARRACOM
	No.	Date	Drawn
Revisions/Status			
EVERSOURCE			
ESSEX ST. ANDOVER			
PROJECT # 225164R			
PREPARATORY AND FINAL TIE-IN DETAILS			
SHEET 05 OF 10			
Checked by Date			
Drawn by Date			
Job Number			
Drawing Number			
Scale			
Job No.			



CAMPOS
EPC

6 Columbia Drive, Amherst, NH 03031
(603) 457-7460

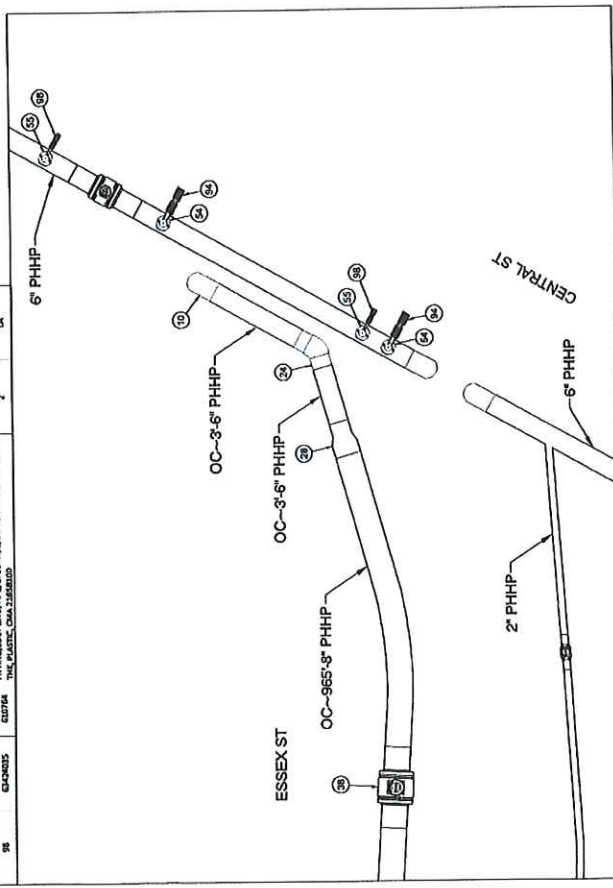


Professional Engineer
State of New Hampshire
No. 11151
Date Rec'd: 11/15/2022

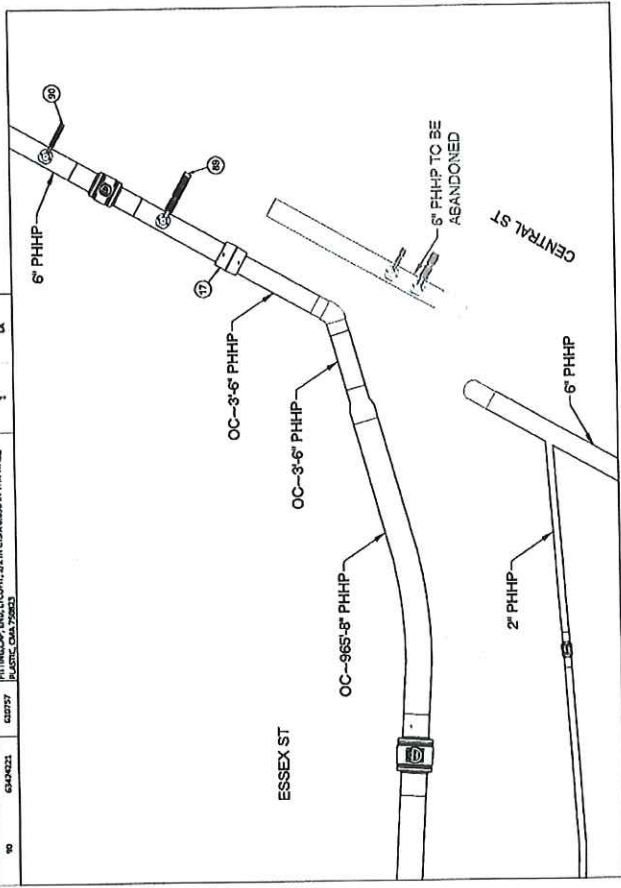
ISSUED FOR
CONSTRUCTION



REQUIRED BILL OF MATERIALS		DETAIL "B" PREPARATORY	
Item Number	Material Part Number	Description	Quantity
24	6307924	6" PPHP	1
28	6307940	OC-3'-6" PPHP	1
34	6305270	OC-965'-8" PPHP	2
35	6305277	2" PPHP	2
36	6304924	6" PPHP	2
38	6304925	6" PPHP	2



REQUIRED BILL OF MATERIALS		DETAIL "B" FINAL	
Item Number	Material Part Number	Description	Quantity
17	6305203	6" PPHP	1
18	6304922	OC-3'-6" PPHP	1
19	6304921	OC-965'-8" PPHP	1
20	6307924	6" PPHP	1



FINAL TIE-IN DETAIL B
NOT TO SCALE

PREPARATORY TIE-IN DETAIL B
NOT TO SCALE

NO.	DESCRIPTION	DATE	DRAWN
0	ISSUED FOR CONSTRUCTION	05/15/23	KURIMGM

PROJECT # 23EGT618
 ESSEX ST. ANDOVER, MA
 PREPARATORY AND FINAL TIE-IN DETAILS
 SHEET NUMBER
 OF 10

SCALE: NARS 05/15/23
 JH 05/15/23
 MA-LAN-PP-23-401-06
 0

CAMPOS EPC
 6 Columbia Drive, Andover, MA 01821
 (603) 627-1160
 PROJECT # 23EGT618
 SHEET # 06 OF 10

ISSUED FOR CONSTRUCTION

ITEM	MAXIMUM NO.	DESCRIPTION	UNITS
106	57777	REBAR SYSTEM FOR CONCRETE PROTECTION	EA
107	49023	CONCRETE PROTECTION SYSTEM FOR CONCRETE PROTECTION	EA
108	50038	CONCRETE PROTECTION SYSTEM FOR CONCRETE PROTECTION	EA
109	50039	CONCRETE PROTECTION SYSTEM FOR CONCRETE PROTECTION	EA
110	50040	CONCRETE PROTECTION SYSTEM FOR CONCRETE PROTECTION	EA
111	50041	CONCRETE PROTECTION SYSTEM FOR CONCRETE PROTECTION	EA
112	50042	CONCRETE PROTECTION SYSTEM FOR CONCRETE PROTECTION	EA
113	50043	CONCRETE PROTECTION SYSTEM FOR CONCRETE PROTECTION	EA
114	50044	CONCRETE PROTECTION SYSTEM FOR CONCRETE PROTECTION	EA
115	50045	CONCRETE PROTECTION SYSTEM FOR CONCRETE PROTECTION	EA
116	50046	CONCRETE PROTECTION SYSTEM FOR CONCRETE PROTECTION	EA
117	50047	CONCRETE PROTECTION SYSTEM FOR CONCRETE PROTECTION	EA
118	50048	CONCRETE PROTECTION SYSTEM FOR CONCRETE PROTECTION	EA
119	50049	CONCRETE PROTECTION SYSTEM FOR CONCRETE PROTECTION	EA
120	50050	CONCRETE PROTECTION SYSTEM FOR CONCRETE PROTECTION	EA
121	50051	CONCRETE PROTECTION SYSTEM FOR CONCRETE PROTECTION	EA
122	50052	CONCRETE PROTECTION SYSTEM FOR CONCRETE PROTECTION	EA
123	50053	CONCRETE PROTECTION SYSTEM FOR CONCRETE PROTECTION	EA
124	50054	CONCRETE PROTECTION SYSTEM FOR CONCRETE PROTECTION	EA
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126	50056	CONCRETE PROTECTION SYSTEM FOR CONCRETE PROTECTION	EA
127	50057	CONCRETE PROTECTION SYSTEM FOR CONCRETE PROTECTION	EA
128	50058	CONCRETE PROTECTION SYSTEM FOR CONCRETE PROTECTION	EA
129	50059	CONCRETE PROTECTION SYSTEM FOR CONCRETE PROTECTION	EA
130	50060	CONCRETE PROTECTION SYSTEM FOR CONCRETE PROTECTION	EA

CATHODIC PROTECTION BILL OF MATERIALS

NOTES:

- ALL TEST STATION BOXES SHOULD BE INSTALLED IN A SAFE LOCATION WHERE ONE INDIVIDUAL CAN CAREFULLY OPERATE AND ACCESS THE TEST WIRES. ALL TEST WIRES INSIDE THE BOX SHOULD HAVE ENOUGH BLACK OR WHITE WIRE TO BE SPACED AT 12" INTERVALS.
- FOR TYPE A TEST STATIONS, THE TWO WIRES SHOULD BE THERMATE WELDED TO THE COATED STEEL MAIN AND BE THE SAME COLOR. (COUPONS SHOULD BE ADDED TO THE TEST STATION TYPE).
- FOR TYPE B TEST STATIONS, EACH OF THE FOUR WIRES SHOULD BE A DIFFERENT COLOR AND ISOLATED.
- FOR TYPE C TEST STATIONS, EACH OF THE FOUR WIRES SHOULD BE A DIFFERENT COLOR AND ISOLATED.
- FOR TYPE D TEST STATIONS WHICH ARE AT A CASING, WHITE WIRES ARE NORMALLY INSTALLED ON THE STEEL CASING AND BLACK WIRES ARE INSTALLED ON THE CARRIER PIPE. (WHITE WIRES ARE NORMALLY COULDED TO THE TEST STATION TYPE).
- FOR TYPE E TEST STATIONS, THE TWO WIRES THERMATE WELDED TO THE CARRIER PIPE SHOULD BE THE SAME COLOR WIRE. FOR THE ANODES, IF THE ANODE WIRES ARE SPACED TO A COMMON ANODE WIRE, THE ANODE WIRE SHOULD BE THERMATE WELDED TO THE CARRIER PIPE. AT THE POINT OF CONTACT WITH THE CARRIER PIPE, THE ANODE WIRE SHOULD BE DIRECTLY THERMATE WELDED TO THE CARRIER PIPE OR IN CONTACT WITH THE CARRIER PIPE. THE ANODE WIRE OR INDIVIDUAL ANODE WIRES SHOULD TERMINATE INSIDE THE TEST STATION BOX. ANODES SHOULD BE SPACED A MINIMUM OF 2" ON CENTER FROM EACH OTHER AND A MINIMUM OF 12" AWAY FROM THE BOTTOM OF THE STEEL MAIN.
- IF COUPONS ARE USED, THEY SHOULD BE INSTALLED ON THE STEEL MAIN. THE COUPON SURFACE SHOULD BE CLEANED WITH ALCOHOL TO REMOVE THE CORROSION INHIBITOR. PLACE THE COUPON ASSEMBLY APPROPRIATELY 12" FROM THE CASING BEING MONITORED WITH THE SENSING POINTS FACING THE GAS MAIN. THE COUPON ASSEMBLY SHOULD BE LOCATED AT THE POINT OF CONTACT WITH THE CASING AND THE MARK SHOULD BE MADE WITH A PERMANENT MARKER. THE COUPON ASSEMBLY SHOULD BE SPACED A MINIMUM OF 2" FROM THE CASING AND THE MARK SHOULD BE MADE WITH A PERMANENT MARKER. THE COUPON ASSEMBLY SHOULD BE SPACED A MINIMUM OF 2" FROM THE CASING AND THE MARK SHOULD BE MADE WITH A PERMANENT MARKER. THE COUPON ASSEMBLY SHOULD BE SPACED A MINIMUM OF 2" FROM THE CASING AND THE MARK SHOULD BE MADE WITH A PERMANENT MARKER.
- ONE (1) ANODE ANVIL SHALL BE INSTALLED TO PROTECT THE CLAMPS ON EACH 16-FOOT SPAN OF PIPE. EACH 16-FOOT SPAN OF PIPE MUST BE A CONTINUOUS SECTION OF STEEL. CLAMPS ON NON-CONTINUOUS SECTIONS OF STEEL, EVEN IF THEY ARE WITHIN 18 FEET OF EACH OTHER, MUST BE PROTECTED BY THE ANODE ANVIL. GENERAL GUIDANCE REGARDING "WRAPPING" FOR CORROSION PROTECTION. SEE SECTION M.2.5. RECORDED: THE BASIC STEPS REQUIRED TO WRAP LEAK REPAIR CLAMPS.

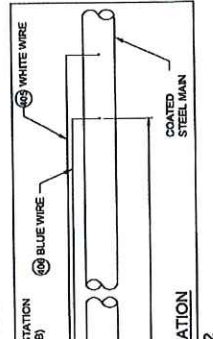
NO.	ISSUED FOR CONSTRUCTION	DATE	REVISION/STATUS
0	ISSUED FOR CONSTRUCTION	05/15/23	KMR/MCM
			DW/CK

EVERSOURCE
 ESSSEX ST. ANDOVER ENERGY
 PROJECT # 23E1645
 MA CORROSION DETAILS

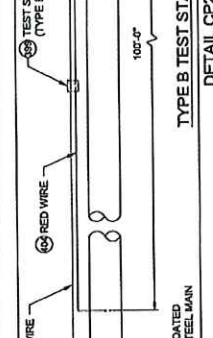
SCALE: 1/2" = 1'-0"
 SHEET 07 OF 10
 FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION
 MA CORROSION DETAILS
 SHEET 07 OF 10
 MA-LM-PP-23-01-07
 0



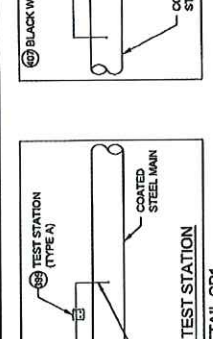
TYPE A TEST STATION
 DETAIL CP1
 SCALE: 1/2" = 1'-0"



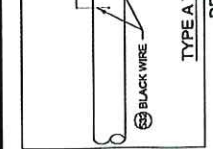
TYPE B TEST STATION
 DETAIL CP2
 SCALE: 1/2" = 1'-0"



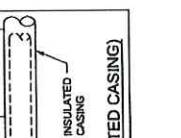
TYPE C TEST STATION - WITH #4 HWMP CABLE
 DETAIL CP4
 SCALE: 1/2" = 1'-0"



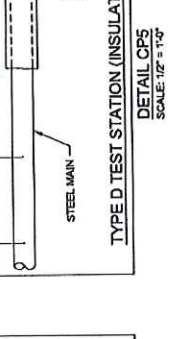
TYPE D TEST STATION (INSULATED CASING)
 DETAIL CP5
 SCALE: 1/2" = 1'-0"



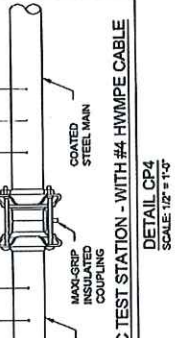
TYPE E TEST STATION
 DETAIL CP3
 SCALE: 1/2" = 1'-0"



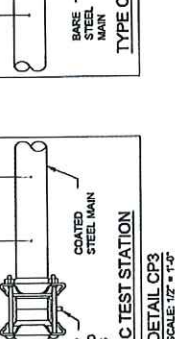
TYPE M TEST STATION (WITH COUPON AND ANODES)
 DETAIL CP7
 SCALE: 1/2" = 1'-0"



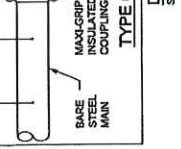
TYPE M TEST STATION (WITH ANODES)
 DETAIL CP6
 SCALE: 1/2" = 1'-0"



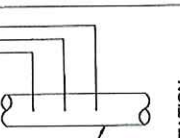
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 DETAIL CP8
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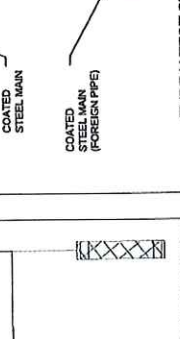
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 DETAIL CP9
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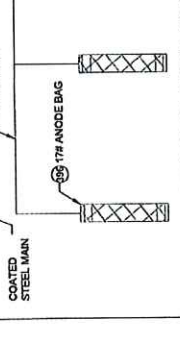
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 DETAIL CP10
 SCALE: 1/2" = 1'-0"



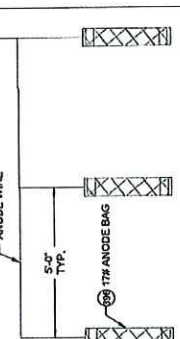
TYPE M TEST STATION (WITH ANODES)
 DETAIL CP11
 SCALE: 1/2" = 1'-0"



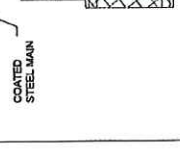
TYPE M TEST STATION (WITH ANODES)
 DETAIL CP12
 SCALE: 1/2" = 1'-0"



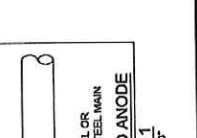
TYPE M TEST STATION (WITH ANODES)
 DETAIL CP13
 SCALE: 1/2" = 1'-0"



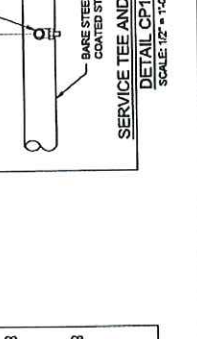
TYPE M TEST STATION (WITH ANODES)
 DETAIL CP14
 SCALE: 1/2" = 1'-0"



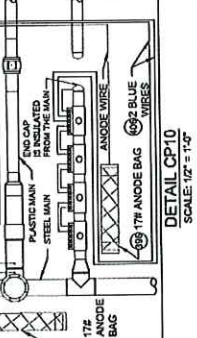
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 DETAIL CP15
 SCALE: 1/2" = 1'-0"



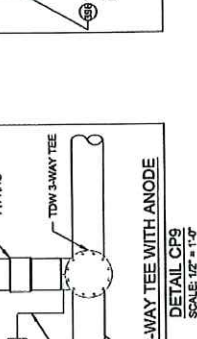
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 DETAIL CP16
 SCALE: 1/2" = 1'-0"



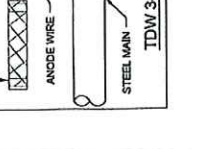
TYPE M TEST STATION (WITH ANODES)
 DETAIL CP17
 SCALE: 1/2" = 1'-0"



TYPE M TEST STATION (WITH ANODES)
 DETAIL CP18
 SCALE: 1/2" = 1'-0"



TYPE M TEST STATION (WITH ANODES)
 DETAIL CP19
 SCALE: 1/2" = 1'-0"



TYPE M TEST STATION (WITH ANODES)
 DETAIL CP20
 SCALE: 1/2" = 1'-0"

ITEM	MAXIMUM NO.	DESCRIPTION	UNITS
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107	49026	CONNECTIONS TO WAREHOUSE CONNECTION BOX AS PER GENERAL LAYOUT	EA
108	50028	CONNECTIONS TO WAREHOUSE CONNECTION BOX AS PER GENERAL LAYOUT	EA
109	50031	CONNECTIONS TO WAREHOUSE CONNECTION BOX AS PER GENERAL LAYOUT	EA
110	50032	CONNECTIONS TO WAREHOUSE CONNECTION BOX AS PER GENERAL LAYOUT	EA
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114	50036	CONNECTIONS TO WAREHOUSE CONNECTION BOX AS PER GENERAL LAYOUT	EA
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118	50040	CONNECTIONS TO WAREHOUSE CONNECTION BOX AS PER GENERAL LAYOUT	EA
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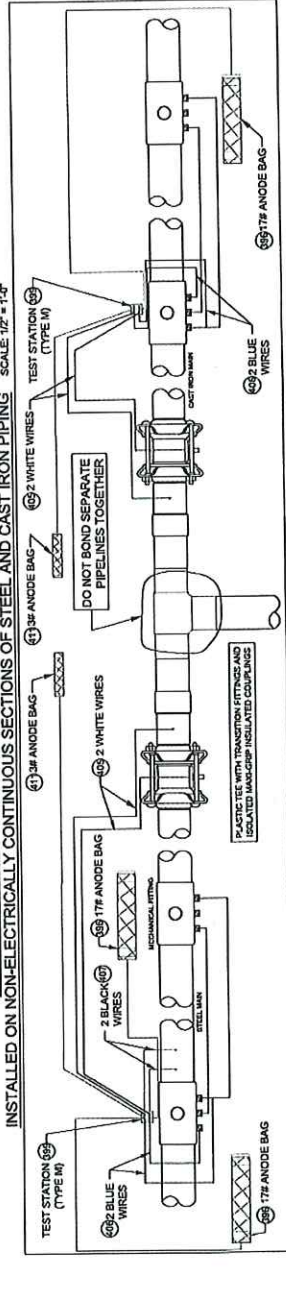
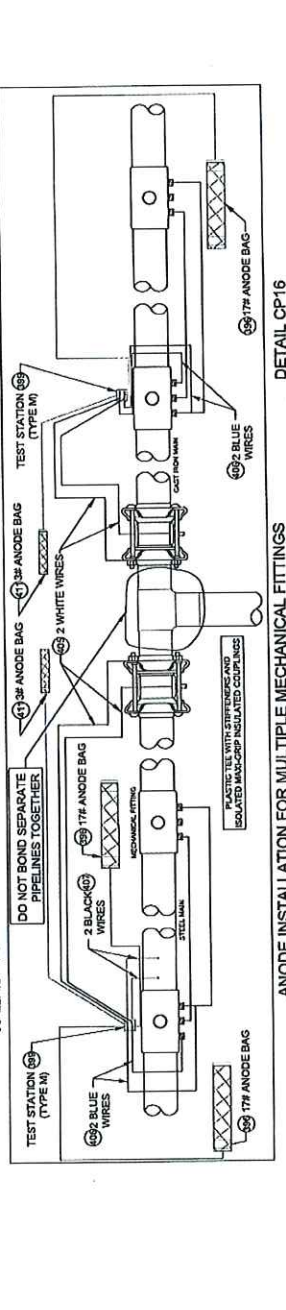
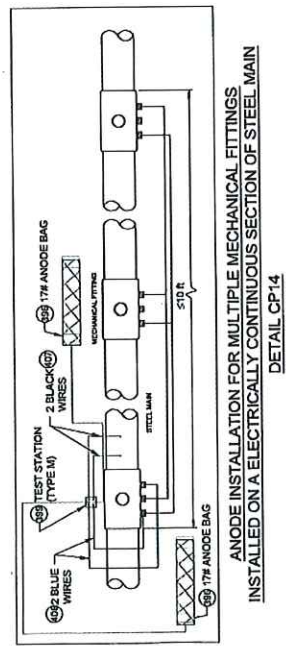
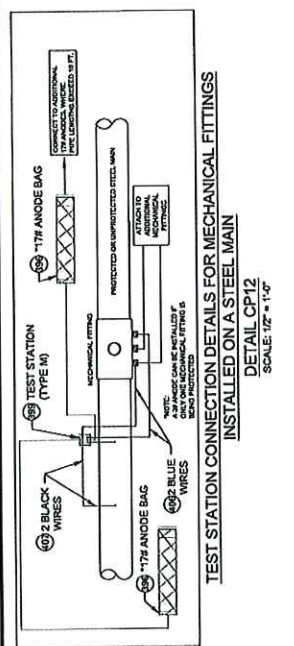
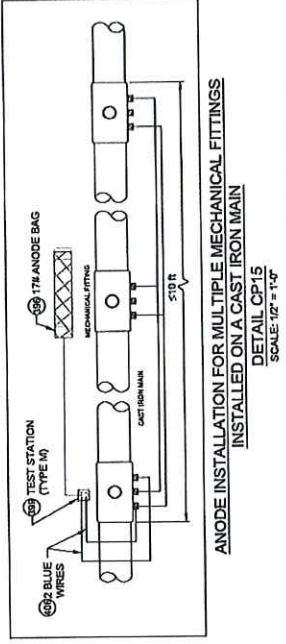
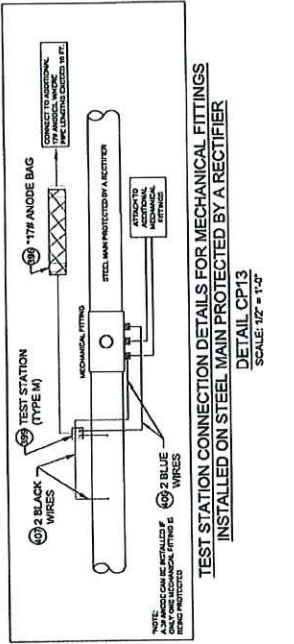
NOTES:
 1. FOR TYPE A TEST STATIONS, THE TWO WIRES SHOULD BE INSTALLED IN A SAFE LOCATION WHERE ONE INDIVIDUAL CAN SAFELY OPEN AND ACCESS A MINIMUM OF 12" ABOVE GRADE.
 2. FOR TYPE B TEST STATIONS, THE TWO WIRES SHOULD BE INSTALLED IN A SAFE LOCATION WHERE ONE INDIVIDUAL CAN SAFELY OPEN AND ACCESS A MINIMUM OF 12" ABOVE GRADE.
 3. FOR TYPE C TEST STATIONS, EACH OF THE FOUR WIRES SHOULD BE A DIFFERENT COLOR AND DOCUMENTED.
 4. FOR TYPE D TEST STATIONS, THE WIRES SHOULD BE THE SAME COLOR ON EACH SIDE OF THE INSULATED COUPLING, ANODES AND ANODE COUPLINGS SHOULD BE ADDED TO THIS TEST STATION TYPE.
 5. FOR TYPE E TEST STATIONS, ANODES AND ANODE COUPLINGS SHOULD BE ADDED TO THIS TEST STATION TYPE.
 6. FOR TYPE F TEST STATIONS, THE TWO WIRES SHOULD BE THE SAME COLOR AND THERE IS ALSO MAGNESIUM ANODES (WIRES) LOCATED AT THE BOTTOM OF THE STEEL MAIN. AN ANODE HEATER CABLE SHOULD BE INSTALLED AT THE BOTTOM OF THE STEEL MAIN. THE ANODE HEATER CABLE SHOULD BE A WHITE OR RED DIFFERENT COLOR WIRE THAN THE WIRE THAT WAS THERMITE WELDED TO THE CARRIER PIPE AT A TYPE M TEST STATION. THE MAGNESIUM ANODES SHOULD BE DIRECTLY THERMITE WELDED TO THE CARRIER PIPE OR IN CONTACT WITH THE CARRIER PIPE. THE ANODE HEATER WIRE OR CABLE SHOULD BE THERMITE WELDED TO THE CARRIER PIPE AT THE BOTTOM OF THE STEEL MAIN.
 7. IF COUPLINGS ARE TO BE INSTALLED, FIRST REMOVE THE PROTECTIVE LABEL, COVERING THE STEEL COUPLING AND THE RED STITCHING COVERING EACH SENSING POINT. CLEAN THE ENTIRE STEEL COUPLING SURFACE AND THE SURROUNDING STEEL MAIN. THE COUPLING ASSEMBLY SHOULD BE LOCATED ADJACENT TO THE BOTTOM PORTION OF THE STEEL MAIN. ANTIWEDGE BETWEEN 3 O'CLOCK AND 9 O'CLOCK. THE SOIL BETWEEN THE COUPLING AND THE MAIN SHOULD BE WELL COMPACTED AND CONTAIN NO RODS LARGER THAN A CENTIMETER IN DIAMETER OR FOREIGN DEBRIS. THE ANODE HEATER CABLE OF EACH 18-FOOT ANODE SHOULD BE INSTALLED TO PROTECT THE COUPLING FROM CORROSION. THE ANODE HEATER CABLE SHOULD BE THERMITE WELDED TO THE CARRIER PIPE AT THE BOTTOM OF EACH ANODE. THE ANODE HEATER CABLE SHOULD BE THERMITE WELDED TO THE CARRIER PIPE AT THE BOTTOM OF EACH ANODE. REFER TO CONSTRUCTION STANDARD CS-600 SECTION 4.0 WHICH PROVIDES GENERAL GUIDANCE REGARDING WELDING FOR CORROSION PROTECTION. CS-600 SECTION 4.0.5 DESCRIBES THE BASIC STEPS REQUIRED TO WELD AN ANODE HEATER CABLE.

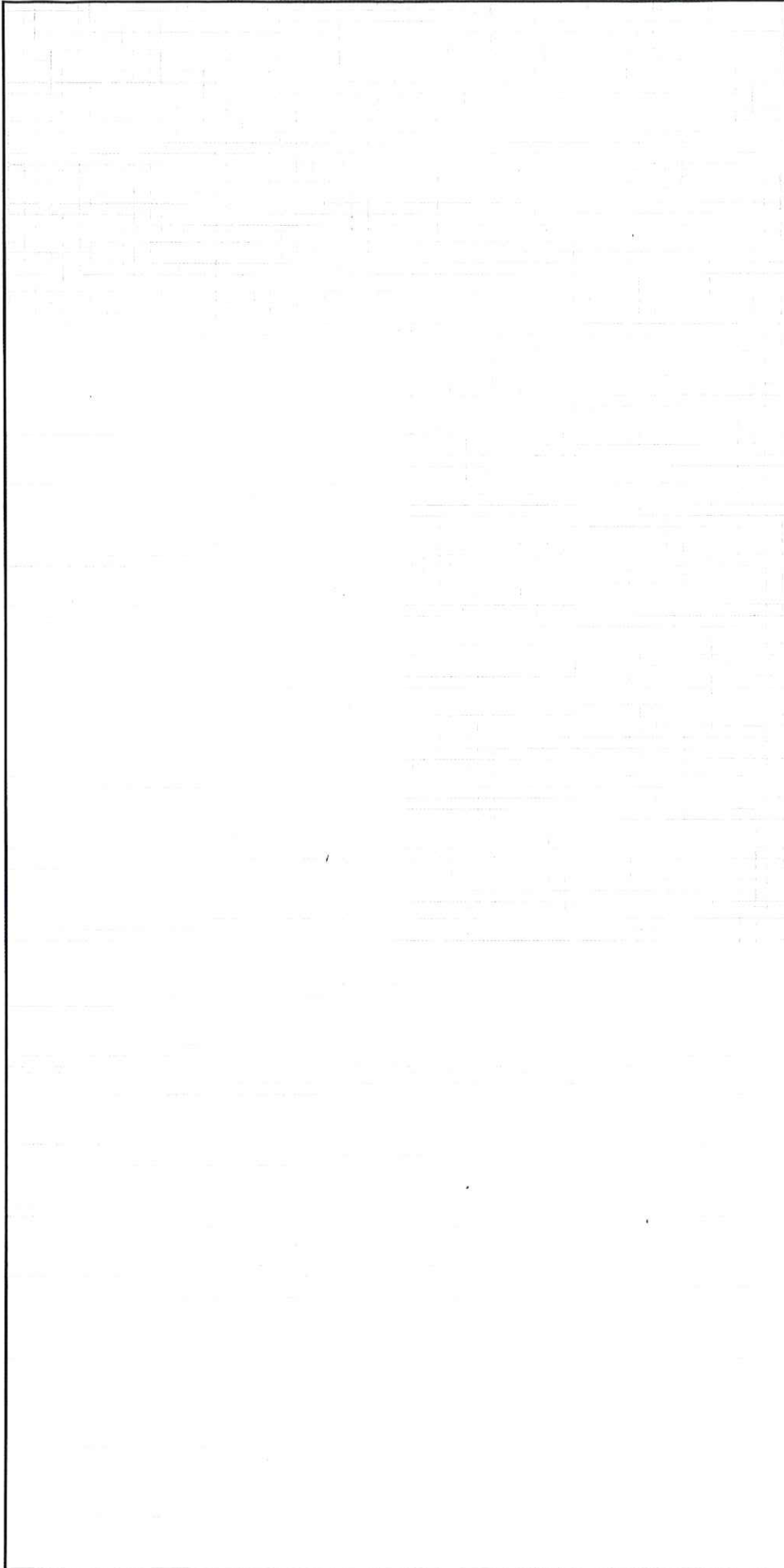
NOTE: WHEN MULTIPLE WIRES FROM DIFFERENT PIPE SECTIONS ARE IN PIPE SECTION AND ASSOCIATED ANODE WILL BE TAPED TOGETHER INSIDE THE TEST STATION.

No.	Description	Date	Drawn
0	ISSUED FOR CONSTRUCTION	05/15/23	KUR/MACM

EVERSOURCE
 ESSEX STREET, ANDOVER, MA
 PROJECT # 1933548
 MA CORROSION DETAILS

SCALE: 1/2" = 1'-0"
 RMR-051523
 SHEET 08 OF 10
 MA-JAN-PP-20-101-08
 0





No.	ISSUED FOR CONSTRUCTION	Description	Date	Dwg/Chk
0	ISSUED FOR CONSTRUCTION		05/15/23	KWR/MCM

EVERSOURCE
 ESSEX ST. ANDOVER ENERGY
 PROJECT # 230248R
 BLANK GRIDDED SHEET

SCALE: 10 OF 10
 SHEET NUMBER: 10 OF 10
 PROJECT NUMBER: MA-AM-PIP-23-01-10

FIELD VERIFY DIMENSIONS
 PRIOR TO PIPE FABRICATION

CAMPOS EPC
 6 Columbia Drive, Amherst, NH 03031
 (603) 497-7150

ISSUED FOR CONSTRUCTION