



CITY COUNCIL

City Clerk's Office 3/25/2025 3:30:00 PM

Joint Meeting Agenda~

I hereby notify you that the following items of business have been filed with this office and can be acted upon at the meeting of the City Council **Tuesday March 25, 2025** at 03:30 PM.

City Clerk

Joint Maintenance & Development and Economic Development

3:30 PM Meeting called to order on March 25, 2025 at Hybrid Room 200, 36 Court Street, Springfield, MA.

Public Portion

Petitions

- (1.) EVERSORCE - Memorial Dr.
- (2.) EVERSOURCE- Sumner Ave.
- (3.) Eversource - Commonwealth Ave.
- (4.) EVERSOURCE -Page Blvd.
- (5.) EVERSOURCE -Westford Cir



City Council
36 Court Street
Springfield, MA 01103

Meeting: 03/25/25 03:30 PM
Department: Department of Public Works
Category: General
Prepared By: Hector Velez
Initiator: Hector Velez
Sponsors:
DOC ID: 8506

TABLED

PETITION (ID # 8506)

EVERSOURCE - Memorial Dr.

ORDER FOR LOCATION OF UNDERGROUND CONDUIT

WHEREAS The Board of Public Works, to which was referred the petition Memorial Dr. of Eversource Electric Company dated December 16, 2024, to install 3PH Primary Riser and 4" conduits at Pole 1940/8 to intercept the existing duct bank to MH 1359/73M on Memorial Dr.

WHEREAS, said petition Memorial Dr. was referred to the Board of Public Works on December 16, 2024; and

WHEREAS, On January 8, 2025, a Notice of a Public Hearing on 30 Memorial Dr., to be held on February 13, 2025, was sent by mail, to all property owners abutting an affected road, various Departments, Utility Companies, etc before the day of the hearing and posted on two public bulletin board a copy of which is attached a hearing of the Board of Public Works was held as scheduled on-site with the petitioner and interested parties.

WHEREAS, on February 13, 2025, the Board of Public Works reported thereon that, after careful consideration of the petition Memorial Dr. to install 3PH Primary Riser and 4" conduits at Pole 1940/8 to intercept the existing duct bank to MH 1359/73M on Memorial Dr. to upgrade future service in the area. All are shown on a plan attached entitled:

EVERSOURCE, Memorial Dr.

Consisting of one (1) sheet, which plan is incorporated herein by reference and is on file in the office of the Engineering Division of the Department of Public Works, Springfield, Massachusetts.

WHEREAS, the petition Memorial Dr. came before the City Council for a Public Hearing on this date,

NOW, THEREFORE, BE IT ORDERED:

1. That due care for public safety is exercised during construction including but not limited to the use of a police officer(s) for traffic control if necessary.
2. That said construction would not unnecessarily interfere with the movement of vehicular or pedestrian traffic in the area.

3. That care be taken during said construction not to damage any underground services.
4. That the construction site be returned to the same condition as found or better.
5. Said company shall indemnify and save harmless against all damages, costs, and expenses whatsoever to which the City may be subjected in consequence of the acts or neglect of said Company, its agents or servants, or in any manner arising from the rights and privileges granted it by the City.
6. In addition, said company shall, before a public way is disturbed for the laying of its wire or conduit, execute its bond in the penal sum of Ten Thousand Dollars (\$10,000) conditioned for the faithful performance of its duties under this permit.
7. Said company shall comply with the requirements of existing Ordinances and orders and comply with any changes in Ordinances and orders as may hereafter be adopted by the Mayor and Council governing the construction and maintenance of buried cable, conduits, and wires.
8. Any sidewalks that are damaged or removed will be replaced in kind and accordance with the City of Springfield's Standard Specifications.
9. Ramps for the handicapped will be provided if and where required by law and in conformance with the Rules and Regulations of the Massachusetts Architectural Barrier Board.
10. Any curbing that is disturbed during construction will be reset to the established street grade using proper construction procedures.
11. That all proposed silo, manhole, and hexhole covers will conform to and be compatible with established street, treebelt, or sidewalk grades with suitable non-skid covers when in the sidewalk area.
12. The Springfield Water and Sewer Commission be notified before construction begins. All installations of adjacent utilities must be a minimum of 4 feet from the existing water and/or sewer main, edge to edge of pipe.
13. That asphalt trench restoration be done in accordance with the City of Springfield DPW requirements.
14. That all conditions outlined in the respective order are complied with.

Petition (ID # 8506)

Meeting of March 25, 2025

HISTORY:

03/10/25 **City Council**

REFER TO COMMITTEE

Next: 03/25/25

SENT TO MAINTENANCE AND ECONOMIC DEVELOPMENT COMMITTEES

CITY OF SPRINGFIELD, MASSACHUSETTS

Date: February 13, 2025

TO THE MAYOR AND CITY COUNCIL OF THE CITY OF SPRINGFIELD:

The Board of Public Works, to which was referred the petition Memorial Dr. of Eversource Electric Company dated December 16, 2024, to install 3PH Primary Riser and 4” conduits at Pole 1940/8 to intercept the existing duct bank to MH 1359/73M on Memorial Dr. to upgrade future service in the area, all as substantially shown on a plan attached referred to Memorial Dr., which is incorporated herein by reference and to lay and maintain underground laterals, cables, and wires in the above or intersecting public ways for distributing purposes, reports thereon as follows:

By virtue of Chapter 708 of the Acts of 1977, the Board of Public Works held the hearing on the above matter provided for in Section 22 of Chapter 166 of the General Laws. The hearing was held on February 13, 2025, at 3:30 P.M. at the corner of Memorial Dr. and Roosevelt Street in Springfield, MA two (2) members of the Board and one (1) persons interested in the matter were present. Of the latter, one (1) voted in favor and no one (0) voted against.

The Board considers the request necessary to upgrade service on the Memorial Dr. area.

After careful consideration, the Board recommends the petition be granted provided:

That due care for public safety is exercised during construction including but not limited to the use of a police officer(s) for traffic control if necessary.

That said construction would not unnecessarily interfere with the movement of vehicular or pedestrian traffic in the area.

That care be taken during said construction not to damage any underground services.

That the construction site be returned to the same condition as found or better.

Said company shall indemnify and save harmless against all damages, costs, and expenses whatsoever to which the City may be subjected in consequence of the acts or neglect of said Company, its agents or servants, or in any manner arising from the rights and privileges granted it by the City.

In addition, said company shall, before a public way is disturbed for the laying of its wire or conduit, execute its bond in the penal sum of Ten Thousand Dollars (\$10,000) conditioned for the faithful performance of its duties under this permit.

Said company shall comply with the requirements of existing Ordinances and orders and comply with any changes in Ordinances and orders as may hereafter be adopted by the Mayor

Attachment: Memorial Dr. Report (8506 : EVERSOURCE - Memorial Dr.)

and Council governing the construction and maintenance of buried cable, conduits, and wires.

Any sidewalks that are damaged or removed will be replaced in kind and accordance with the City of Springfield's Standard Specifications.

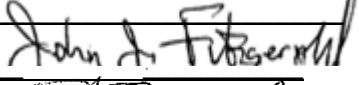
Ramps for the handicapped will be provided if and where required by law and in conformance with the Rules and Regulations of the Massachusetts Architectural Barrier Board.

Any curbing that is disturbed during construction will be reset to the established street grade using proper construction procedures.

That due care be exercised not to unnecessarily damage any public shade trees located within the construction area.

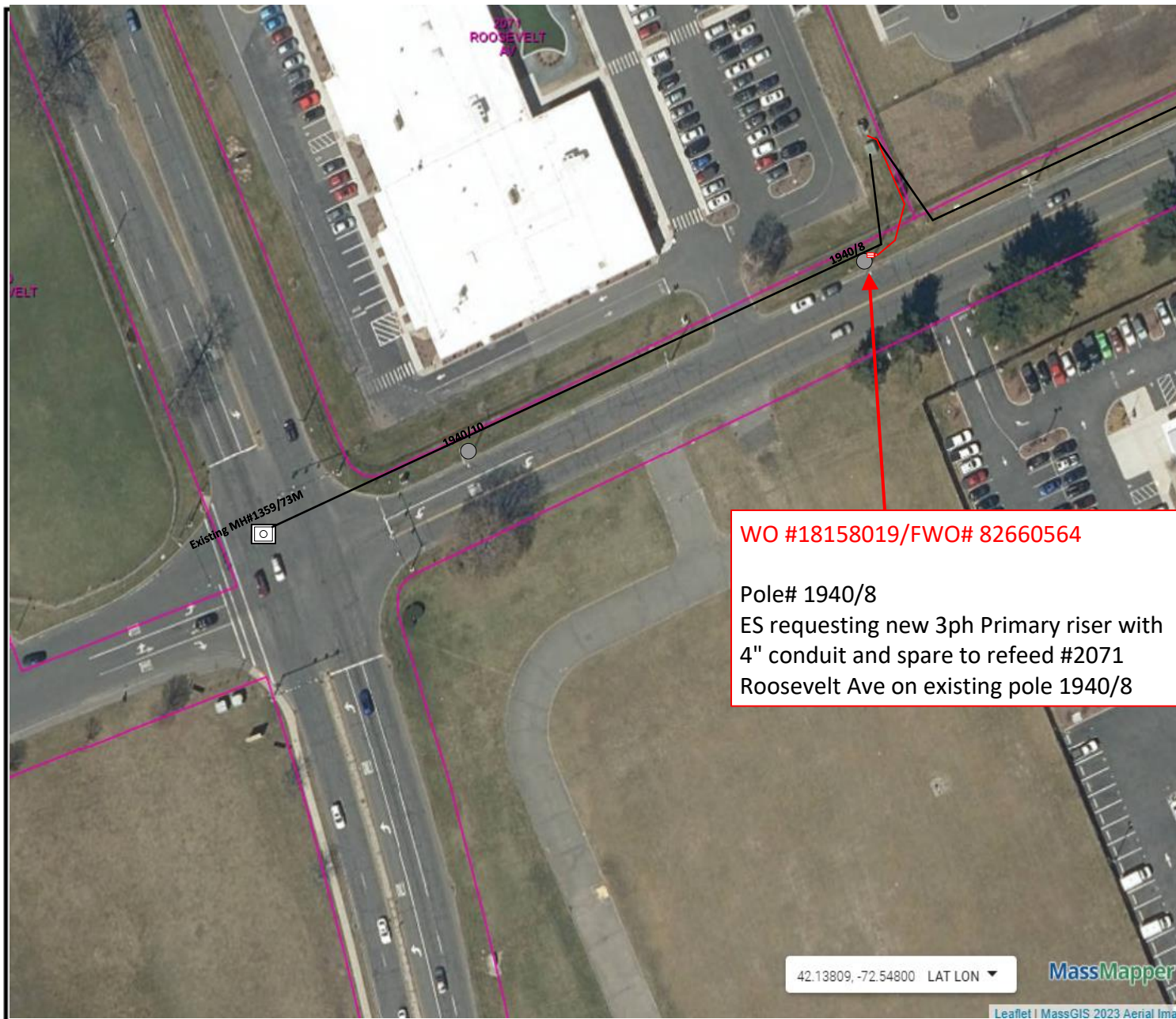
The Springfield Water and Sewer Commission be notified before construction begins. All installations of adjacent utilities must be a minimum of 4 feet from the existing water and/or sewer main, edge to edge of pipe.

That all conditions set forth in the respective order are complied with.





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 BOARD OF PUBLIC WORKS



WO #18158019/FWO# 82660564

Pole# 1940/8

ES requesting new 3ph Primary riser with 4" conduit and spare to refeed #2071 Roosevelt Ave on existing pole 1940/8

Purpose and Description: Eversource is requesting Permission to install 3ph Primary riser and 2x4" conduits within Town taking to Re-feed Service to 2071 Roosevelt Ave from the OH Pole 1940/8; This work is part of a larger effort to improve reliability to Memorial Dr by moving all remaining customers to the OH pole line and creating a backup tie for the whole pole line. (older known faulty UG equipment will be removed as part of this effort)

LEGEND

- PROPOSED JOINT POLE
- PROPOSED EVERSOURCE POLE
- EXISTING JOINT POLE
- EXISTING EVERSOURCE POLE
- EXISTING EVERSOURCE POLE TO BE JOINT
- EXISTING FOREIGN POLE TO BE JOINT
- PROPOSED PAD MOUNT TRANSFORMER
- EXISTING PAD MOUNT TRANSFORMER
- EXISTING MANHOLE
- UG EXISTING CONDUIT
- UG PROPOSED CONDUIT
- PROPOSED HANDHOLE
- EXISTING HANDHOLE
- ANCHOR
- PROPOSED SILO
- EXISTING SILO
- HEXHOLE

PROPRIETARY INFORMATION:

THE INFORMATION ON THIS MAP SHALL BE CONSIDERED PROPRIETARY TO EVERSOURCE AND THE USER (WHICH SHALL BE DEFINED AS ANY PERSON OR ENTITY WHO HAS RECEIVED THE MAP THROUGH SALE, PURCHASE, EXCHANGE, GIFT OR OTHERWISE) SHALL KEEP IT IN CONFIDENCE AND SHALL NOT FURNISH OR DISCLOSE IT TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN PERMISSION OF EVERSOURCE UTILITIES.

EVERSOURCE

Pg 2 of 2

Petition Map

Address: Memorial Dr, Springfield Ma

Scale: NTS

Date: 11/15/2024

Circuit: 5J9/5J14B

Voltage: 13.8KV

WO# 18158019

FWO# 82660564

PETITION TO INSTALL AND MAINTAIN UNDERGROUND LINES FOR THE TRANSMISSION OF ELECTRICITY

To the Select Board of the City of Springfield, Massachusetts.

WESTERN MASSACHUSETTS ELECTRIC COMPANY prays that after due notice and a hearing as provided by the law it may be granted permission to install and maintain below the surface of the ground in the public way hereinafter named, a line or lines for the transmission of electricity consisting of conduits located as shown upon the plan filed herewith and made a part hereof together with the necessary wires, cables, transformers, switches, protective devices and other appurtenances, and likewise the manhole and vault construction connected with said lines as indicated by said plan marked:

The following is the public way above referred to:

Location: The area of Memorial Dr. Springfield, MA.

Reason: Eversource is requesting permission to install Eversource is requesting permission to install 3PH Primary Riser and 4" conduits at Pole 1940/8 to intercept the existing duct bank to MH 1359/73M. The purpose of this work is to improve reliability by creating a backup tie to feed Memorial Dr overhead line during emergencies.

Drawing # 8262437

Also, for permission to lay and maintain underground laterals, cables, and wires in the above or intersecting public ways for the purpose of making connections with such poles and buildings as it may desire for distributing purposes.

WESTERN MASSACHUSETTS ELECTRIC COMPANY

By Kevin Bournival
Kevin Bournival, Senior Engineering Designer
Phone #413-787-9228

Dated this 16th day of December 2024

Attachment: Memorial Dr. Springfield, MA - UG Petition (8506 : EVERSOURCE - Memorial Dr.)



City Council
36 Court Street
Springfield, MA 01103

Meeting: 03/25/25 03:30 PM
Department: Department of Public Works
Category: General
Prepared By: Hector Velez
Initiator: Hector Velez
Sponsors:
DOC ID: 8505

TABLED

PETITION (ID # 8505)

EVERSOURCE- Sumner Ave.

ORDER FOR LOCATION OF UNDERGROUND CONDUIT

WHEREAS, The Board of Public Works, to which was referred the petition of Eversource-Gas to install underground gas facilities in Forest Park Neighborhood in Springfield to install medium-pressure and retire low-pressure cast iron gas infrastructure.

WHEREAS, said petition Sumner Ave. was referred to the Board of Public Works on December 12, 2024; and

WHEREAS, On January 23, 2025, a Notice of a Public Hearing on Sumner Ave. to be held on February 11, 2025, was sent by mail, to all property owners abutting an affected road, various Departments, Utility Companies, etc before the day of the hearing and posted on two public bulletin board a copy of which is attached a hearing of the Board of Public Works was held as scheduled on-site with the petitioner and interested parties.

WHEREAS, on February 11, 2025, the Board of Public Works reported thereon that, after careful consideration of the petition to install underground gas facilities on Kenwood Terrace two (2") inches of pipe from Sumner Ave., running northerly direction four hundred fifty (450) feet, to Belmont Ave. and on Beaumont Street with two (2") inches of pipe from Sumner Ave., running northerly direction approximately three hundred sixty (360) feet, to Belmont Ave; all substantially shown on a plan attached with the project name:

Sumner Ave.

Consisting of twenty-three (23) sheets, which plan is incorporated herein by reference and is on file in the office of the Engineering Division of the Department of Public Works, Springfield, Massachusetts.

WHEREAS, the petition Commonwealth Ave. came before the City Council for a Public Hearing on this date.

NOW, THEREFORE, BE IT ORDERED:

1. That due care for public safety is exercised during construction including but not limited to the use of a police officer(s) for traffic control if necessary.

2. That said construction would not unnecessarily interfere with the movement of vehicular or pedestrian traffic in the area.
3. That care be taken during said construction not to damage any underground services.
4. That the construction site be returned to the same condition as found or better.
5. Said company shall indemnify and save harmless against all damages, costs and expenses whatsoever to which the City may be subjected in consequence of the acts or neglect of said Company, its agents or servants, or in any manner arising from the rights and privileges granted it by the City.
6. In addition, said company shall, before a public way is disturbed for the laying of its wire or conduit, execute its bond in the penal sum of Ten Thousand Dollars (\$10,000) conditioned for the faithful performance of its duties under this permit.
7. Said company shall comply with the requirements of existing Ordinances and orders and comply with any changes in Ordinances and orders as may hereafter be adopted by the Mayor and Council governing the construction and maintenance of buried cable, conduits, and wires.
8. Any sidewalks that are damaged or removed will be replaced in kind and in accordance with the City of Springfield's Standard Specifications.
9. Ramps for the handicapped will be provided if and where required by law and in conformance with the Rules and Regulations of the Massachusetts Architectural Barrier Board.
10. Any curbing that is disturbed during construction will be reset to the established street grade using proper construction procedures.
11. That all proposed silo, manhole, and hex-hole covers will conform to and be compatible with an established street, tree belt, or sidewalk grades with suitable non-skid covers when in the sidewalk area.
12. The Springfield Water and Sewer Commission be notified before construction begins. All installations of adjacent utilities must be a minimum of 4 feet from the existing water and/or sewer main, edge to edge of the pipe.
13. That asphalt trench restoration be done in accordance with the City of Springfield DPW requirements.

- 14.** That all conditions outlined in the respective order are complied with.

HISTORY:**03/10/25 City Council****REFER TO COMMITTEE****Next: 03/25/25**

SENT TO MAINTENANCE AND ECONOMIC DEVELOPMENT COMMITTEES



Honorable Mayor and City Council
 City of Springfield
 City Hall
 Court Street
 Springfield, MA 01103

ATTN: Mr. Anthony Wilson, City Clerk

PROJECT NAME: 453 Sumner Ave – GSEP

Ladies & Gentlemen:

Eversource Gas of Massachusetts (EGMA) hereby requests that it be granted a location for and permission to install underground gas facilities within a section of the Sumner Ave neighborhoods (as seen in the attached plan). Work will extend to the following streets in varying degrees/durations:

<u>Street Name</u>	<u>From</u>	<u>To</u>
Kenwood Terrace	Sumner Ave	Belmont Ave
Beaumont St	Sumner Ave	Belmont Ave
Forest Park Information Center	Sumner Ave	Forest Park Information Center

This Project will introduce modernized high-density polyethylene gas infrastructure to the area, and retire aged cast iron gas infrastructure. All proposed work by EGMA will include such laterals and service connections as it may now or subsequently find necessary.

Sincerely,

Matthew Nichols

Matthew Nichols
 Engineer
 Eversource Gas of Massachusetts
 2025 Roosevelt Avenue
 Springfield, MA 01104
 Cell: 781-490-3039
 Email: matthew.nichols@eversource.com

Attachment: 453 Sumner Ave - Springfield City Council Letter (8505 : EVERSOURCE- Sumner Ave.)

TABLE OF CONTENTS

SHEET #	TITLE
01 OF 23	COVER SHEET
02 OF 23	NOTES
03 OF 23	LEGEND
04 OF 23	PROJECT LOCATION PLAN
05 OF 23	PROJECT LOCATION PLAN
06 OF 23	PROJECT LOCATION PLAN
07 OF 23	PROJECT LOCATION PLAN
08 OF 23	PROJECT LOCATION PLAN
09 OF 23	PROJECT LOCATION PLAN
10 OF 23	MA PREPARATORY AND FINAL TIE-IN DETAILS
11 OF 23	MA PREPARATORY AND FINAL TIE-IN DETAILS
12 OF 23	MA PREPARATORY AND FINAL TIE-IN DETAILS
13 OF 23	MA PREPARATORY AND FINAL TIE-IN DETAILS
14 OF 23	MA PREPARATORY AND FINAL TIE-IN DETAILS
15 OF 23	MA PREPARATORY AND FINAL TIE-IN DETAILS
16 OF 23	MA PREPARATORY AND FINAL TIE-IN DETAILS
17 OF 23	MA PREPARATORY AND FINAL TIE-IN DETAILS
18 OF 23	MA PREPARATORY AND FINAL TIE-IN DETAILS
19 OF 23	MA PREPARATORY AND FINAL TIE-IN DETAILS
20 OF 23	MA CORROSION DETAILS (1 OF 3)
21 OF 23	MA CORROSION DETAILS (2 OF 3)
22 OF 23	MA CORROSION DETAILS (3 OF 3)
23 OF 23	BLANK GRIDDED SHEET



WORK SCOPE

PROJECT SUMMARY TABLE				
INSTALLATION INFORMATION				
Work Type	LENGTH (FT)	SIZE (IN)	MAOP	MATERIAL
INSTALL	1,159'	2"	60 PSIG	HDPE
INSTALL	50'	8"	60 PSIG	HDPE
INSTALLATION TOTAL				1,209'
UPRATE/RETEST TOTAL				0'

PROJECT SUMMARY TABLE			
ABANDONMENT INFORMATION			
LENGTH (FT)	SIZE (IN)	MAOP	ABANDONMENT CLASS
454'	4"	14" WC	CI-(GSEP)
2,081'	6"	14" WC	CI-(GSEP)
1,529'	6"	14" WC	Plastic (Non-GSEP)
94'	8"	60 PSIG	Plastic (Non-GSEP)
GSEP ABANDONMENT SUBTOTAL			2,535'
NON-GSEP ABANDONMENT SUBTOTAL			1,623'
ABANDONMENT TOTAL			4,158'

ISSUED FOR REVIEW



215 GREENFIELD PKY | Suite 102 | LIVERPOOL, NY 13088



Know what's below.
Call before you dig.

FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

B	REVISED PER EGMA COMMENT	12/13/24	KMQ/DD
A	ISSUED FOR REVIEW	11/18/24	KMQ/DD
No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
453 SUMNER AVE - ENCROACHMENT, SPRINGFIELD, MA			
PROJECT # 25EG095 / WORK ORDER # 19253953			
COVER SHEET			
SCALE: 1"=30' ON 22"X34"		SHEET 01 OF 23	
Drawn by / Date		Checked by / Date	
KMQ / 11/11/2024		DD / 11/15/2024	
Drawing Number		Rev. No.	
MA-SPR-PIP-24-294-01		B	

453 SUMNER AVE - ENCROACHMENT, SPRINGFIELD, MA
PROJECT #25EG095
WORK ORDER #19253953

453 Sumner Ave - Encroachment - Pro Drawing Rev0.dwg

EGMA DRAWING TEMPLATE - 02-28-2023

C:\Users\kquinton\AppData\Local\Temp\AcPublish_21360

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.D.
- A.

CONSTRUCTION DRAWINGS, LOCATIONS OF EXISTING UTILITIES, UNDERGROUND STRUCTURES AND WORK LOCATIONS ARE BASED ON BEST AVAILABLE INFORMATION BUT HAVE NOT BEEN FIELD VERIFIED.
- B.

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.
- C.

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.
- D.

EXCAVATOR IS REQUIRED TO PROTECT EXISTING UTILITIES, STRUCTURES, LANDSCAPES FEATURES, SIGNAGE, CURBS, ETC. CARE SHOULD BE TAKEN NOT TO DISTURB OR DAMAGE SUCH ITEMS. ROADWAY, SIDEWALKS, AND GRASS DISTURBED SHALL BE RESTORED TO THE SATISFACTION OF THE CITY OR TOWN. PLANT BEDS WILL BE RELOCATED TO THEIR EXISTING REGULAR LOCATION.
- E.

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.

DRAWING NOTES:

- A.

THE BASIS OF BEARING FOR ALL DRAWING SHEETS IS AN APPROXIMATED NORTH AMERICAN HORIZONTAL DATUM OF 1983 (NAD83).
- B.

THE BASIS OF ANY ELEVATIONS INCLUDED ON ALL DRAWING SHEETS IS AN APPROXIMATED NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- C.

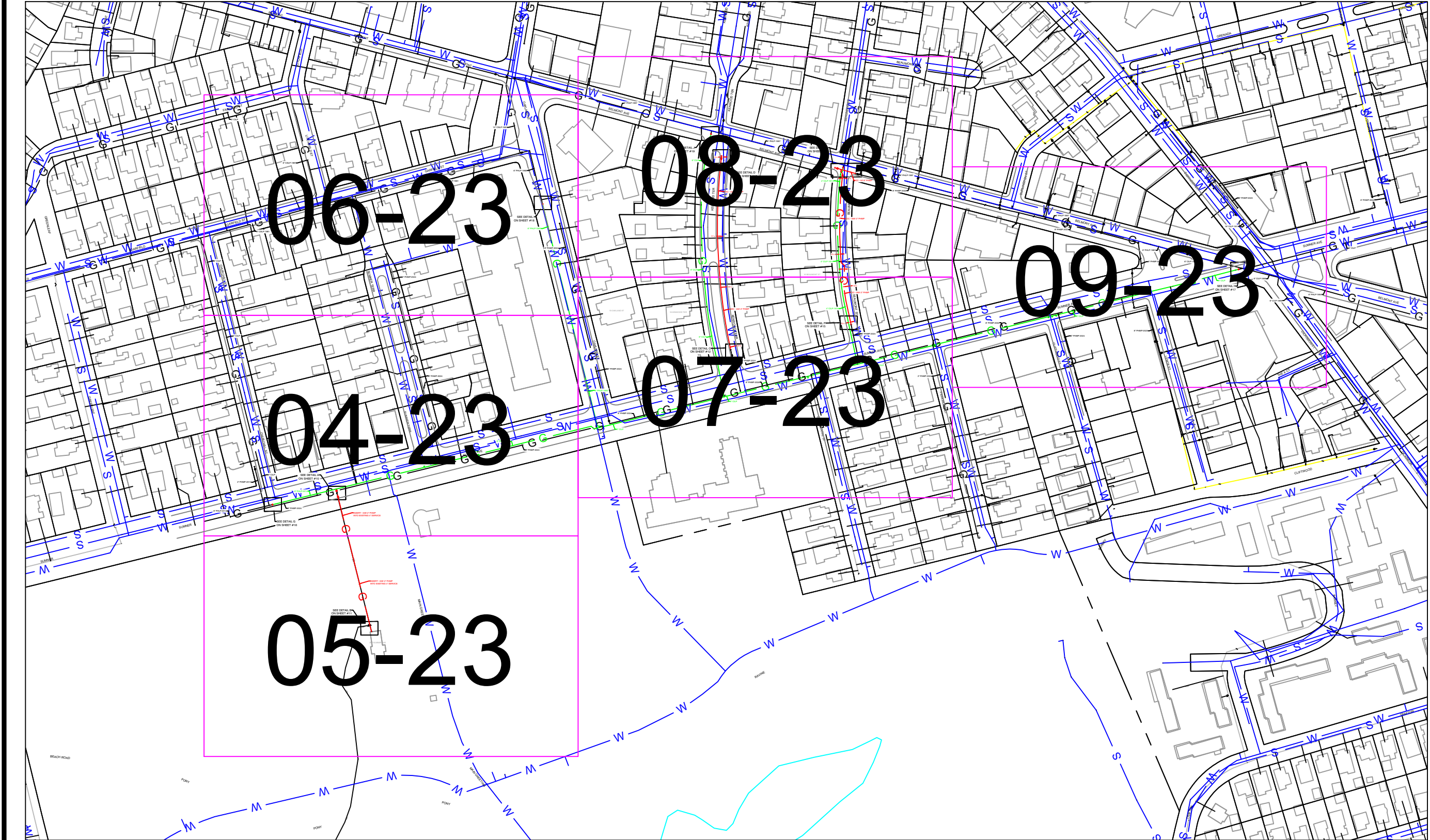
NORTH DIRECTION INCLUDED ON ALL DRAWING SHEETS DEPICTS "TRUE NORTH" IN THE NORTH AMERICAN HORIZONTAL DATUM OF 1983 (NAD83) AND IS APPROXIMATE ONLY.
- D.

PROPERTY LINE AND PUBLIC RIGHT-OF-WAY INFORMATION INCLUDED ON ALL DRAWING SHEETS IS TAKEN FROM MASSGIS AND IS APPROXIMATE ONLY.
- E.

UNDERGROUND AND OVERHEAD UTILITY INFORMATION INCLUDED ON ALL DRAWING SHEETS IS TAKEN FROM EVERSOURCE ENERGY GIS AND/OR RECORD INFORMATION SUPPLIED BY UTILITY PROVIDERS AND IS APPROXIMATE ONLY.
- F.

THE LOCATION OF ALL EXISTING UTILITIES INCLUDED ON ALL DRAWING SHEETS SHALL BE FIELD VERIFIED IT IS NOTED THAT ADDITIONAL UTILITY INFRASTRUCTURE MAY EXIST.
- G.

MASSACHUSETTS STATE LAW REQUIRES 72 HOURS ADVANCE NOTICE TO UTILITY COMPANIES BEFORE DIGGING BY ANYONE. CALL DIG SAFE: 811 .



OVERVIEW KEY MAP
NOT TO SCALE

ISSUED FOR REVIEW

453 SUMNER AVE, SPRINGFIELD			COMPLETE BOM	
REQUIRED BILL OF MATERIALS				
Item Number	Maximo Part Number	Description	Quantity	Units
1660	602892	FITTING,TEE, 2 IN IPS X 1 IN IPS, ELECTROFUSION, HDPE, WITH BUTT FUSION OUTLET, HDPE, BLACK, ASTM F1055	4	EA
1661	602894	FITTING,TEE, 4 IN IPS X 1 IN IPS, ELECTROFUSION, WITH BUTT FUSION OUTLET, HDPE, BLACK, ASTM F1055	1	EA
44	604132	BOX VALVE, W/ 5-1/4 IN SQ NON-LOCKING LID, FOR 8 IN FULL PORT VALVES, PAVEMENT RISER IN 583488. 6/BOX	1	EA
43	610062	BOX VALVE, EXTENTION, 18 X 24 IN LONG, CMA 4232860	1	EA
238	610399	FITTING,CAP, LINE, INSULATED, 6 IN, 6.90 IN OD, CI, W/ ANODE, FOR CI PIPE, CMA 21128001	2	EA
90	610757	FITTING,CAP, END, LYCOFIT, 1/2 IN CTS X 0.090 IN THK WALL, PLASTIC, CMA 750823	13	EA
92	610763	FITTING,CAP, END, LYCOFIT, 2 IN IPS, PLASTIC, SDR 11, CMA 750830	5	EA
98	610764	FITTING,COUPLING, PIPE, LYCOFIT, 1/2 IN CTS X 0.090 IN WALL THK, PLASTIC, CMA 21658100	13	EA
99	610772	FITTING,COUPLING, REPAIR, LYCOFIT, 2 IN IPS, PLASTIC, SDR 11, CMA 21658101	5	EA
47	611123	BOX, CP TEST, 5 IN, 18 IN SHAFT LENGTH, TERMINAL PLATE WALL THK 0.150 + - 0.015, ABS PLASTIC, W/ NON-LOCKING MAGNETIZED COVER, CMA 4232849	4	EA
1656	620089	FITTING,COUPLING, PIPE, LYCOFIT, 1 IN IPS SDR11, PLASTIC	5	EA
1653	620808	FITTING,CAP, LYCOFIT, 1 IN IPS SDR 11, PLASTIC, ASTM F1924	4	EA

453 SUMNER AVE, SPRINGFIELD			COMPLETE BOM	
REQUIRED BILL OF MATERIALS				
Item Number	Maximo Part Number	Description	Quantity	Units
38	500705	VALVE,BALL, 8 IN IPS, POLYETHYLENE, SDR11, BUTT WELD, W/ FULL PORT OPENING, BLACK FINISH	1	EA
15	500854	COUPLING, 2 IN IPS, ELECTROFUSION, HDPE, BLACK, ASTM F1055, GFCP	2	EA
18	500857	COUPLING, 8 IN IPS, ELECTROFUSION, HDPE, BLACK, ASTM F1055, GFCP	1	EA
48	500866	TEE, PIPE, NON-BLOWING, ELECTROFUSION TAPPING TEE 2 IN IPS MAIN X 1/2 IN CTS 0.090 IN THK WALL STAB OUTLET, HDPE, BLACK	2	EA
51	500867	TEE, PIPE, NON-BLOWING, ELECTROFUSION TAPPING TEE 4 IN IPS MAIN X 1/2 IN CTS 0.090 IN THK WALL STAB OUTLET, HDPE, BLACK	1	EA
55	500869	TEE, PIPE, NON-BLOWING, 6 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, POLYETHYLENE, PE3408	7	EA
62	500870	FITTING,TEE, 6 IN IPS X 2 IN IPS, ELECTROFUSION HIGH VOLUME TAPPING WITH BUTT FUSION OUTLET, HDPE, ASTM F1055, BLACK, GFCP	3	EA
377	505818	ANODE,BAG, 2.5 X 2.5 X 4.5 IN, W/ 10 FT SOLID #12 AWG TW ORANGE LEAD WIRE, 3 LB NET, HIGH POTENTIAL MAGNESIUM, PACKED IN COTTON BAGS	3	EA
370	513679	CABLE, INSULATED, MDP, #12 AWG, 7 STR, YELLOW, POLYETHYLENE-30, SOFT DRAWN CU, 500 FT/RL, FOR USED AS PIPE LOCATOR	1159	FT
9	542538	CAP,PIPE, 4 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100	3	EA
10	542539	CAP,PIPE, 6 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100	6	EA
11	542540	CAP,PIPE, 8 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100	2	EA
8	542572	CAP,PIPE, 2 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100	4	EA
230	542982	CLAMP,PIPE, REPAIR, 6 IN CIP, SS, W/1-1/4 NPT TAP, FOR 6.84 - 7.24 IN PIPE	2	EA
7	554010	PIPE, 8 IN IPS X 8-5/8 IN X 0.784 IN THK WALL SDR 11, 40 FT LG, POLYETHYLENE, PE3408/PE100	50	FT
359	554877	PLUG,PIPE, SQUARE HEAD, SOLID, 1-1/4 IN, THREADED END, BLACK IRON, ANSI B1.20.1	2	EA
361	554878	PLUG,PIPE, SQUARE HEAD, SOLID, 2 IN, THREADED END, BLACK IRON, ANSI B1.20.1	6	EA
26	555593	REDUCER,PIPE, 4 X 2 IPS, BUTT ENDS, POLYETHYLENE, P100, SDR11	1	EA
27	555594	REDUCER,PIPE, 6 X 4 IPS, BUTT ENDS, P100, POLYETYLENE, SDR 11	1	EA
28	555596	REDUCER,PIPE, 8 IN X 6 IN IPS SDR 11, BUTT ENDS, POLYETHYLENE, P100	1	EA
32	560681	TEE,PIPE, 8 IN SDR 11, BUTT ENDS, POLYETHYLENE, P100	1	EA
63	560684	FITTING,TEE, 8 IN IPS X 2 IN IPS, ELECTROFUSION HIGH VOLUME TAPPING WITH BUTT FUSION OUTLET, HDPE, ASTM F1055, BLACK, GFCP	3	EA
33	562087	VALVE,BALL, 2 IN IPS, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING	3	EA
368	565814	TAPE,WARNING, MARKED BURIED GAS LINE, 4 MIL, 1000 FT ROLL, 6 IN W, YELLOW, ISSUE EACH ROLL AS 1, T-01-A00,	2	RL
379	577776	ANODE,BAG, 17 LB NET, HIGH POTENTIAL MAGNESIUM, W/ 10 FT #10 AWG TW ORANGE LEAD WIRE, PACKED IN CARDBOARD BOX 42 LB TOTAL WEIGHT	1	EA
232	578022	FITTING,CLAMP, SERVI-SEAL REPAIR, 6 IN DIA, 9 IN LG, W/ 2 IN OUTLET, FOR CAST IRON PIPE	7	EA
58	584713	TEE,PIPE, NON-BLOWING, ELECTROFUSION TAPPING TEE 8 IN IPS MAIN X 1/2 IN CTS 0.090 IN THK WALL STAB OUTLET, HDPE, BLACK	2	EA
3	592668	PIPE, 2 IN IPS SDR 11, 250 FT LG COIL, HDPE PE4710, BLACK, ASTM D2513, 102 PSIG, W/ YELLOW STRIPES, REPLACING ITEMS 554007 AND 554025	1159	FT

B	REVISED PER EGMA COMMENT	12/13/24	KMQ/DD
A	ISSUED FOR REVIEW	11/18/24	KMQ/DD
No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
453 SUMNER AVE - ENCROACHMENT, SPRINGFIELD, MA			
PROJECT # 25EG095 / WORK ORDER # 19253953			
NOTES			
SCALE:1"=30' ON 22"X34"		SHEET 02 OF 23	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
KMQ 11/11/2024	DD 11/15/2024	MA-SPR-PIP-24-294-02	B



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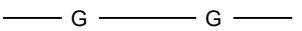


Know what's below.
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FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

DRAWING LEGEND

Gas Main Symbology

REGULATING STATION 50' BOUNDARY	
EXISTING GAS MAIN	
PROPOSED GAS MAIN	
GAS MAIN TO BE ABANDONED	
GAS MAIN WITH SERVICE TRANSFERS	
GAS MAIN WITH PRESSURE INCREASE	
RIGHT-OF-WAY	
ELECTRIC	
WATER LINE	
SEWER LINE	
TELEPHONE	
DRAIN LINE	
FENCE LINE	

Gas Main Material/Pressure Label References

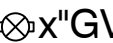
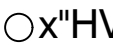
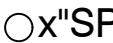
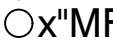
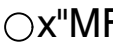
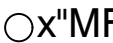
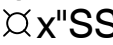
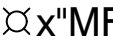
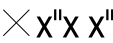
MATERIAL CODES

CS*	Coated Steel Gas Main
CI*	Cast Iron Gas Main
BS*	Bare Steel Gas Main
WI*	Wrought Iron Gas Main
PH*	High Density Polyethylene Gas Main
PM*	Medium Density Polyethylene Gas Main
PRESSURE CODES	
*LP	Low Pressure (<0.5 PSIG or 14" W.C.)
*IP	Intermediate Pressure (>2 PSIG ≤ 10 PSIG)
*MP	Medium Pressure (>10 PSIG ≤ 60 PSIG)
*HP	High Pressure (>60 PSIG)

MISCELLANEOUS CODES

*.SER	Service
*.R	Riser
(TC)	Transmission Class
Gas Main Installation Method Label References	
AT	Attached
BH	Bridge Hanger
BLGH	Building Hanger
DB	Directional Bore
IS	Inserted
OC	Open Cut
PB	Pneumatic Bore
PL	Plowed
RT	Roof Top
(E)	Existing
(P)	Proposed

Gas Facility Symbology

	x"GV	Gas Valve
	x"PV	Critical Gas Valve
		(Gate - GV, Plug - PV, PE Ball - BP, ST Ball - BV)
	x"HVTT	High Volume Tapping Tee
	x"SST	Pressure Control Fitting - ShortStopp Tee
	x"SPH	Pressure Control Fitting - Spherical Tee
	x"MF-BO	Pressure Control Fitting - Mueller Bottom-out
	x"MF-SO	Pressure Control Fitting - Mueller Side-out
	x"MF-FT	Pressure Control Fitting - Mueller Flange Tee
	x"SS	Pressure Control Fitting - ShortStopp
	x"MF	Pressure Control Fitting - Mueller Stopper
	x"x x" POLYTAP	Polytapp Side Saddle Fitting
		Transition
		End Cap
		Riser
		Reducer
	EM	Electronic Marker
	TWS	Flush-mounted Tracer Wire Station
		Post Pipeline Marker with Tracer Wire
	MM	Gas Main Marker without Tracer Wire
	W	Test Well
	R	Regulator Station
	RCR	Single Customer Regulator
	M	Meter
	MR	Meter with Regulator
	TP	Test Point (Station)
	TSO	Gas Service Tie-over
	RSR	Gas Service Replacement
	MMO	Meter Move Out
		Swing Tie Symbology
		Telephone Manhole
		Drain Manhole
		Electric Manhole
		Catch Basis
		Sewer Manhole
		Fire Hydrant
		Utility Pole
		Property Marker
		Telephone Pedestal
		Television Pedestal
		Unknown Manhole
		Water Box
		Water Gate
		Electric Pedestal
		Iron Pin
		Light Pole
		INSIDE METER
		OUTSIDE METER

ISSUED FOR REVIEW



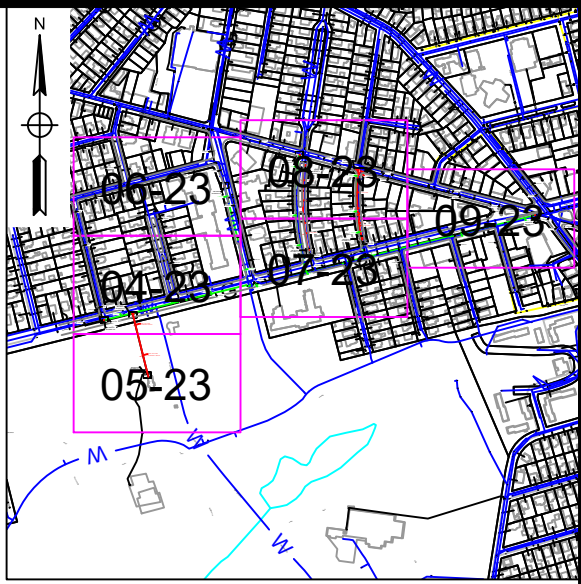
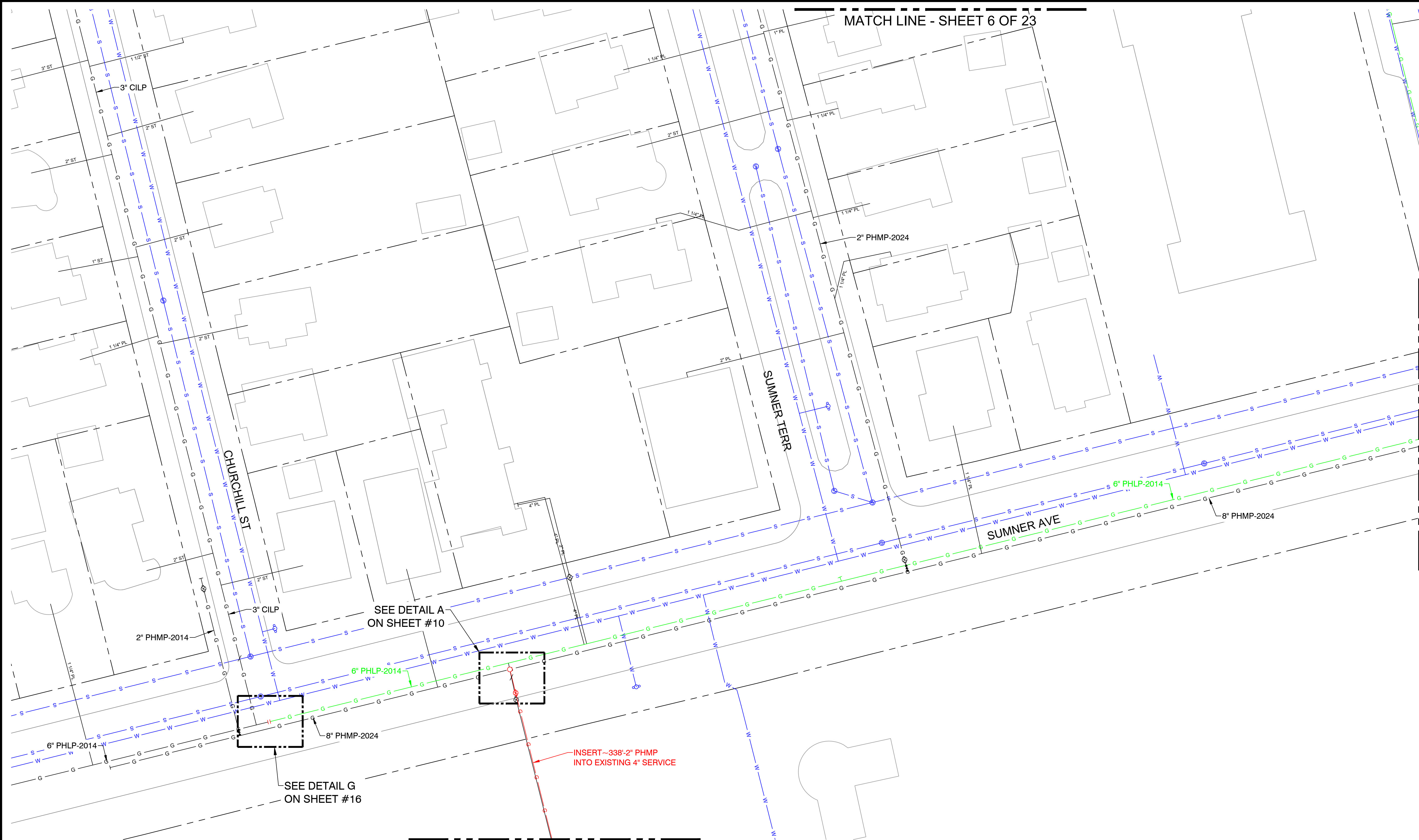
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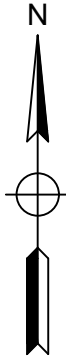
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FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

B	REVISED PER EGMA COMMENT	12/13/24	KMQ/DD
A	ISSUED FOR REVIEW	11/18/24	KMQ/DD
No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
453 SUMNER AVE - ENCROACHMENT, SPRINGFIELD, MA			
PROJECT # 25EG095 / WORK ORDER # 19253953			
LEGEND			
SCALE:1"=30' ON 22"X34"		SHEET 03 OF 23	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
KMQ 11/11/2024	DD 11/15/2024	MA-SPR-PIP-24-294-03	B



KEY MAP
SCALE: N.T.S.



B	REVISED PER EGMA COMMENT	12/13/24	KMQ/DD
A	ISSUED FOR REVIEW	11/18/24	KMQ/DD
No.	Description	Date	Dw/Ck
Revision/Status			

ISSUED FOR REVIEW



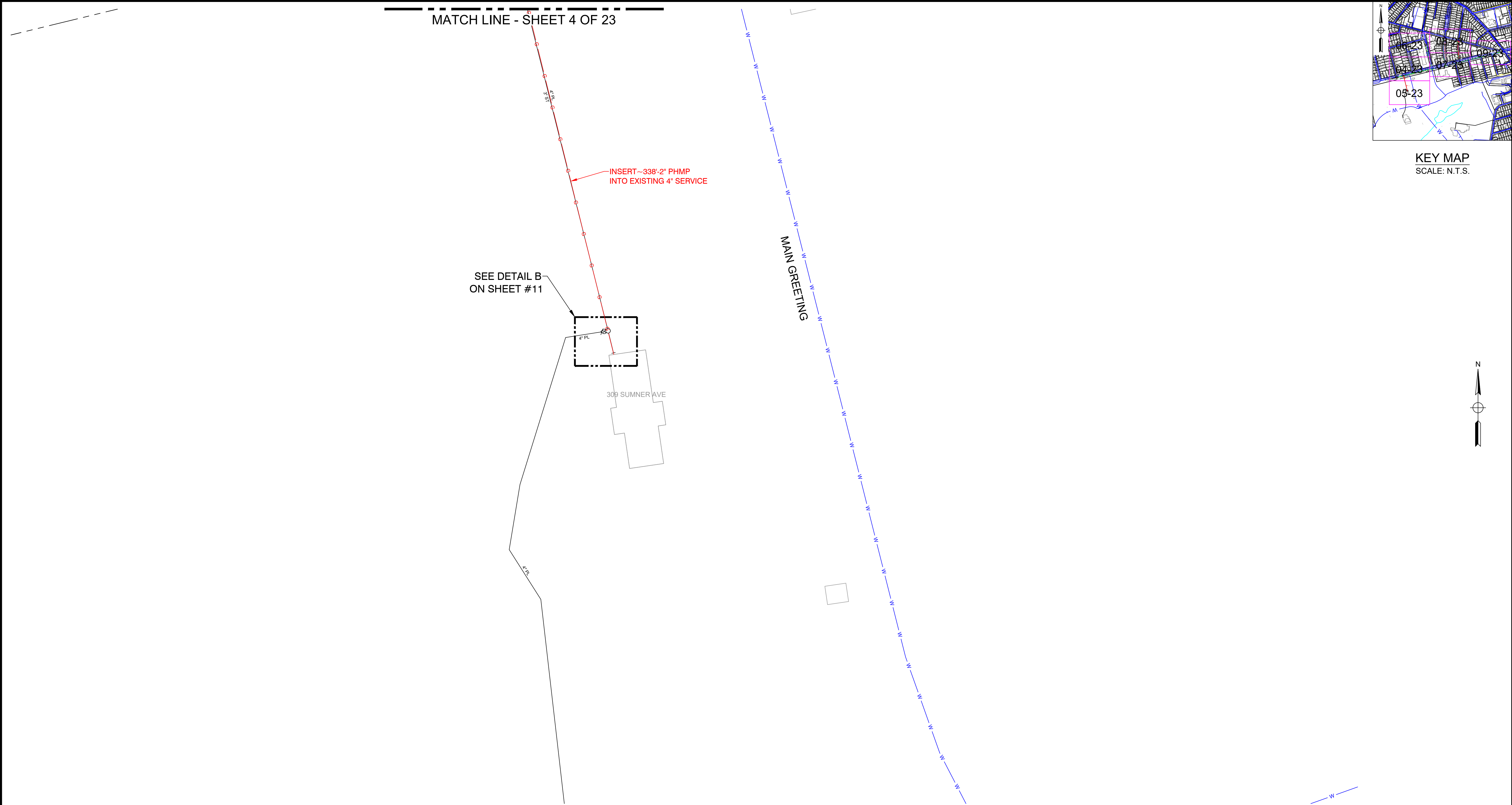
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FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

EVERSOURCE ENERGY			
453 SUMNER AVE - ENCROACHMENT, SPRINGFIELD, MA			
PROJECT # 25EG095 / WORK ORDER # 19253953			
PROJECT LOCATION PLANS			
SCALE: 1"=30' ON 22"X34"		SHEET 04 OF 23	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
KMQ 11/11/2024	DD 11/15/2024	MA-SPR-PIP-24-294-04	B



B	REVISED PER EGMA COMMENT	12/13/24	KMQ/DD
A	ISSUED FOR REVIEW	11/18/24	KMQ/DD
No.	Description	Date	Dw/Ck
Revision/Status			

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FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION



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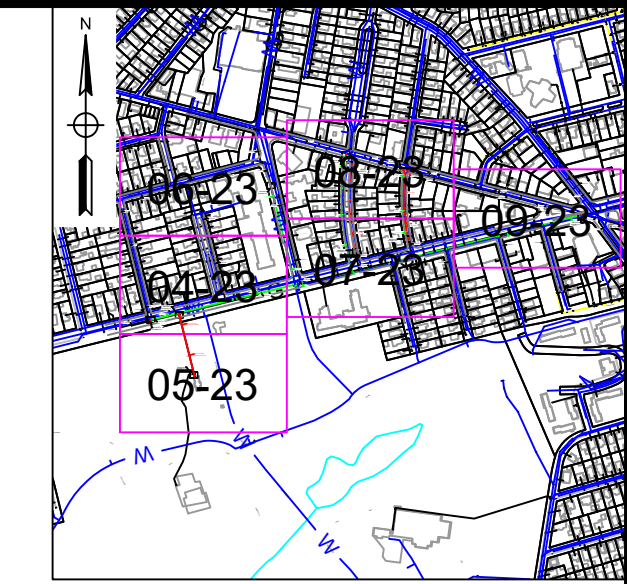
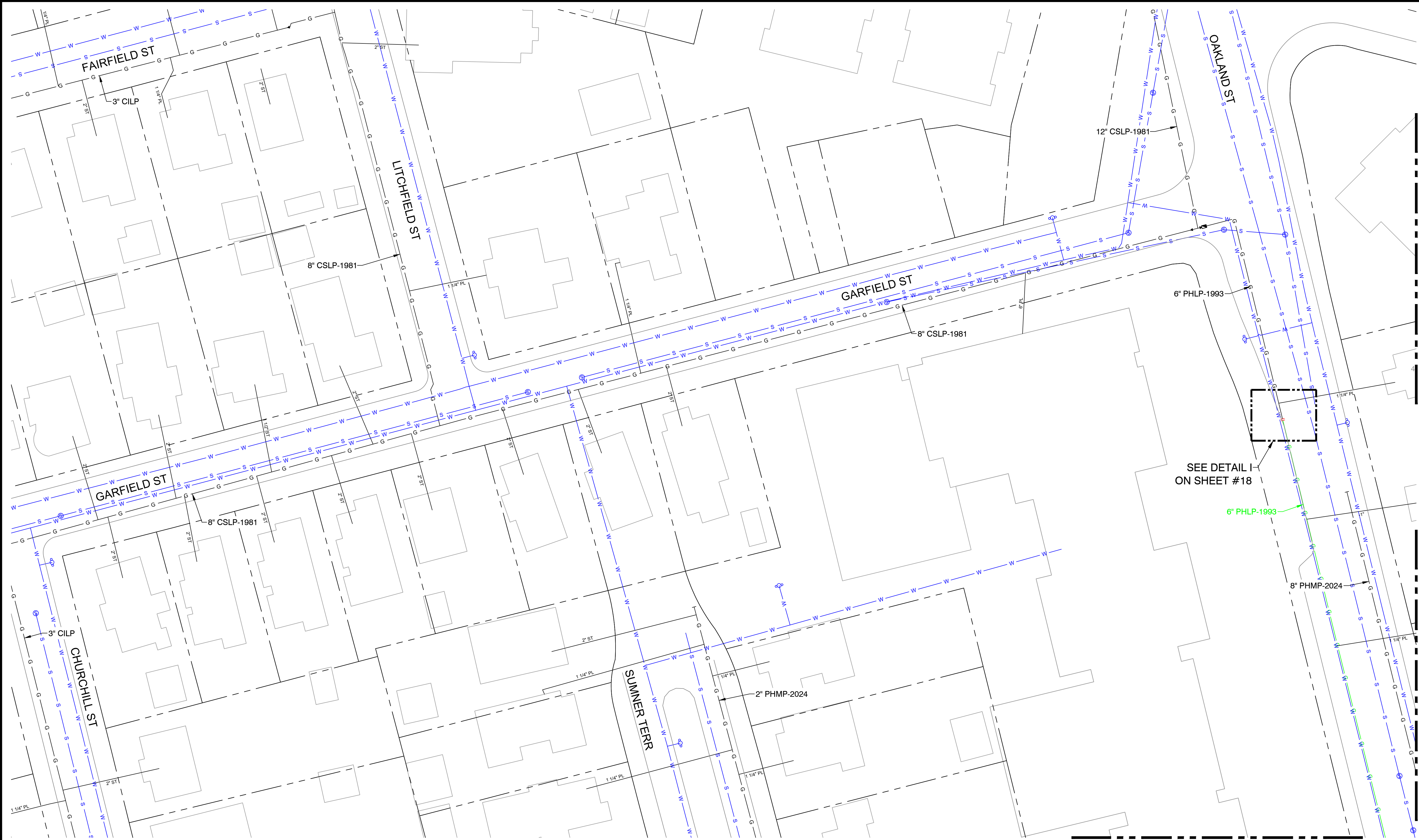
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PROJECT LOCATION PLANS

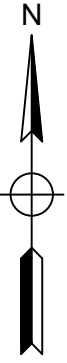
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SHEET 05 OF 23

Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
KMQ 11/11/2024	DD 11/15/2024	MA-SPR-PIP-24-294-05	B



KEY MAP
SCALE: N.T.S.



B	REVISED PER EGMA COMMENT	12/13/24	KMQ/DD
A	ISSUED FOR REVIEW	11/18/24	KMQ/DD
No.	Description	Date	Dw/Ck
Revision/Status			

ISSUED FOR REVIEW



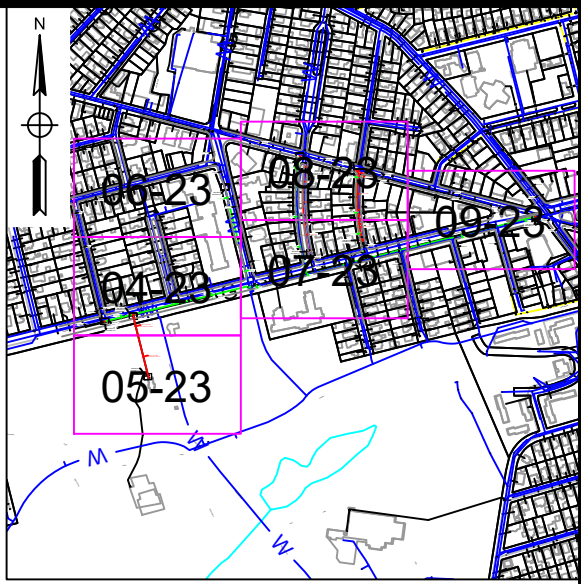
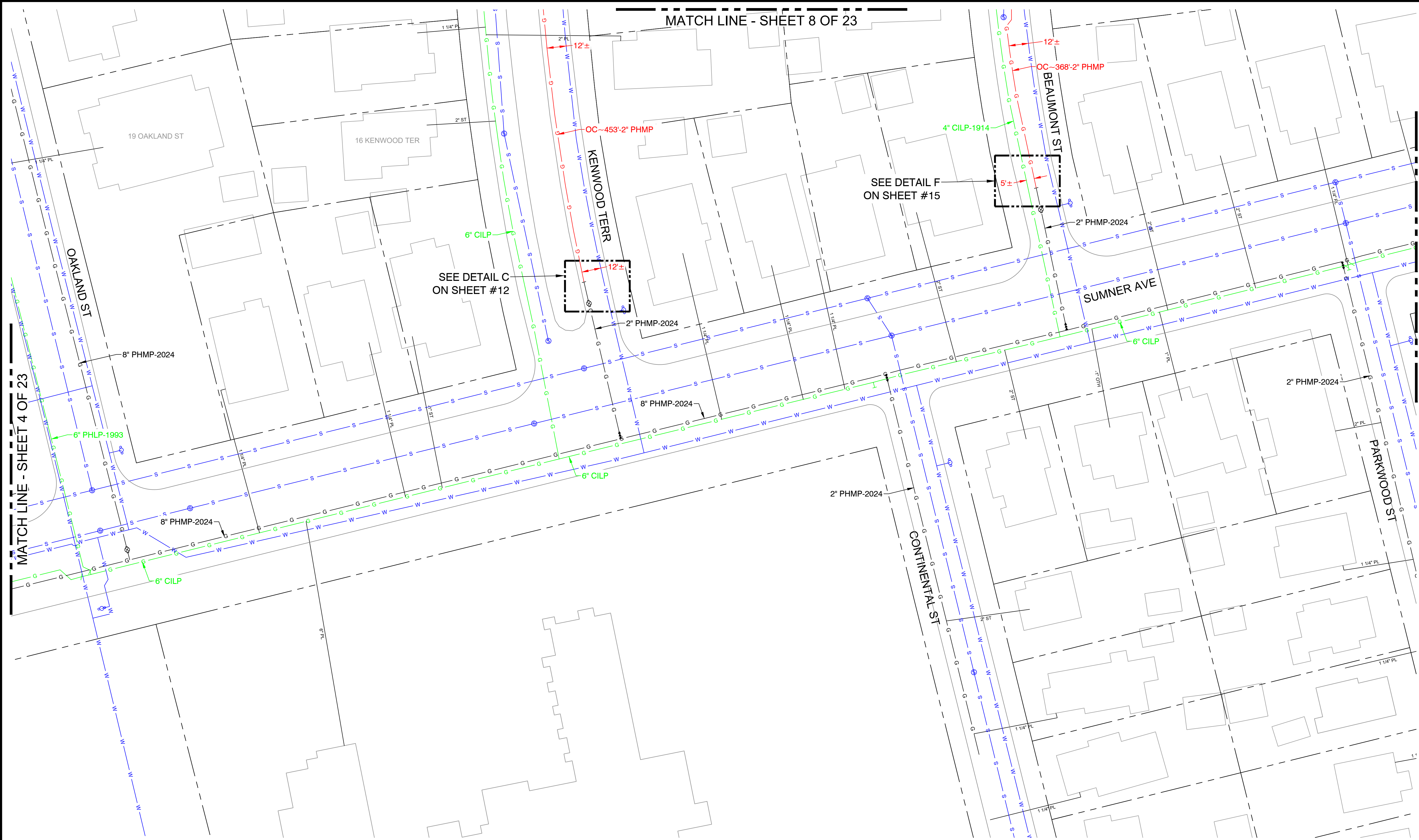
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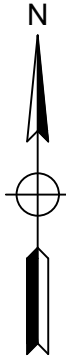
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FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

EVERSOURCE ENERGY			
453 SUMNER AVE - ENCROACHMENT, SPRINGFIELD, MA			
PROJECT # 25EG095 / WORK ORDER # 19253953			
PROJECT LOCATION PLANS			
SCALE: 1"=30' ON 22"X34"		SHEET 06 OF 23	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
KMQ 11/11/2024	DD 11/15/2024	MA-SPR-PIP-24-294-06	B



KEY MAP
SCALE: N.T.S.



B	REVISED PER EGMA COMMENT	12/13/24	KMQ/DD
A	ISSUED FOR REVIEW	11/18/24	KMQ/DD
No.	Description	Date	Dw/Ck
Revision/Status			

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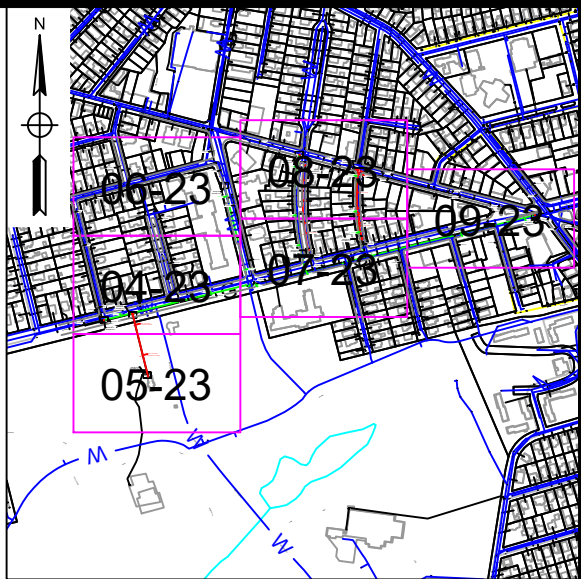
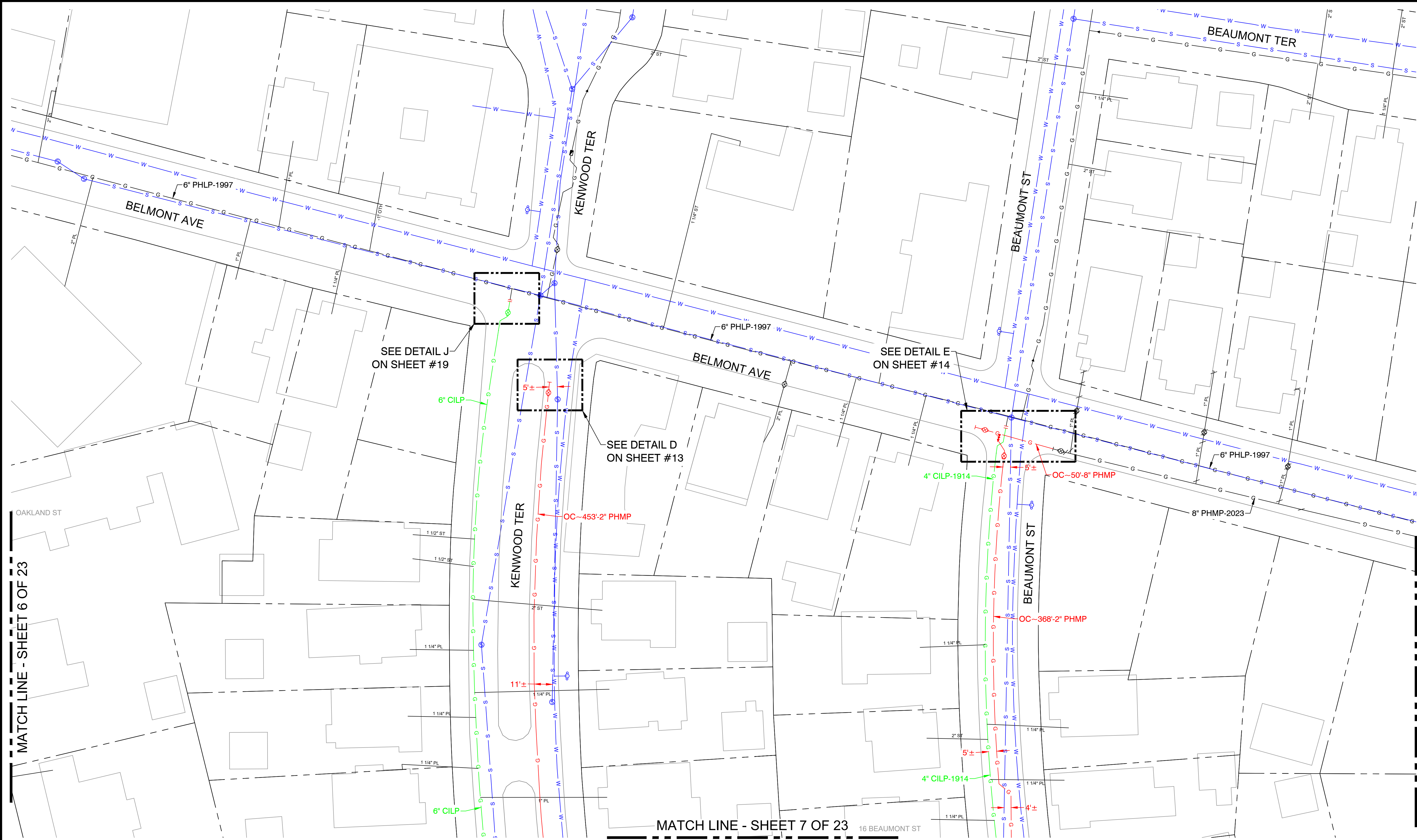
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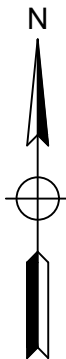
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FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

EVERSOURCE ENERGY			
453 SUMMER AVE - ENCROACHMENT, SPRINGFIELD, MA			
PROJECT # 25EG095 / WORK ORDER # 19253953			
PROJECT LOCATION PLANS			
SCALE: 1"=30' ON 22"X34"		SHEET 07 OF 23	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
KMQ 11/11/2024	DD 11/15/2024	MA-SPR-PIP-24-294-07	B



KEY MAP
SCALE: N.T.S.



MATCH LINE - SHEET 6 OF 23

MATCH LINE - SHEET 9 OF 23

B	REVISED PER EGMA COMMENT	12/13/24	KMQ/DD
A	ISSUED FOR REVIEW	11/18/24	KMQ/DD
No.	Description	Date	Dw/Ck
Revision/Status			

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FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

EVERSOURCE
ENERGY

453 SUMNER AVE - ENCROACHMENT, SPRINGFIELD, MA

PROJECT # 25EG095 / WORK ORDER # 19253953

PROJECT LOCATION PLANS

SCALE: 1"=30' ON 22"X34"

Drawn by / Date

KMQ 11/11/2024

SHEET 08 OF 23

Checked by / Date

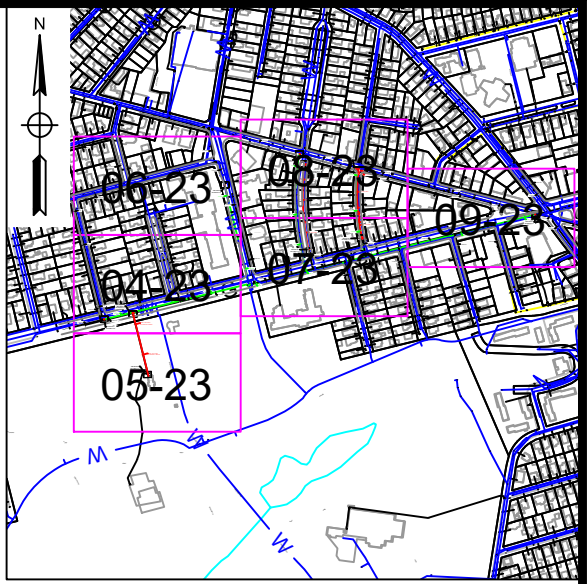
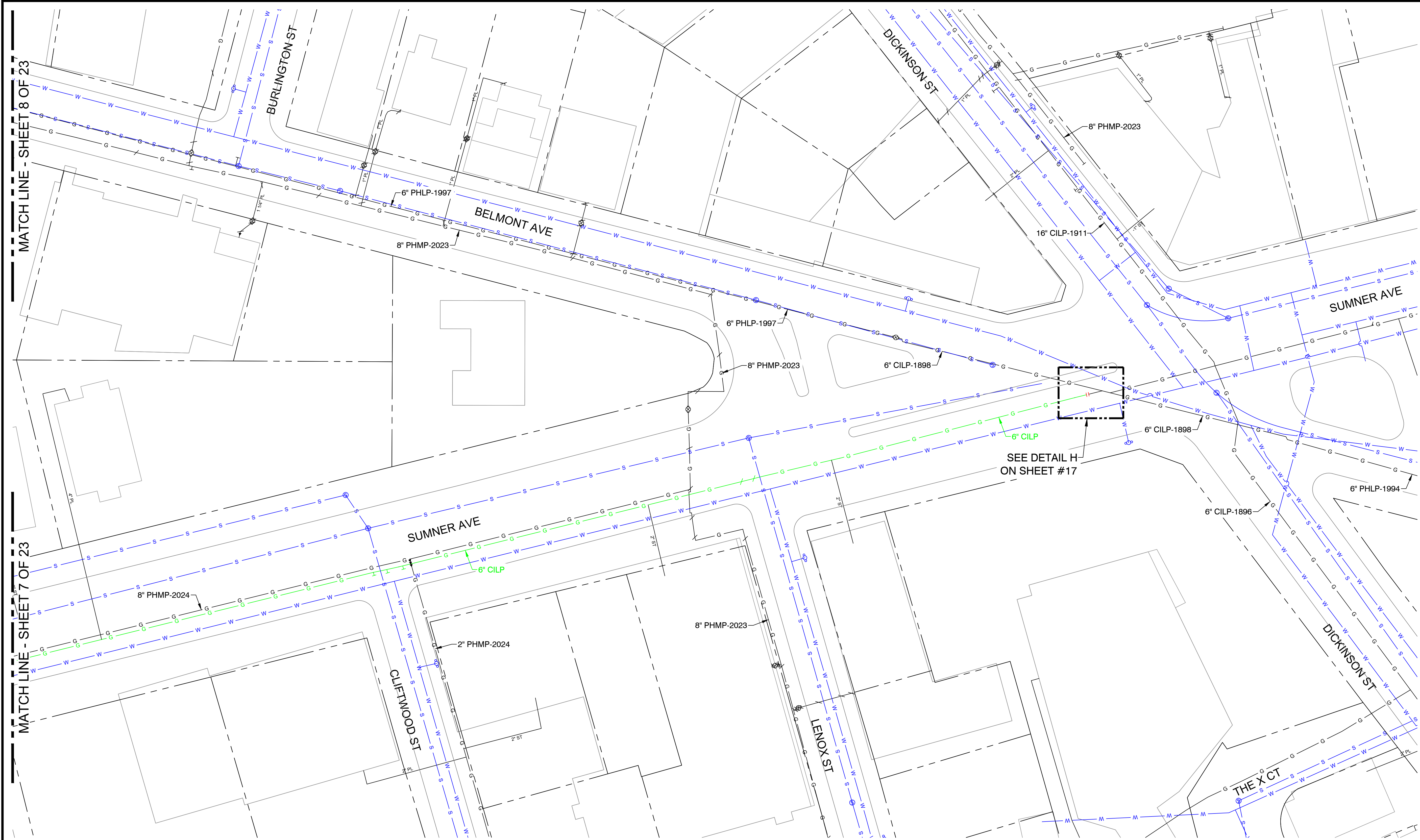
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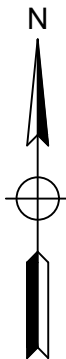
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Rev. No.

B



KEY MAP
SCALE: N.T.S.



B	REVISED PER EGMA COMMENT	12/13/24	KMQ/DD
A	ISSUED FOR REVIEW	11/18/24	KMQ/DD
No.	Description	Date	Dw/Ck
Revision/Status			

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FIELD VERIFY DIMENSIONS
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ENERGY
453 SUMNER AVE - ENCROACHMENT, SPRINGFIELD, MA
PROJECT # 25EG095 / WORK ORDER # 19253953
PROJECT LOCATION PLANS

SCALE: 1"=30' ON 22"X34" SHEET 09 OF 23

Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
KMQ 11/11/2024	DD 11/15/2024	MA-SPR-PIP-24-294-09	B

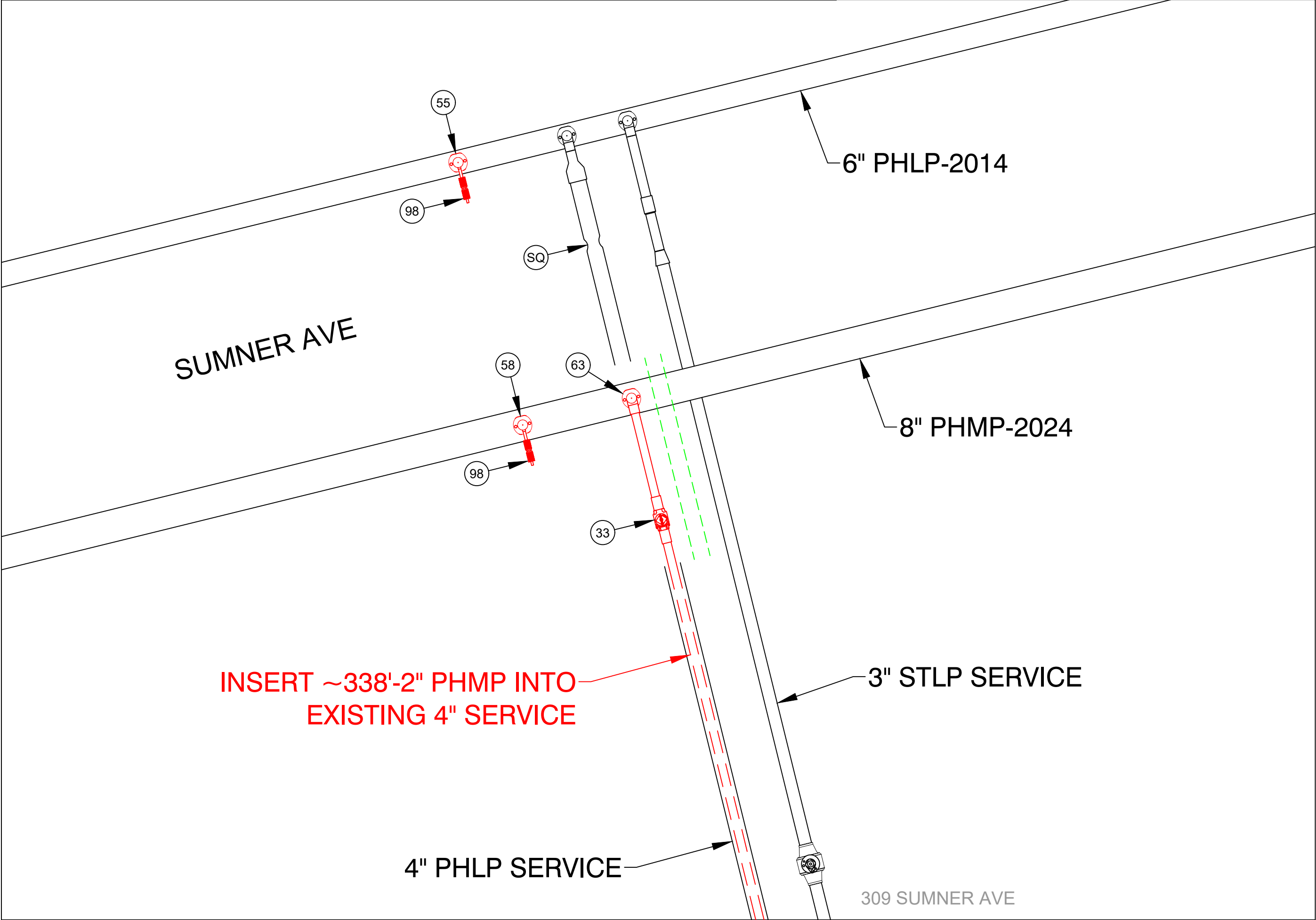
453 Sumner Ave - Encroachment - Pro Drawing Rev0.dwg

EGMA DRAWING TEMPLATE - 02-28-2023

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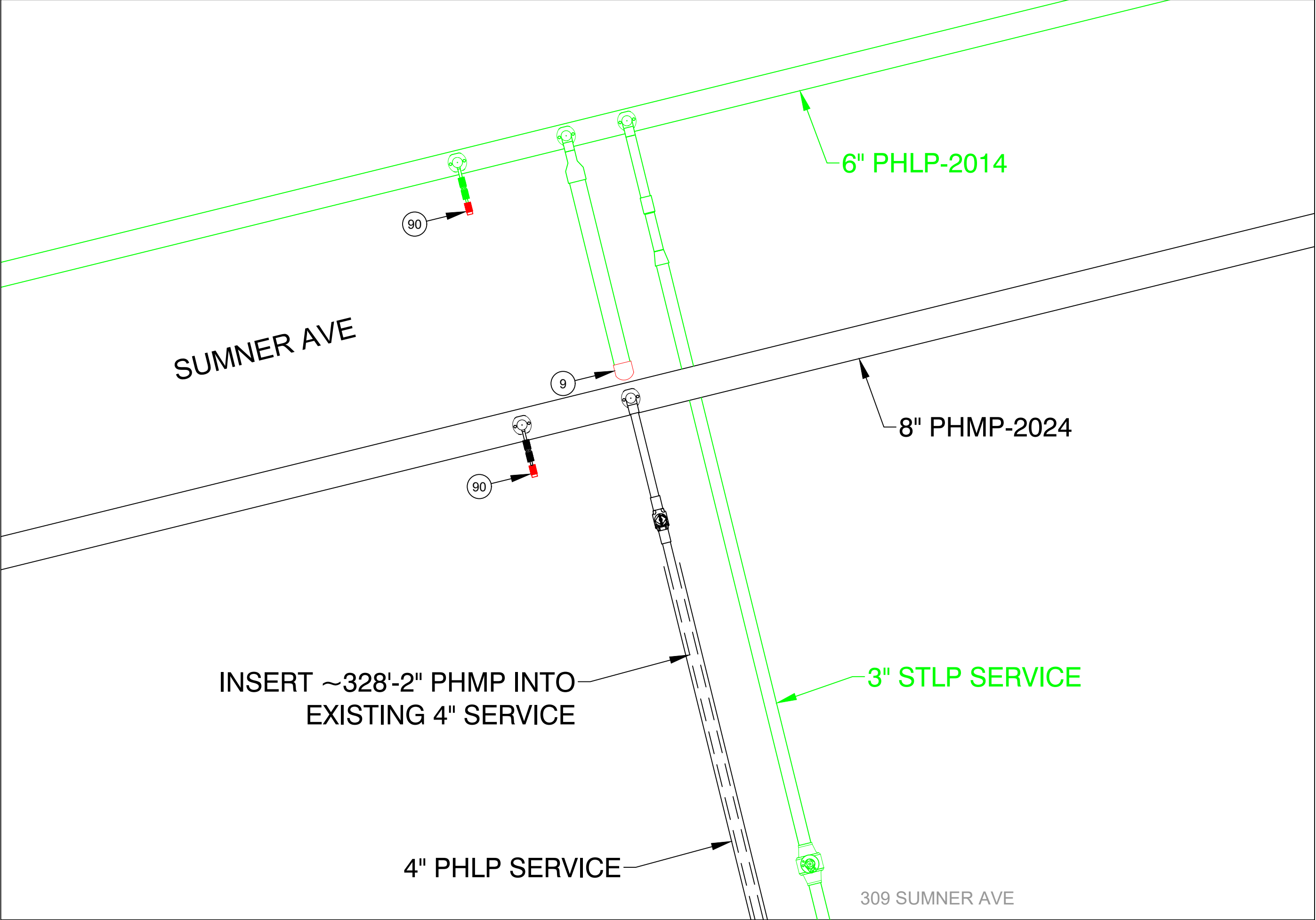


453 SUMNER AVE, SPRINGFIELD				DETAIL "A" PREPARATORY	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
33	14281726	562087	VALVE,BALL, 2 IN IPS, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING	1	EA
58	63051591	584713	TEE,PIPE, NON-BLOWING, ELECTROFUSION TAPPING TEE 8 IN IPS MAIN X 1/2 IN CTS 0.090 IN THK WALL STAB OUTLET, HDPE, BLACK	1	EA
63	63051405	560684	FITTING,TEE, 8 IN IPS X 2 IN IPS, ELECTROFUSION HIGH VOLUME TAPPING WITH BUTT FUSION OUTLET, HDPE, ASTM F1055, BLACK, GFCP	1	EA
98	63424035	610764	FITTING,COUPLING, PIPE, LYCOFIT, 1/2 IN CTS X 0.090 IN WALL THK, PLASTIC, CMA 21658100	1	EA



PREPARATORY TIE-IN DETAIL A
NOT TO SCALE

453 SUMNER AVE, SPRINGFIELD				DETAIL "A" FINAL	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
9	63078039	542538	CAP,PIPE, 4 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100	1	EA
90	63424221	610757	FITTING,CAP, END, LYCOFIT, 1/2 IN CTS X 0.090 IN THK WALL, PLASTIC, CMA 750823	1	EA



FINAL TIE-IN DETAIL A
NOT TO SCALE

ISSUED FOR REVIEW



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FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

B	REVISED PER EGMA COMMENT	12/13/24	KMQ/DD
A	ISSUED FOR REVIEW	11/18/24	KMQ/DD
No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
453 SUMNER AVE - ENCROACHMENT, SPRINGFIELD, MA			
PROJECT # 25EG095 / WORK ORDER # 19253953			
PREPARATORY AND FINAL TIE-IN DETAILS			
SCALE:1"=30' ON 22"X34"		SHEET 10 OF 23	
Drawn by / Date		Checked by / Date	Rev. No.
KMQ 11/11/2024		DD 11/15/2024	MA-SPR-PIP-24-294-10 B

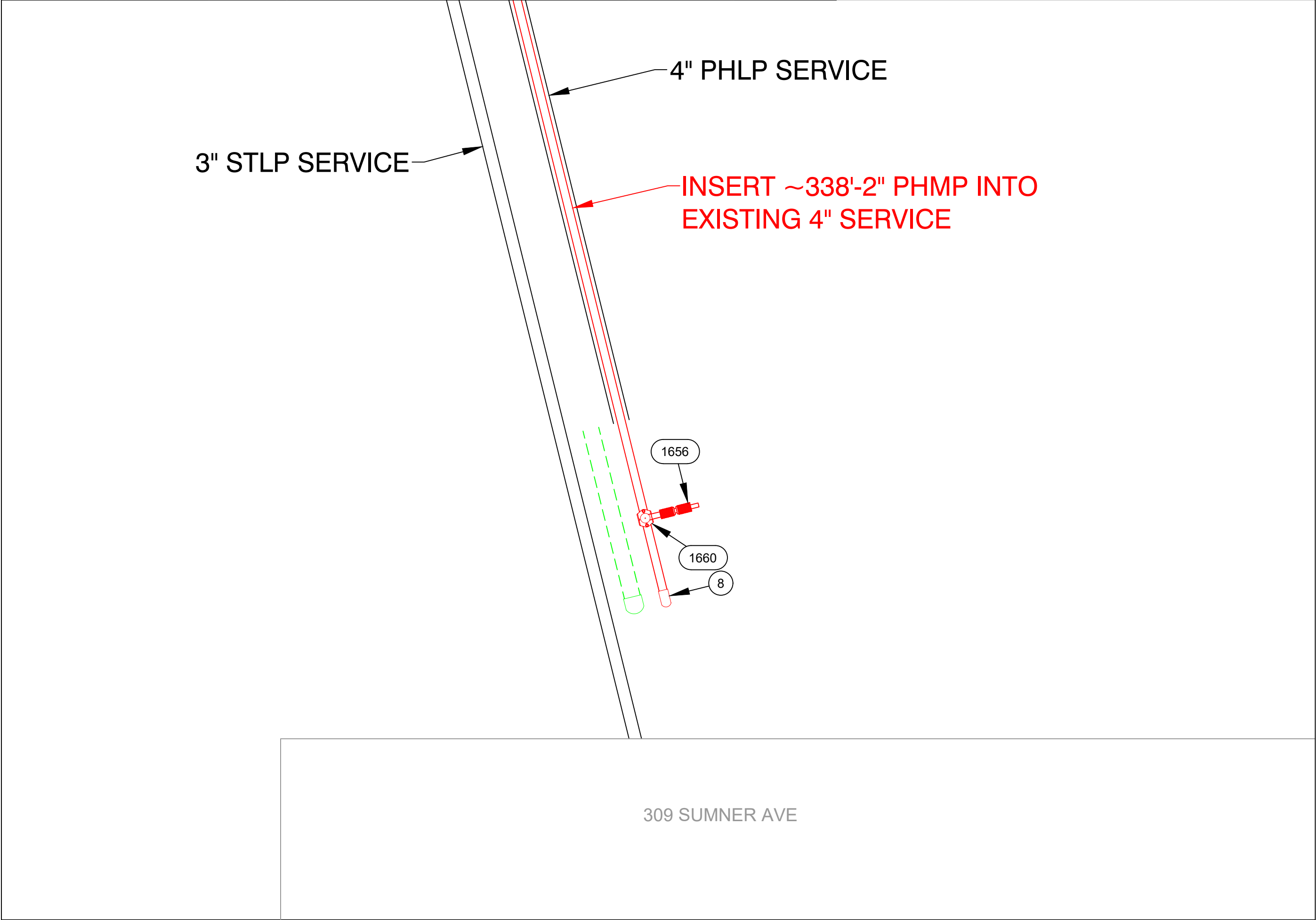
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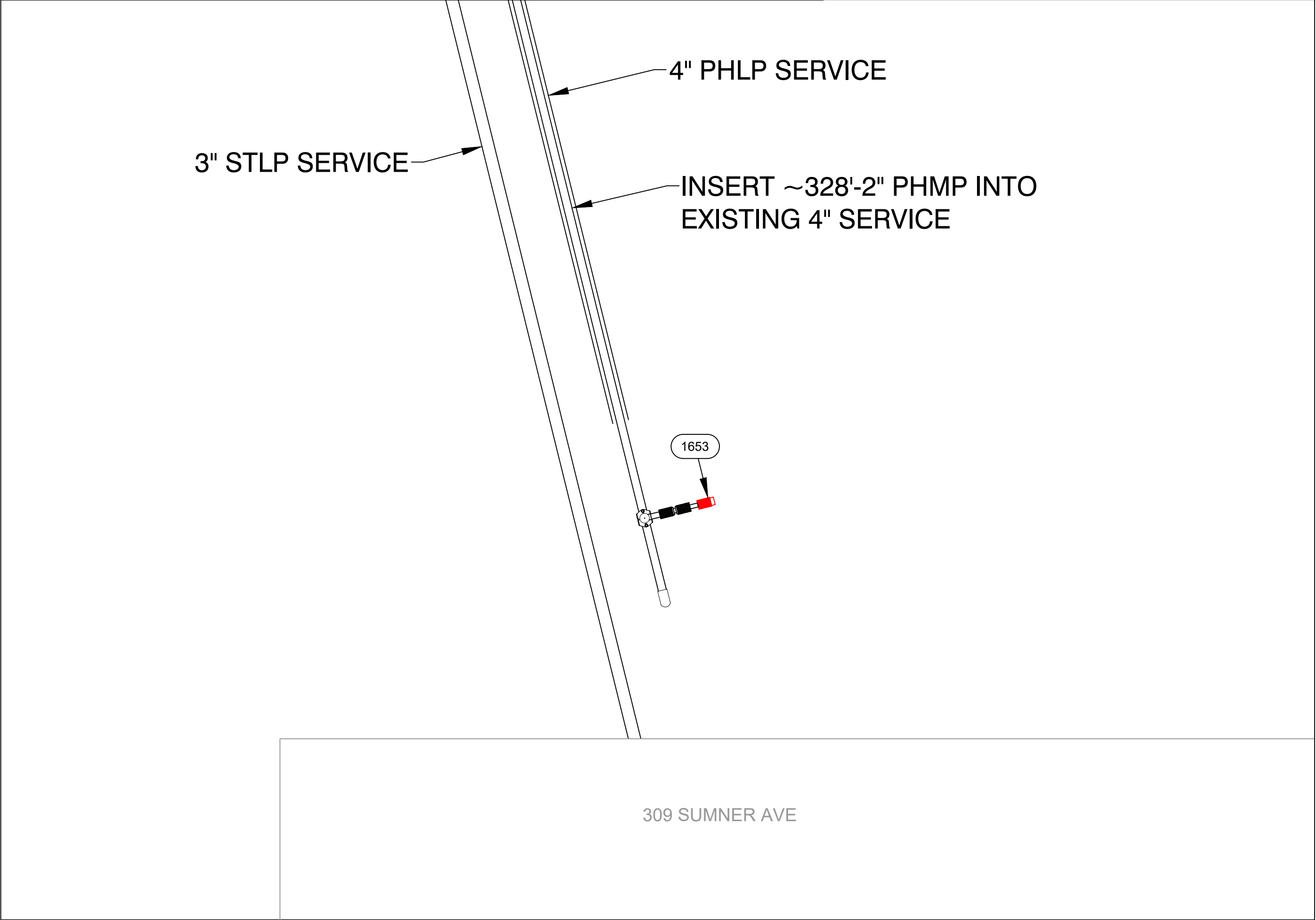


453 SUMNER AVE, SPRINGFIELD			DETAIL "B" PREPARATORY		
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
1656	MCJUREMA-000	620089	FITTING,COUPLING, PIPE, LYCOFIT, 1 IN IPS SDR11, PLASTIC	1	EA
1660	MCJUREMA-000	602892	FITTING,TEE, 2 IN IPS X 1 IN IPS, ELECTROFUSION, HDPE, WITH BUTT FUSION OUTLET, HDPE, BLACK, ASTM F1055	1	EA
8	63078024	542572	CAP,PIPE, 2 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100	1	EA



PREPARATORY TIE-IN DETAIL B
NOT TO SCALE

453 SUMNER AVE, SPRINGFIELD				DETAIL "B" FINAL	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
1653	MCJUREMA-000	620808	FITTING,CAP, LYCOFIT, 1 IN IPS SDR 11, PLASTIC, ASTM F1924	1	EA



FINAL TIE-IN DETAIL B
NOT TO SCALE

ISSUED FOR REVIEW



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FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

B	REVISED PER EGMA COMMENT	12/13/24	KMQ/DD
A	ISSUED FOR REVIEW	11/18/24	KMQ/DD
No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
453 SUMNER AVE - ENCROACHMENT, SPRINGFIELD, MA			
PROJECT # 25EG095 / WORK ORDER # 19253953			
PREPARATORY AND FINAL TIE-IN DETAILS			
SCALE:1"=30' ON 22"X34"		SHEET 11 OF 23	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
KMQ 11/11/2024	DD 11/15/2024	MA-SPR-PIP-24-294-11	B

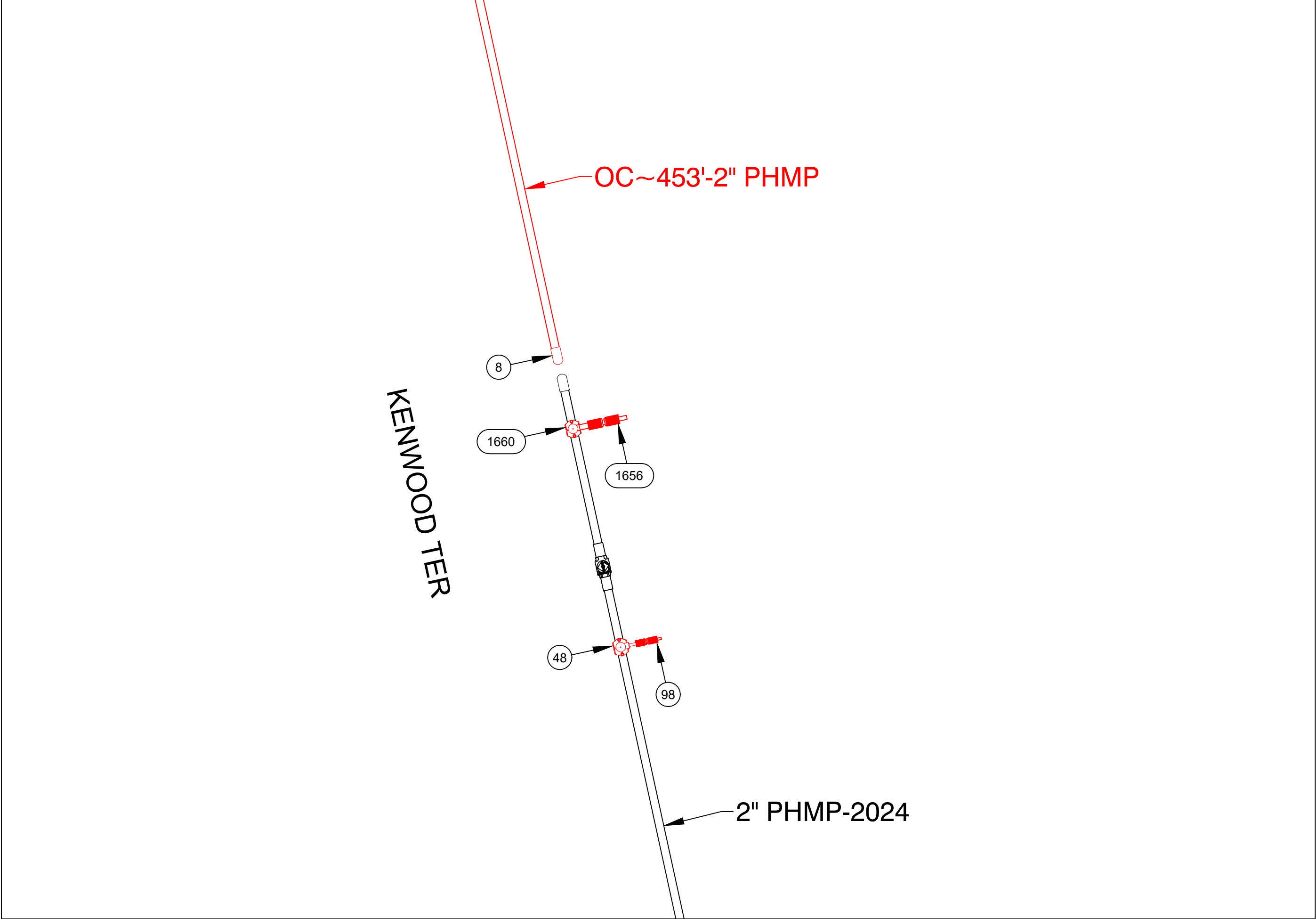
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EGMA DRAWING TEMPLATE - 02-28-2023

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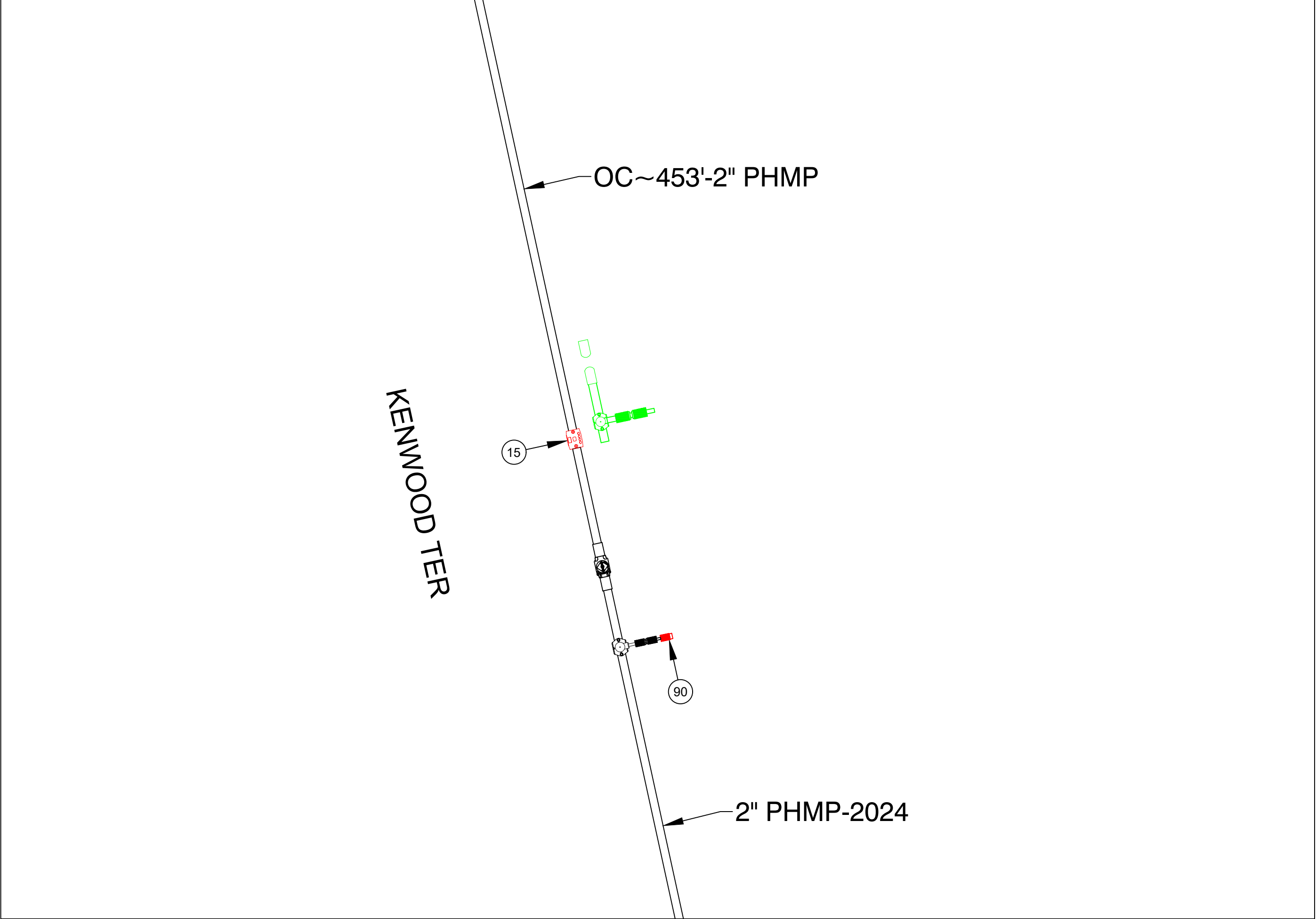


453 SUMNER AVE, SPRINGFIELD				DETAIL "C" PREPARATORY	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
1656	MCJUREMA-000	620089	FITTING,COUPLING, PIPE, LYCOFIT, 1 IN IPS SDR11, PLASTIC	1	EA
1660	MCJUREMA-000	602892	FITTING,TEE, 2 IN IPS X 1 IN IPS, ELECTROFUSION, HDPE, WITH BUTT FUSION OUTLET, HDPE, BLACK, ASTM F1055	1	EA
48	63051215	500866	TEE, PIPE, NON-BLOWING, ELECTROFUSION TAPPING TEE 2 IN IPS MAIN X 1/2 IN CTS 0.090 IN THK WALL STAB OUTLET, HDPE, BLACK	1	EA
8	63078024	542572	CAP,PIPE, 2 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100	1	EA
98	63424035	610764	FITTING,COUPLING, PIPE, LYCOFIT, 1/2 IN CTS X 0.090 IN WALL THK, PLASTIC, CMA 21658100	1	EA



PREPARATORY TIE-IN DETAIL C
NOT TO SCALE

453 SUMNER AVE, SPRINGFIELD				DETAIL "C" FINAL	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
15	63054025	500854	COUPLING, 2 IN IPS, ELECTROFUSION, HDPE, BLACK, ASTM F1055, GFCP	1	EA
90	63424221	610757	FITTING,CAP, END, LYCOFIT, 1/2 IN CTS X 0.090 IN THK WALL, PLASTIC, CMA 750823	1	EA



FINAL TIE-IN DETAIL C
NOT TO SCALE

ISSUED FOR REVIEW



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PRIOR TO PIPE FABRICATION

B	REVISED PER EGMA COMMENT	12/13/24	KMQ/DD
A	ISSUED FOR REVIEW	11/18/24	KMQ/DD
No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
453 SUMNER AVE - ENCROACHMENT, SPRINGFIELD, MA			
PROJECT # 25EG095 / WORK ORDER # 19253953			
PREPARATORY AND FINAL TIE-IN DETAILS			
SCALE:1"=30' ON 22"X34"		SHEET 12 OF 23	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
KMQ 11/11/2024	DD 11/15/2024	MA-SPR-PIP-24-294-12	B

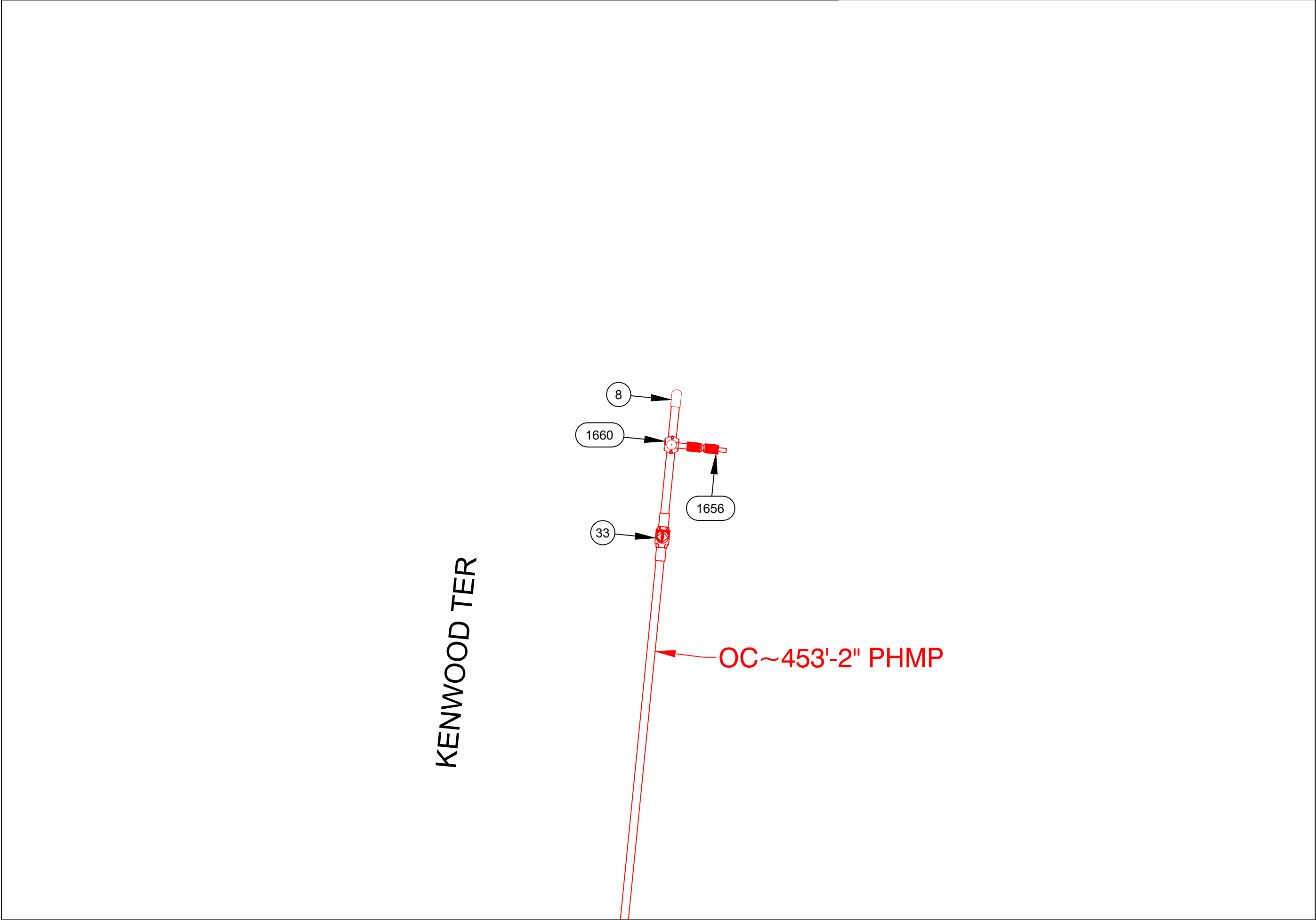
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453 SUMNER AVE, SPRINGFIELD				DETAIL "D" PREPARATORY	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
1656	MCJUREMA-000	620089	FITTING, COUPLING, PIPE, LYCOFIT, 1 IN IPS SDR11, PLASTIC	1	EA
1660	MCJUREMA-000	602892	FITTING, TEE, 2 IN IPS X 1 IN IPS, ELECTROFUSION, HDPE, WITH BUTT FUSION OUTLET, HDPE, BLACK, ASTM F1055	1	EA
33	14281726	562087	VALVE, BALL, 2 IN IPS, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING	1	EA
8	63078024	542572	CAP, PIPE, 2 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100	1	EA



PREPARATORY TIE-IN DETAIL D
NOT TO SCALE

453 SUMNER AVE, SPRINGFIELD				DETAIL "D" FINAL	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
1653	MCJUREMA-000	620808	FITTING,CAP, LYCOFIT, 1 IN IPS SDR 11, PLASTIC, ASTM F1924	1	EA



FINAL TIE-IN DETAIL D
NOT TO SCALE

ISSUED FOR REVIEW



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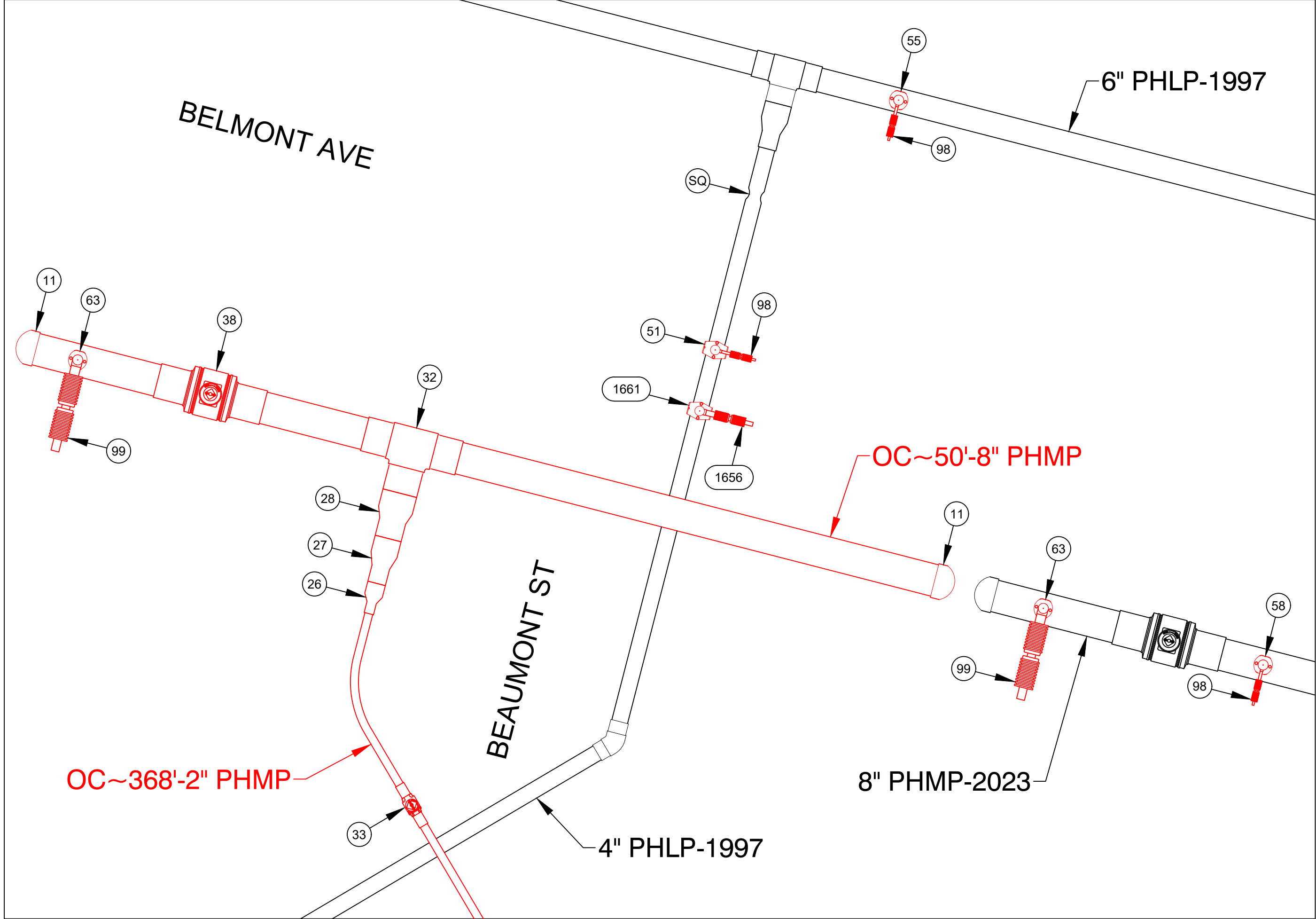
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FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

B	REVISED PER EGMA COMMENT	12/13/24	KMQ/DD
A	ISSUED FOR REVIEW	11/18/24	KMQ/DD
No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
453 SUMNER AVE - ENCROACHMENT, SPRINGFIELD, MA			
PROJECT # 25EG095 / WORK ORDER # 19253953			
PREPARATORY AND FINAL TIE-IN DETAILS			
SCALE: 1"=30' ON 22"X34"		SHEET 13 OF 23	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
KMQ 11/11/2024	DD 11/15/2024	MA-SPR-PIP-24-294-13	B

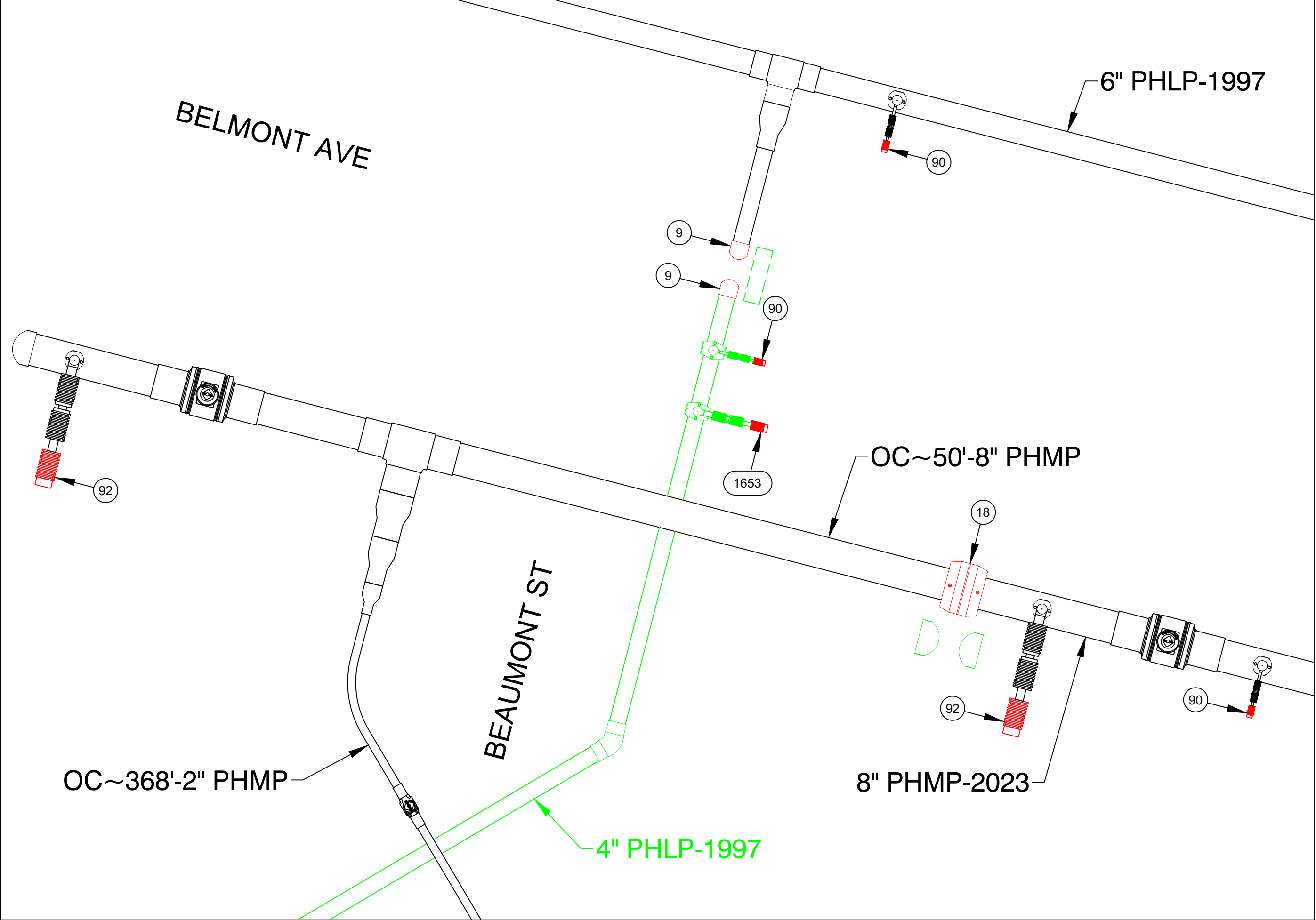
453 SUMNER AVE, SPRINGFIELD			DETAIL "E" PREPARATORY		
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
11	63078069	542540	CAP,PIPE, 8 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100	2	EA
1656	MCJUREMA-000	620089	FITTING,COUPLING, PIPE, LYCOFIT, 1 IN IPS SDR11, PLASTIC	1	EA
1661	MCJUREMA-000	602894	FITTING,TEE, 4 IN IPS X 1 IN IPS, ELECTROFUSION, WITH BUTT FUSION OUTLET, HDPE, BLACK, ASTM F1055	1	EA
26	63078377	555593	REDUCER,PIPE, 4 X 2 IPS, BUTT ENDS, POLYETHYLENE, P100, SDR11	1	EA
27	63078395	555594	REDUCER,PIPE, 6 X 4 IPS, BUTT ENDS, P100, POLYETYLENE, SDR 11	1	EA
28	63078404	555596	REDUCER,PIPE, 8 IN X 6 IN IPS SDR 11, BUTT ENDS, POLYETHYLENE, P100	1	EA
32	63078467	560681	TEE,PIPE, 8 IN SDR 11, BUTT ENDS, POLYETHYLENE, P100	1	EA
33	14281726	562087	VALVE,BALL, 2 IN IPS, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING	1	EA
38	14712516	500705	VALVE,BALL, 8 IN IPS, POLYETHYLENE, SDR11, BUTT WELD, W/ FULL PORT OPENING, BLACK FINISH	1	EA

51	63051253	500867	TEE, PIPE, NON-BLOWING, ELECTROFUSION TAPPING TEE 4 IN IPS MAIN X 1/2 IN CTS 0.090 IN THK WALL STAB OUTLET, HDPE, BLACK	1	EA	
55	63051277	500869	TEE,PIPE, NON-BLOWING, 6 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, POLYETHYLENE, PE3408	1	EA	
58	63051591	584713	TEE,PIPE, NON-BLOWING, ELECTROFUSION TAPPING TEE 8 IN IPS MAIN X 1/2 IN CTS 0.090 IN THK WALL STAB OUTLET, HDPE, BLACK	1	EA	
63	63051405	560684	FITTING,TEE, 8 IN IPS X 2 IN IPS, ELECTROFUSION HIGH VOLUME TAPPING WITH BUTT FUSION OUTLET, HDPE, ASTM F1055, BLACK, GFCP	2	EA	
98	63424035	610764	FITTING,COUPLING, PIPE, LYCOFIT, 1/2 IN CTS X 0.090 IN WALL THK, PLASTIC, CMA 21658100	3	EA	
99	63424109	610772	FITTING,COUPLING, REPAIR, LYCOFIT, 2 IN IPS, PLASTIC, SDR 11, CMA 21658101	2	EA	



PREPARATORY TIE-IN DETAIL E
NOT TO SCALE

453 SUMNER AVE, SPRINGFIELD				DETAIL "E" FINAL	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
1653	MCJUREMA-000	620808	FITTING,CAP, LYCOFIT, 1 IN IPS SDR 11, PLASTIC, ASTM F1924	1	EA
18	63051043	500857	COUPLING, 8 IN IPS, ELECTROFUSION, HDPE, BLACK, ASTM F1055, GFCP	1	EA
9	63078039	542538	CAP,PIPE, 4 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100	2	EA
90	63424221	610757	FITTING,CAP, END, LYCOFIT, 1/2 IN CTS X 0.090 IN THK WALL, PLASTIC, CMA 750823	3	EA
92	63424023	610763	FITTING,CAP, END, LYCOFIT, 2 IN IPS, PLASTIC, SDR 11, CMA 750830	2	EA



FINAL TIE-IN DETAIL E
NOT TO SCALE

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A	ISSUED FOR REVIEW	11/18/24	KMQ/DD
No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
453 SUMNER AVE - ENCROACHMENT, SPRINGFIELD, MA			
PROJECT # 25EG095 / WORK ORDER # 19253953			
PREPARATORY AND FINAL TIE-IN DETAILS			
SCALE:1"=30' ON 22"X34"		SHEET 14 OF 23	
Drawn by / Date		Checked by / Date	Drawing Number
KMQ 11/11/2024		DD 11/15/2024	MA-SPR-PIP-24-294-14
		Rev. No.	
			B

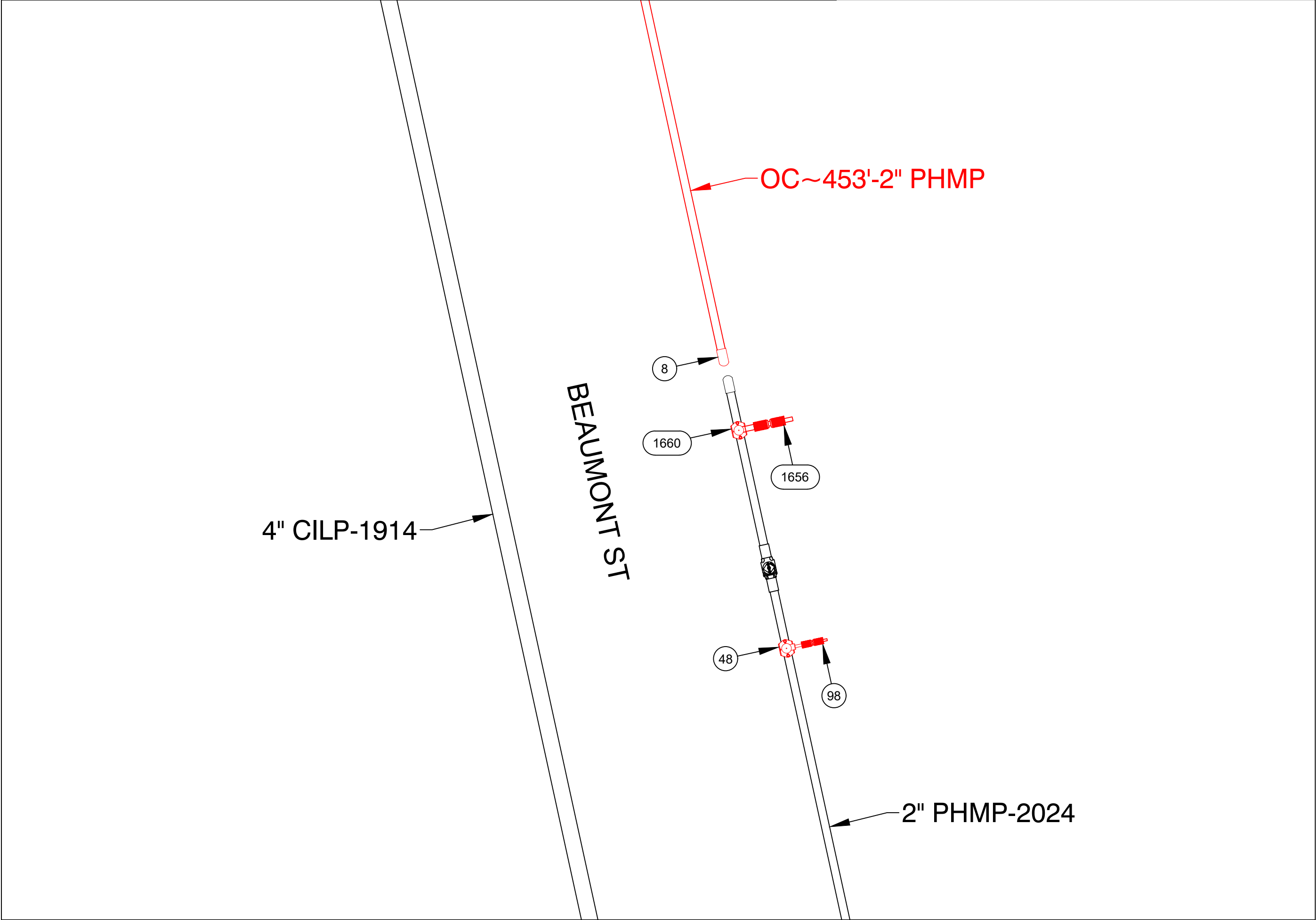
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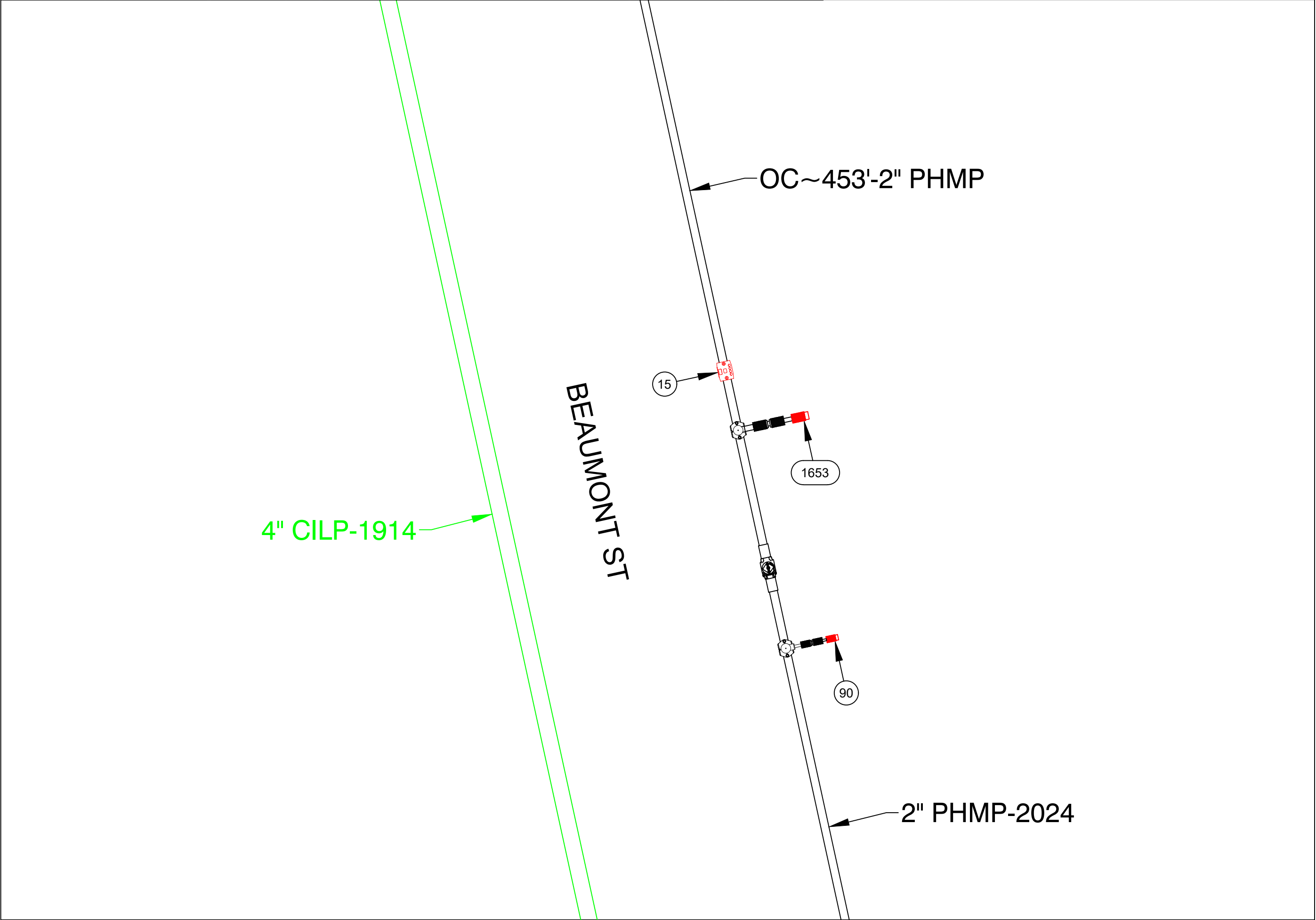


453 SUMNER AVE, SPRINGFIELD				DETAIL "F" PREPARATORY	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
1656	MCJUREMA-000	620089	FITTING,COUPLING, PIPE, LYCOFIT, 1 IN IPS SDR11, PLASTIC	1	EA
1660	MCJUREMA-000	602892	FITTING,TEE, 2 IN IPS X 1 IN IPS, ELECTROFUSION, HDPE, WITH BUTT FUSION OUTLET, HDPE, BLACK, ASTM F1055	1	EA
48	63051215	500866	TEE, PIPE, NON-BLOWING, ELECTROFUSION TAPPING TEE 2 IN IPS MAIN X 1/2 IN CTS 0.090 IN THK WALL STAB OUTLET, HDPE, BLACK	1	EA
8	63078024	542572	CAP,PIPE, 2 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100	1	EA
98	63424035	610764	FITTING,COUPLING, PIPE, LYCOFIT, 1/2 IN CTS X 0.090 IN WALL THK, PLASTIC, CMA 21658100	1	EA



PREPARATORY TIE-IN DETAIL F
NOT TO SCALE

453 SUMNER AVE, SPRINGFIELD				DETAIL "F" FINAL	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
15	63054025	500854	COUPLING, 2 IN IPS, ELECTROFUSION, HDPE, BLACK, ASTM F1055, GFCP	1	EA
1653	MCJUREMA-000	620808	FITTING,CAP, LYCOFIT, 1 IN IPS SDR 11, PLASTIC, ASTM F1924	1	EA
90	63424221	610757	FITTING,CAP, END, LYCOFIT, 1/2 IN CTS X 0.090 IN THK WALL, PLASTIC, CMA 750823	1	EA



FINAL TIE-IN DETAIL F
NOT TO SCALE

ISSUED FOR REVIEW



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A	ISSUED FOR REVIEW	11/18/24	KMQ/DD
No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
453 SUMNER AVE - ENCROACHMENT, SPRINGFIELD, MA			
PROJECT # 25EG095 / WORK ORDER # 19253953			
PREPARATORY AND FINAL TIE-IN DETAILS			
SCALE:1"=30' ON 22"X34"		SHEET 15 OF 23	
Drawn by / Date		Checked by / Date	Rev. No.
KMQ 11/11/2024		DD 11/15/2024	MA-SPR-PIP-24-294-15 B

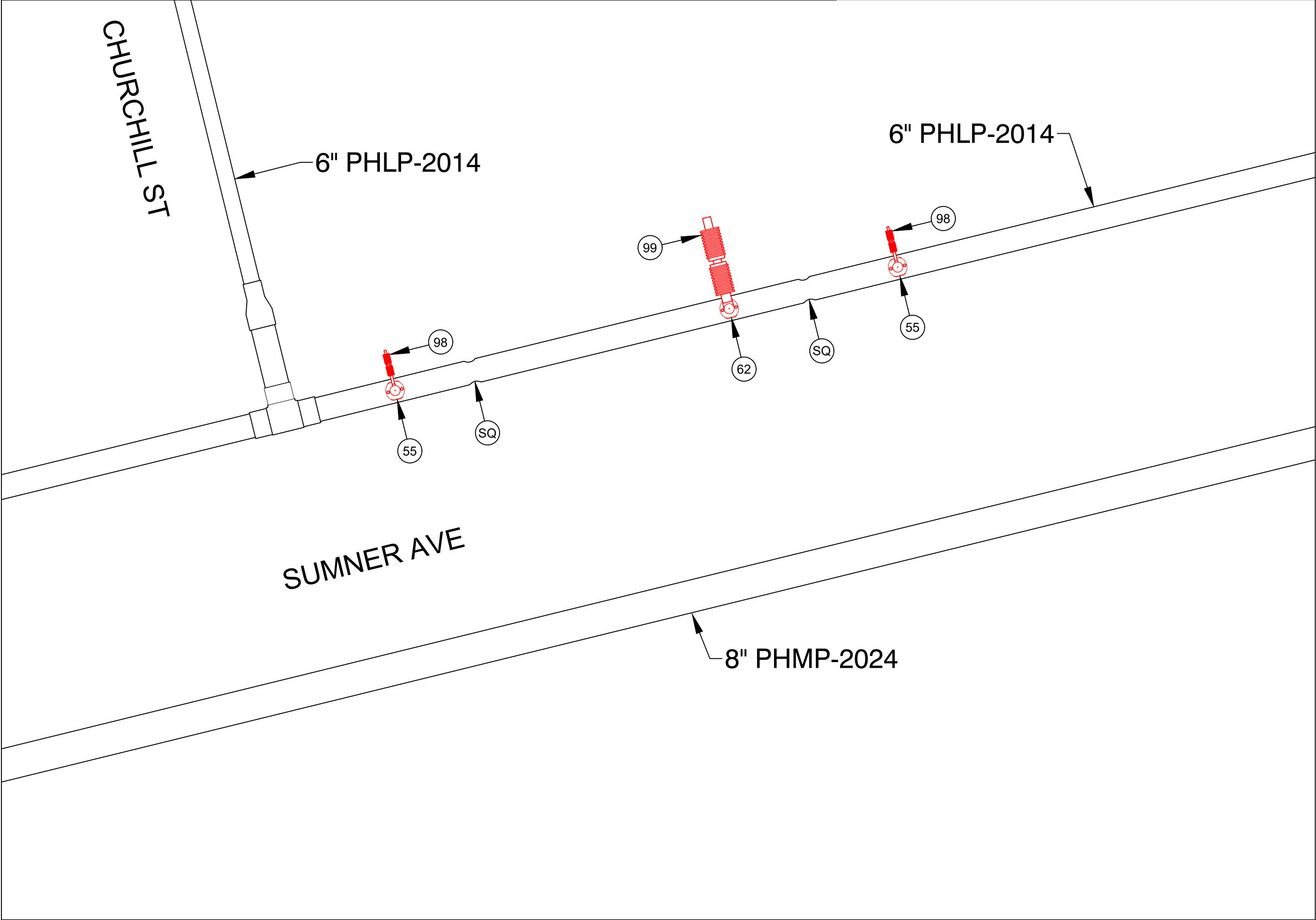
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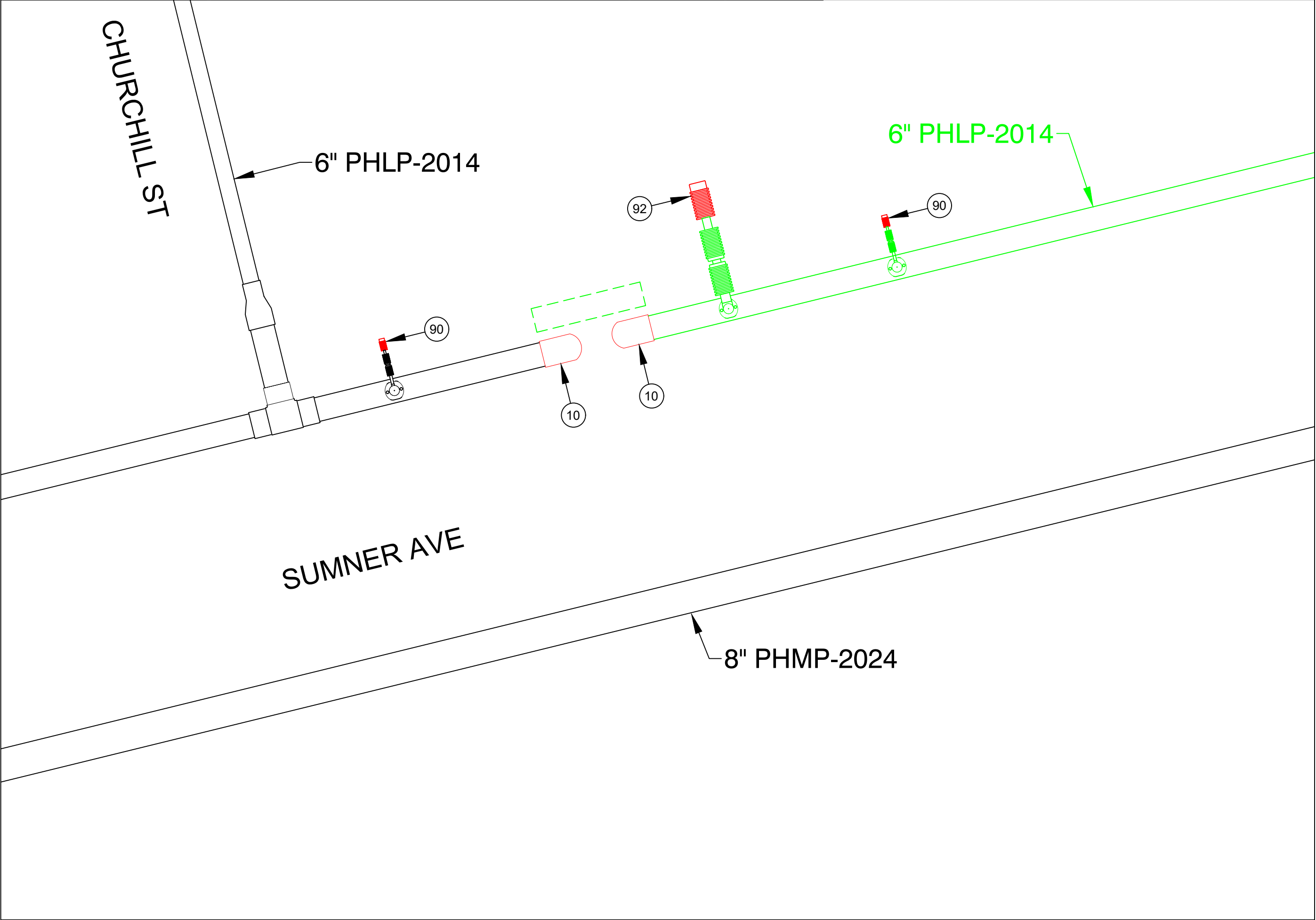


453 SUMNER AVE, SPRINGFIELD				DETAIL "G" PREPARATORY	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
55	63051277	500869	TEE,PIPE, NON-BLOWING, 6 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, POLYETHYLENE, PE3408	2	EA
62	63051389	500870	FITTING,TEE, 6 IN IPS X 2 IN IPS, ELECTROFUSION HIGH VOLUME TAPPING WITH BUTT FUSION OUTLET, HDPE, ASTM F1055, BLACK, GFCP	1	EA
98	63424035	610764	FITTING,COUPLING, PIPE, LYCOFIT, 1/2 IN CTS X 0.090 IN WALL THK, PLASTIC, CMA 21658100	2	EA
99	63424109	610772	FITTING,COUPLING, REPAIR, LYCOFIT, 2 IN IPS, PLASTIC, SDR 11, CMA 21658101	1	EA



PREPARATORY TIE-IN DETAIL G
NOT TO SCALE

453 SUMNER AVE, SPRINGFIELD				DETAIL "G" FINAL	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
10	63078054	542539	CAP,PIPE, 6 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100	2	EA
90	63424221	610757	FITTING,CAP, END, LYCOFIT, 1/2 IN CTS X 0.090 IN THK WALL, PLASTIC, CMA 750823	2	EA
92	63424023	610763	FITTING,CAP, END, LYCOFIT, 2 IN IPS, PLASTIC, SDR 11, CMA 750830	1	EA



FINAL TIE-IN DETAIL G
NOT TO SCALE

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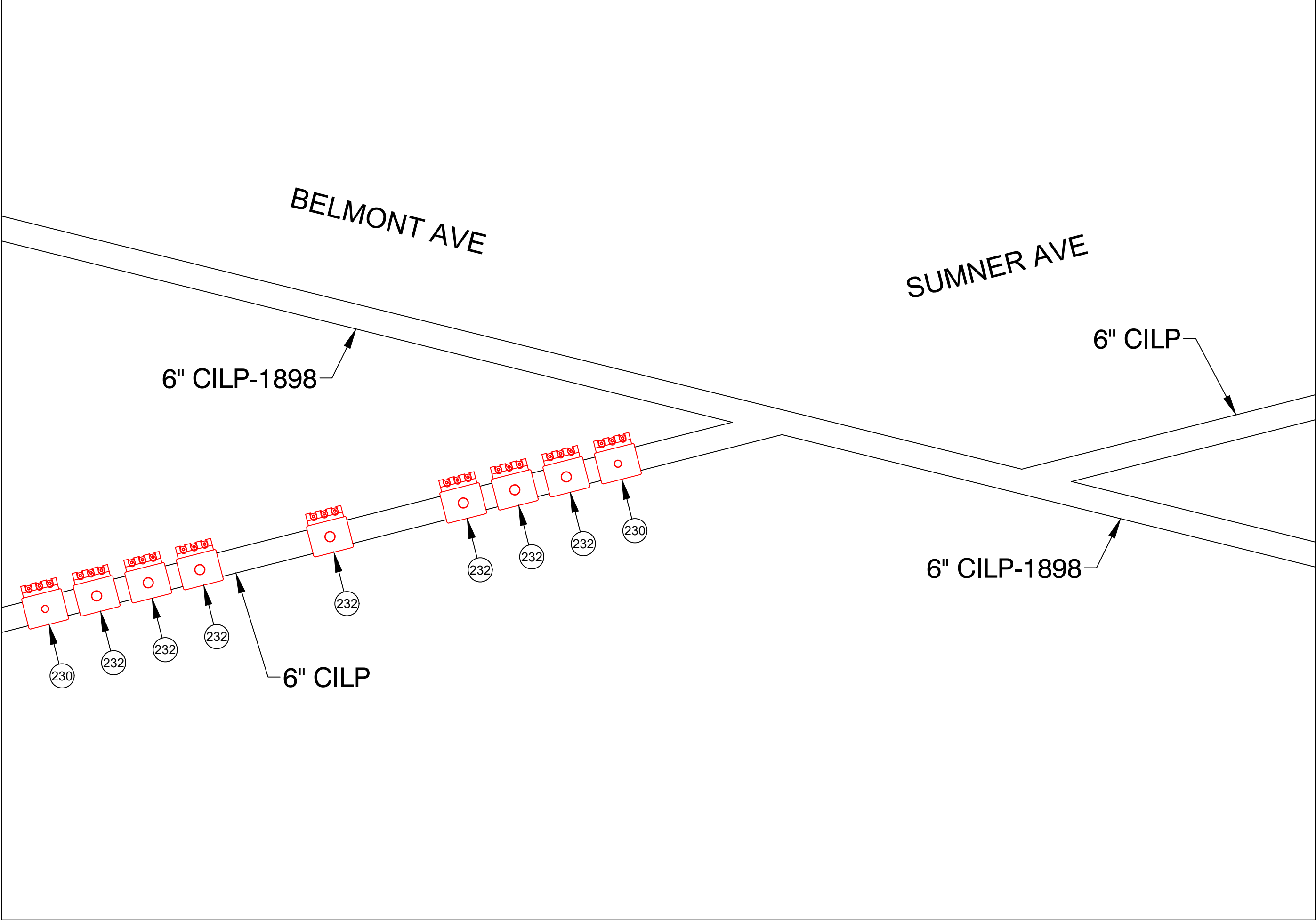
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PRIOR TO PIPE FABRICATION

B	REVISED PER EGMA COMMENT	12/13/24	KMQ/DD
A	ISSUED FOR REVIEW	11/18/24	KMQ/DD
No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
453 SUMNER AVE - ENCROACHMENT, SPRINGFIELD, MA			
PROJECT # 25EG095 / WORK ORDER # 19253953			
PREPARATORY AND FINAL TIE-IN DETAILS			
SCALE:1"=30' ON 22"X34"		SHEET 16 OF 23	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
KMQ 11/11/2024	DD 11/15/2024	MA-SPR-PIP-24-294-16	B

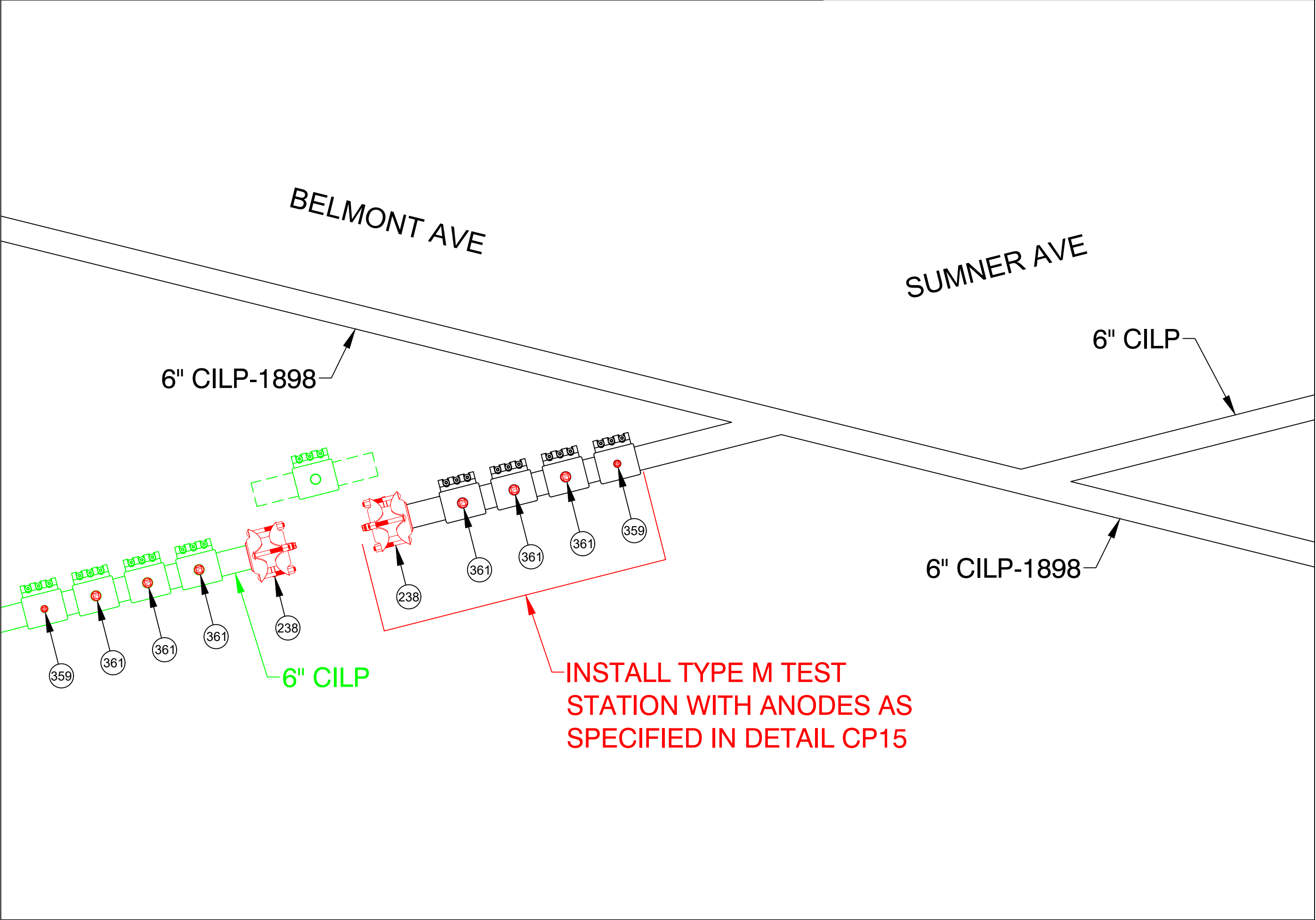


453 SUMNER AVE, SPRINGFIELD			DETAIL "H" PREPARATORY		
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
230	63462155	542982	CLAMP,PIPE, REPAIR, 6 IN CIP, SS, W/1-1/4 NPT TAP, FOR 6.84 - 7.24 IN PIPE	2	EA
232	63462159	578022	FITTING,CLAMP, SERVI-SEAL REPAIR, 6 IN DIA, 9 IN LG, W/ 2 IN OUTLET, FOR CAST IRON PIPE	7	EA



PREPARATORY TIE-IN DETAIL H
NOT TO SCALE

453 SUMNER AVE, SPRINGFIELD				DETAIL "H" FINAL	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
238	63481013	610399	FITTING,CAP, LINE, INSULATED, 6 IN, 6.90 IN OD, CI, W/ ANODE, FOR CI PIPE, CMA 21128001	2	EA
359	19080285	554877	PLUG,PIPE, SQUARE HEAD, SOLID, 1-1/4 IN, THREADED END, BLACK IRON, ANSI B1.20.1	2	EA
361	19080340	554878	PLUG,PIPE, SQUARE HEAD, SOLID, 2 IN, THREADED END, BLACK IRON, ANSI B1.20.1	6	EA



FINAL TIE-IN DETAIL H
NOT TO SCALE

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No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
453 SUMNER AVE - ENCROACHMENT, SPRINGFIELD, MA			
PROJECT # 25EG095 / WORK ORDER # 19253953			
PREPARATORY AND FINAL TIE-IN DETAILS			
SCALE:1"=30' ON 22"X34"		SHEET 17 OF 23	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
KMQ 11/11/2024	DD 11/15/2024	MA-SPR-PIP-24-294-17	B

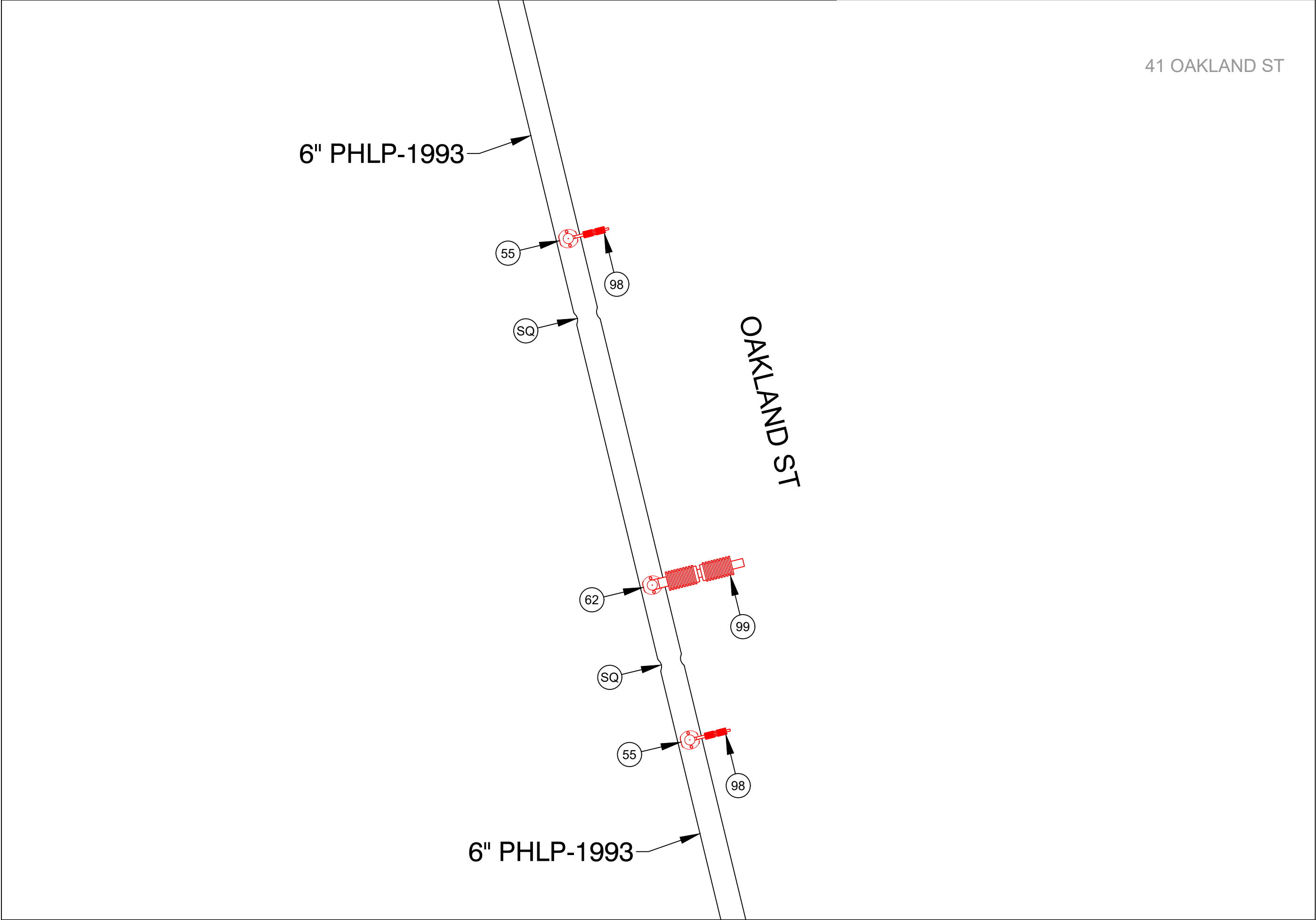
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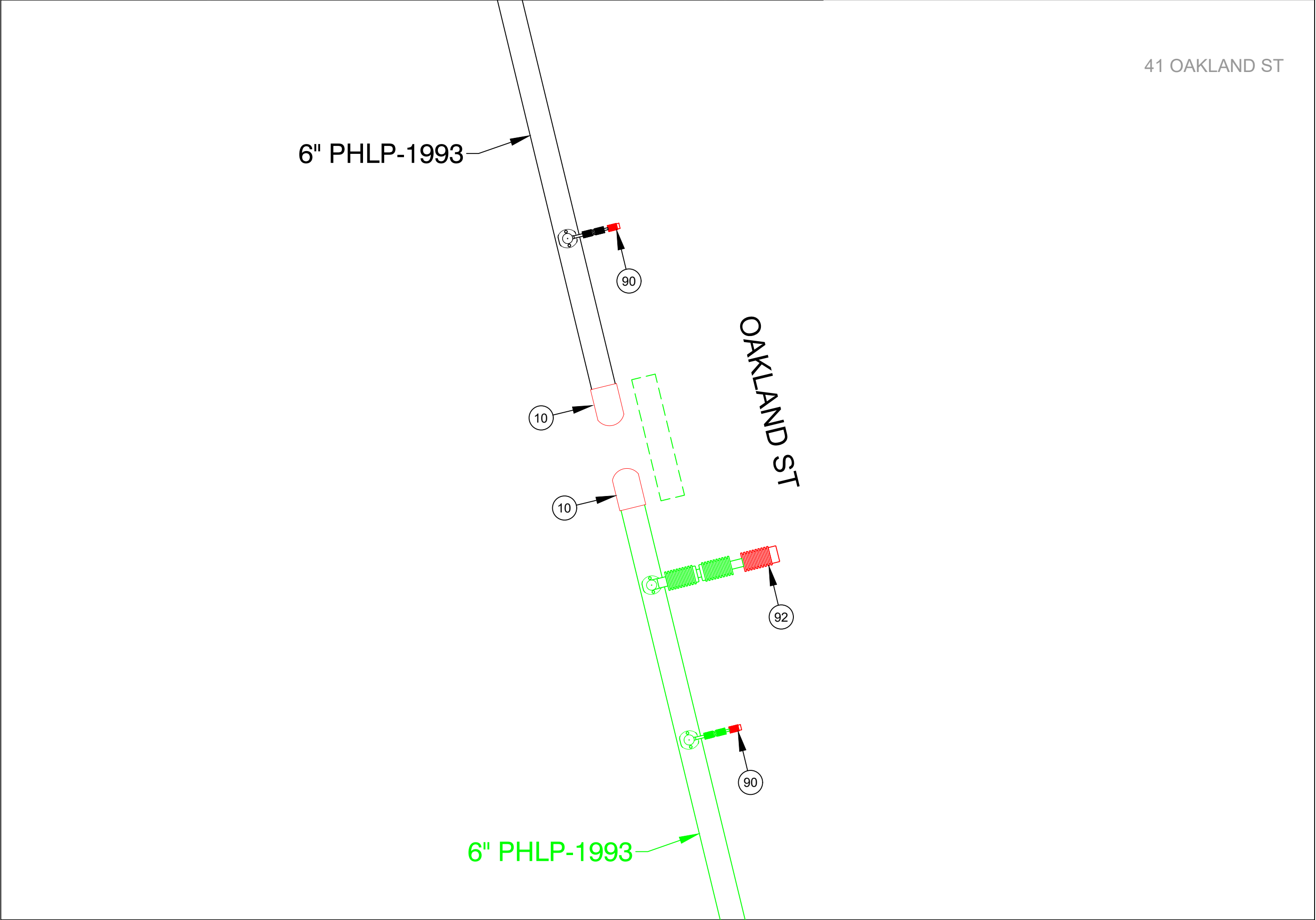


453 SUMNER AVE, SPRINGFIELD				DETAIL "I" PREPARATORY	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
55	63051277	500869	TEE,PIPE, NON-BLOWING, 6 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, POLYETHYLENE, PE3408	2	EA
62	63051389	500870	FITTING,TEE, 6 IN IPS X 2 IN IPS, ELECTROFUSION HIGH VOLUME TAPPING WITH BUTT FUSION OUTLET, HDPE, ASTM F1055, BLACK, GFCP	1	EA
98	63424035	610764	FITTING,COUPLING, PIPE, LYCOFIT, 1/2 IN CTS X 0.090 IN WALL THK, PLASTIC, CMA 21658100	2	EA
99	63424109	610772	FITTING,COUPLING, REPAIR, LYCOFIT, 2 IN IPS, PLASTIC, SDR 11, CMA 21658101	1	EA



PREPARATORY TIE-IN DETAIL I
NOT TO SCALE

453 SUMNER AVE, SPRINGFIELD				DETAIL "I" FINAL	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
10	63078054	542539	CAP,PIPE, 6 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100	2	EA
90	63424221	610757	FITTING,CAP, END, LYCOFIT, 1/2 IN CTS X 0.090 IN THK WALL, PLASTIC, CMA 750823	2	EA
92	63424023	610763	FITTING,CAP, END, LYCOFIT, 2 IN IPS, PLASTIC, SDR 11, CMA 750830	1	EA



FINAL TIE-IN DETAIL I
NOT TO SCALE

ISSUED FOR REVIEW

FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

B	REVISED PER EGMA COMMENT	12/13/24	KMQ/DD
A	ISSUED FOR REVIEW	11/18/24	KMQ/DD
No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
453 SUMNER AVE - ENCROACHMENT, SPRINGFIELD, MA			
PROJECT # 25EG095 / WORK ORDER # 19253953			
PREPARATORY AND FINAL TIE-IN DETAILS			
SCALE:1"=30' ON 22"X34"		SHEET 18 OF 23	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
KMQ 11/11/2024	DD 11/15/2024	MA-SPR-PIP-24-294-18	B

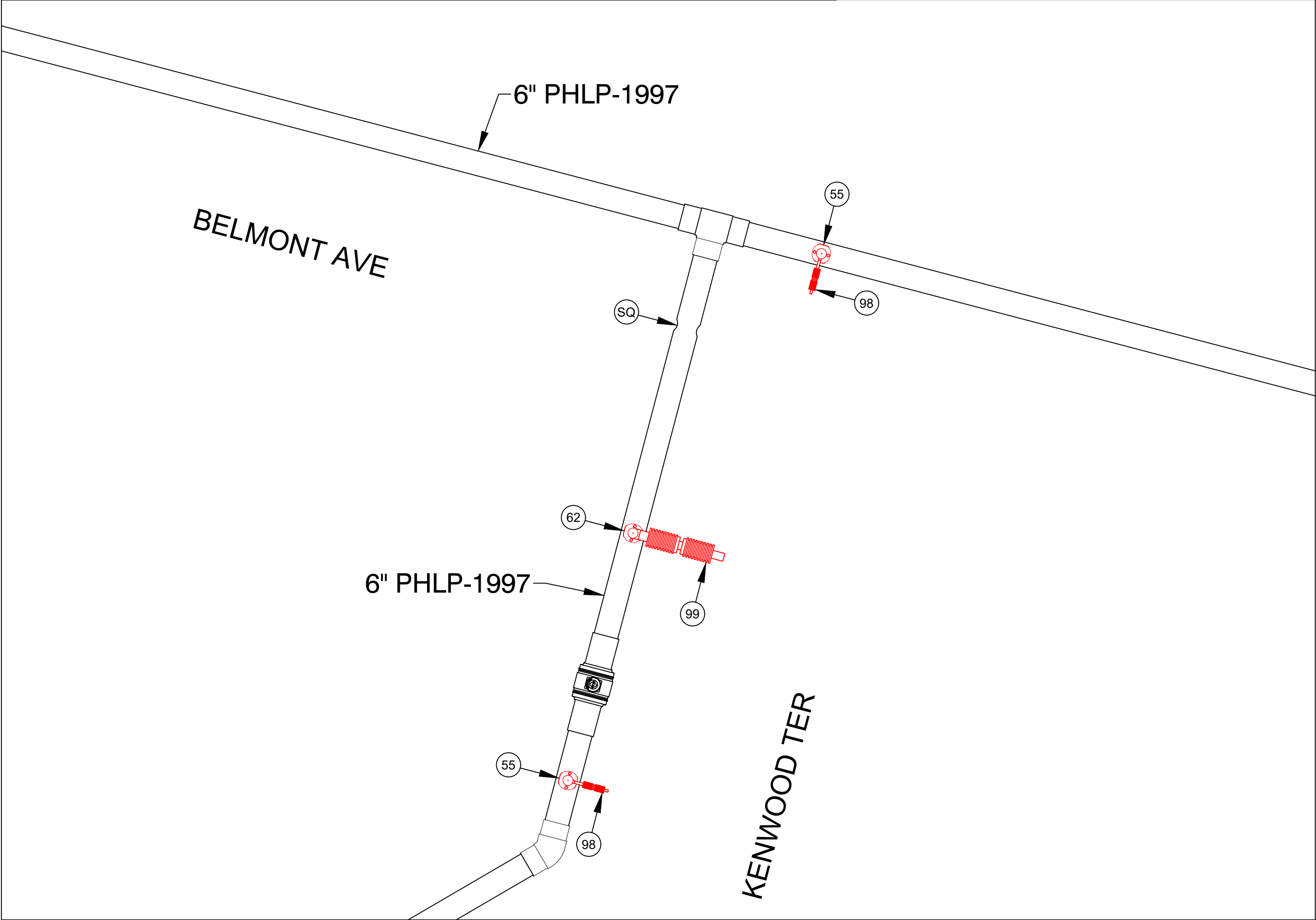
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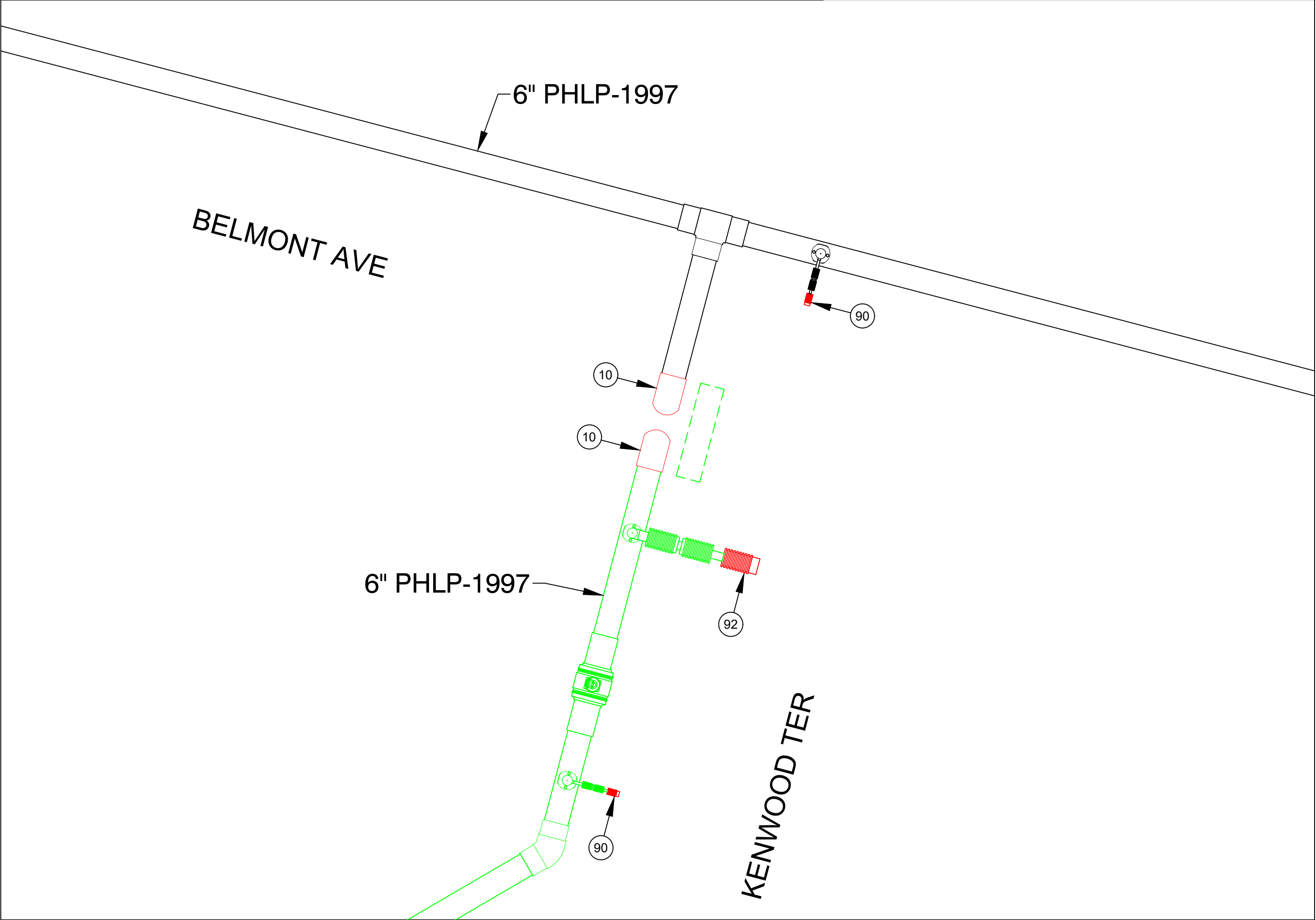


453 SUMNER AVE, SPRINGFIELD				DETAIL "J" PREPARATORY	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
55	63051277	500869	TEE,PIPE, NON-BLOWING, 6 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, POLYETHYLENE, PE3408	2	EA
62	63051389	500870	FITTING,TEE, 6 IN IPS X 2 IN IPS, ELECTROFUSION HIGH VOLUME TAPPING WITH BUTT FUSION OUTLET, HDPE, ASTM F1055, BLACK, GFCP	1	EA
98	63424035	610764	FITTING,COUPLING, PIPE, LYCOFIT, 1/2 IN CTS X 0.090 IN WALL THK, PLASTIC, CMA 21658100	2	EA
99	63424109	610772	FITTING,COUPLING, REPAIR, LYCOFIT, 2 IN IPS, PLASTIC, SDR 11, CMA 21658101	1	EA



PREPARATORY TIE-IN DETAIL J
NOT TO SCALE

453 SUMNER AVE, SPRINGFIELD				DETAIL "J" FINAL	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
10	63078054	542539	CAP,PIPE, 6 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100	2	EA
90	63424221	610757	FITTING,CAP, END, LYCOFIT, 1/2 IN CTS X 0.090 IN THK WALL, PLASTIC, CMA 750823	2	EA
92	63424023	610763	FITTING,CAP, END, LYCOFIT, 2 IN IPS, PLASTIC, SDR 11, CMA 750830	1	EA



FINAL TIE-IN DETAIL J
NOT TO SCALE

ISSUED FOR REVIEW



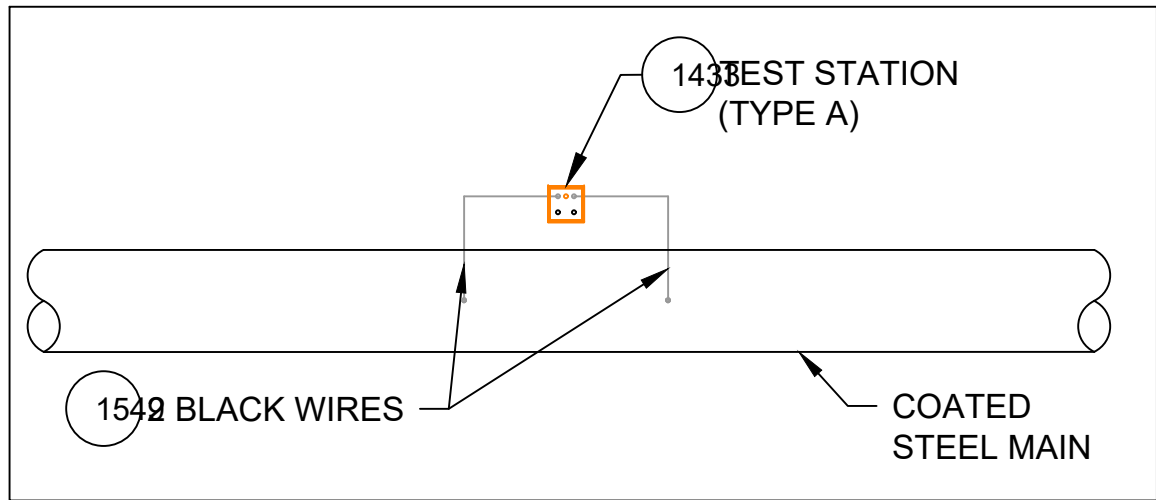
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FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

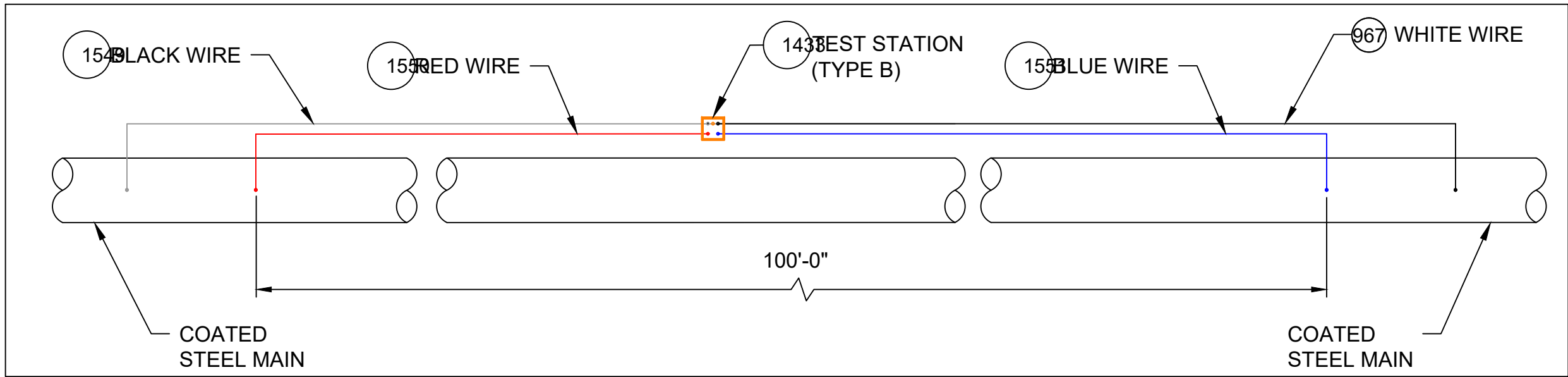
B	REVISED PER EGMA COMMENT	12/13/24	KMQ/DD
A	ISSUED FOR REVIEW	11/18/24	KMQ/DD
No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
453 SUMNER AVE - ENCROACHMENT, SPRINGFIELD, MA			
PROJECT # 25EG095 / WORK ORDER # 19253953			
PREPARATORY AND FINAL TIE-IN DETAILS			
SCALE:1"=30' ON 22"X34"		SHEET 19 OF 23	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
KMQ 11/11/2024	DD 11/15/2024	MA-SPR-PIP-24-294-19	B



TYPE A TEST STATION

DETAIL CP1

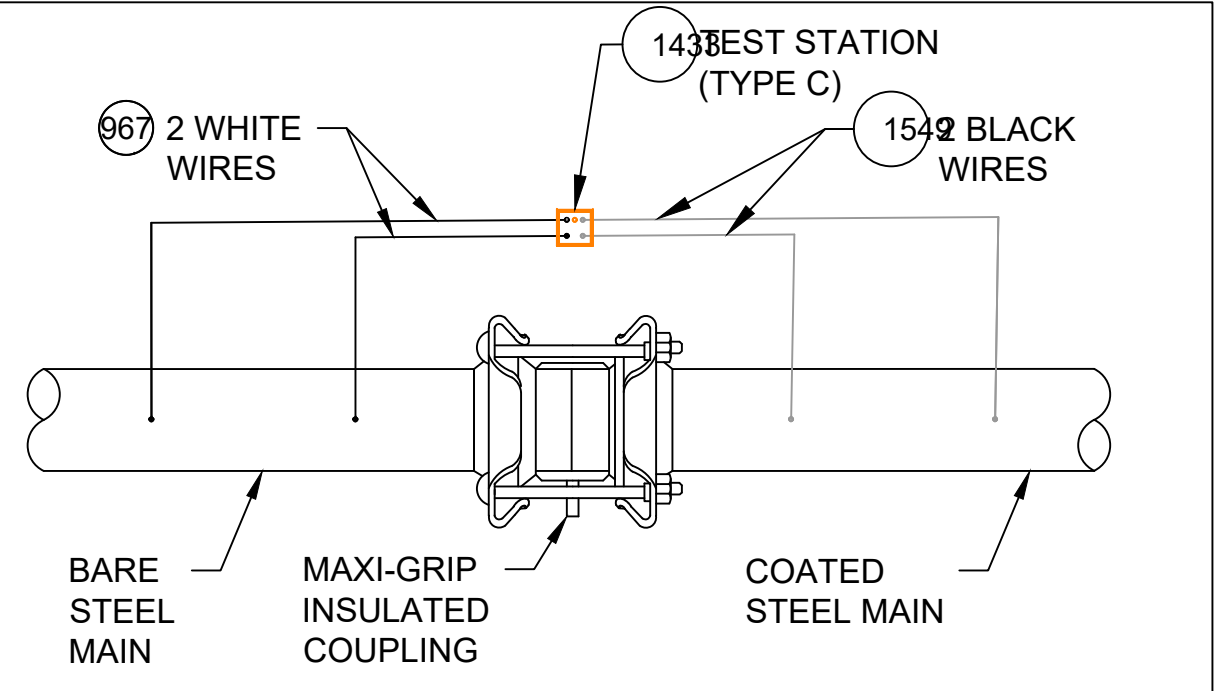
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TYPE B TEST STATION

DETAIL CP2

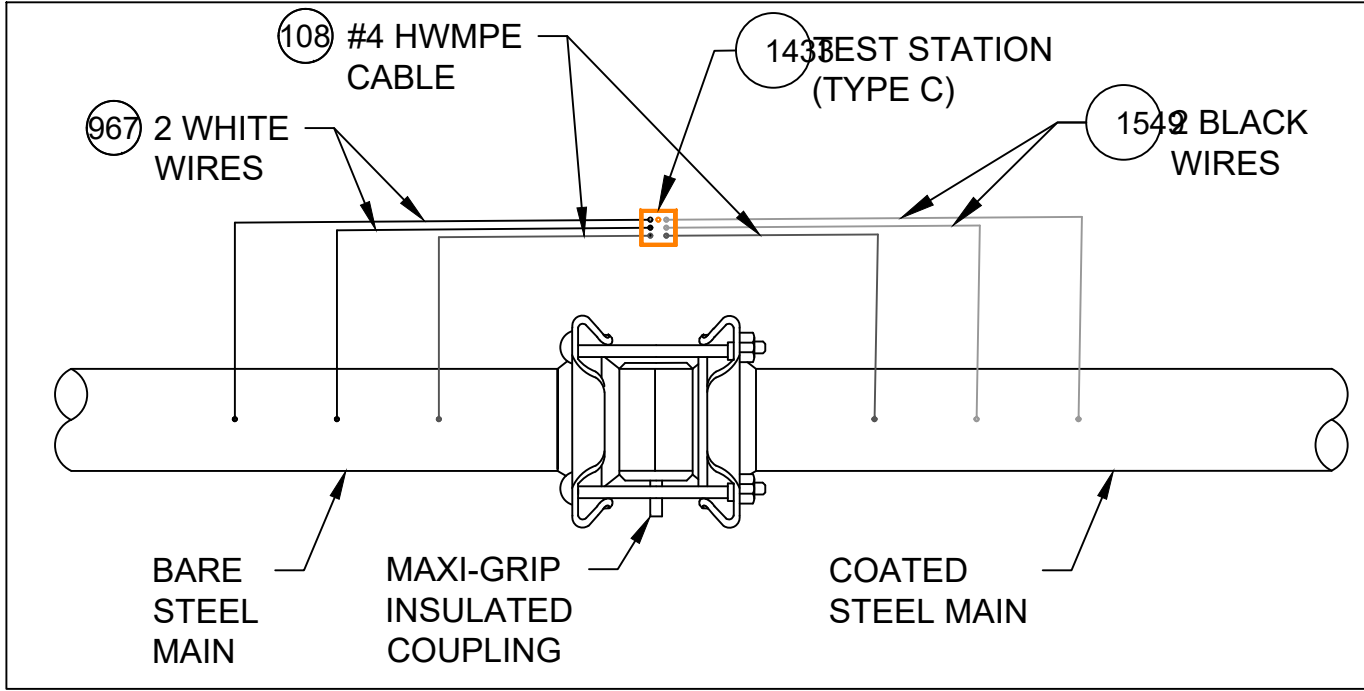
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TYPE C TEST STATION

DETAIL CP3

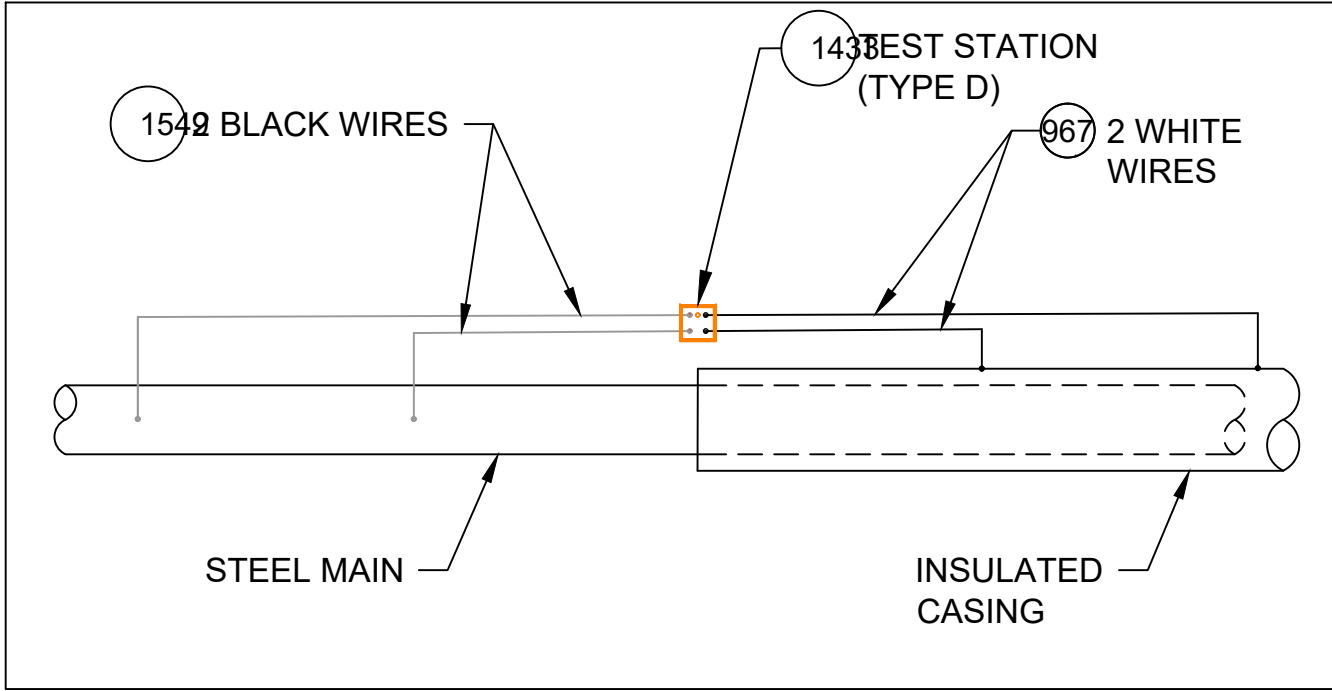
SCALE: 1/2" = 1'-0"



TYPE C TEST STATION - WITH #4 HWMPE CABLE

DETAIL CP4

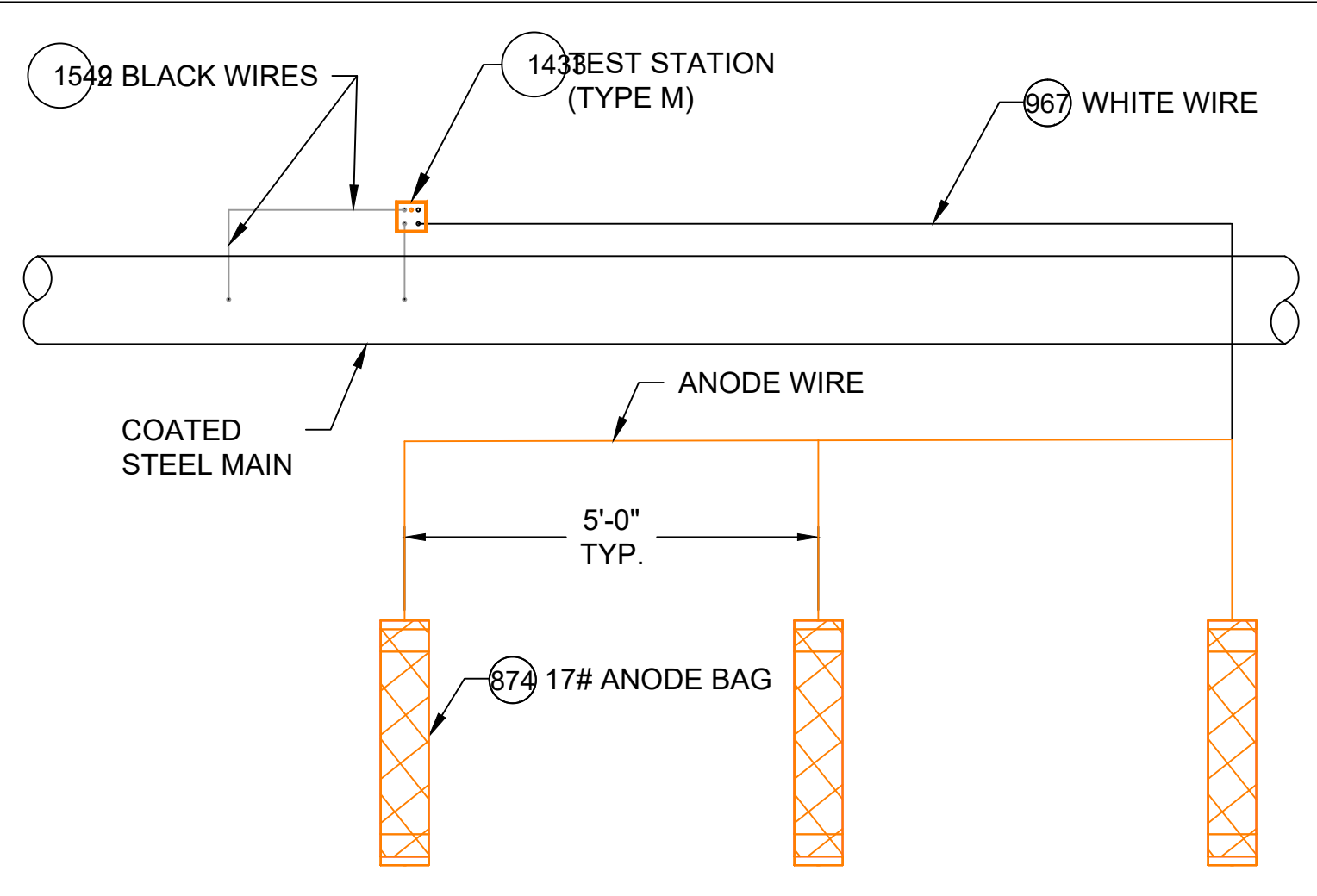
SCALE: 1/2" = 1'-0"



TYPE D TEST STATION (INSULATED CASING)

DETAIL CP5

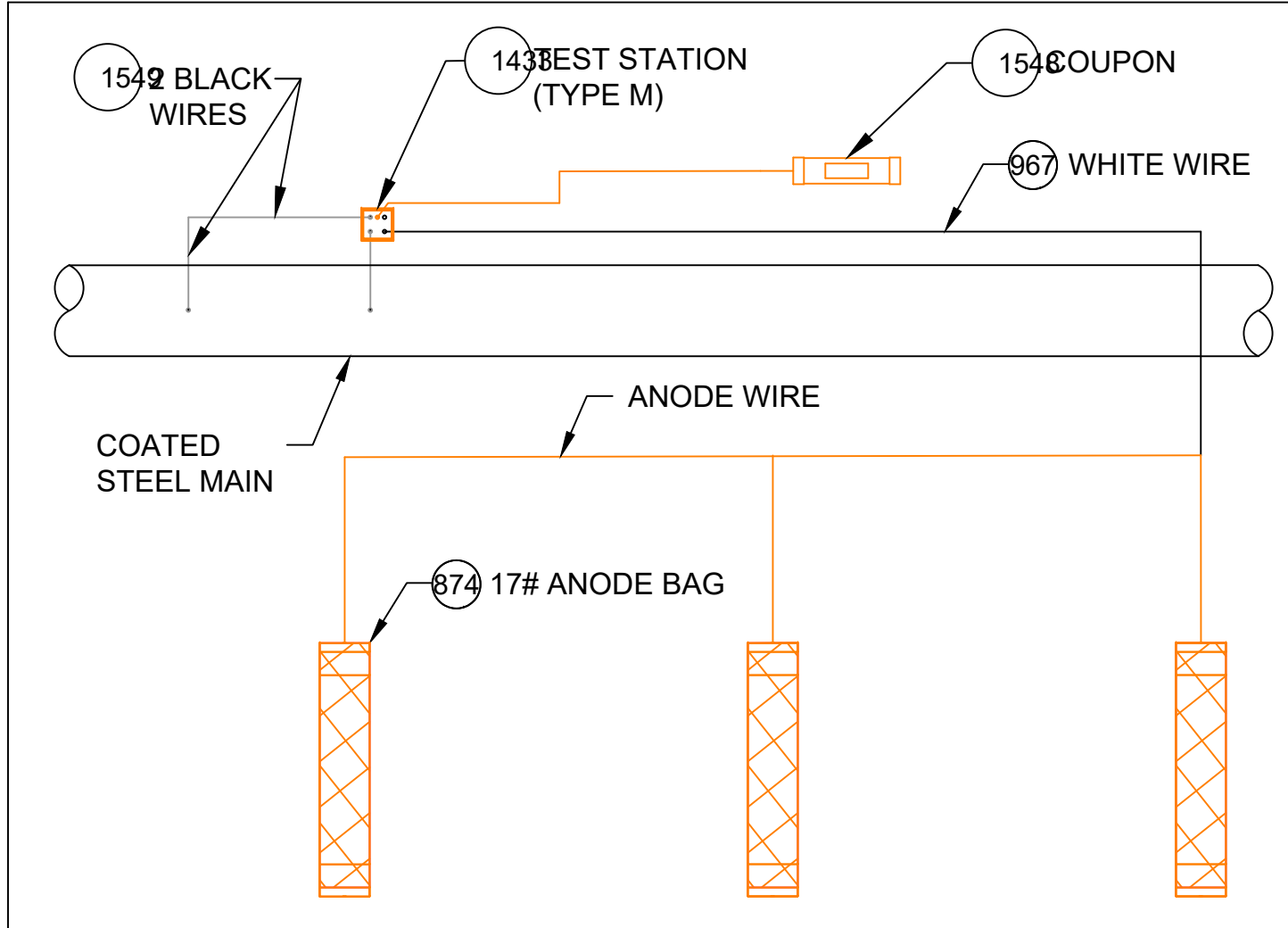
SCALE: 1/2" = 1'-0"



TYPE M TEST STATION (WITH ANODES)

DETAIL CP6

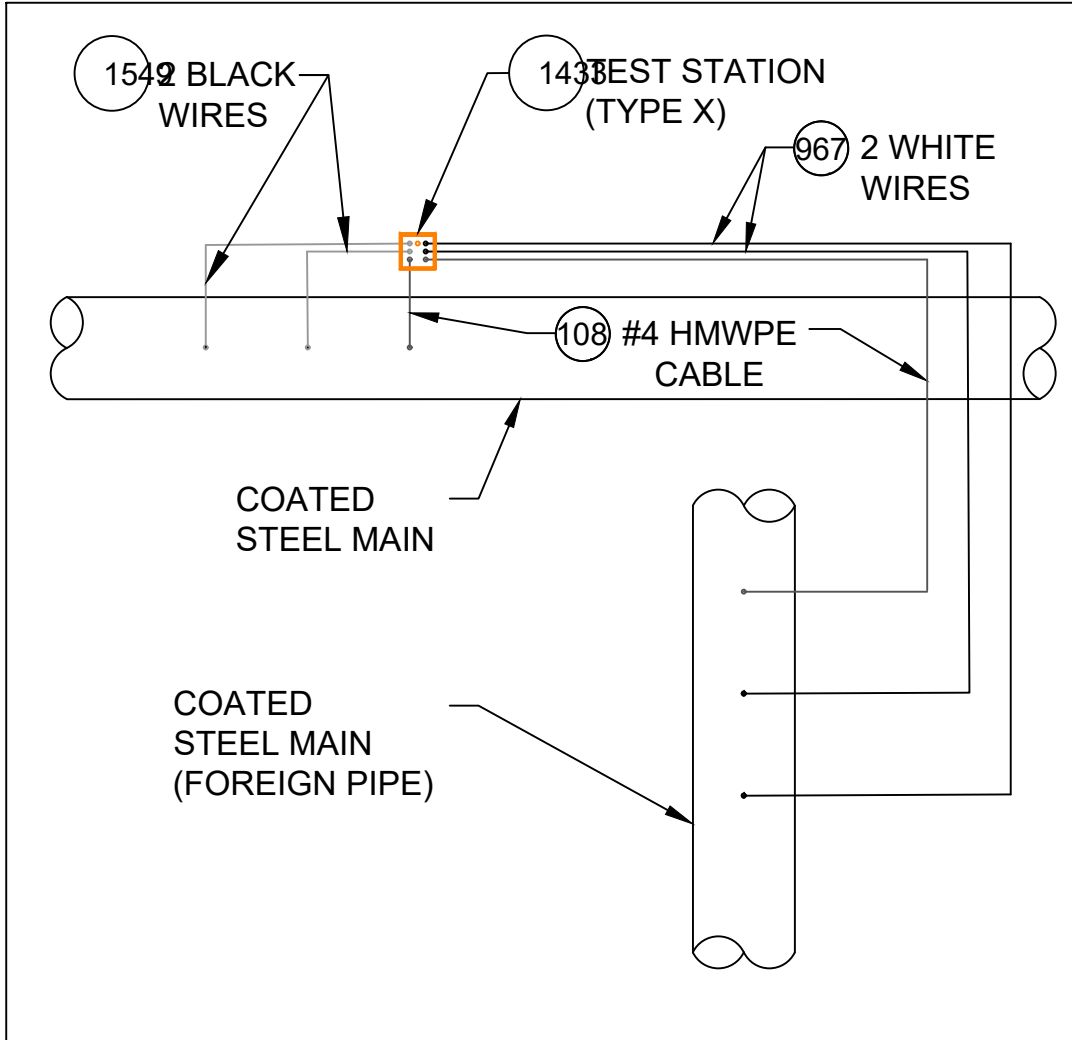
SCALE: 1/2" = 1'-0"



TYPE M TEST STATION (WITH COUPON AND ANODES)

DETAIL CP7

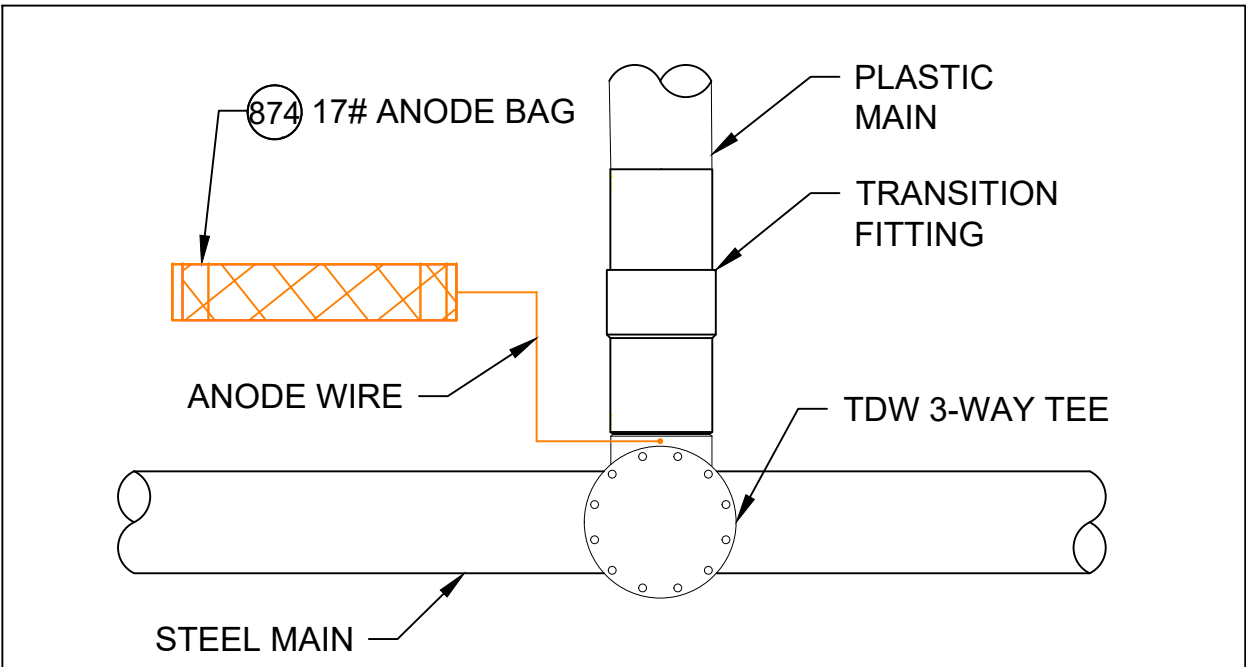
SCALE: 1/2" = 1'-0"



TYPE X TEST STATION

DETAIL CP8

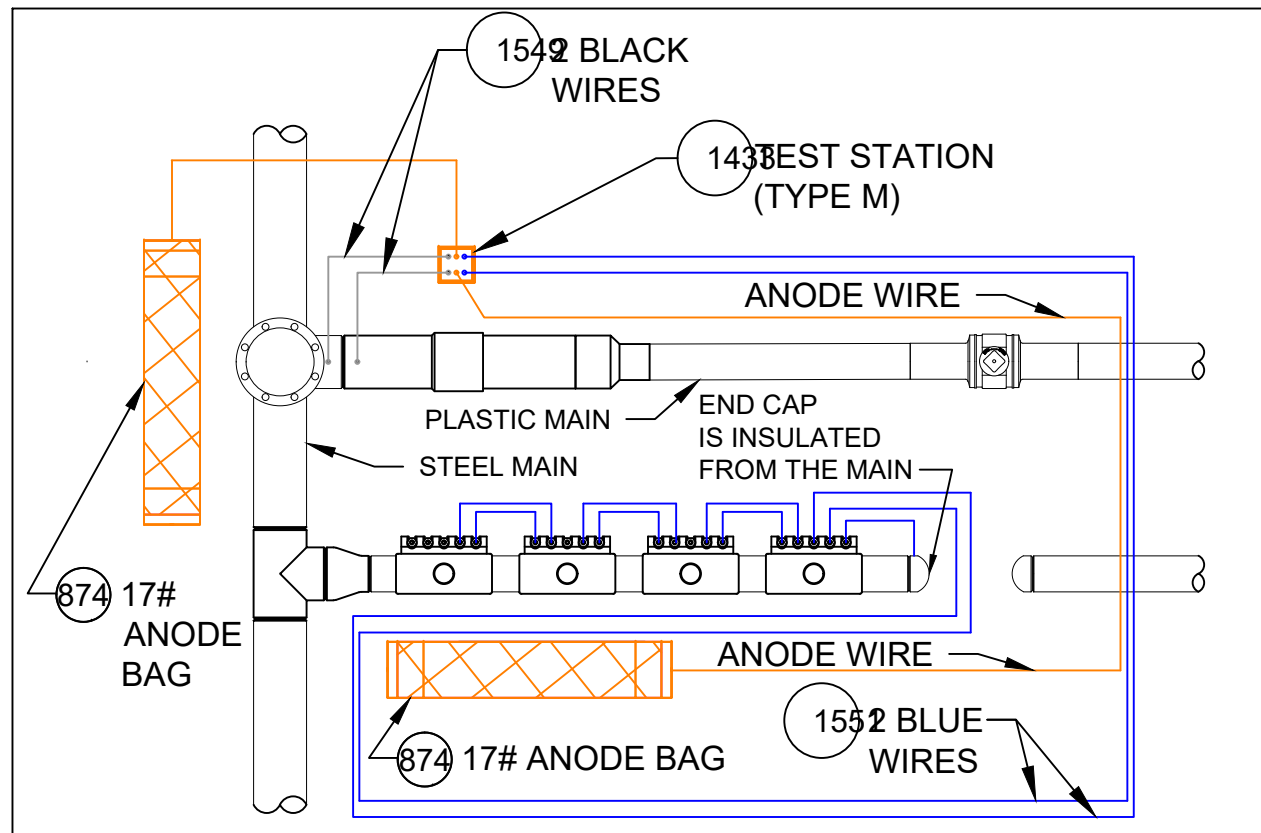
SCALE: 1/2" = 1'-0"



TDW 3-WAY TEE WITH ANODE

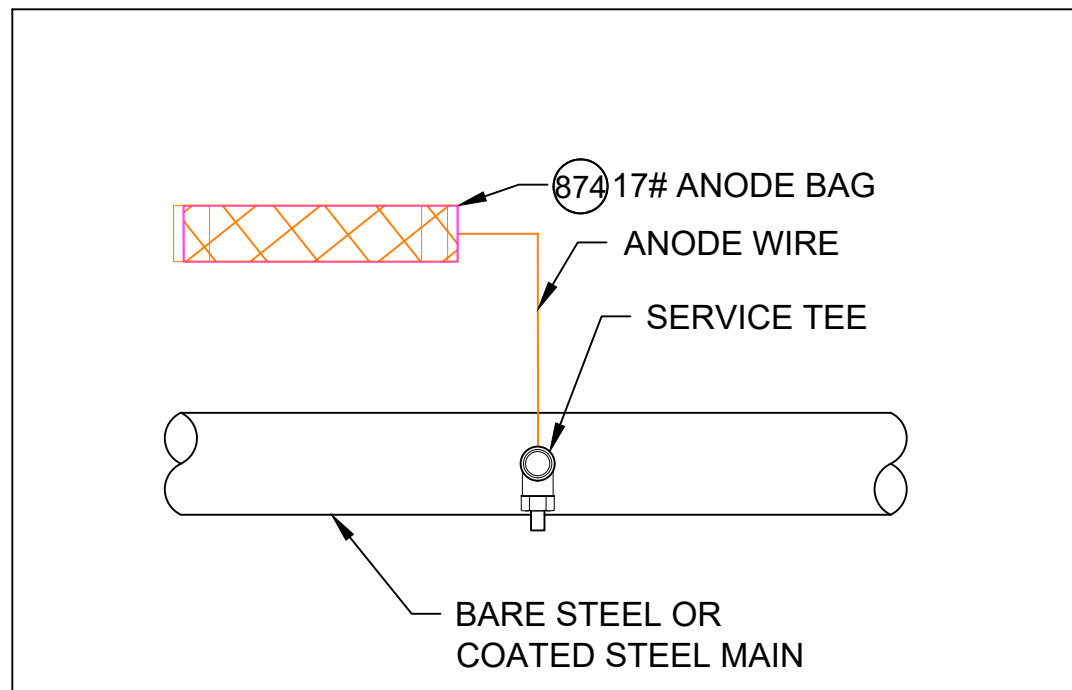
DETAIL CP9

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



DETAIL CP10

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



SERVICE TEE AND ANODE

DETAIL CP11

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

CATHODIC PROTECTION BILL OF MATERIALS MASTER BOM			
Item	Maximo No.	Description	Units
25	500804	WELDER,THERMITE, THERMITE, FOR GAS PIPE, #12 CABLE,HORIZONTAL STEEL PIPE 4 IN AND LARGER DIAMETER	EA
26	500805	WELDER,THERMITE, THERMITE, FOR GAS PIPE, #12 CABLE, HORIZONTAL STEEL PIPE 3/4 - 3-1/2 IN DIAMETER	EA
69	503673	TAPE,WAX, 9 FT LG X 4 IN W, 24 ROLLS/CS, ABOVE AND BELOW GROUND APPLICATIONS, TR-#2A WAX, ALUMINUM	ROLL
95	505818	ANODE,BAG, 2.5 X 2.5 X 4.5 IN, 10 FT LG, 3 LB, MAGNESIUM	EA
101	508567	POWDER, CARTRIDGE, TYPE IS F-33, ALLOY , CAP COLOR CLEAR, 15 GM CHARGE, 20/PAC, FOR STEEL PIPE	BOX
102	508572	PRIMER, 4 GAL/CASE, BROWN, FOR WAX TAPE, APPLICATION TEMP 0 TO 230 F, TEMCOAT 3000	EA
108	513850	CABLE, INSULATED, CATHODIC PROTECTION, 1/C, #4 AWG, 7 STR, 600 V, BLACK, HWMPE, CU, 1000 FT ROLLS	FT
116	517626	CONNECTOR, SPLIT BOLT, 12 SOLID - 10 STRANDED, CU TO CU, HOUSING (COVER) MATE IN 590389,	EA
657	559168	SLEEVE,ELECTRICAL, #14 TO 10 AWG, W/ THERMITE WELDER, FOR CATHODIC PROTECTION	EA
874	577776	ANODE,BAG, 17 LB NET, HIGH POTENTIAL MAGNESIUM, W/ 10 FT #10 AWG TW ORANGE LEAD WIRE, PACKED IN CARDBOARD BOX 42 LB TOTAL WEIGHT	EA
967	578415	WIRE,ELECTRICAL, THHN, 1/C, #10 AWG, STRANDED, WHITE, INSULATED, CU, 500 FT SPOOL, WIRE	ROLL
1219	584045	EDI CONCENTRIC COUPON ASSEMBLY INCLUDING UCB-ZIN-LW010, 10 FT OF CABLE	ES
1418	590389	HOUSING, 50 V MAX, 10 AWG MAX, FOR PROTECTING TRACER WIRE SPLICES, USED WITH CONNECTOR IN 517626, 10/BAG	EA
1433	590871	BOX VALVE, TEST STATION, CP TEST #178, 10-1/4 IN DIA. LID, 8-3/8 IN I.D. 16 IN H., ASTM A48 CL 25 CAST IRON, FOR OFF-ROAD USE ONLY	EA
1548	603126	EDI CONCENTRIC COUPON ASSEMBLY INCLUDING UCB-ZIN-LW025, 25 FT OF CABLE	ES
1549	603139	WIRE,ELECTRICAL, THHN, 1/C, #10 AWG, STRANDED, BLACK, INSULATED, CU, 500 FT SPOOL,WIRE	ROLL
1550	603140	WIRE,ELECTRICAL, THHN, 1/C, #10 AWG, STRANDED, RED, INSULATED, CU, 500 FT SPOOL, WIRE	ROLL
1551	603141	WIRE,ELECTRICAL, THHN, 1/C, #10 AWG, STRANDED, BLUE INSULATED, CU, 500 FT SPOOL, WIRE	ROLL
1565	603423	TAPE,WAX, 9 FT LG X 6 IN W X 70-90 MIL THK, 16 ROLLS/CS, ABOVE AND BELOW GROUND APPLICATIONS, TR-#2A WAX, ALUMINUM	ROLL
1573	603769	TRENTON-FILL POR PM-GP,140 FA, FOR FILLING VOIDS & IRREGULAR SPACES PRIOR TO WRAPPING W/WAX TAPE, OF TO 110F APPLICATION TEMPERATURE, 6 BLOCKS/CASE,	CASE
1576	603894	BOX,CORROSION, 18 IN LG, 5 IN DP, CI, W/ 5 TERMINAL, HOOKS, NON-LOCKING LID, YELLOW, LID MARKED 'CP TEST' - CATHODIC PROTECTION, CP TEST BOX	EA
1845	513849	CABLE, INSULATED, CATHODIC PROTECTION, 1/C, #8 AWG, 600 V	EA
1846	584942	WIRE,ELECTRICAL, CATHODIC PROTECTION CABLE, #6, HWMPE INSULATED	EA
1847	583055	ENCAPSULATION KIT, 2 PART, RESIN EPOXY, MOLD BODY, THRU 1 KV, INSULATES AND MOISTURE SEALS WYE CONNECTIONS	EA

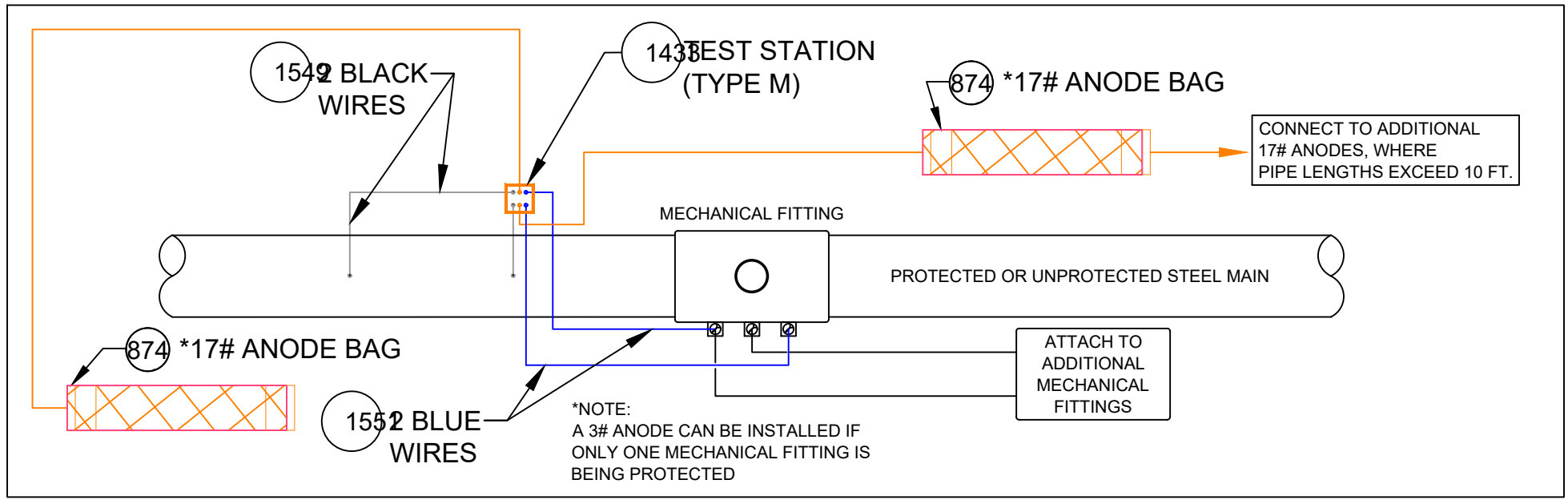
NOTES:

- ALL TEST STATION BOXES SHOULD BE INSTALLED IN A SAFE LOCATION WHERE ONE INDIVIDUAL CAN SAFELY OPEN AND ACCESS THE TEST WIRES. ALL TEST WIRES INSIDE THE BOX SHOULD HAVE ENOUGH SLACK ON THE WIRES SO THEY CAN EXTEND A MINIMUM OF 12" ABOVE GRADE.
- FOR TYPE A TEST STATIONS, THE TWO WIRES SHOULD BE THERMITE WELDED TO THE COATED STEEL MAIN AND BE THE SAME COLOR. (COUPONS COULD BE ADDED TO THE TEST STATION TYPE).
- FOR TYPE B TEST STATIONS, EACH OF THE FOUR WIRES SHOULD BE A DIFFERENT COLOR AND DOCUMENTED
- FOR TYPE C TEST STATIONS, THE WIRES SHOULD BE THE SAME COLOR ON EACH SIDE OF THE INSULATED COUPLING. (ANODES AND/OR COUPONS COULD BE ADDED TO THIS TEST STATION TYPE).
- 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. (ANODES AND/OR COUPONS COULD BE ADDED TO THIS TEST STATION TYPE).
- FOR TYPE M TEST STATIONS, THE TWO WIRES THERMITE WELDED TO THE CARRIER PIPE SHOULD BE THE SAME COLOR WIRE. THERE IS ALSO MAGNESIUM ANODE(S) WIRE(S) LOCATED INSIDE THE TEST STATION BOX.THE WIRE COLOR (TYPICALLY ORANGE) FOR THE ANODES. IF THE ANODE WIRES ARE SPLICED TO A COMMON ANODE HEADER CABLE, THE ANODE HEADER 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, NO MAGNESIUM ANODES SHOULD BE DIRECTLY THERMITE WELDED TO THE CARRIER PIPE OR IN CONTACT WITH THE CARRIER PIPE. THE ANODE HEADER WIRE OR INDIVIDUAL ANODE WIRES SHOULD TERMINATE INSIDE THE TEST STATION BOX. ANODES SHOULD BE SPACED A MINIMUM OF 5' ON CENTER FROM EACH OTHER AND A MINIMUM OF 12" AWAY AND BELOW THE BOTTOM OF THE STEEL MAIN.
- IF COUPONS ARE TO BE INSTALLED , FIRST REMOVE THE PROTECTIVE LABEL COVERING THE STEEL COUPON AND THE RED STICKERS COVERING EACH SENSING PORT. CLEAN THE ENTIRE STEEL COUPON SURFACE WITH ALCOHOL TO REMOVE THE CORROSION INHIBITOR. PLACE THE COUPON ASSEMBLY APPROXIMATELY 12" FROM THE GAS MAIN BEING MONITORED WITH THE SENSING PORTS FACING THE GAS MAIN. THE COUPON ASSEMBLY SHOULD BE LOCATED ADJACENT TO THE BOTTOM PORTION OF THE GAS MAIN, ANYWHERE BETWEEN 3 O'CLOCK AND 9 O'CLOCK. THE SOIL BETWEEN THE COUPON AND THE MAIN SHOULD BE WELL COMPACTED AND CONTAIN NO ROCKS LARGER THAN A CENTIMETER IN DIAMETER OR FOREIGN MATERIAL.
- ONE (1) 3# ANODE (MINIMUM) SHALL BE INSTALLED TO PROTECT THE CLAMPS ON EACH 10-FOOT SPAN OF PIPE. EACH 10-FOOT SPAN OF PIPE MUST BE A CONTINUOUS SECTION OF STEEL. CLAMPS ON NON-CONTINUOUS SECTIONS OF STEEL EVEN IF THEY ARE WITHIN 10 FEET OF EACH CANNOT BE PROTECTED BY THE SAME ANODE.
- REFER TO CONSTRUCTION STANDARD CS-500 SECTION IV.G WHICH PROVIDES GENERAL GUIDANCE REGARDING "WRAPPING" FOR CORROSION PROTECTION. CS-500 SECTION IV.G.5. DESCRIBES THE BASIC STEPS REQUIRED TO WRAP LEAK REPAIR CLAMPS.

NOTE: DETAILS CP-9 AND CP-11 ARE FOR NEW STEEL FITTINGS THAT ARE NOT ELECTRICALLY ISOLATED FROM EXISTING UNPROTECTED STEEL. THESE ANODES ARE DIRECTLY CONNECTED TO THE NEW STEEL FITTING AND THE ANODE MUST BE A MINIMUM OF 2 FEET FROM ANY NEW ISOLATED FITTINGS OR ASSOCIATED ANODES.

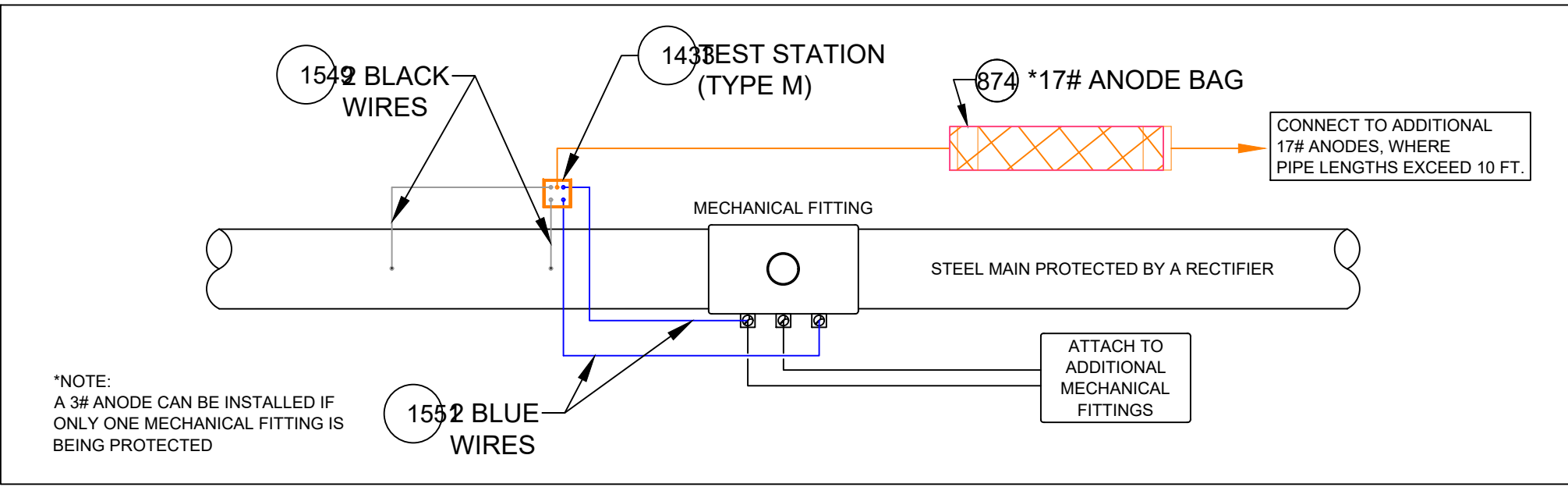
6	ADDED DETAIL CP18 FOR TYPE P TEST STATION	07/03/24	WBH/KJK/MJL
5	REVISED BOM ITEMS TO MATCH STANDARD BOM REV. 10	02/21/24	WBH/KJK/MJL
4	REVISED BOM ITEMS TO MATCH STANDARD BOM REV. 9	11/17/23	WBH/KJK/MJL
3	REVISED BOM ITEMS TO MATCH STANDARD BOM REV. 8	03/13/23	WBH/KJK/MJL
2	ADDED DETAILS CP10, 16A & 17A AND REVISED OTHER DETAILS	02/08/23	WBH/KJK/MJL
1	ADDED DETAILS CP12 & CP13, NOTES AND REVISED BOM	02/02/21	WBH/KJK/MJL
No.	Description	Date	Dw/Ck/Ap
Revision/Status			
EVERSOURCE ENERGY			
STANDARD CS-500 CORROSION DETAILS			
STREET ADDRESS, TOWN/CITY			
DETAILS, NOTES AND BILL OF MATERIALS			
SCALE: 1/2" = 1'-0"		SHEET 1 OF 3	
Drawn by / Date WBH 10/05/20	Checked by / Date KJK 10/19/20	Sheet Number 00101	Rev. No. 6
Approved by / Date MJL 10/19/20	453 Sumner Ave - Encroachment - Pro Drawing RevB (8505 : EVERSOURCE- Sumner Ave.)		

FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION



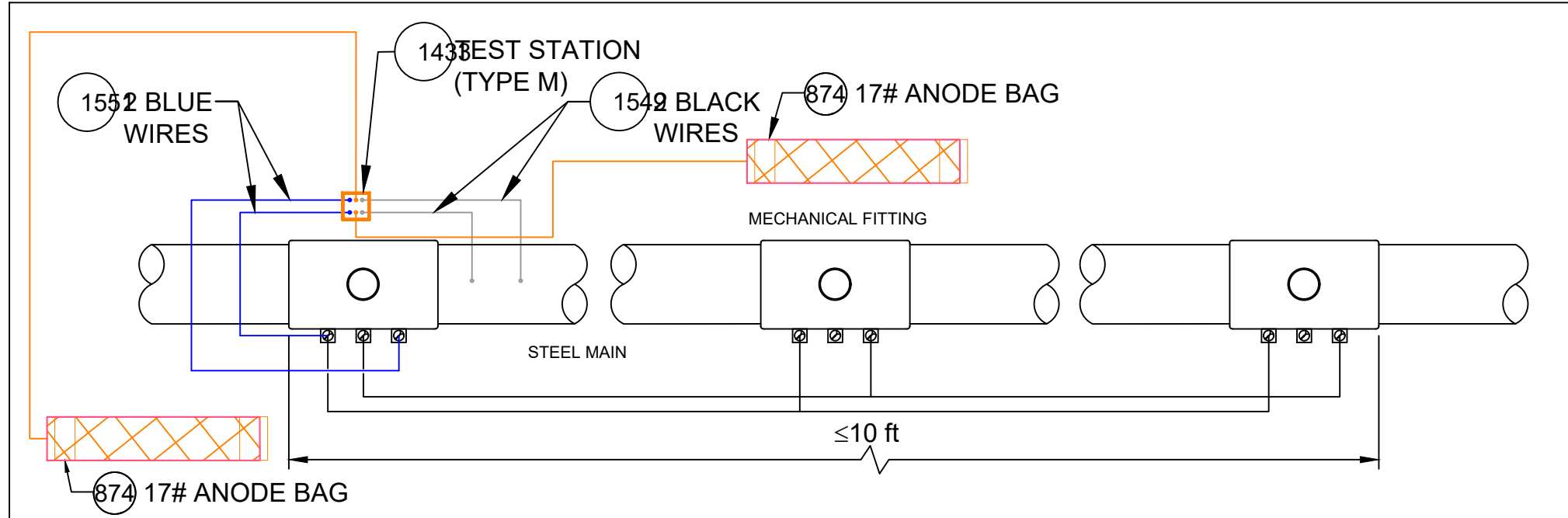
TEST STATION CONNECTION DETAILS FOR MECHANICAL FITTINGS
INSTALLED ON A STEEL MAIN

DETAIL CP12
SCALE: 1/2" = 1'-0"



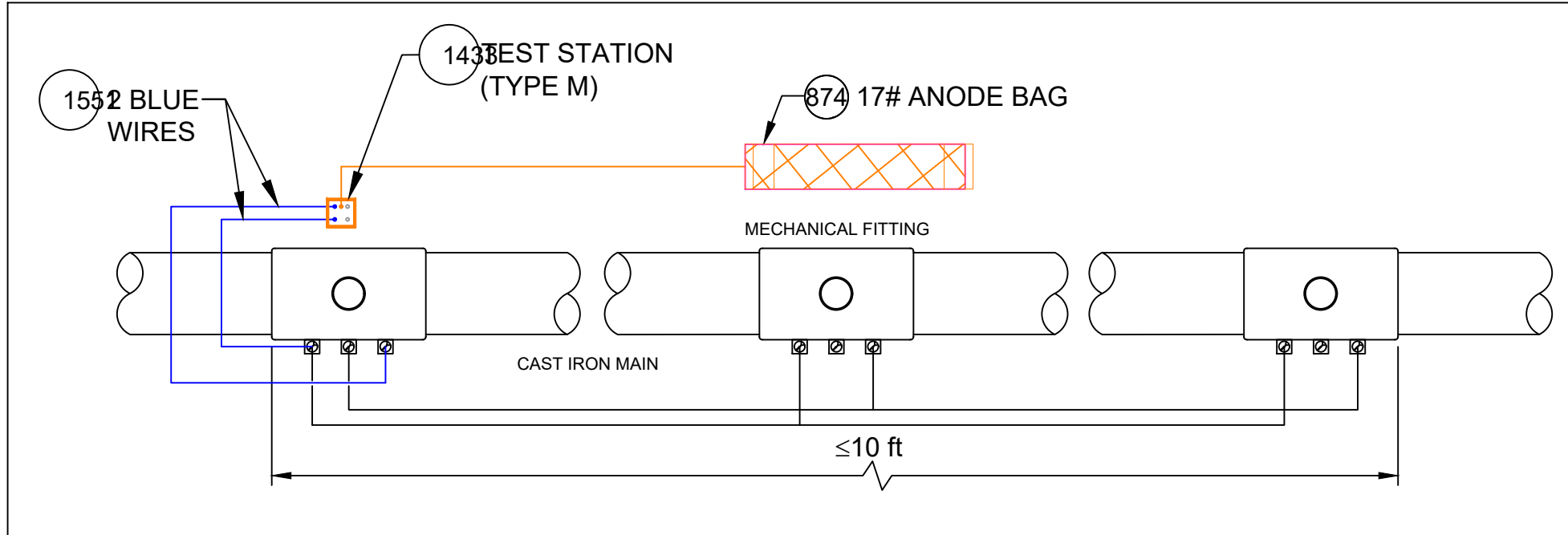
TEST STATION CONNECTION DETAILS FOR MECHANICAL FITTINGS
INSTALLED ON STEEL MAIN PROTECTED BY A RECTIFIER

DETAIL CP13
SCALE: 1/2" = 1'-0"



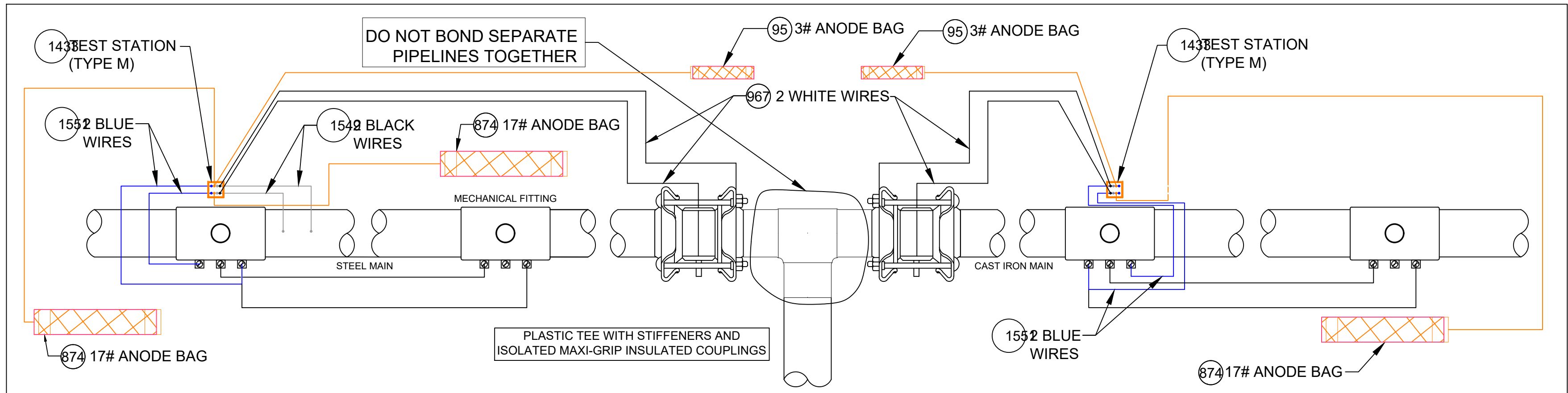
ANODE INSTALLATION FOR MULTIPLE MECHANICAL FITTINGS
INSTALLED ON A ELECTRICALLY CONTINUOUS SECTION OF STEEL MAIN

DETAIL CP14
SCALE: 1/2" = 1'-0"



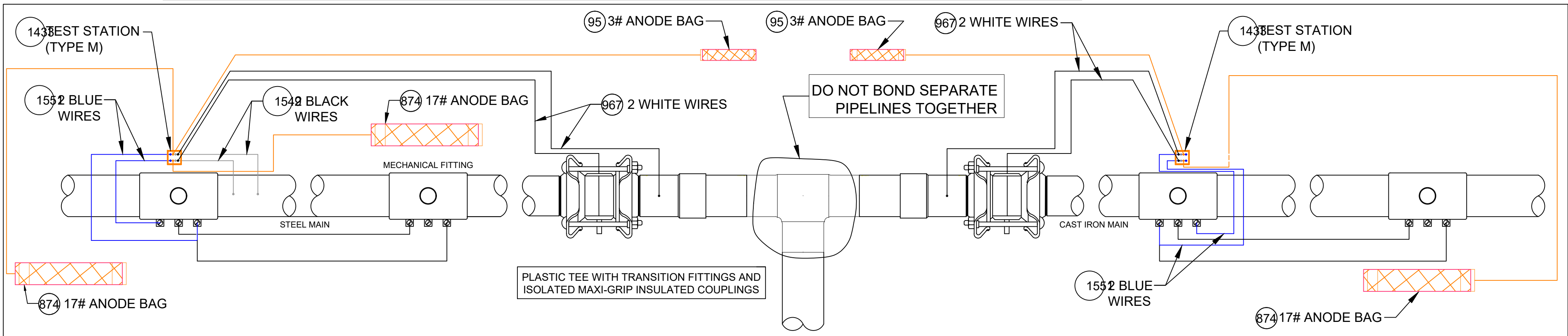
ANODE INSTALLATION FOR MULTIPLE MECHANICAL FITTINGS
INSTALLED ON A CAST IRON MAIN

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



ANODE INSTALLATION FOR MULTIPLE MECHANICAL FITTINGS
INSTALLED ON NON-ELECTRICALLY CONTINUOUS SECTIONS OF STEEL AND CAST IRON PIPING

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



ANODE INSTALLATION FOR MULTIPLE MECHANICAL FITTINGS
INSTALLED ON NON-ELECTRICALLY CONTINUOUS SECTIONS OF STEEL AND CAST IRON PIPING

DETAIL CP16A
SCALE: 1/2" = 1'-0"

CATHODIC PROTECTION BILL OF MATERIALS MASTER BOM			
Item	Maximo No.	Description	Units
25	500804	WELDER,THERMITE, THERMITE, FOR GAS PIPE, #12 CABLE,HORIZONTAL STEEL PIPE 4 IN AND LARGER DIAMETER	EA
26	500805	WELDER,THERMITE, THERMITE, FOR GAS PIPE, #12 CABLE, HORIZONTAL STEEL PIPE 3/4 - 3-1/2 IN DIAMETER	EA
69	503673	TAPE,WAX, 9 FT LG X 4 IN W, 24 ROLLS/CS, ABOVE AND BELOW GROUND APPLICATIONS, TR-#2A WAX, ALUMINUM	ROLL
95	505818	ANODE,BAG, 2.5 X 2.5 X 4.5 IN, 10 FT LG, 3 LB, MAGNESIUM	EA
101	508567	POWDER, CARTRIDGE, TYPE IS F-33, ALLOY , CAP COLOR CLEAR, 15 GM CHARGE, 20/PAC, FOR STEEL PIPE	BOX
102	508572	PRIMER, 4 GAL/CASE, BROWN, FOR WAX TAPE, APPLICATION TEMP 0 TO 230 F, TEMCOAT 3000	EA
108	513850	CABLE, INSULATED, CATHODIC PROTECTION, 1/C, #4 AWG, 7 STR, 600 V, BLACK, HMWPE, CU, 1000 FT ROLLS	FT
116	517626	CONNECTOR, SPLIT BOLT, 12 SOLID - 10 STRANDED, CU TO CU, HOUSING (COVER) MATE IN 590389,	EA
657	559168	SLEEVE,ELECTRICAL, #14 TO 10 AWG, W/ THERMITE WELDER, FOR CATHODIC PROTECTION	EA
874	577776	ANODE,BAG, 17 LB NET, HIGH POTENTIAL MAGNESIUM, W/ 10 FT #10 AWG TW ORANGE LEAD WIRE, PACKED IN CARDBOARD BOX 42 LB TOTAL WEIGHT	EA
967	578415	WIRE,ELECTRICAL, THHN, 1/C, #10 AWG, STRANDED, WHITE, INSULATED, CU, 500 FT SPOOL, WIRE	ROLL
1219	584045	EDI CONCENTRIC COUPON ASSEMBLY INCLUDING UCB-ZIN-LW010, 10 FT OF CABLE	ES
1418	590389	HOUSING, 50 V MAX, 10 AWG MAX, FOR PROTECTING TRACER WIRE SPLICES, USED WITH CONNECTOR IN 517626, 10/BAG	EA
1433	590871	BOX VALVE, TEST STATION, CP TEST #178, 10-1/4 IN DIA. LID, 8-3/8 IN I.D. 16 IN H., ASTM A48 CL 25 CAST IRON, FOR OFF-ROAD USE ONLY	EA
1548	603126	EDI CONCENTRIC COUPON ASSEMBLY INCLUDING UCB-ZIN-LW025, 25 FT OF CABLE	ES
1549	603139	WIRE,ELECTRICAL, THHN, 1/C, #10 AWG, STRANDED, BLACK, INSULATED, CU, 500 FT SPOOL,WIRE	ROLL
1550	603140	WIRE,ELECTRICAL, THHN, 1/C, #10 AWG, STRANDED, RED, INSULATED, CU, 500 FT SPOOL, WIRE	ROLL
1551	603141	WIRE,ELECTRICAL, THHN, 1/C, #10 AWG, STRANDED, BLUE INSULATED, CU, 500 FT SPOOL, WIRE	ROLL
1565	603423	TAPE,WAX, 9 FT LG X 6 IN W X 70-90 MIL THK, 16 ROLLS/CS, ABOVE AND BELOW GROUND APPLICATIONS, TR-#2A WAX, ALUMINUM	ROLL
1573	603769	TRENTON-FILL POR PM-GP,140 FA, FOR FILLING VOIDS & IRREGULAR SPACES PRIOR TO WRAPPING W/WAX TAPE, OF TO 110F APPLICATION TEMPERATURE, 6 BLOCKS/CASE,	CASE
1576	603894	BOX,CORROSION, 18 IN LG, 5 IN DP, CI, W/ 5 TERMINAL, HOOKS, NON-LOCKING LID, YELLOW, LID MARKED 'CP TEST' - CATHODIC PROTECTION, CP TEST BOX	EA
1845	513849	CABLE, INSULATED, CATHODIC PROTECTION, 1/C, #8 AWG, 600 V	EA
1846	584942	WIRE,ELECTRICAL, CATHODIC PROTECTION CABLE, #6, HMWPE INSULATED	EA
1847	583055	ENCAPSULATION KIT, 2 PART, RESIN EPOXY, MOLD BODY, THRU 1 KV, INSULATES AND MOISTURE SEALS WYE CONNECTIONS	EA

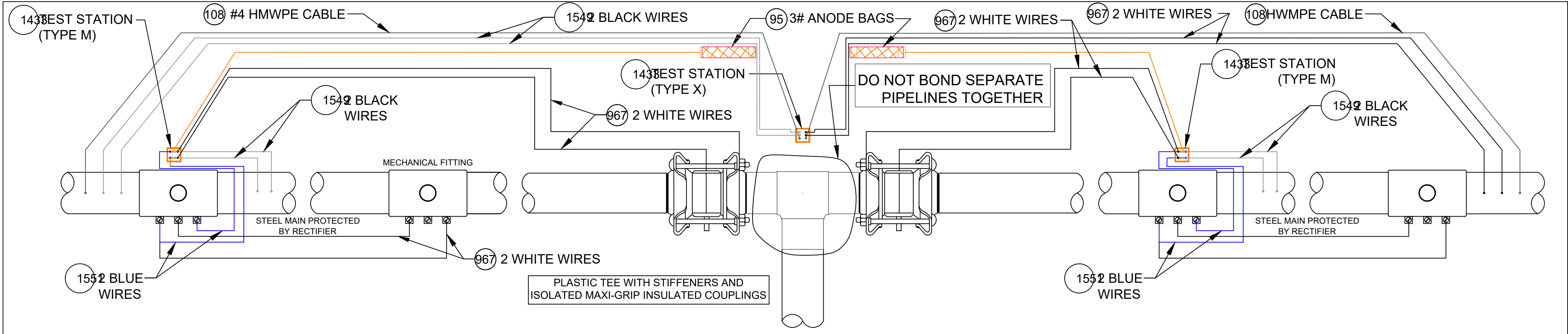
NOTES:

- ALL TEST STATION BOXES SHOULD BE INSTALLED IN A SAFE LOCATION WHERE ONE INDIVIDUAL CAN SAFELY OPEN AND ACCESS THE TEST WIRES. ALL TEST WIRES INSIDE THE BOX SHOULD HAVE ENOUGH SLACK ON THE WIRES SO THEY CAN EXTEND A MINIMUM OF 12" ABOVE GRADE.
- FOR TYPE A TEST STATIONS, THE TWO WIRES SHOULD BE THERMITE WELDED TO THE COATED STEEL MAIN AND BE THE SAME COLOR. (COUPONS COULD BE ADDED TO THE TEST STATION TYPE).
- FOR TYPE B TEST STATIONS, EACH OF THE FOUR WIRES SHOULD BE A DIFFERENT COLOR AND DOCUMENTED
- FOR TYPE C TEST STATIONS, THE WIRES SHOULD BE THE SAME COLOR ON EACH SIDE OF THE INSULATED COUPLING. (ANODES AND/OR COUPONS COULD BE ADDED TO THIS TEST STATION TYPE).
- 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. (ANODES AND/OR COUPONS COULD BE ADDED TO THIS TEST STATION TYPE).
- FOR TYPE M TEST STATIONS, THE TWO WIRES THERMITE WELDED TO THE CARRIER PIPE SHOULD BE THE SAME COLOR WIRE. THERE IS ALSO MAGNESIUM ANODE(S) WIRE(S) LOCATED INSIDE THE TEST STATION BOX.THE WIRE COLOR (TYPICALLY ORANGE) FOR THE ANODES. IF THE ANODE WIRES ARE SPLICED TO A COMMON ANODE HEADER CABLE, THE ANODE HEADER 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, NO MAGNESIUM ANODES SHOULD BE DIRECTLY THERMITE WELDED TO THE CARRIER PIPE OR IN CONTACT WITH THE CARRIER PIPE. THE ANODE HEADER WIRE OR INDIVIDUAL ANODE WIRES SHOULD TERMINATE INSIDE THE TEST STATION BOX. ANODES SHOULD BE SPACED A MINIMUM OF 5' ON CENTER FROM EACH OTHER AND A MINIMUM OF 12" AWAY AND BELOW THE BOTTOM OF THE STEEL MAIN.
- IF COUPONS ARE TO BE INSTALLED , FIRST REMOVE THE PROTECTIVE LABEL COVERING THE STEEL COUPON AND THE RED STICKERS COVERING EACH SENSING PORT. CLEAN THE ENTIRE STEEL COUPON SURFACE WITH ALCOHOL TO REMOVE THE CORROSION INHIBITOR. PLACE THE COUPON ASSEMBLY APPROXIMATELY 12" FROM THE GAS MAIN BEING MONITORED WITH THE SENSING PORTS FACING THE GAS MAIN. THE COUPON ASSEMBLY SHOULD BE LOCATED ADJACENT TO THE BOTTOM PORTION OF THE GAS MAIN, ANYWHERE BETWEEN 3 O'CLOCK AND 9 O'CLOCK. THE SOIL BETWEEN THE COUPON AND THE MAIN SHOULD BE WELL COMPACTED AND CONTAIN NO ROCKS LARGER THAN A CENTIMETER IN DIAMETER OR FOREIGN MATERIAL.
- ONE (1) 3# ANODE (MINIMUM) SHALL BE INSTALLED TO PROTECT THE CLAMPS ON EACH 10-FOOT SPAN OF PIPE. EACH 10-FOOT SPAN OF PIPE MUST BE A CONTINUOUS SECTION OF STEEL. CLAMPS ON NON-CONTINUOUS SECTIONS OF STEEL EVEN IF THEY ARE WITHIN 10 FEET OF EACH CANNOT BE PROTECTED BY THE SAME ANODE.
- REFER TO CONSTRUCTION STANDARD CS-500 SECTION IV.G WHICH PROVIDES GENERAL GUIDANCE REGARDING "WRAPPING" FOR CORROSION PROTECTION. CS-500 SECTION IV.G.5. DESCRIBES THE BASIC STEPS REQUIRED TO WRAP LEAK REPAIR CLAMPS.

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

6	ADDED DETAIL CP18 FOR TYPE P TEST STATION	07/03/24	WBH/KJK/MJL
5	REVISED BOM ITEMS TO MATCH STANDARD BOM REV. 10	02/21/24	WBH/KJK/MJL
4	REVISED BOM ITEMS TO MATCH STANDARD BOM REV. 9	11/17/23	WBH/KJK/MJL
3	REVISED BOM ITEMS TO MATCH STANDARD BOM REV. 8	03/13/23	WBH/KJK/MJL
2	ADDED DETAILS CP10, 16A & 17A AND REVISED OTHER DETAILS	02/08/23	WBH/KJK/MJL
1	ADDED DETAILS CP12 & CP13, NOTES AND REVISED BOM	02/02/21	WBH/KJK/MJL
No.	Description	Date	Dw/Ck/Ap
Revision/Status			
EVERSOURCE ENERGY			
STANDARD CS-500 CORROSION DETAILS			
STREET ADDRESS, TOWN/CITY			
DETAILS, NOTES AND BILL OF MATERIALS			
SCALE: 1/2" = 1'-0"		SHEET 2 OF 3	
Drawn by / Date WBH 10/05/20	Checked by / Date KJK 10/19/20	Sheet Number 10-008-STR-001-02	Rev. No. 6
Approved by / Date MJL 10/19/20	453 Sumner Ave - Encroachment - Pro Drawing RevB (8505 : EVERSOURCE- Sumner Ave.)		

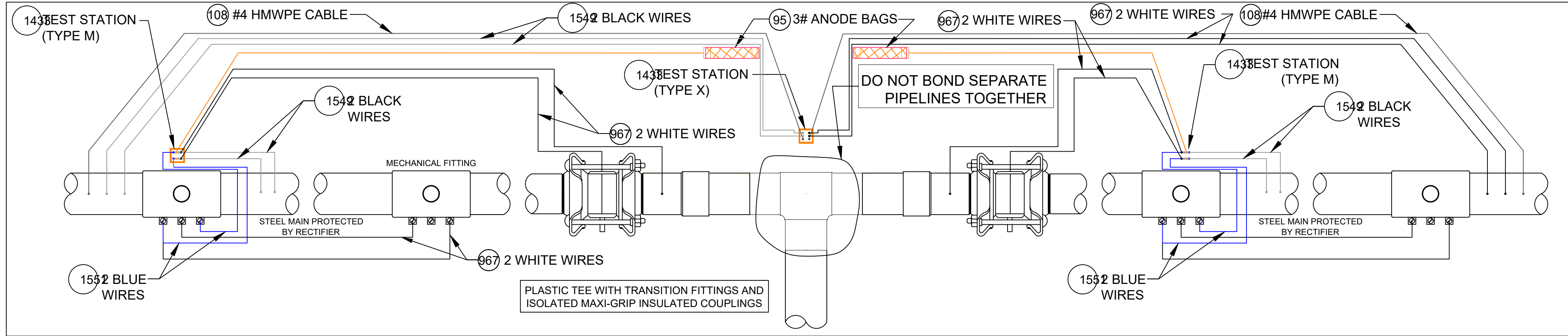
FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION



ANODE INSTALLATION FOR MULTIPLE MECHANICAL FITTINGS
INSTALLED ON NON-ELECTRICALLY CONTINUOUS SECTIONS OF COATED STEEL PIPING

DETAIL CP17

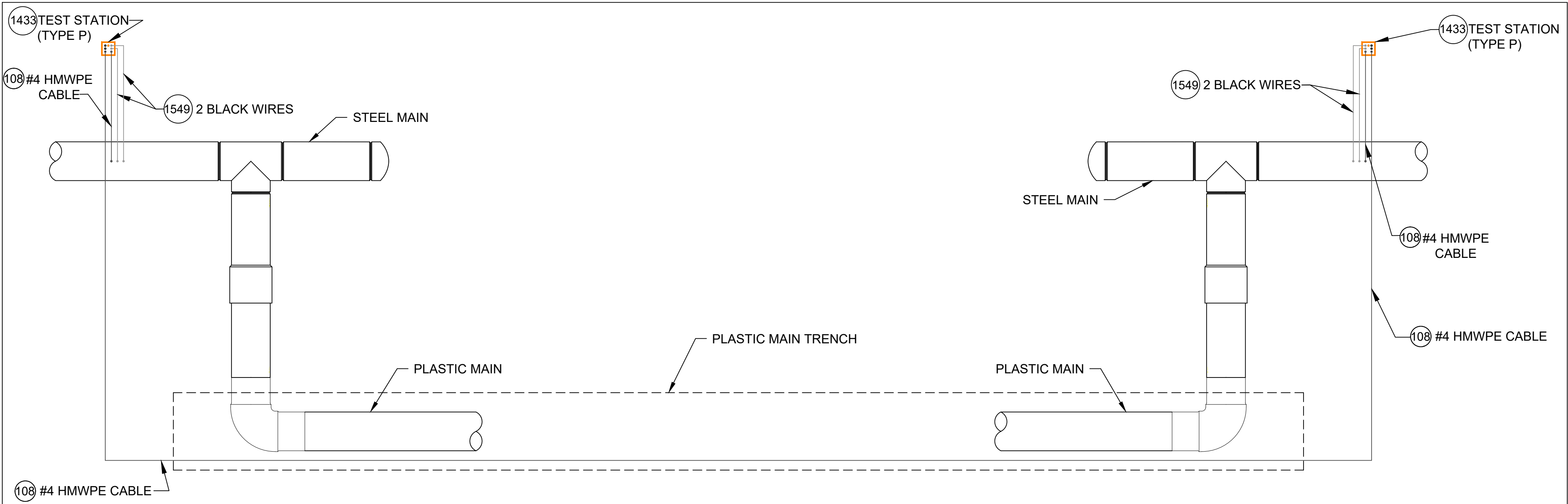
SCALE: 1/2" = 1'-0"



ANODE INSTALLATION FOR MULTIPLE MECHANICAL FITTINGS
INSTALLED ON NON-ELECTRICALLY CONTINUOUS SECTIONS OF COATED STEEL PIPING

DETAIL CP17A

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



TYPE P TEST STATION

DETAIL CP18

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

CATHODIC PROTECTION BILL OF MATERIALS MASTER BOM			
Item	Maximo No.	Description	Units
25	500804	WELDER,THERMITE, THERMITE, FOR GAS PIPE, #12 CABLE,HORIZONTAL STEEL PIPE 4 IN AND LARGER DIAMETER	EA
26	500805	WELDER,THERMITE, THERMITE, FOR GAS PIPE, #12 CABLE, HORIZONTAL STEEL PIPE 3/4 - 3-1/2 IN DIAMETER	EA
69	503673	TAPE,WAX, 9 FT LG X 4 IN W, 24 ROLLS/CS, ABOVE AND BELOW GROUND APPLICATIONS, TR-#2A WAX, ALUMINUM	ROLL
95	505818	ANODE,BAG, 2.5 X 2.5 X 4.5 IN, 10 FT LG, 3 LB, MAGNESIUM	EA
101	508567	POWDER, CARTRIDGE, TYPE IS F-33, ALLOY , CAP COLOR CLEAR, 15 GM CHARGE, 20/PAC, FOR STEEL PIPE	BOX
102	508572	PRIMER, 4 GAL/CASE, BROWN, FOR WAX TAPE, APPLICATION TEMP 0 TO 230 F, TEMCOAT 3000	EA
108	513850	CABLE, INSULATED, CATHODIC PROTECTION, 1/C, #4 AWG, 7 STR, 600 V, BLACK, HMWPE, CU, 1000 FT ROLLS	FT
116	517626	CONNECTOR, SPLIT BOLT, 12 SOLID - 10 STRANDED, CU TO CU, HOUSING (COVER) MATE IN 590389,	EA
657	559168	SLEEVE,ELECTRICAL, #14 TO 10 AWG, W/ THERMITE WELDER, FOR CATHODIC PROTECTION	EA
874	577776	ANODE,BAG, 17 LB NET, HIGH POTENTIAL MAGNESIUM, W/ 10 FT #10 AWG TW ORANGE LEAD WIRE, PACKED IN CARDBOARD BOX 42 LB TOTAL WEIGHT	EA
967	578415	WIRE,ELECTRICAL, THHN, 1/C, #10 AWG, STRANDED, WHITE, INSULATED, CU, 500 FT SPOOL, WIRE	ROLL
1219	584045	EDI CONCENTRIC COUPON ASSEMBLY INCLUDING UCB-ZIN-LW010, 10 FT OF CABLE	ES
1418	590389	HOUSING, 50 V MAX, 10 AWG MAX, FOR PROTECTING TRACER WIRE SPLICES, USED WITH CONNECTOR IN 517626, 10/BAG	EA
1433	590871	BOX VALVE, TEST STATION, CP TEST #178, 10-1/4 IN DIA. LID, 8-3/8 IN I.D. 16 IN H., ASTM A48 CL 25 CAST IRON, FOR OFF-ROAD USE ONLY	EA
1548	603126	EDI CONCENTRIC COUPON ASSEMBLY INCLUDING UCB-ZIN-LW025, 25 FT OF CABLE	ES
1549	603139	WIRE ELECTRICAL, THHN, 1/C, #10 AWG, STRANDED, BLACK, INSULATED, CU, 500 FT SPOOL,WIRE	ROLL
1550	603140	WIRE,ELECTRICAL, THHN, 1/C, #10 AWG, STRANDED, RED, INSULATED, CU, 500 FT SPOOL, WIRE	ROLL
1551	603141	WIRE,ELECTRICAL, THHN, 1/C, #10 AWG, STRANDED, BLUE INSULATED, CU, 500 FT SPOOL, WIRE	ROLL
1565	603423	TAPE,WAX, 9 FT LG X 6 IN W X 70-90 MIL THK, 16 ROLLS/CS, ABOVE AND BELOW GROUND APPLICATIONS, TR-#2A WAX, ALUMINUM	ROLL
1573	603769	TRENTON-FILL POR PM-GP,140 FA, FOR FILLING VOIDS & IRREGULAR SPACES PRIOR TO WRAPPING W/WAX TAPE, OF TO 110F APPLICATION TEMPERATURE, 6 BLOCKS/CASE,	CASE
1576	603894	BOX,CORROSION, 18 IN LG, 5 IN DP, CI, W/ 5 TERMINAL, HOOKS, NON-LOCKING LID, YELLOW, LID MARKED 'CP TEST' - CATHODIC PROTECTION, CP TEST BOX	EA
1845	513849	CABLE, INSULATED, CATHODIC PROTECTION, 1/C, #8 AWG, 600 V	EA
1846	584942	WIRE,ELECTRICAL, CATHODIC PROTECTION CABLE, #6, HMWPE INSULATED	EA
1847	583055	ENCAPSULATION KIT, 2 PART, RESIN EPOXY, MOLD BODY, THRU 1 KV, INSULATES AND MOISTURE SEALS WYE CONNECTIONS	EA

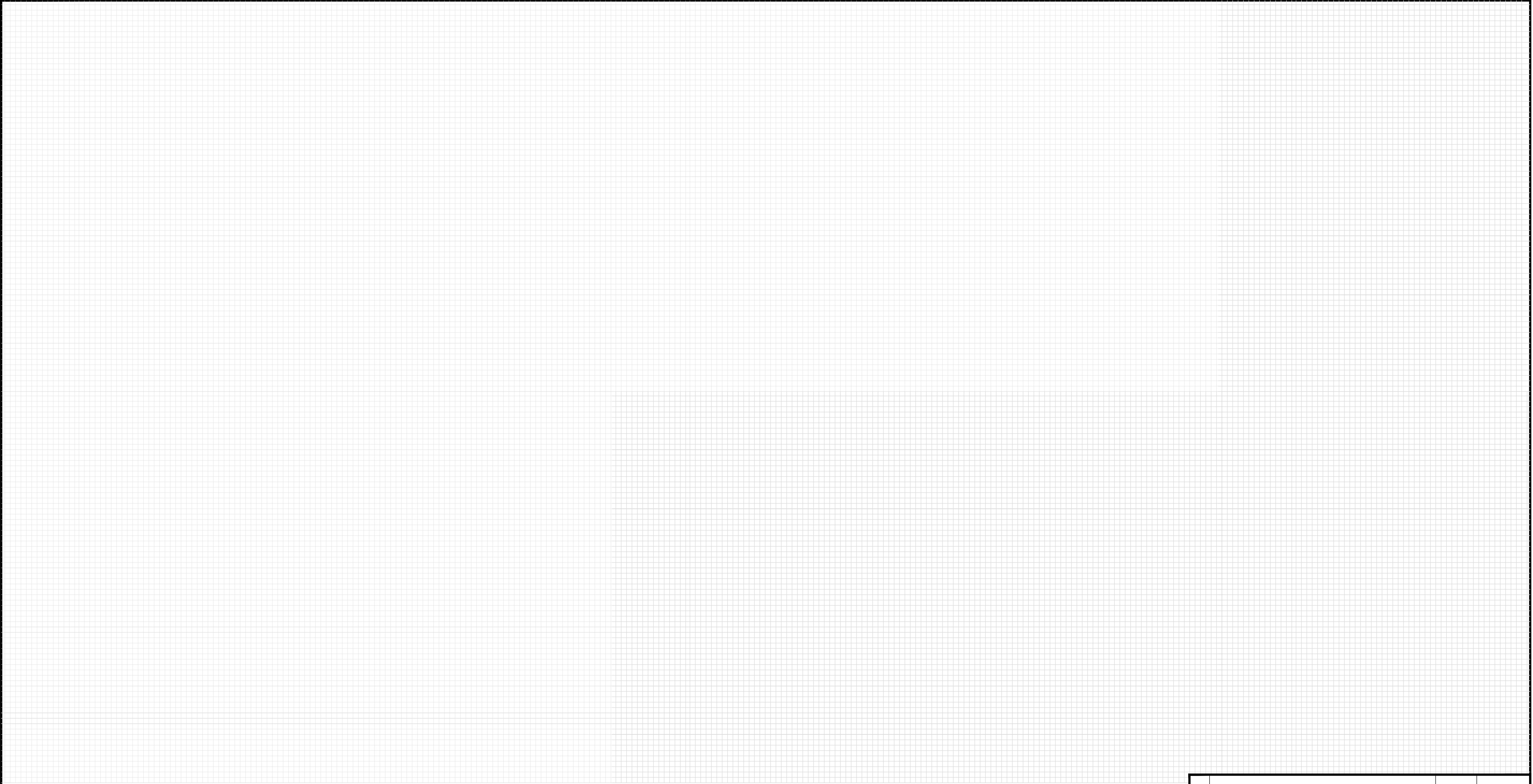
NOTES:

- ALL TEST STATION BOXES SHOULD BE INSTALLED IN A SAFE LOCATION WHERE ONE INDIVIDUAL CAN SAFELY OPEN AND ACCESS THE TEST WIRES. ALL TEST WIRES INSIDE THE BOX SHOULD HAVE ENOUGH SLACK ON THE WIRES SO THEY CAN EXTEND A MINIMUM OF 12" ABOVE GRADE.
- FOR TYPE A TEST STATIONS, THE TWO WIRES SHOULD BE THERMITE WELDED TO THE COATED STEEL MAIN AND BE THE SAME COLOR. (COUPONS COULD BE ADDED TO THE TEST STATION TYPE).
- FOR TYPE B TEST STATIONS, EACH OF THE FOUR WIRES SHOULD BE A DIFFERENT COLOR AND DOCUMENTED
- FOR TYPE C TEST STATIONS, THE WIRES SHOULD BE THE SAME COLOR ON EACH SIDE OF THE INSULATED COUPLING. (ANODES AND/OR COUPONS COULD BE ADDED TO THIS TEST STATION TYPE).
- 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. (ANODES AND/OR COUPONS COULD BE ADDED TO THIS TEST STATION TYPE).
- FOR TYPE M TEST STATIONS, THE TWO WIRES THERMITE WELDED TO THE CARRIER PIPE SHOULD BE THE SAME COLOR WIRE. THERE IS ALSO MAGNESIUM ANODE(S) WIRE(S) LOCATED INSIDE THE TEST STATION BOX.THE WIRE COLOR (TYPICALLY ORANGE) FOR THE ANODES. IF THE ANODE WIRES ARE SPLICED TO A COMMON ANODE HEADER CABLE, THE ANODE HEADER 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, NO MAGNESIUM ANODES SHOULD BE DIRECTLY THERMITE WELDED TO THE CARRIER PIPE OR IN CONTACT WITH THE CARRIER PIPE. THE ANODE HEADER WIRE OR INDIVIDUAL ANODE WIRES SHOULD TERMINATE INSIDE THE TEST STATION BOX. ANODES SHOULD BE SPACED A MINIMUM OF 5' ON CENTER FROM EACH OTHER AND A MINIMUM OF 12" AWAY AND BELOW THE BOTTOM OF THE STEEL MAIN.
- IF COUPONS ARE TO BE INSTALLED , FIRST REMOVE THE PROTECTIVE LABEL COVERING THE STEEL COUPON AND THE RED STICKERS COVERING EACH SENSING PORT. CLEAN THE ENTIRE STEEL COUPON SURFACE WITH ALCOHOL TO REMOVE THE CORROSION INHIBITOR. PLACE THE COUPON ASSEMBLY APPROXIMATELY 12" FROM THE GAS MAIN BEING MONITORED WITH THE SENSING PORTS FACING THE GAS MAIN. THE COUPON ASSEMBLY SHOULD BE LOCATED ADJACENT TO THE BOTTOM PORTION OF THE GAS MAIN, ANYWHERE BETWEEN 3 O'CLOCK AND 9 O'CLOCK. THE SOIL BETWEEN THE COUPON AND THE MAIN SHOULD BE WELL COMPACTED AND CONTAIN NO ROCKS LARGER THAN A CENTIMETER IN DIAMETER OR FOREIGN MATERIAL.
- ONE (1) 3# ANODE (MINIMUM) SHALL BE INSTALLED TO PROTECT THE CLAMPS ON EACH 10-FOOT SPAN OF PIPE. EACH 10-FOOT SPAN OF PIPE MUST BE A CONTINUOUS SECTION OF STEEL. CLAMPS ON NON-CONTINUOUS SECTIONS OF STEEL EVEN IF THEY ARE WITHIN 10 FEET OF EACH CANNOT BE PROTECTED BY THE SAME ANODE.
- REFER TO CONSTRUCTION STANDARD CS-500 SECTION IV.G WHICH PROVIDES GENERAL GUIDANCE REGARDING "WRAPPING" FOR CORROSION PROTECTION. CS-500 SECTION IV.G.5. DESCRIBES THE BASIC STEPS REQUIRED TO WRAP LEAK REPAIR CLAMPS.

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

6	ADDED DETAIL CP18 FOR TYPE P TEST STATION	07/03/24	WBH/KJK/MJL
5	REVISED BOM ITEMS TO MATCH STANDARD BOM REV. 10	02/21/24	WBH/KJK/MJL
4	REVISED BOM ITEMS TO MATCH STANDARD BOM REV. 9	11/17/23	WBH/KJK/MJL
3	REVISED BOM ITEMS TO MATCH STANDARD BOM REV. 8	03/13/23	WBH/KJK/MJL
2	ADDED DETAILS CP10, 16A & 17A AND REVISED OTHER DETAILS	02/08/23	WBH/KJK/MJL
1	ADDED DETAILS CP12 & CP13, NOTES AND REVISED BOM	02/02/21	WBH/KJK/MJL
No.	Description	Date	Dw/Ck/Ap
Revision/Status			
EVERSOURCE ENERGY			
STANDARD CS-500 CORROSION DETAILS			
STREET ADDRESS, TOWN/CITY			
DETAILS, NOTES AND BILL OF MATERIALS			
SCALE: 1/2" = 1'-0"		SHEET 3 OF 3	
Drawn by / Date WBH 10/05/20	Checked by / Date KJK 10/19/20	Sheet Number 10-000-001-003	Rev. No. 6
Approved by / Date MJL 10/19/20	453 Sumner Ave - Encroachment - Pro Drawing RevB (8505 : EVERSOURCE- Sumner Ave.)		

FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION



FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

B	REVISED PER EGMA COMMENT	12/13/24	KMQ/DD
A	ISSUED FOR REVIEW	11/18/24	KMQ/DD
No.	Description	Date	Dw/Ck
Revision/Status			
453 SUMNER AVE - ENCROACHMENT, SPRINGFIELD, MA			
PROJECT # 25EG095 / WORK ORDER # 19253953			
PLAN			
SCALE: NTS		SHEET 23 OF 23	
Drawn by / Date		Checked by / Date	Rev. No.
		MA-SPR-PIP-24-294-23	

CITY OF SPRINGFIELD, MASSACHUSETTS

February 11, 2025

+

TO THE MAYOR AND CITY COUNCIL OF THE CITY OF SPRINGFIELD:

The Board of Public Works, to which was referred the petition of Eversource-Gas of Massachusetts, dated December 12, 2024, to install underground gas facilities on Kenwood Terrace two (2") inches of pipe from Sumner Ave., running northerly direction four hundred fifty (450) feet, to Belmon Ave. and on Beaumont Street with two (2") inches of pipe from Sumner Ave., running northerly direction approximately three hundred sixty (360) feet, to Belmont Ave: Sumner Avenue plan is incorporated herein by reference and to lay and maintain underground gas main pipes for improvements of the system reports thereon as follows:

By virtue of Chapter 708 of the Acts of 1977, the Board of Public Works held the hearing on the above matter provided for in Section 22 of Chapter 166 of the General Laws. The hearing was held on February 11, 2025, at 3:30 P.M. at the corner of Sumner Avenue and Kenwood Terrace. in Springfield, MA, after due notice from the office of the City Clerk. Two (2) members of the Board and one (1) person interested in the matter were present. Of the latter, one (1) voted in favor and no one (0) voted against.

The Board finds the request necessary so that the utility company can upgrade existing underground facilities to improve the quality of service in this area.

After careful consideration, the Board recommends the petition be granted provided:

That due care for public safety is exercised during construction including but not limited to the use of a police officer(s) for traffic control if necessary.

That said construction would not unnecessarily interfere with the movement of vehicular or pedestrian traffic in the area.

That care be taken during said construction not to damage any underground services.

That the construction site be returned to the same condition as found or better.

Said company shall indemnify and save harmless against all damages, costs and expenses whatsoever to which the City may be subjected in consequence of the acts or neglect of said Company, its agents or servants, or in any manner arising from the rights and privileges granted it by the City.

Attachment: Report City Council Sumner Ave (8505 : EVERSOURCE- Sumner Ave.)

In addition said company shall, before a public way is disturbed for the laying of its wire or conduit, execute its bond in the penal sum of Ten Thousand Dollars (\$10,000) conditioned for the faithful performance of its duties under this permit.

Said company shall comply with the requirements of existing Ordinances and orders and comply with any changes in Ordinances and orders as may hereafter be adopted by the Mayor and Council governing the construction and maintenance of buried cable, conduits, and wires.

Any sidewalks that are damaged or removed will be replaced in kind and in accordance with the City of Springfield's Standard Specifications.

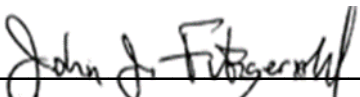
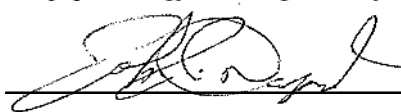
Ramps for the handicapped will be provided if and where required by law and in conformance with the Rules and Regulations of the Massachusetts Architectural Barrier Board.

Any curbing that is disturbed during construction will be reset to the established street grade using proper construction procedures.

That due care be exercised not to unnecessarily damage any public shade trees located within the construction area.

The Springfield Water and Sewer Commission be notified before construction begins. All installations of adjacent utilities must be a minimum of 4 feet from the existing water and/or sewer main, edge to edge of the pipe.

That all conditions outlined in the respective order are complied with.


_____)

_____)

BOARD OF PUBLIC WORKS



City Council
36 Court Street
Springfield, MA 01103

Meeting: 03/25/25 03:30 PM
Department: Department of Public Works
Category: General
Prepared By: Hector Velez
Initiator: Hector Velez
Sponsors:
DOC ID: 8502

TABLED

PETITION (ID # 8502)

Eversource - Commonwealth Ave.

ORDER FOR LOCATION OF UNDERGROUND CONDUIT

WHEREAS, The Board of Public Works, to which was referred the petition of Eversource-Gas to install underground gas facilities on Forest Park Neighborhood in Springfield to install medium-pressure and retire low-pressure cast iron gas infrastructure.

WHEREAS, said petition Commonwealth Ave. was referred to the Board of Public Works on December 12, 2024; and

WHEREAS, On January 27, 2025, a Notice of a Public Hearing on Commonwealth Ave. to be held on February 11, 2025, was sent by mail, to all property owners abutting an affected road, various Departments, Utility Companies, etc before the day of the hearing and posted on two public bulletin board a copy of which is attached a hearing of the Board of Public Works was held as scheduled on-site with the petitioner and interested parties.

WHEREAS, on February 11, 2025, the Board of Public Works reported thereon that, after careful consideration of the petition to install underground gas facilities on Commonwealth Ave. Starting with two (2") inches of pipe from Trenton Ave., running a southerly direction three thousand three hundred twenty-three (3,323') feet, to Carroll Street; all substantially shown on a plan attached with the project name:

Commonwealth Ave.

Consisting of thirty-six (26) sheets, which plan is incorporated herein by reference and is on file in the office of the Engineering Division of the Department of Public Works, Springfield, Massachusetts.

WHEREAS, the petition Commonwealth Ave. came before the City Council for a Public Hearing on this date.

NOW, THEREFORE, BE IT ORDERED:

1. That due care for public safety is exercised during construction including but not limited to the use of a police officer(s) for traffic control if necessary.
2. That said construction would not unnecessarily interfere with the movement of vehicular or pedestrian traffic in the area.

3. That care be taken during said construction not to damage any underground services.
4. That the construction site be returned to the same condition as found or better.
5. Said company shall indemnify and save harmless against all damages, costs and expenses whatsoever to which the City may be subjected in consequence of the acts or neglect of said Company, its agents or servants, or in any manner arising from the rights and privileges granted it by the City.
6. In addition, said company shall, before a public way is disturbed for the laying of its wire or conduit, execute its bond in the penal sum of Ten Thousand Dollars (\$10,000) conditioned for the faithful performance of its duties under this permit.
7. Said company shall comply with the requirements of existing Ordinances and orders and comply with any changes in Ordinances and orders as may hereafter be adopted by the Mayor and Council governing the construction and maintenance of buried cable, conduits, and wires.
8. Any sidewalks that are damaged or removed will be replaced in kind and in accordance with the City of Springfield's Standard Specifications.
9. Ramps for the handicapped will be provided if and where required by law and in conformance with the Rules and Regulations of the Massachusetts Architectural Barrier Board.
10. Any curbing that is disturbed during construction will be reset to the established street grade using proper construction procedures.
11. That all proposed silo, manhole, and hex-hole covers will conform to and be compatible with an established street, tree belt, or sidewalk grades with suitable non-skid covers when in the sidewalk area.
12. The Springfield Water and Sewer Commission be notified before construction begins. All installations of adjacent utilities must be a minimum of 4 feet from the existing water and/or sewer main, edge to edge of the pipe.
13. That asphalt trench restoration be done in accordance with the City of Springfield DPW requirements.
14. That all conditions outlined in the respective order are complied with.

Petition (ID # 8502)

Meeting of March 25, 2025

HISTORY:

03/10/25 **City Council**

REFER TO COMMITTEE

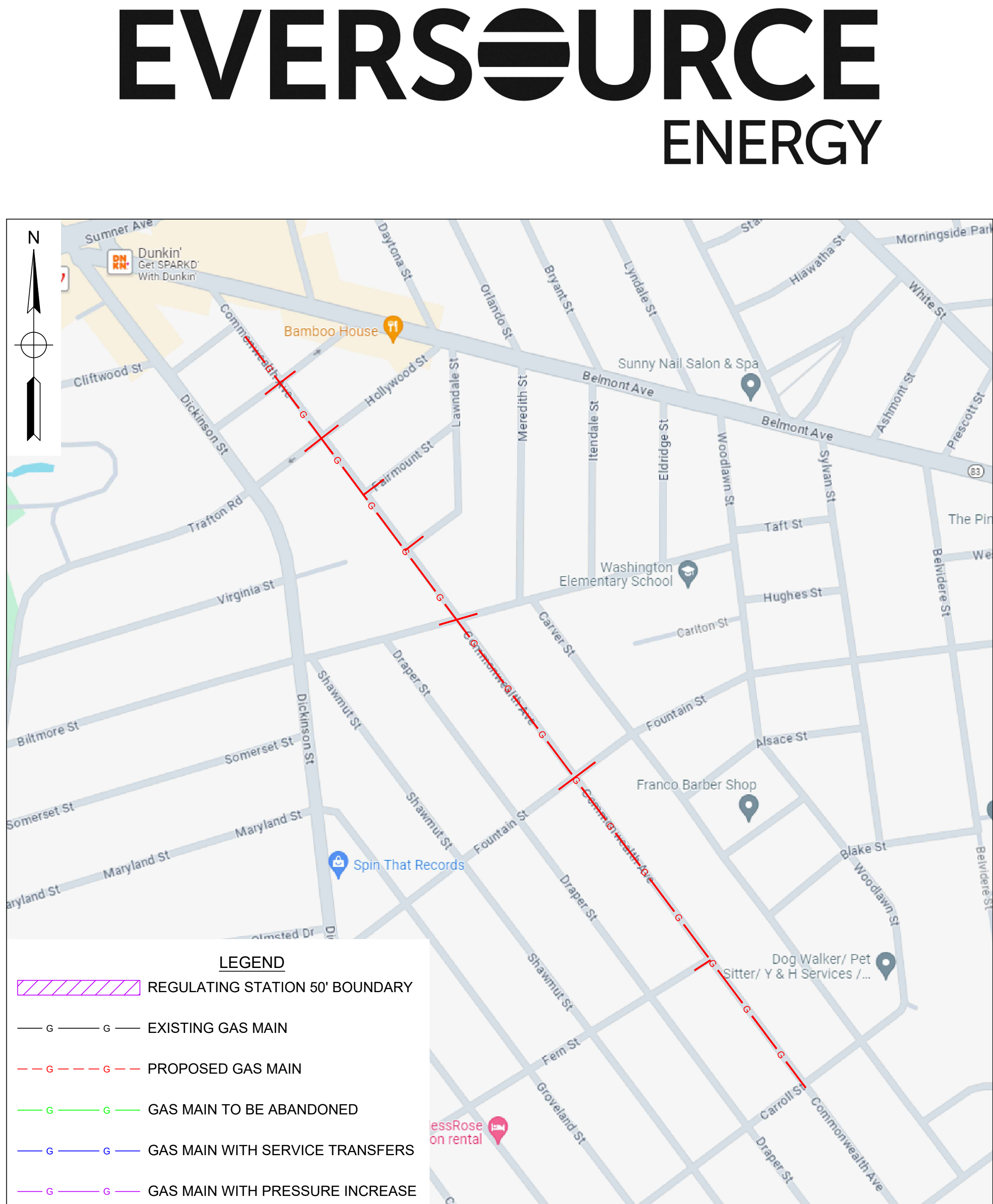
Next: 03/25/25

SENT TO MAINTENANCE AND ECONOMIC DEVELOPMENT COMMITTEES

TABLE OF CONTENTS

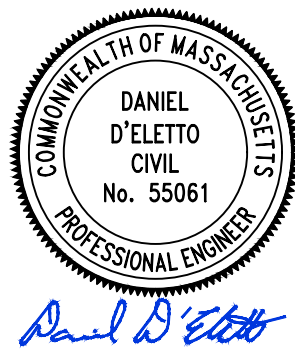
<u>SHEET #</u>	<u>TITLE</u>
01 OF 26	COVER SHEET
02 OF 26	NOTES
03 OF 26	LEGEND
04 OF 26	PROJECT LOCATION PLAN
05 OF 26	PROJECT LOCATION PLAN
06 OF 26	PROJECT LOCATION PLAN
07 OF 26	PROJECT LOCATION PLAN
08 OF 26	PROJECT LOCATION PLAN
09 OF 26	PROJECT LOCATION PLAN
10 OF 26	MA PREPARATORY AND FINAL TIE-IN DETAILS
11 OF 26	MA PREPARATORY AND FINAL TIE-IN DETAILS
12 OF 26	MA PREPARATORY AND FINAL TIE-IN DETAILS
13 OF 26	MA PREPARATORY AND FINAL TIE-IN DETAILS
14 OF 26	MA PREPARATORY AND FINAL TIE-IN DETAILS
15 OF 26	MA PREPARATORY AND FINAL TIE-IN DETAILS
16 OF 26	MA PREPARATORY AND FINAL TIE-IN DETAILS
17 OF 26	MA PREPARATORY AND FINAL TIE-IN DETAILS
18 OF 26	MA PREPARATORY AND FINAL TIE-IN DETAILS
19 OF 26	MA PREPARATORY AND FINAL TIE-IN DETAILS
20 OF 26	MA PREPARATORY AND FINAL TIE-IN DETAILS
21 OF 26	MA PREPARATORY AND FINAL TIE-IN DETAILS
22 OF 26	MA PREPARATORY AND FINAL TIE-IN DETAILS
23 OF 26	MA CORROSION DETAILS (1 OF 3)
24 OF 26	MA CORROSION DETAILS (2 OF 3)
25 OF 26	MA CORROSION DETAILS (3 OF 3)
26 OF 26	BLANK GRIDDED SHEET

PROJECT SUMMARY TABLE				
INSTALLATION INFORMATION				
Work Type	LENGTH (FT)	SIZE (IN)	MAOP	MATERIAL
INSTALL	450'	2"	98 PSIG	HDPE
INSTALL	100'	4"	98 PSIG	HDPE
INSTALL	3,323'	8"	98 PSIG	HDPE
INSTALLATION TOTAL				3,873'
UPRATE/RETEST TOTAL				0'



WORK SCOPE

ISSUED FOR
CONSTRUCTION



FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

0	ISSUED FOR CONSTRUCTION	12/3/24	KMQ/TH
No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
COMMONWEALTH AVE - RELIABILITY, SPRINGFIELD, MA			
PROJECT # 25EG027R / WORK ORDER # 16768407			
COVER SHEET			
SCALE: 1"=30' ON 22"X34"		SHEET 01 OF 26	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
KMQ / 7/18/2024	TH / 8/9/2024	MA-SPR-PIP-25-015-01	0

COMMONWEALTH AVE - RELIABILITY, SPRINGFIELD, MA
PROJECT #25EG027R
WORK ORDER #16768407

Commonwealth Ave - Pro Drawing Rev0.dwg

EGMA DRAWING TEMPLATE - 02-09-2023

C:\Users\kujinton\AppData\Local\Temp\AcPublish_13520\

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.D.
- 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. CARE SHOULD BE TAKEN NOT TO DISTURB OR DAMAGE SUCH ITEMS. ROADWAY, SIDEWALKS, AND GRASS DISTURBED SHALL BE RESTORED TO THE SATISFACTION OF THE CITY OR TOWN. PLANT BEDS WILL 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.

WARNING:
FOR LP SYSTEMS (≤2 PSIG), **DO NOT USE** VENT STACKS LARGER THAN THOSE LISTED IN TABLE 3. DOING SO MAY CAUSE THE EXIT VELOCITY OF THE PURGE GASSES OUT OF THE STACK TO DROP BELOW THE RATE OF FLAME TRAVEL. IF VENT GASSES BECOME IGNITED, THE FLAME COULD TRAVEL BACK THROUGH THE VENT STACK, INTO THE MAIN.

TABLE 3 - REQUIRED VENT STACK SIZES FOR MAINS		
PIPELINE TO BE PURGED - NOMINAL SIZE (INCHES)	PURGE GAS INJECTION FLOW RATE (CFM), MINIMUM	REQUIRED VENT STACK SIZE
1 ¼	5	1-INCH
1 ½	5	1-INCH
2	10	1-INCH
3	10	1-INCH
4	15	1-INCH
6	30	2-INCH(1)
8	60	2-INCH(1)
10	100	2-INCH(1)
12	150	2-INCH(1)
16	275	2-INCH
18	370	2-INCH

- NOTE:
1.

WHEN PURGING A PRESSURIZED SYSTEM (MAOP>2 PSIG) INTO SERVICE, A 1-INCH NOMINAL VENT STACK CAN BE UTILIZED, IF DESIRED.
2.

WITHIN THE VENT STACK ASSEMBLIES, TWO TYPES OF "LOCALIZED REDUCTIONS" ARE PERMITTED AND SPECIFICALLY INCLUDE: THE TAP HOLE IN THE MAIN AND THE REDUCED SIZE OF THE PORT IN THE VENT STACK/ISOLATION VALVE.
- FOR 1-INCH NOMINAL VENT STACKS THE TAP/PORT CAN BE AS SMALL AS ¾"; AND
- FORE THE 2-INCH NOMINAL VENT STACKS THE TAP/PORT CAN BE AS SMALL AS 1 ¼".
3.

THE BALANCE OF THE VENT STACK ASSEMBLY SHALL BE CONSTRUCTED USING PIPE AND FITTINGS OF THE NOMINAL SIZE OF THE SPECIFIED VENT STACK.

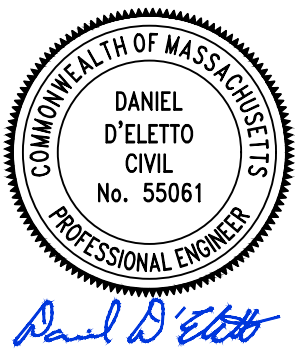
COMMONWEALTH AVE, SPRINGFIELD			COMPLETE BOM	
REQUIRED BILL OF MATERIALS				
Item Number	Maximo Part Number	Description	Quantity	Units
1656	620089	FITTING,COUPLING, PIPE, LYCOFIT, 1 IN IPS SDR11, PLASTIC	11	EA
1653	620808	FITTING,CAP, LYCOFIT, 1 IN IPS SDR 11, PLASTIC, ASTM F1924	11	EA

COMMONWEALTH AVE, SPRINGFIELD			COMPLETE BOM	
REQUIRED BILL OF MATERIALS				
Item Number	Maximo Part Number	Description	Quantity	Units
17	500856	COUPLING,PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC, P100	1	EA
18	500857	COUPLING,PIPE, 8 IN IPS, ELECTROFUSION, PLASTIC, P100	1	EA
55	500869	TEE,PIPE, NON-BLOWING, 6 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, LIGHT WALL, POLYETHYLENE, PE3408/PE100	1	EA
62	500870	TEE,PIPE, 6 X 2 IN IPS , ELECTROFUSION, PLASTIC, P100, W/ 1.8 IN PERF, 5/BOX	1	EA
34	501002	VALVE,BALL, 4 IN, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING, TO BE USED W/ BRAND SADDLE INST, P100	2	EA
377	505818	ANODE,BAG, 2.5 X 2.5 X 4.5 IN, 10 FT LG, 3 LB, MAGNESIUM, Alternate IN 577776	8	EA
370	513679	CABLE, INSULATED, MDP, #12 AWG, 7 STR, YELLOW, POLYETHYLENE-30, SOFT DRAWN CU, 500 FT/RL, FOR USED AS PIPE LOCATOR	3873	FT
9	542538	CAP,PIPE, 4 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100	2	EA
10	542539	CAP,PIPE, 6 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100	1	EA
11	542540	CAP,PIPE, 8 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100	1	EA
8	542572	CAP,PIPE, 2 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100	9	EA
5	554008	PIPE, 4 IN IPS X 0.409 IN THK WALL SDR 11, 4.5 IN OD, 40 FT LG, POLYETHYLENE, PE3408/PE100, 1200 FT/BUNDLE	10	FT
7	554010	PIPE, 8 IN IPS X 8-3/8 IN X 0.784 IN THK WALL SDR 11, 40 FT LG, POLYETHYLENE, PE3408/PE100	3323	FT
4	554032	PIPE, 2 IN IPS X 0.216 IN THK WALL SDR 11, 2.375 IN OD, 40 FT LG, POLYETHYLENE, PE3408/PE100, 3000 FT /BUNDLE, FOR WINTER USE	450	FT
26	555593	REDUCER,PIPE, 4 X 2 IPS, BUTT ENDS, POLYETHYLENE, P100, SDR11	9	EA
27	555594	REDUCER,PIPE, 6 X 4 IPS, BUTT ENDS, P100, POLYETYLENE, SDR 11	11	EA
28	555596	REDUCER,PIPE, 8 IN X 6 IN IPS SDR 11, BUTT ENDS, POLYETHYLENE, P100	12	EA
32	560681	TEE,PIPE, 8 IN SDR 11, BUTT ENDS, POLYETHYLENE, P100	11	EA
63	560684	TEE,PIPE, NON-BLOWING, 8 X 2 IN IPS, ELECTROFUSION, LIGHT WALL, PLASTIC, P100	1	EA
33	562087	VALVE,BALL, 2 IN IPS, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING	9	EA
368	565814	TAPE,WARNING, MARKED BURIED GAS LINE, 4 MIL, 1000 FT ROLL, 6 IN W, YELLOW, ISSUE EACH ROLL AS 1, T-01-A00,	4	RL
58	584713	FITTING,TEE, 8 IN IPS X 1/2 IN CTS, ELECTROFUSION TAPPING TEE WITH PERMASERT STAB OUTLET, HDPE, BLACK, NSTAR M-140	1	EA
86	602030	SADDLE,PIPE, TEE, BRANCH, 6IN IPS X 6 IN IPS, ELECTROFUSION, POLYTAPP	1	EA
1660	602892	FITTING,TEE, 2 IN IPS X 1 IN IPS, ELECTROFUSION, HDPE, WITH BUTT FUSION OUTLET, HDPE, BLACK, ASTM F1055	9	EA
1661	602894	FITTING,TEE, 4 IN IPS X 1 IN IPS, ELECTROFUSION, WITH BUTT FUSION OUTLET, HDPE, BLACK, ASTM F1055	2	EA
44	604132	BOX VALVE, W/ 5-1/4 IN SQ NON-LOCKING LID, FOR 8 IN FULL PORT VALVES, PAVEMENT RISER IN 583488. 6/BOX	1	EA
43	610062	BOX VALVE, EXTENTION, 18 X 24 IN LONG, CMA 4232860	11	EA
41	610701	VALVE,BALL, POLYTAPP, FULL PORT, 6 IN, HDPE, THREADED X ELECTROFUSION, CMA 1609806	1	EA
90	610757	FITTING,CAP, END, LYCOFIT, 1/2 IN CTS X 0.090 IN THK WALL, PLASTIC, CMA 750823	2	EA
92	610763	FITTING,CAP, END, LYCOFIT, 2 IN IPS X 0.121 IN THK WALL instead of 2 IN CTS X 0.121 IN THK WALL, PLASTIC, SDR 11, CMA 750830	2	EA
98	610764	FITTING,COUPLING, PIPE, LYCOFIT, 1/2 IN CTS X 0.090 IN WALL THK, PLASTIC, CMA 21658100	2	EA
99	610772	FITTING,COUPLING, REPAIR, LYCOFIT, 2 IN IPS, PLASTIC, SDR 11, CMA 21658101	2	EA
47	611123	BOX, CP TEST, 5 IN, 18 IN SHAFT LENGTH, TERMINAL PLATE WALL THK 0.150 + - 0.015, ABS PLASTIC, W/ NON-LOCKING MAGNETIZED COVER, CMA 4232849	9	EA



OVERVIEW KEY MAP
NOT TO SCALE

ISSUED FOR
CONSTRUCTION



Daniel D'Eletto



FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

0	ISSUED FOR CONSTRUCTION	12/3/24	KMQ/TH
No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
COMMONWEALTH AVE - RELIABILITY, SPRINGFIELD, MA			
PROJECT # 25EG027R / WORK ORDER # 16768407			
NOTES			
SCALE:1"=30' ON 22"X34"		SHEET 02 OF 26	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
KMQ 7/18/2024	TH 8/9/2024	MA-SPR-PIP-25-015-02	0

DRAWING LEGEND

Gas Main Symbology

REGULATING STATION 50' BOUNDARY	
EXISTING GAS MAIN	
PROPOSED GAS MAIN	
GAS MAIN TO BE ABANDONED	
GAS MAIN WITH SERVICE TRANSFERS	
GAS MAIN WITH PRESSURE INCREASE	
RIGHT-OF-WAY	
ELECTRIC	
WATER LINE	
SEWER LINE	
TELEPHONE	
DRAIN LINE	
FENCE LINE	

Gas Main Material/Pressure Label References

MATERIAL CODES

CS*	Coated Steel Gas Main
CI*	Cast Iron Gas Main
BS*	Bare Steel Gas Main
WI*	Wrought Iron Gas Main
PH*	High Density Polyethylene Gas Main
PM*	Medium Density Polyethylene Gas Main
PRESSURE CODES	
*LP	Low Pressure (<0.5 PSIG or 14" W.C.)
*IP	Intermediate Pressure (>2 PSIG ≤ 10 PSIG)
*MP	Medium Pressure (>10 PSIG ≤ 60 PSIG)
*HP	High Pressure (>60 PSIG)

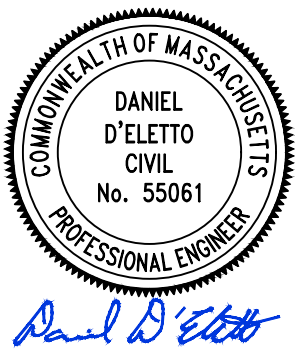
MISCELLANEOUS CODES

*.SER	Service
*.R	Riser
(TC)	Transmission Class
Gas Main Installation Method Label References	
AT	Attached
BH	Bridge Hanger
BLGH	Building Hanger
DB	Directional Bore
IS	Inserted
OC	Open Cut
PB	Pneumatic Bore
PL	Plowed
RT	Roof Top
(E)	Existing
(P)	Proposed

Gas Facility Symbology

	Gas Valve
	Critical Gas Valve
(Gate - GV, Plug - PV, PE Ball - BP, ST Ball - BV)	
	High Volume Tapping Tee
	Pressure Control Fitting - ShortStopp Tee
	Pressure Control Fitting - Spherical Tee
	Pressure Control Fitting - Mueller Bottom-out
	Pressure Control Fitting - Mueller Side-out
	Pressure Control Fitting - Mueller Flange Tee
	Pressure Control Fitting - ShortStopp
	Pressure Control Fitting - Mueller Stopper
	Polytapp Side Saddle Fitting
	Transition
	End Cap
	Riser
	Reducer
	Electronic Marker
	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
	Meter with Regulator
	Test Point (Station)
	Gas Service Tie-over
	Gas Service Replacement
	Meter Move Out
Swing Tie Symbology	
	Telephone Manhole
	Drain Manhole
	Electric Manhole
	Catch Basis
	Sewer Manhole
	Fire Hydrant
	Utility Pole
	Property Marker
	Telephone Pedestal
	Television Pedestal
	Unknown Manhole
	Water Box
	Water Gate
	Electric Pedestal
	Iron Pin
	Light Pole
	INSIDE METER
	OUTSIDE METER

ISSUED FOR
CONSTRUCTION



Daniel D'Eletto



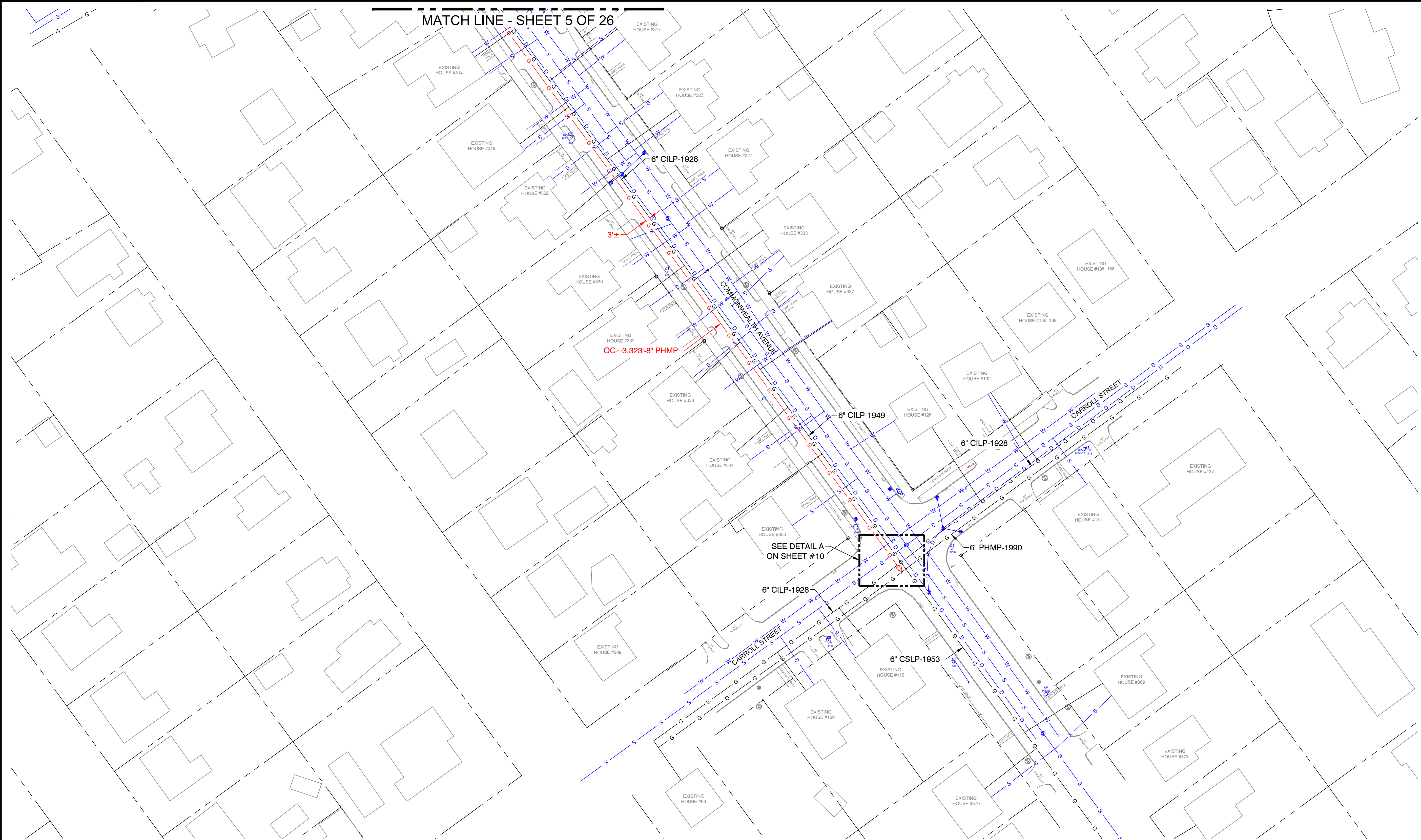
FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

0	ISSUED FOR CONSTRUCTION	12/3/24	KMQ/TH
No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
COMMONWEALTH AVE - RELIABILITY, SPRINGFIELD, MA			
PROJECT # 25EG027R / WORK ORDER # 16768407			
LEGEND			
SCALE:1"=30' ON 22"X34"		SHEET 03 OF 26	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
KMQ 7/18/2024	TH 8/9/2024	MA-SPR-PIP-25-015-03	0

MATCH LINE - SHEET 5 OF 26



KEY MAP
SCALE: N.T.S.



0	ISSUED FOR CONSTRUCTION	12/3/24	KMQ/TH
No.	Description	Date	Dw/Ck
Revision/Status			

ISSUED FOR
CONSTRUCTION





215 GREENFIELD PKY | Suite 102 | LIVERPOOL, NY 13088



Know what's below.
Call before you dig.

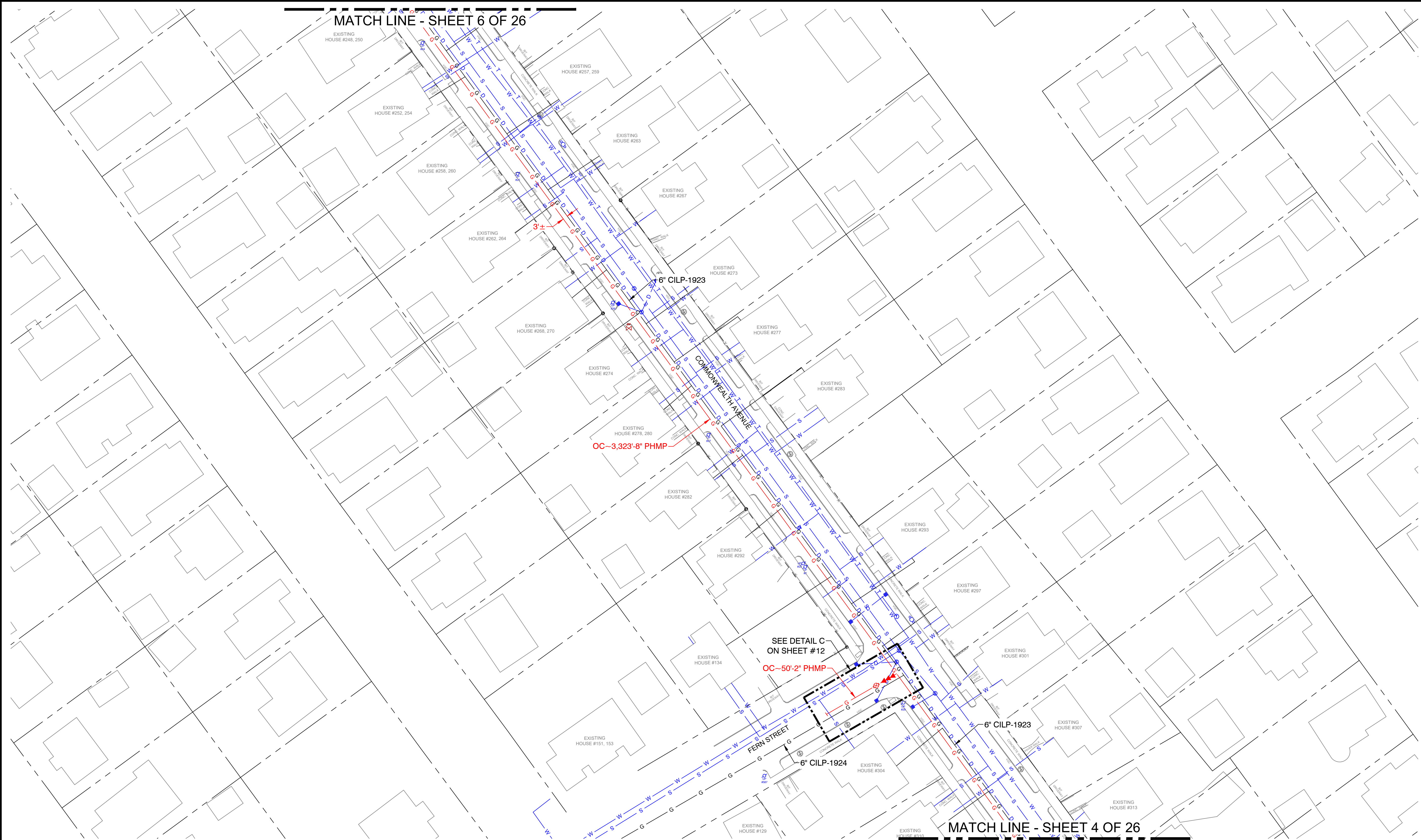
FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

EVERSOURCE ENERGY			
COMMONWEALTH AVE - RELIABILITY, SPRINGFIELD, MA			
PROJECT # 25EG027R / WORK ORDER # 16768407			
PROJECT LOCATION PLANS			
SCALE: 1"=30' ON 22"X34"			SHEET 04 OF 26
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
KMQ 7/18/2024	TH 8/9/2024	MA-SPR-PIP-25-015-04	0

Commonwealth Ave - Pro Drawing Rev0.dwg

EGMA DRAWING TEMPLATE - 02-09-2023

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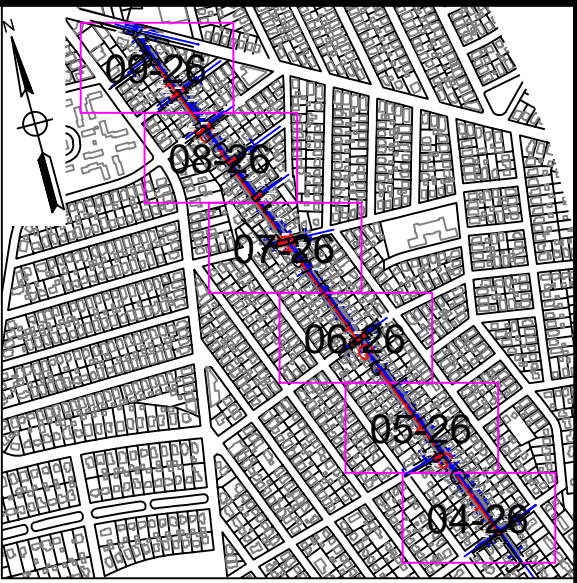
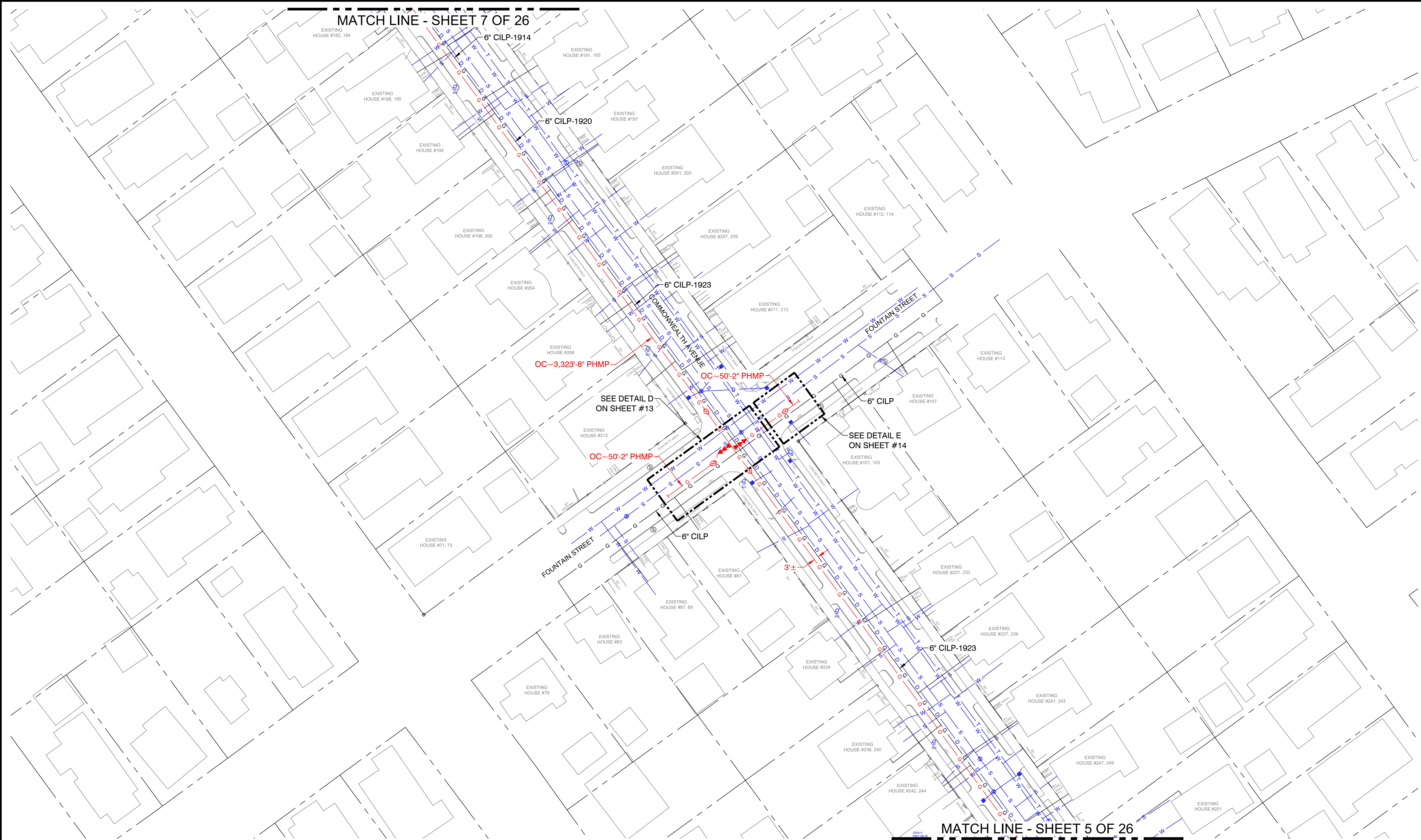


Commonwealth Ave - Pro Drawing Rev0.dwg

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Dec 03, 2024 - 8:04am

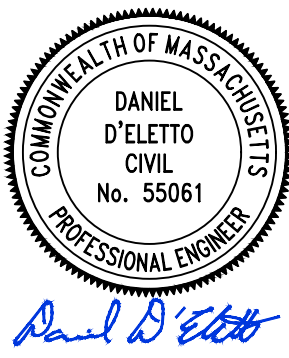


KEY MAP
SCALE: N.T.S.



0	ISSUED FOR CONSTRUCTION	12/3/24	KMQ/TH
No.	Description	Date	Dw/Ck
Revision/Status			

ISSUED FOR
CONSTRUCTION



TRC
215 GREENFIELD PKY | Suite 102 | LIVERPOOL, NY 13088

811
Know what's below.
Call before you dig.

FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

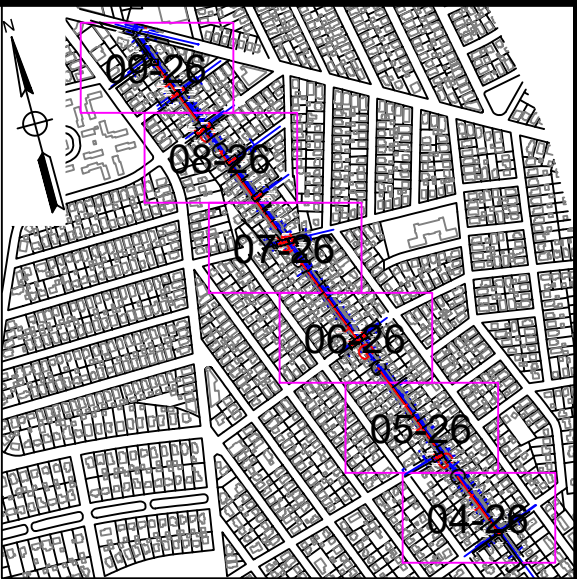
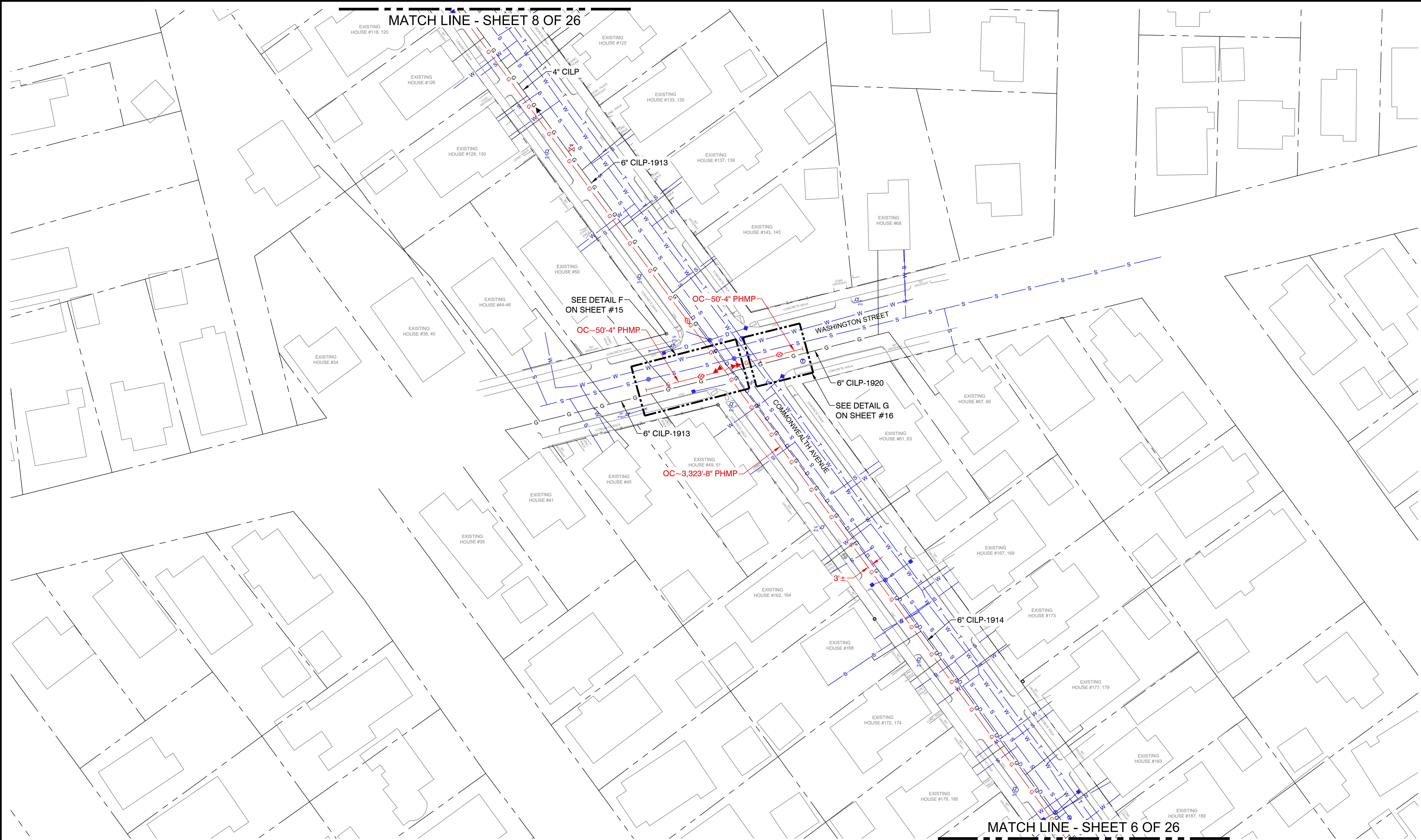
EVERSOURCE ENERGY			
COMMONWEALTH AVE - RELIABILITY, SPRINGFIELD, MA			
PROJECT # 25EG027R / WORK ORDER # 16768407			
PROJECT LOCATION PLANS			
SCALE: 1"=30' ON 22"X34"			SHEET 06 OF 26
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
KMQ 7/18/2024	TH 8/9/2024	MA-SPR-PIP-25-015-06	0

Commonwealth Ave - Pro Drawing Rev0.dwg

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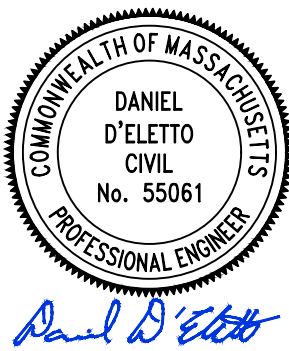


KEY MAP
SCALE: N.T.S.



0	ISSUED FOR CONSTRUCTION	12/3/24	KMQ/TH
No.	Description	Date	Dw/Ck
Revision/Status			

ISSUED FOR
CONSTRUCTION



TRC
215 GREENFIELD PKY | Suite 102 | LIVERPOOL, NY 13088

811
Know what's below.
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PRIOR TO PIPE FABRICATION

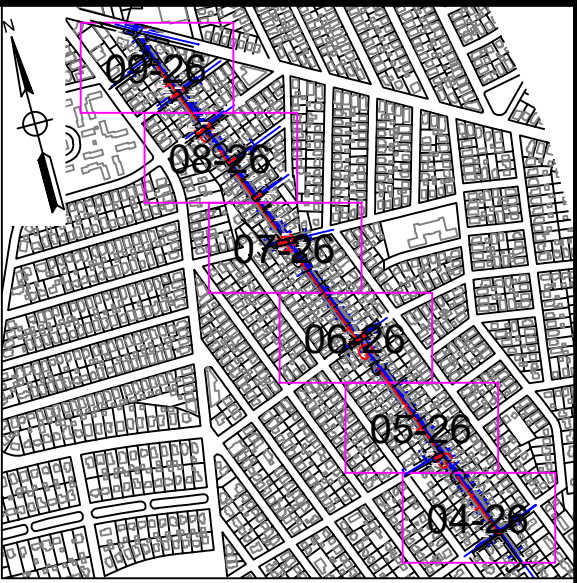
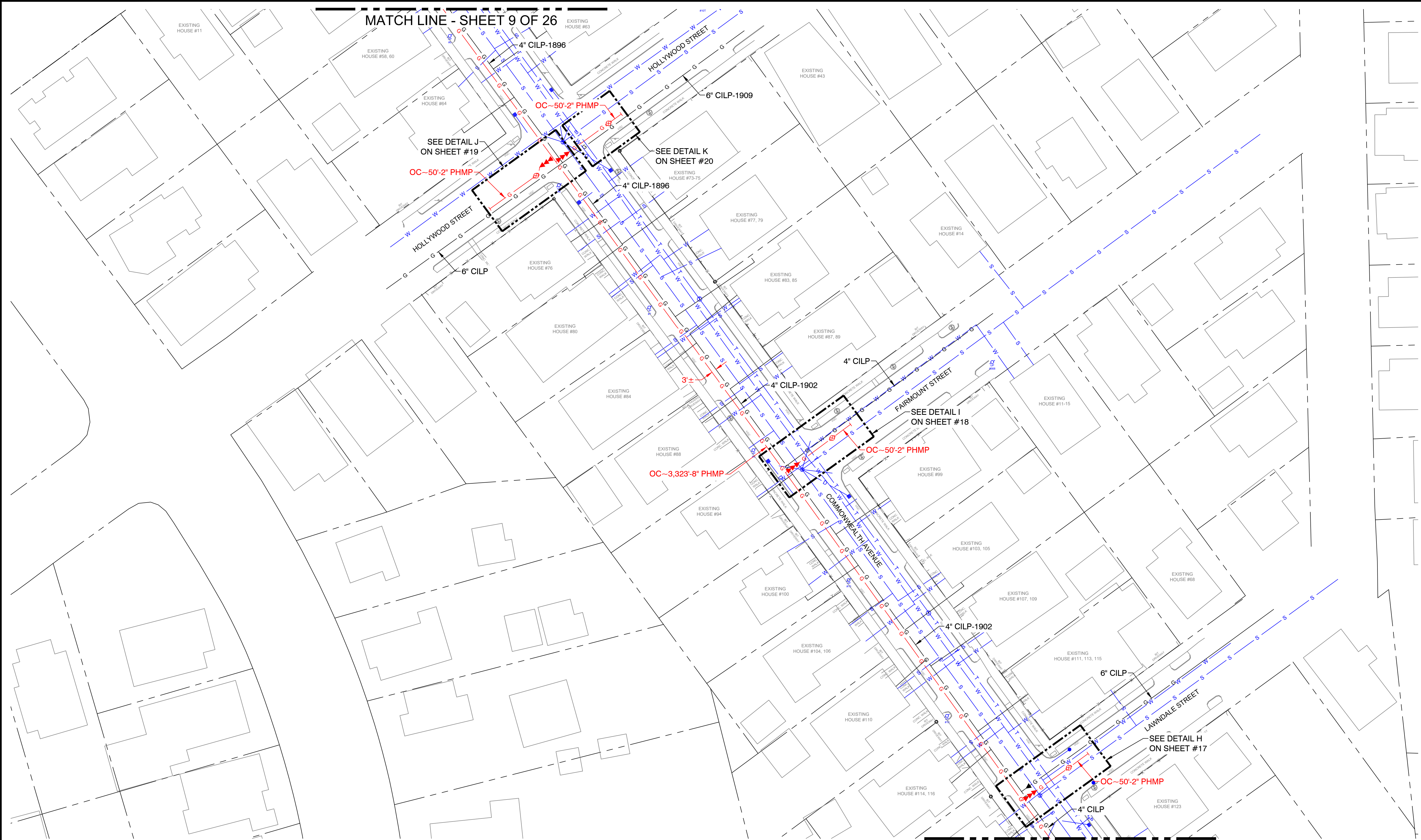
EVERSOURCE ENERGY			
COMMONWEALTH AVE - RELIABILITY, SPRINGFIELD, MA			
PROJECT # 25EG027R / WORK ORDER # 16768407			
PROJECT LOCATION PLANS			
SCALE: 1"=30' ON 22"X34"		SHEET 07 OF 26	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
KMQ 7/18/2024	TH 8/9/2024	MA-SPR-PIP-25-015-07	0

Commonwealth Ave - Pro Drawing Rev0.dwg

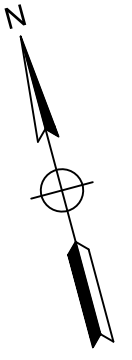
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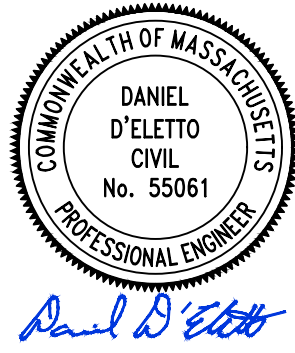


KEY MAP
SCALE: N.T.S.



0	ISSUED FOR CONSTRUCTION	12/3/24	KMQ/TH
No.	Description	Date	Dw/Ck
Revision/Status			

ISSUED FOR
CONSTRUCTION





215 GREENFIELD PKY | Suite 102 | LIVERPOOL, NY 13088



Know what's below.
Call before you dig.

FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

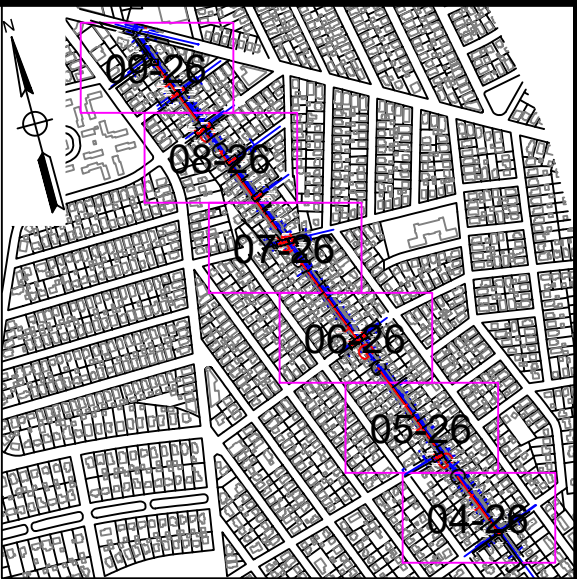
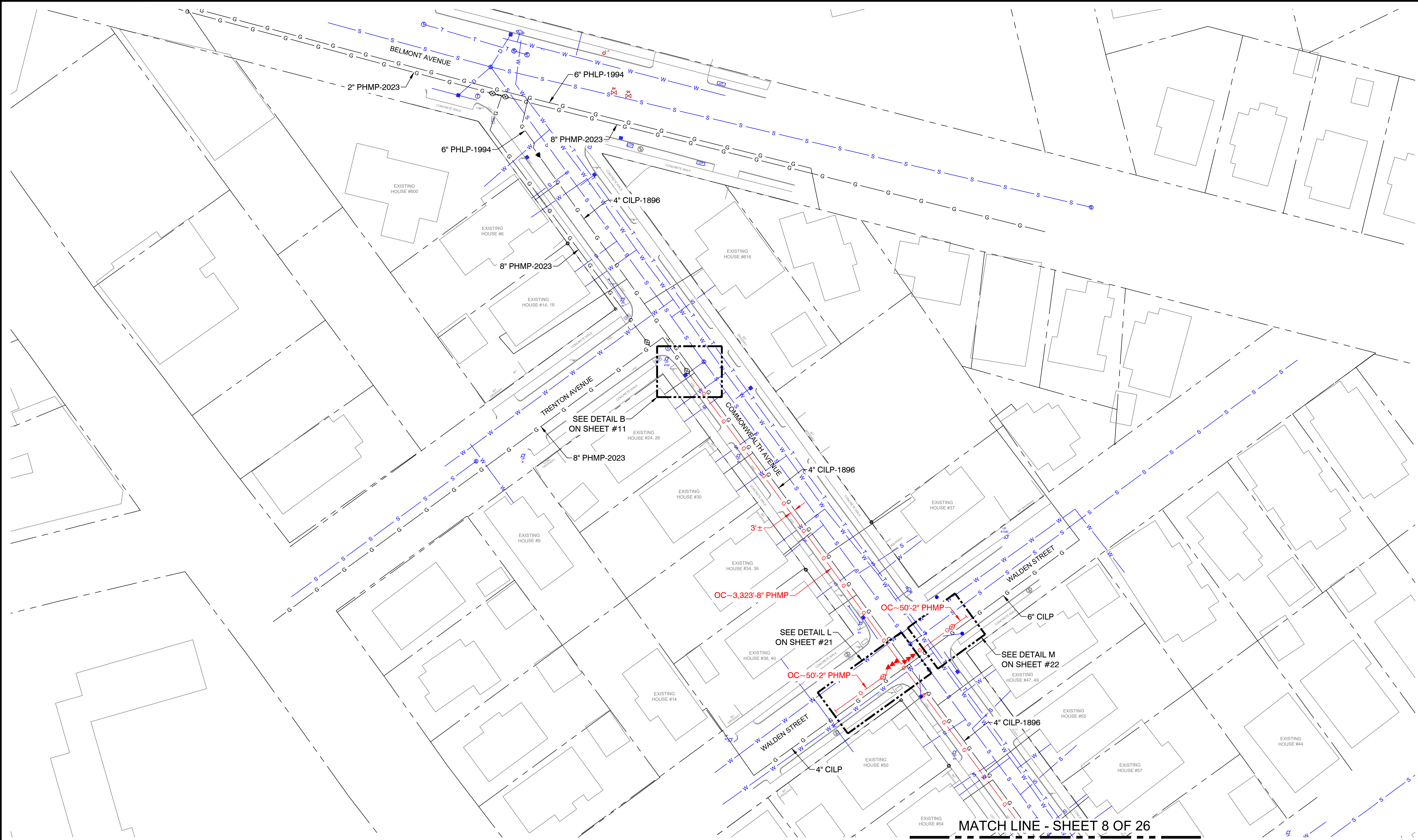
EVERSOURCE ENERGY			
COMMONWEALTH AVE - RELIABILITY, SPRINGFIELD, MA			
PROJECT # 25EG027R / WORK ORDER # 16768407			
PROJECT LOCATION PLANS			
SCALE: 1"=30' ON 22"X34"		SHEET 08 OF 26	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
KMQ 7/18/2024	TH 8/9/2024	MA-SPR-PIP-25-015-08	0

Commonwealth Ave - Pro Drawing Rev0.dwg

EGMA DRAWING TEMPLATE - 02-09-2023

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Dec 03, 2024 - 8:04am





12/10/24

Honorable Mayor and City Council
City of Springfield
City Hall
Court Street
Springfield, MA 01103

ATTN: Gladys Oyola-Lopez, City Clerk

PROJECT NAME: Commonwealth Ave – GSEP

Ladies & Gentlemen:

Eversource of Massachusetts (EGMA) hereby requests that it be granted a location for and permission to install and replace underground gas facilities within a section of the Commonwealth Ave Neighborhood (as seen in the attached plan). Work will extend to the following streets in varying degrees/durations:

<u>Street Name</u>	<u>From</u>	<u>To</u>
Commonwealth Ave	Trenton St	Carroll St

This project will introduce modernized natural gas facilities to the area and retire some sections of aged cast iron low pressure natural gas infrastructure. All proposed work by EGMA will include such laterals and service connections as it may now or subsequently find necessary. This project is being done in order to eliminate aging infrastructure and to replace the existing cast iron main and also to get ahead of the planned MassDOT work for this area.

Kyle Benoit
Engineer
Eversource Energy
2025 Roosevelt Ave.
Springfield, MA 01104
Cell: 978-382-5026
Email: kyle.benoit@eversource.com

CITY OF SPRINGFIELD, MASSACHUSETTS

February 11, 2025

+

TO THE MAYOR AND CITY COUNCIL OF THE CITY OF SPRINGFIELD:

The Board of Public Works, to which was referred the petition of Eversource-Gas of Massachusetts, dated December 12, 2024, to install underground gas facilities on Commonwealth Ave. Starting with two (2") inches of pipe from Trenton Ave., running a southerly direction three thousand three hundred twenty-three (3,323') feet, to Carroll Street: Winter Street is incorporated herein by reference and to lay and maintain underground gas main pipes for improvements of the system reports thereon as follows:

By virtue of Chapter 708 of the Acts of 1977, the Board of Public Works held the hearing on the above matter provided for in Section 22 of Chapter 166 of the General Laws. The hearing was held on February 11, 2025, at 3:45 P.M. at the corner of Belmont Avenue and Commonwealth Ave. in Springfield, MA, after due notice from the office of the City Clerk. Two (2) members of the Board and one (1) person interested in the matter were present. Of the latter, one (1) voted in favor and no one (0) voted against.

The Board finds the request necessary so that the utility company can upgrade existing underground facilities to improve the quality of service in this area.

After careful consideration, the Board recommends the petition be granted provided:

That due care for public safety is exercised during construction including but not limited to the use of a police officer(s) for traffic control if necessary.

That said construction would not unnecessarily interfere with the movement of vehicular or pedestrian traffic in the area.

That care be taken during said construction not to damage any underground services.

That the construction site be returned to the same condition as found or better.

Said company shall indemnify and save harmless against all damages, costs and expenses whatsoever to which the City may be subjected in consequence of the acts or neglect of said Company, its agents or servants, or in any manner arising from the rights and privileges granted it by the City.

Attachment: Report City Council Commonwealth Ave (8502 : Eversource - Commonwealth Ave.)

In addition said company shall, before a public way is disturbed for the laying of its wire or conduit, execute its bond in the penal sum of Ten Thousand Dollars (\$10,000) conditioned for the faithful performance of its duties under this permit.

Said company shall comply with the requirements of existing Ordinances and orders and comply with any changes in Ordinances and orders as may hereafter be adopted by the Mayor and Council governing the construction and maintenance of buried cable, conduits, and wires.

Any sidewalks that are damaged or removed will be replaced in kind and in accordance with the City of Springfield's Standard Specifications.

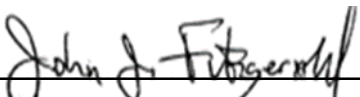
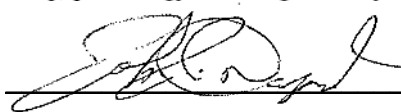
Ramps for the handicapped will be provided if and where required by law and in conformance with the Rules and Regulations of the Massachusetts Architectural Barrier Board.

Any curbing that is disturbed during construction will be reset to the established street grade using proper construction procedures.

That due care be exercised not to unnecessarily damage any public shade trees located within the construction area.

The Springfield Water and Sewer Commission be notified before construction begins. All installations of adjacent utilities must be a minimum of 4 feet from the existing water and/or sewer main, edge to edge of the pipe.

That all conditions outlined in the respective order are complied with.


_____)

_____)

BOARD OF PUBLIC WORKS



City Council
36 Court Street
Springfield, MA 01103

Meeting: 03/25/25 03:30 PM
Department: Department of Public Works
Category: General
Prepared By: Hector Velez
Initiator: Hector Velez
Sponsors:
DOC ID: 8499

TABLED

PETITION (ID # 8499)

EVERSOURCE -Page Blvd.

ORDER FOR LOCATION OF UNDERGROUND CONDUIT

WHEREAS, The Board of Public Works, to which was referred the petition of Eversource-Gas to install underground gas facilities in Indian Orchard Neighborhood in Springfield to install medium-pressure and retire low-pressure cast iron gas infrastructure.

WHEREAS, said petition Page Blvd. was referred to the Board of Public Works on November 7, 2024; and

WHEREAS, On January 14, 2025, a Notice of a Public Hearing on Page Blvd. to be held on January 29, 2025, was sent by mail, to all property owners abutting an affected road, various Departments, Utility Companies, etc before the day of the hearing and posted on two public bulletin board a copy of which is attached a hearing of the Board of Public Works was held as scheduled on-site with the petitioner and interested parties.

WHEREAS, on January 29, 2025, the Board of Public Works reported thereon that, after careful consideration of the petition to install underground gas facilities on Page Blvd. Tremont Street, Carlos Street, and Birchan Street and retire low-pressure cast iron gas infrastructure; all substantially shown on a plan attached with the project name:

Paramount St.

Consisting of twenty-seven (27) sheets, which plan is incorporated herein by reference and is on file in the office of the Engineering Division of the Department of Public Works, Springfield, Massachusetts.

WHEREAS, the petition Page Blvd. came before the City Council for a Public Hearing on this date,

NOW, THEREFORE, BE IT ORDERED:

1. That due care for public safety is exercised during construction including but not limited to the use of a police officer(s) for traffic control if necessary.
2. That said construction would not unnecessarily interfere with the movement of vehicular or pedestrian traffic in the area.
3. That care be taken during said construction not to damage any underground services.

4. That the construction site be returned to the same condition as found or better.
5. Said company shall indemnify and save harmless against all damages, costs and expenses whatsoever to which the City may be subjected in consequence of the acts or neglect of said Company, its agents or servants, or in any manner arising from the rights and privileges granted it by the City.
6. In addition, said company shall, before a public way is disturbed for the laying of its wire or conduit, execute its bond in the penal sum of Ten Thousand Dollars (\$10,000) conditioned for the faithful performance of its duties under this permit.
7. Said company shall comply with the requirements of existing Ordinances and orders and comply with any changes in Ordinances and orders as may hereafter be adopted by the Mayor and Council governing the construction and maintenance of buried cable, conduits, and wires.
8. Any sidewalks that are damaged or removed will be replaced in kind and accordance with the City of Springfield's Standard Specifications.
9. Ramps for the handicapped will be provided if and where required by law and in conformance with the Rules and Regulations of the Massachusetts Architectural Barrier Board.
10. Any curbing that is disturbed during construction will be reset to the established street grade using proper construction procedures.
11. That all proposed silo, manhole, and hex-hole covers will conform to and be compatible with an established street, tree belt, or sidewalk grades with suitable non-skid covers when in the sidewalk area.
12. The Springfield Water and Sewer Commission be notified before construction begins. All installations of adjacent utilities must be a minimum of 4 feet from the existing water and/or sewer main, edge to edge of the pipe.
13. That asphalt trench restoration be done in accordance with the City of Springfield DPW requirements.
14. That all conditions outlined in the respective order are complied with.

HISTORY:

03/10/25 City Council

REFER TO COMMITTEE

Next: 03/25/25

SENT TO MAINTENANCE AND ECONOMIC DEVELOPMENT COMMITTEES

Paramount St - Pro Drawing Rev0.dwg

EGMA DRAWING TEMPLATE - 02-09-2023

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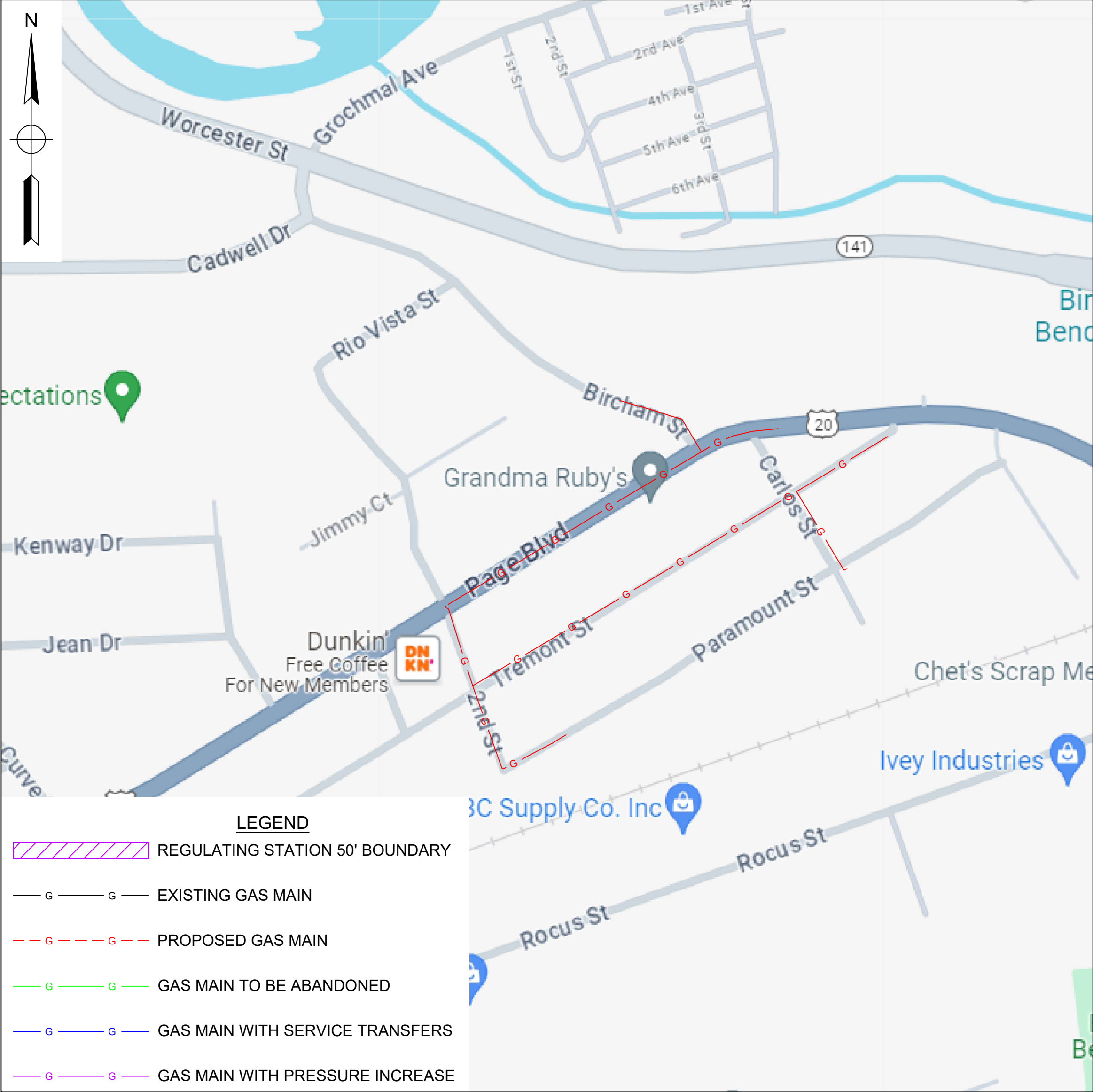
TABLE OF CONTENTS

SHEET #	TITLE
01 OF 27	COVER SHEET
02 OF 27	NOTES
03 OF 27	LEGEND
04 OF 27	PROJECT LOCATION PLAN
05 OF 27	PROJECT LOCATION PLAN
06 OF 27	PROJECT LOCATION PLAN
07 OF 27	PROJECT LOCATION PLAN
08 OF 27	PROJECT LOCATION PLAN
09 OF 27	MA PREPARATORY AND FINAL TIE-IN DETAILS
10 OF 27	MA PREPARATORY AND FINAL TIE-IN DETAILS
11 OF 27	MA PREPARATORY AND FINAL TIE-IN DETAILS
12 OF 27	MA PREPARATORY AND FINAL TIE-IN DETAILS
13 OF 27	MA PREPARATORY AND FINAL TIE-IN DETAILS
14 OF 27	MA PREPARATORY AND FINAL TIE-IN DETAILS
15 OF 27	MA PREPARATORY AND FINAL TIE-IN DETAILS
16 OF 27	MA PREPARATORY AND FINAL TIE-IN DETAILS
17 OF 27	MA PREPARATORY AND FINAL TIE-IN DETAILS
18 OF 27	MA PREPARATORY AND FINAL TIE-IN DETAILS
19 OF 27	MA PREPARATORY AND FINAL TIE-IN DETAILS
20 OF 27	MA PREPARATORY AND FINAL TIE-IN DETAILS
21 OF 27	MA PREPARATORY AND FINAL TIE-IN DETAILS
22 OF 27	MA PREPARATORY AND FINAL TIE-IN DETAILS
23 OF 27	MA PREPARATORY AND FINAL TIE-IN DETAILS
24 OF 27	MA CORROSION DETAILS (1 OF 3)
25 OF 27	MA CORROSION DETAILS (2 OF 3)
26 OF 27	MA CORROSION DETAILS (3 OF 3)
27 OF 27	BLANK GRIDDED SHEET

PROJECT SUMMARY TABLE				
INSTALLATION INFORMATION				
Work Type	LENGTH (FT)	SIZE (IN)	MAOP	MATERIAL
INSTALL	1,083'	12"	60 PSIG	HDPE
INSTALL	2,663'	2"	60 PSIG	HDPE
INSTALLATION TOTAL				3,746'
UPRATE/RETEST TOTAL				0'

PROJECT SUMMARY TABLE			
ABANDONMENT INFORMATION			
LENGTH (FT)	SIZE (IN)	MAOP	ABANDONMENT CLASS
220'	12"	14"WC	CI-(GSEP)
716'	4"	14"WC	CI-(GSEP)
274'	4"	14"WC	UNPROTECTED CS (GSEP)
1,608'	6"	14"WC	CI-(GSEP)
1,195'	6"	14"WC	PROTECTED CS (NON-GSEP)
238'	6"	14"WC	UNPROTECTED CS (GSEP)
GSEP ABANDONMENT SUBTOTAL			3,056'
NON-GSEP ABANDONMENT SUBTOTAL			1,195'
ABANDONMENT TOTAL			4,251'

EVERSOURCE ENERGY



WORK SCOPE

ISSUED FOR CONSTRUCTION



DANIEL D'ELETTO, P.E.
2024.07.17
13:57:03-04'00'

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FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

0	ISSUED FOR CONSTRUCTION	7/17/24	KMQ/AM
No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
PARAMOUNT ST, INDIAN ORCHARD, MA			
PROJECT # 25EG011 / WORK ORDER # 16660732			
COVER SHEET			
SCALE:1"=40' ON 22"X34"		SHEET 01 OF 27	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
TJ / 05/16/2024	KMQ / 05/20/2024	MA-SPR-PIP-25-009-01	0

PARAMOUNT ST, INDIAN ORCHARD, MA
PROJECT #25EG011
WORK ORDER #16660732

Paramount St. - Pro Drawing Rev0.dwg

EGMA DRAWING TEMPLATE - 02-09-2023

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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.D.
- 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. CARE SHOULD BE TAKEN NOT TO DISTURB OR DAMAGE SUCH ITEMS. ROADWAY, SIDEWALKS, AND GRASS DISTURBED SHALL BE RESTORED TO THE SATISFACTION OF THE CITY OR TOWN. PLANT BEDS WILL 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.

WARNING:
FOR LP SYSTEMS (≤2 PSIG), **DO NOT USE** VENT STACKS LARGER THAN THOSE LISTED IN TABLE 3. DOING SO MAY CAUSE THE EXIT VELOCITY OF THE PURGE GASSES OUT OF THE STACK TO DROP BELOW THE RATE OF FLAME TRAVEL. IF VENT GASSES BECOME IGNITED, THE FLAME COULD TRAVEL BACK THROUGH THE VENT STACK, INTO THE MAIN.

TABLE 3 - REQUIRED VENT STACK SIZES FOR MAINS		
PIPELINE TO BE PURGED - NOMINAL SIZE (INCHES)	PURGE GAS INJECTION FLOW RATE (CFM), MINIMUM	REQUIRED VENT STACK SIZE
1 ¼	5	1-INCH
1 ½	5	1-INCH
2	10	1-INCH
3	10	1-INCH
4	15	1-INCH
6	30	2-INCH(1)
8	60	2-INCH(1)
10	100	2-INCH(1)
12	150	2-INCH(1)
16	275	2-INCH
18	370	2-INCH

- NOTE:
1.

WHEN PURGING A PRESSURIZED SYSTEM (MAOP>2 PSIG) **INTO** SERVICE, A 1-INCH NOMINAL VENT STACK CAN BE UTILIZED, IF DESIRED.
2.

WITHIN THE VENT STACK ASSEMBLIES, TWO TYPES OF "LOCALIZED REDUCTIONS" ARE PERMITTED AND SPECIFICALLY INCLUDE: THE TAP HOLE IN THE MAIN AND THE REDUCED SIZE OF THE PORT IN THE VENT STACK/ISOLATION VALVE.

•

FOR 1-INCH NOMINAL VENT STACKS THE TAP/PORT CAN BE AS SMALL AS ¾"; AND

•

FORE THE 2-INCH NOMINAL VENT STACKS THE TAP/PORT CAN BE AS SMALL AS 1 ¼".
3.

THE BALANCE OF THE VENT STACK ASSEMBLY SHALL BE CONSTRUCTED USING PIPE AND FITTINGS OF THE NOMINAL SIZE OF THE SPECIFIED VENT STACK.

PARAMOUNT ST, INDIAN ORCHARD, MA			COMPLETE BOM	
REQUIRED BILL OF MATERIALS				
92	610763	FITTING,CAP, END, LYCOFIT, 2 IN IPS X 0.121 IN THK WALL instead of 2 IN CTS X 0.121 IN THK WALL, PLASTIC, SDR 11, CMA 750830	1	EA
99	610772	FITTING,COUPLING, REPAIR, LYCOFIT, 2 IN IPS, PLASTIC, SDR 11, CMA 21658101	1	EA
47	611123	BOX, CP TEST, 5 IN, 18 IN SHAFT LENGTH, TERMINAL PLATE WALL THK 0.150 +- 0.015, ABS PLASTIC, W/ NON-LOCKING MAGNETIZED COVER, CMA 4232849	5	EA
	620089	FITTING,COUPLING, PIPE, LYCOFIT, 1 IN IPS SDR11, PLASTIC	4	EA
1653	620808	FITTING,CAP, LYCOFIT, 1 IN IPS SDR 11, PLASTIC, ASTM F1924	4	EA

PARAMOUNT ST, INDIAN ORCHARD, MA			COMPLETE BOM	
REQUIRED BILL OF MATERIALS				
Item Number	Maximo Part Number	Description	Quantity	Units
1611	500859	FITTING,TEE, 12 IN IPS X 2 IN IPS, HIGH VOLUME ELECTROFUSION TAPPING TEE WITH BUTT FUSION OUTLET, HDPE, BLACK, ASTM F1055, GFCP	2	EA
377	505818	ANODE,BAG, 2.5 X 2.5 X 4.5 IN, 10 FT LG, 3 LB, MAGNESIUM, Alternate IN 577776	7	EA
370	513679	CABLE, INSULATED, MDP, #12 AWG, 7 STR, YELLOW, POLYETHYLENE-30, SOFT DRAWN CU, 500 FT/RL, FOR USED AS PIPE LOCATOR	3746	FT
8	542572	CAP,PIPE, 2 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100	4	EA
230	542982	CLAMP,PIPE, REPAIR, 6 IN CIP, SS, W/1-1/4 NPT TAP, FOR 6.84 - 7.24 IN PIPE	2	EA
229	543029	CLAMP,PIPE, REPAIR, 6 IN IPS, SS, W/1-1/4 IN TAP	6	EA
19	545367	ELBOW,PIPE, 90 DEG, 2 IN SDR 11, BUTT WELD ENDS, POLYETHYLENE, P100	1	EA
72	546256	FITTING, TRANSITION, 2 IN IPS CS X 2 IN IPS, PE4710, SDR 11, STEEL WELD X PLASITC, BUTT WELD	1	EA
1617	546263	FITTING,TRANSITION, 12 IN IPS CS X 12 IN IPS PE4710, SDR 11, STEEL WELD X PLASITC, BUTT ENDS	1	EA
487	551879	NIPPLE,PIPE, NON-BLOWING, 2 IN, 3 IN LG, SOCKET WELD X THREADED ENDS, CS	1	EA
1673	554031	PIPE, 12 IN IPS X 1.160 IN THK WALL SDR 11, 12.750 IN OD, 40 FT LG, POLYETHYLENE, PE3408	1083	FT
359	554877	PLUG,PIPE, SQUARE HEAD, SOLID, 1-1/4 IN, THREADED END, BLACK IRON, ANSI B1.20.1	8	EA
361	554878	PLUG,PIPE, SQUARE HEAD, SOLID, 2 IN, THREADED END, BLACK IRON, ANSI B1.20.1	21	EA
1605	555603	REDUCER,PIPE, CONCENTRIC, 12 IN X 0.375 IN THK WALL X 10 IN X 0.365 IN THK WALL , BUTTWELD, ASTM A234, ANSI B16.9, CS	1	EA
29	560705	TEE,PIPE, 2 IN IPS SDR 11, BUTT ENDS, POLYETHYLENE, P100	2	EA
33	562087	VALVE,BALL, 2 IN IPS, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING	4	EA
1669	562254	VALVE,BALL, 12 IN, POLYETHYLENE, SDR 11, P100/PE4710, BUTT WELD, W/ FULL PORT OPENING, BLACK FINISH, KEROTEST, GEAR OPERATED	1	EA
368	565814	TAPE,WARNING, MARKED BURIED GAS LINE, 4 MIL, 1000 FT ROLL, 6 IN W, YELLOW, ISSUE EACH ROLL AS 1, T-01-A00,	4	RL
379	577776	ANODE,BAG, 17 LB NET, HIGH POTENTIAL MAGNESIUM, W/ 10 FT #10 AWG TW ORANGE LEAD WIRE, PACKED IN CARDBOARD BOX 42 LB TOTAL WEIGHT	10	EA
227	578019	FITTING,CLAMP, SERVI-SEAL REPAIR, 4 IN DIA, 9 IN LG, W/ 2 IN OUTLET, FOR STEEL PIPE	1	EA
228	578020	FITTING,CLAMP, SERVI-SEAL REPAIR, 4 IN DIA, 9 IN LG, W/ 2 IN OUTLET, FOR CAST IRON PIPE	1	EA
232	578022	PIPE, 12 IN IPS SDR 11, 40 FT LG, HDPE, BLACK, Replaced by 55 4031	5	FT
246	578185	FITTING,COUPLING, VENTED, INSULATED, 6 IN, W/ END CAP, FOR STEEL PIPE, EZB6VIUMG	4	EA
1609	581044	FITTING,CAP, 12 IN IPS SDR 11, BUTT FUSION END, HDPE, BLACK	2	EA
1670	581046	BOX VALVE, ROAD, HEAVY DUTY, W/ NON-LOCKING CAST IRON FRAME AND GAS 14-7/8 IN ROUND LID, FOR 12 IN VALVES	1	EA
3	592668	PIPE, 2 IN IPS X 0.216 IN THK WALL SDR 11, 2.375 IN OD, 350 FT LG COIL, POLYETHYLENE, PE3408/PE100	2663	FT
1660	602892	FITTING,TEE, 2 IN IPS X 1 IN IPS, ELECTROFUSION, HDPE, WITH BUTT FUSION OUTLET, HDPE, BLACK, ASTM F1055	4	EA
296	610060	TEE, NON-BLOWING, FOR VALVE, 2 IN TEE OUTLET X 2 IN MAIN, WELDED, 250 PSIG, W/ CI CAP, CMA 44788502	1	EA
43	610062	BOX VALVE, EXTENTION, 18 X 24 IN LONG, CMA 4232860	4	EA
488	610264	NIPPLE,PIPE, NON-BLOWING, DRILL, 1-1/4 IN X 3 IN, WELDED, 1440 PSIG, CMA 2485855	1	EA
238	610399	FITTING,CAP, LINE, INSULATED, 6 IN, 6.90 IN OD, CI, W/ ANODE, FOR CI PIPE, CMA 21128001	4	EA



OVERVIEW KEY MAP
NOT TO SCALE

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CONSTRUCTION



Daniel D'Elitto
DANIEL D'ELETTO, P.E.
2024.07.17
13:57:03-04'00"


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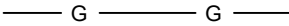


FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

0	ISSUED FOR CONSTRUCTION	7/17/24	KMQ/AM
No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
PARAMOUNT ST, INDIAN ORCHARD, MA			
PROJECT # 25EG011 / WORK ORDER # 16660732			
NOTES			
SCALE:1"=40' ON 22"X34"		SHEET 02 OF 27	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
TJ 05/16/2024	KMQ 05/20/2024	MA-SPR-PIP-25-009-02	0

DRAWING LEGEND

Gas Main Symbology

REGULATING STATION 50' BOUNDARY	
EXISTING GAS MAIN	
PROPOSED GAS MAIN	
GAS MAIN TO BE ABANDONED	
GAS MAIN WITH SERVICE TRANSFERS	
GAS MAIN WITH PRESSURE INCREASE	
RIGHT-OF-WAY	
ELECTRIC	
WATER LINE	
SEWER LINE	
TELEPHONE	
DRAIN LINE	
FENCE LINE	

Gas Main Material/Pressure Label References

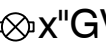
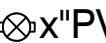
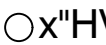
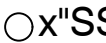
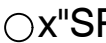
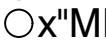
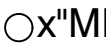
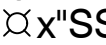
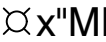
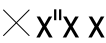
MATERIAL CODES

CS*	Coated Steel Gas Main
CI*	Cast Iron Gas Main
BS*	Bare Steel Gas Main
WI*	Wrought Iron Gas Main
PH*	High Density Polyethylene Gas Main
PM*	Medium Density Polyethylene Gas Main
PRESSURE CODES	
*LP	Low Pressure (<0.5 PSIG or 14" W.C.)
*IP	Intermediate Pressure (>2 PSIG ≤ 10 PSIG)
*MP	Medium Pressure (>10 PSIG ≤ 60 PSIG)
*HP	High Pressure (>60 PSIG)

MISCELLANEOUS CODES

*.SER	Service
*.R	Riser
(TC)	Transmission Class
Gas Main Installation Method Label References	
AT	Attached
BH	Bridge Hanger
BLGH	Building Hanger
DB	Directional Bore
IS	Inserted
OC	Open Cut
PB	Pneumatic Bore
PL	Plowed
RT	Roof Top
(E)	Existing
(P)	Proposed

Gas Facility Symbology

	Gas Valve
	Critical Gas Valve
	(Gate - GV, Plug - PV, PE Ball - BP, ST Ball - BV)
	High Volume Tapping Tee
	Pressure Control Fitting - ShortStopp Tee
	Pressure Control Fitting - Spherical Tee
	Pressure Control Fitting - Mueller Bottom-out
	Pressure Control Fitting - Mueller Side-out
	Pressure Control Fitting - Mueller Flange Tee
	Pressure Control Fitting - ShortStopp
	Pressure Control Fitting - Mueller Stopper
	Polytapp Side Saddle Fitting
	Transition
	End Cap
	Riser
	Reducer
	Electronic Marker
	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
	Meter with Regulator
	Test Point (Station)
	Gas Service Tie-over
	Gas Service Replacement
	Meter Move Out
Swing Tie Symbology	
	Telephone Manhole
	Drain Manhole
	Electric Manhole
	Catch Basis
	Sewer Manhole
	Fire Hydrant
	Utility Pole
	Property Marker
	Telephone Pedestal
	Television Pedestal
	Unknown Manhole
	Water Box
	Water Gate
	Electric Pedestal
	Iron Pin
	Light Pole
	INSIDE METER
	OUTSIDE METER

ISSUED FOR
CONSTRUCTION



DANIEL D'ELETTO, P.E. 2024.07.17
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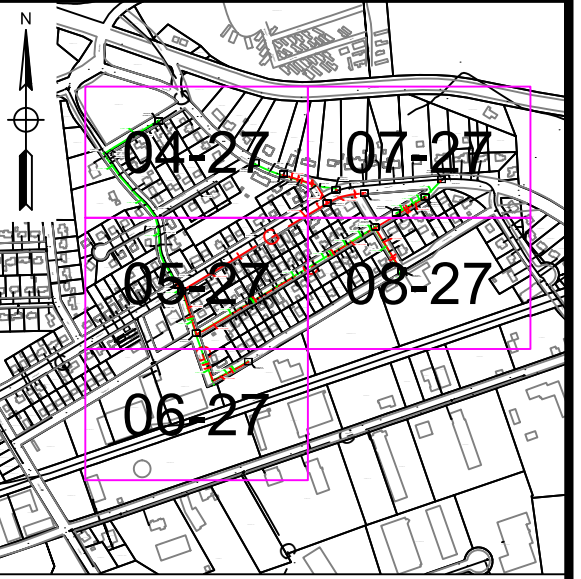
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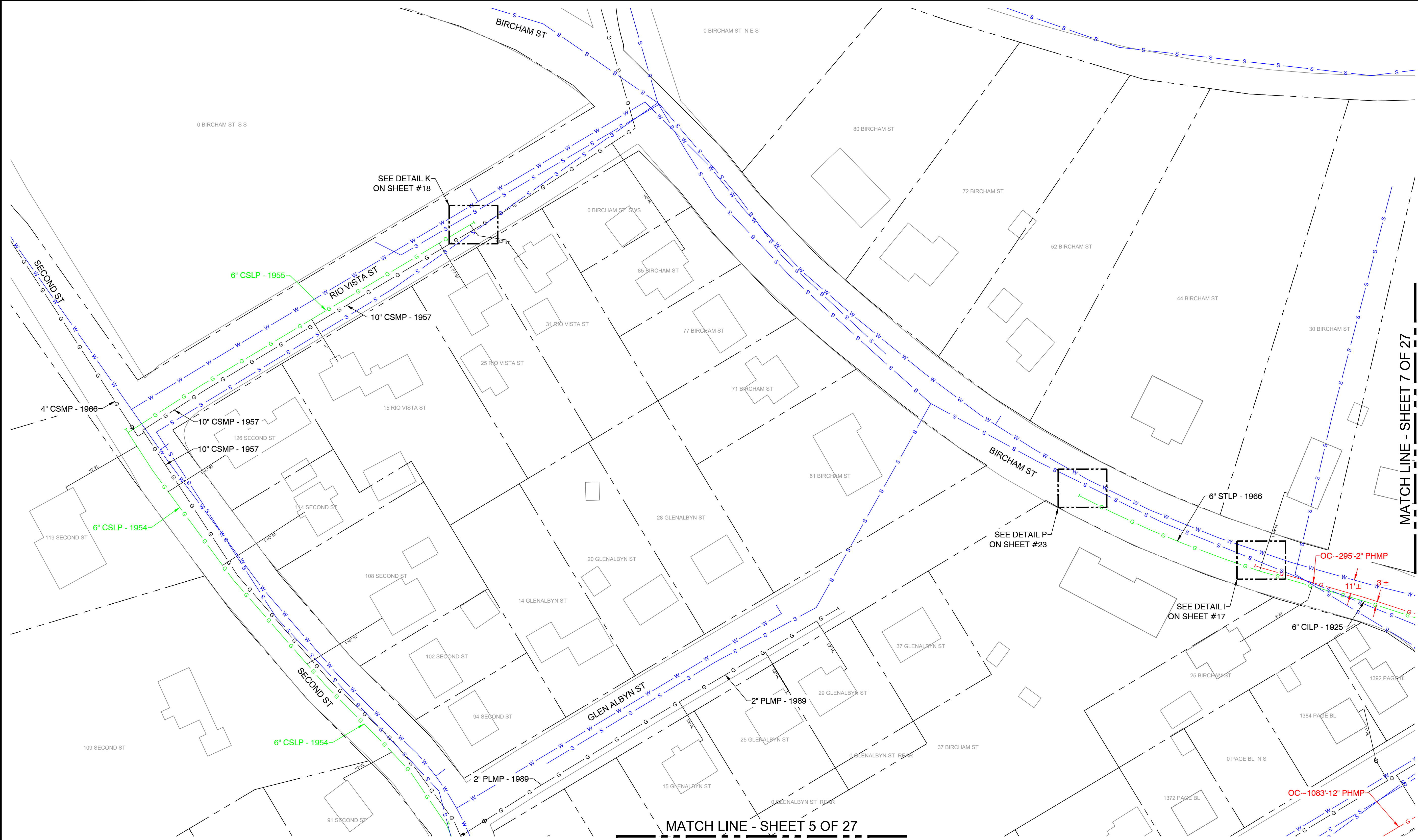
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0	ISSUED FOR CONSTRUCTION	7/17/24	KMQ/AM
No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
PARAMOUNT ST, INDIAN ORCHARD, MA			
PROJECT # 25EG011 / WORK ORDER # 16660732			
LEGEND			
SCALE:1"=40' ON 22"X34"		SHEET 03 OF 27	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
TJ 05/16/2024	KMQ 05/20/2024	MA-SPR-PIP-25-009-03	0



KEY MAP
SCALE: N.T.S.



MATCH LINE - SHEET 7 OF 27

MATCH LINE - SHEET 5 OF 27

Paramount St - Pro Drawing Rev0.dwg

EGMA DRAWING TEMPLATE - 02-09-2023

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Jul 17, 2024 - 11:17am

0	ISSUED FOR CONSTRUCTION	7/17/24	KMQ/AM
No.	Description	Date	Dw/Ck
Revision/Status			

ISSUED FOR
CONSTRUCTION



DANIEL D'ELETTO, P.E.
2024.07.17
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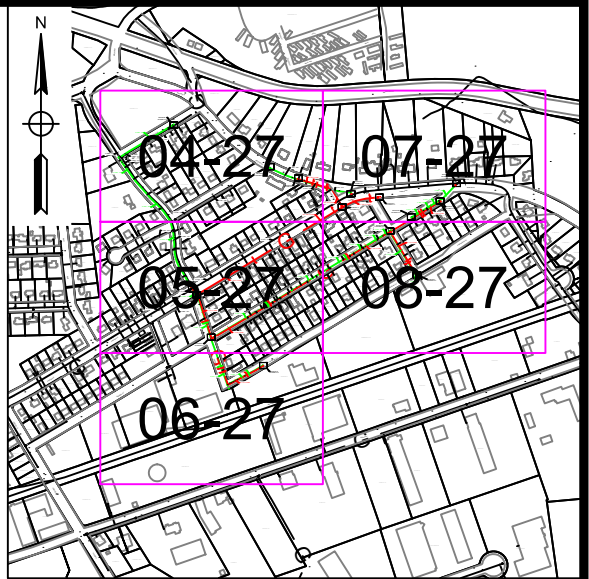
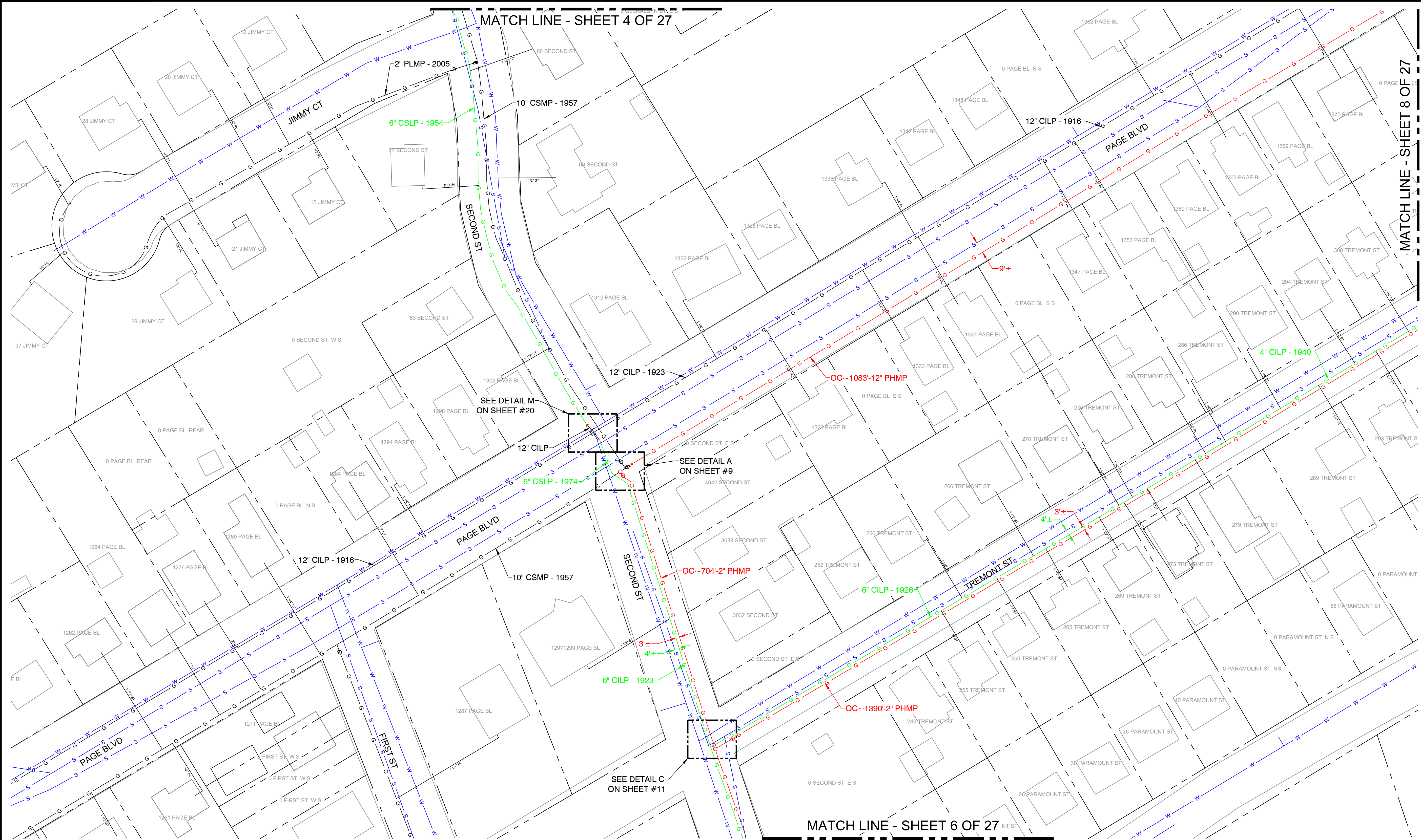
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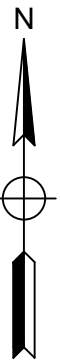
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PRIOR TO PIPE FABRICATION

EVERSOURCE ENERGY			
PARAMOUNT ST, INDIAN ORCHARD, MA			
PROJECT # 25EG011 / WORK ORDER # 16660732			
PROJECT LOCATION PLANS			
SCALE: 1"=40' ON 22"X34"			SHEET 04 OF 27
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
TJ 05/16/2024	KMQ 05/20/2024	MA-SPR-PIP-25-009-04	0



KEY MAP
SCALE: N.T.S.



0	ISSUED FOR CONSTRUCTION	7/17/24	KMQ/AM
No.	Description	Date	Dw/Ck
Revision/Status			

ISSUED FOR
CONSTRUCTION



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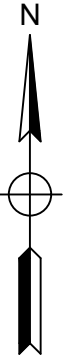
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PRIOR TO PIPE FABRICATION

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PARAMOUNT ST, INDIAN ORCHARD, MA			
PROJECT # 25EG011 / WORK ORDER # 16660732			
PROJECT LOCATION PLANS			
SCALE: 1"=40' ON 22"X34"			SHEET 05 OF 27
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
TJ 05/16/2024	KMQ 05/20/2024	MA-SPR-PIP-25-009-05	0



-SEE DETAIL B
ON SHEET #10

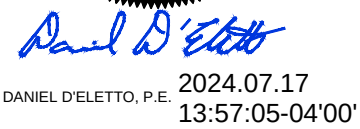
RAILROAD

270 ROCUS ST

160234 ROCUS ST

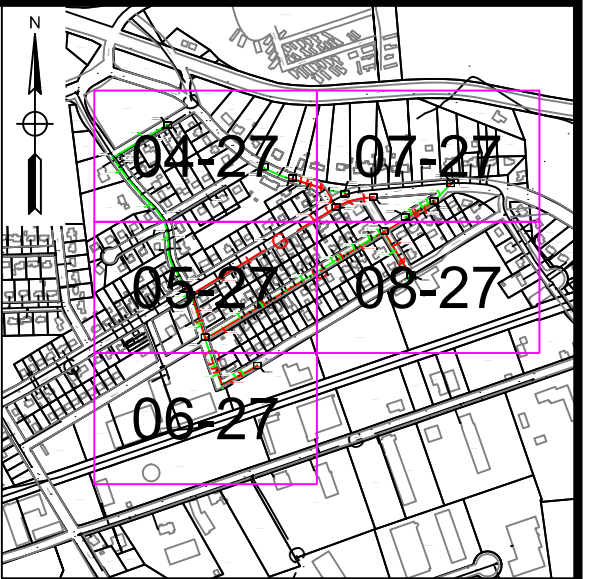
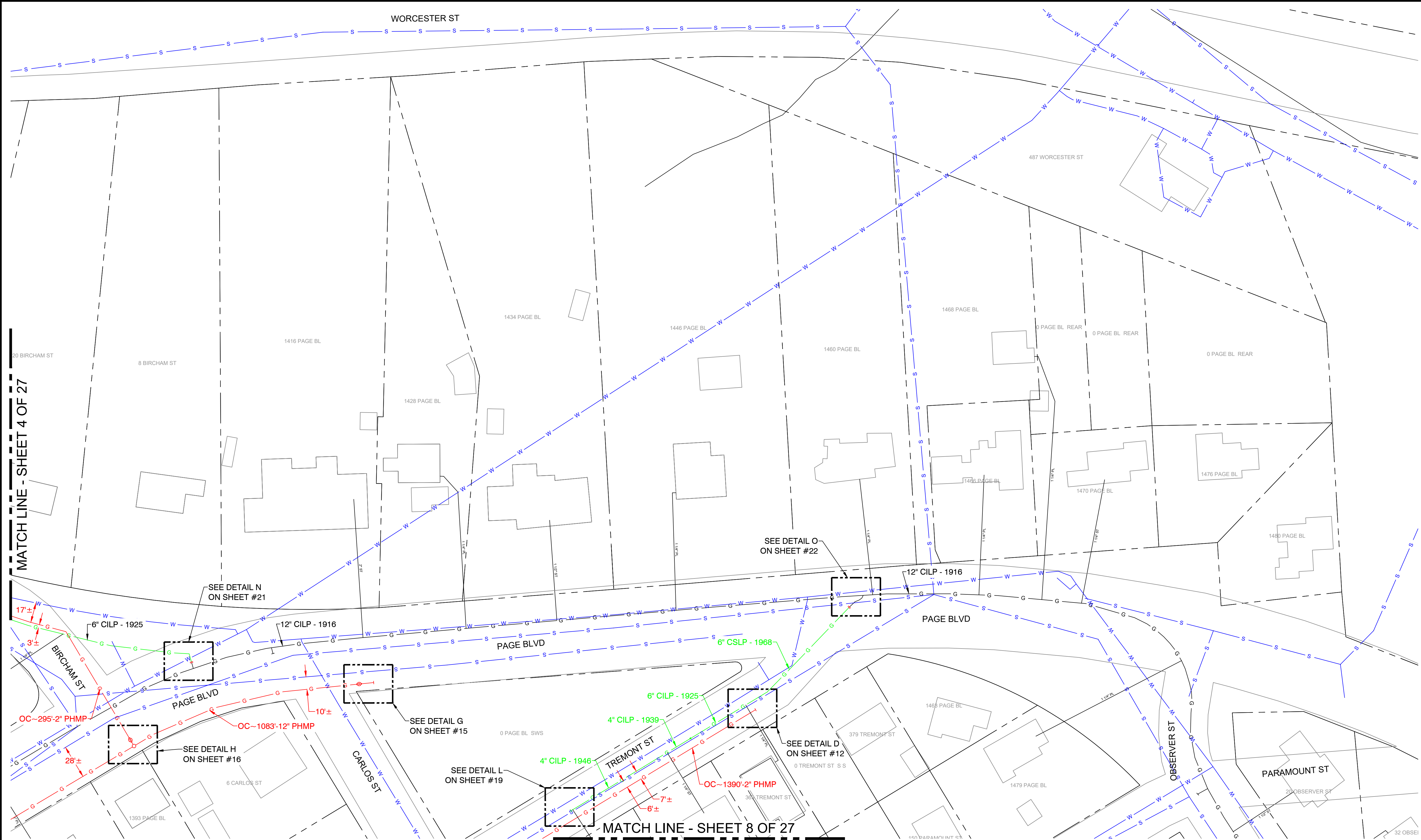
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No.	Description	Date	Dw/Ck
Revision/Status			

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CONSTRUCTION

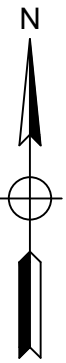


FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

			
PARAMOUNT ST, INDIAN ORCHARD, MA			
PROJECT # 25EG011 / WORK ORDER # 16660732			
PROJECT LOCATION PLANS			
SCALE: 1"=40' ON 22"X34"			SHEET 06 OF 27
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
TJ 05/16/2024	KMQ 05/20/2024	MA-SPR-PIP-25-009-06	0



KEY MAP
SCALE: N.T.S.



MATCH LINE - SHEET 4 OF 27

MATCH LINE - SHEET 8 OF 27

0	ISSUED FOR CONSTRUCTION	7/17/24	KMQ/AM
No.	Description	Date	Dw/Ck
Revision/Status			

ISSUED FOR
CONSTRUCTION



Daniel D'Elitto
DANIEL D'ELITTO, P.E. 2024.07.17
13:57:05-04'00"



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Know what's below.
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PRIOR TO PIPE FABRICATION

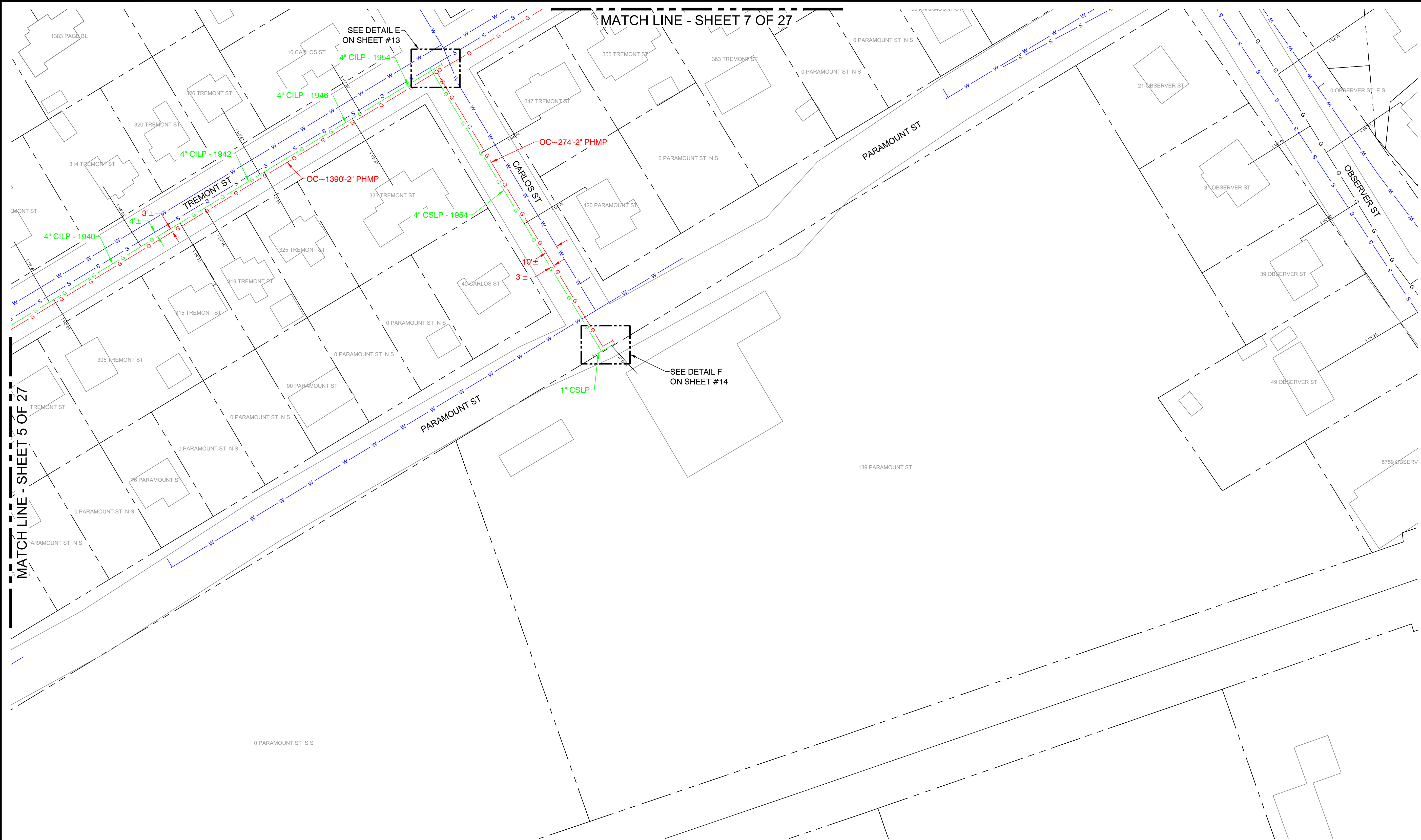
EVERSOURCE ENERGY			
PARAMOUNT ST, INDIAN ORCHARD, MA			
PROJECT # 25EG011 / WORK ORDER # 16660732			
PROJECT LOCATION PLANS			
SCALE: 1"=40' ON 22"X34"			SHEET 07 OF 27
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
TJ 05/16/2024	KMQ 05/20/2024	MA-SPR-PIP-25-009-07	0

Paramount St - Pro Drawing Rev0.dwg

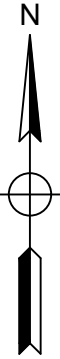
EGMA DRAWING TEMPLATE - 02-09-2023

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Jul 17, 2024 - 11:17am



KEY MAP
SCALE: N.T.S.



0	ISSUED FOR CONSTRUCTION	7/17/24	KMQ/AM
No.	Description	Date	Dw/Ck
Revision/Status			

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FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

EVERSOURCE ENERGY			
PARAMOUNT ST, INDIAN ORCHARD, MA			
PROJECT # 25EG011 / WORK ORDER # 16660732			
PROJECT LOCATION PLANS			
SCALE: 1"=40' ON 22"X34"			SHEET 08 OF 27
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
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Paramount St - Pro Drawing Rev0.dwg

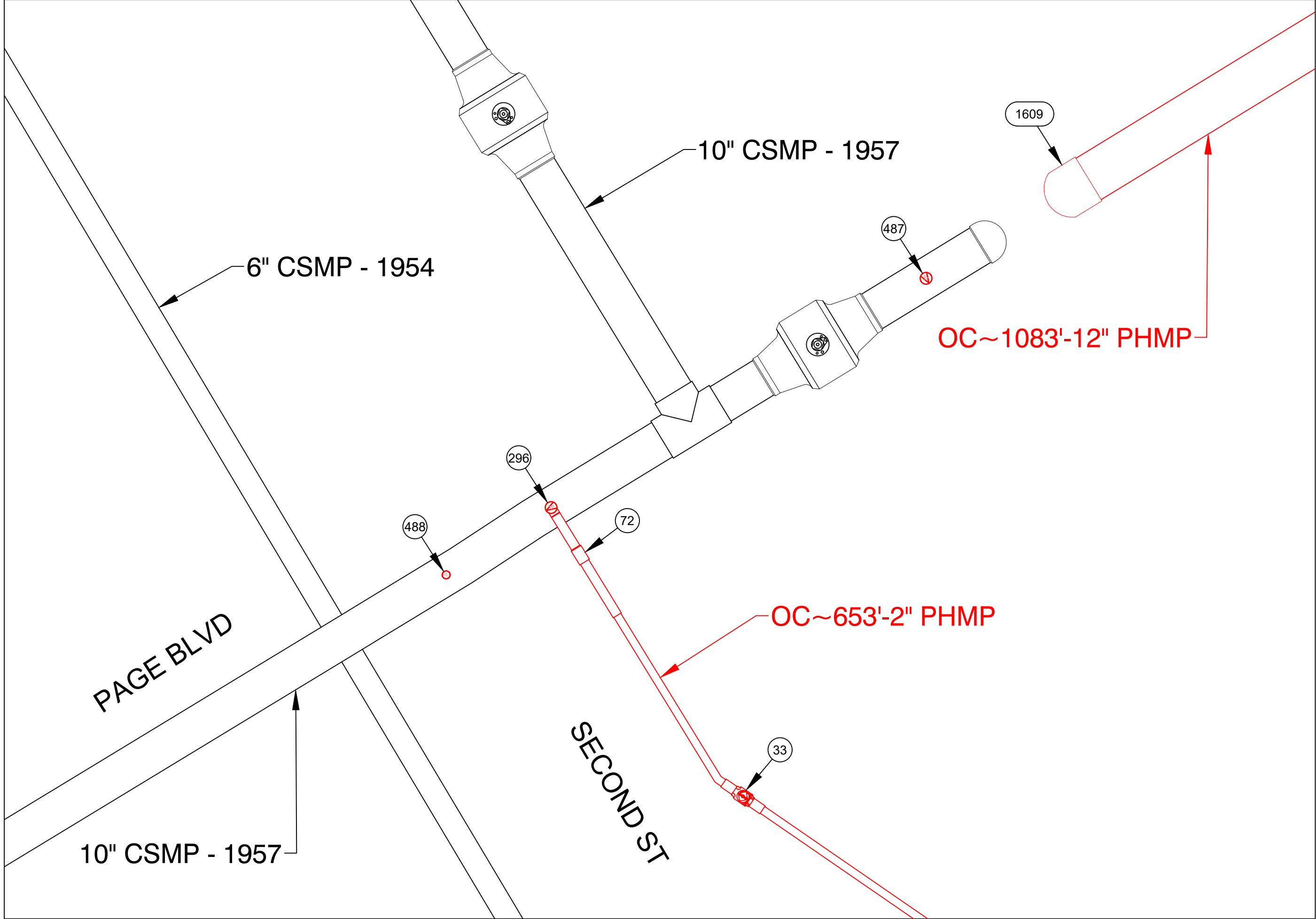
EGMA DRAWING TEMPLATE - 02-09-2023

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Jul 17, 2024 - 11:17am

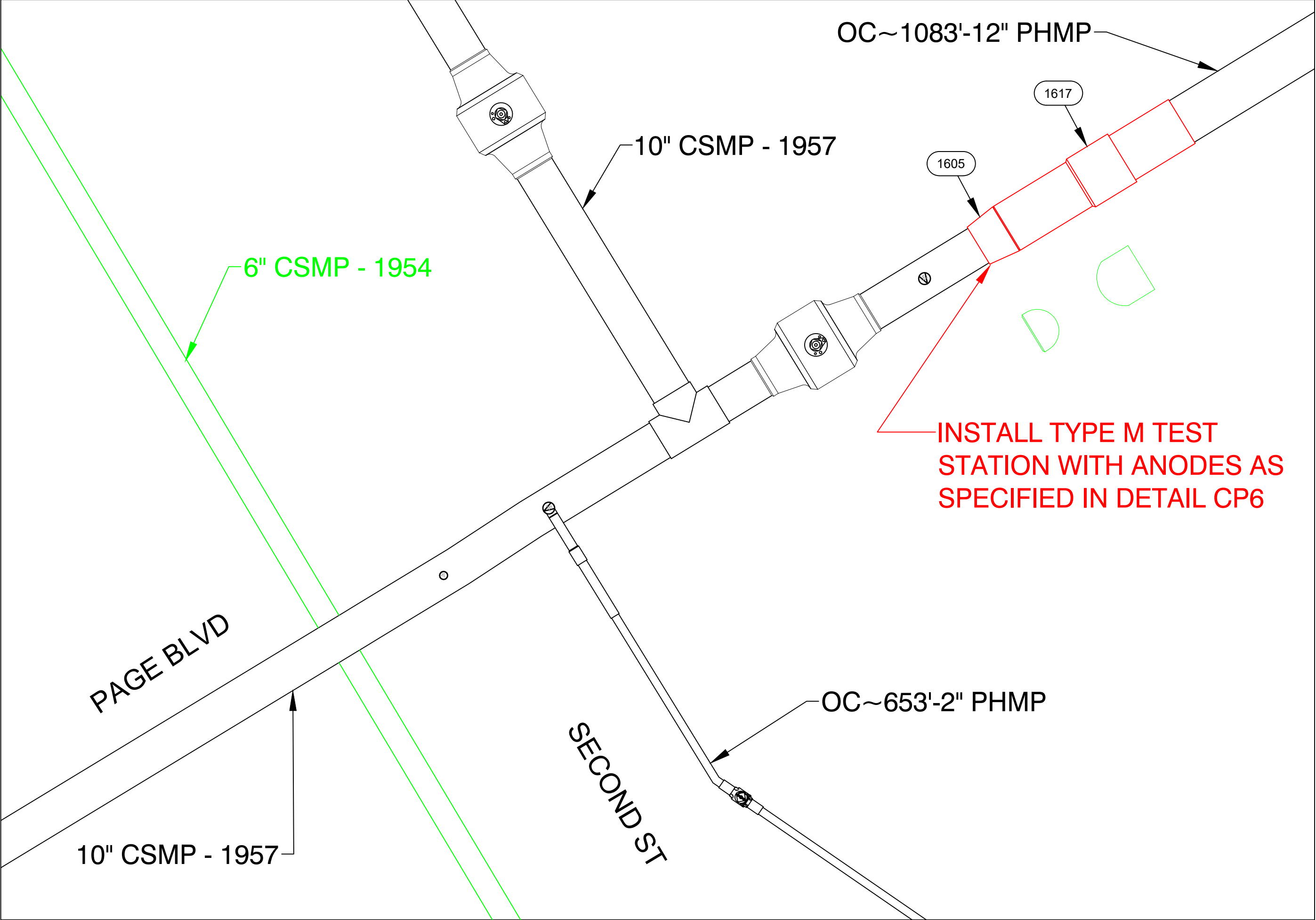


PARAMOUNT ST, INDIAN ORCHARD, MA				DETAIL "A" PREPARATORY	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
1609	10004163	581044	FITTING,CAP, 12 IN IPS SDR 11, BUTT FUSION END, HDPE, BLACK	1	EA
296	63420207	610060	TEE, NON-BLOWING, FOR VALVE, 2 IN TEE OUTLET X 2 IN MAIN, WELDED, 250 PSIG, W/ CI CAP, CMA 44788502	1	EA
33	14281726	562087	VALVE,BALL, 2 IN IPS, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING	1	EA
487	63420107	551879	NIPPLE,PIPE, NON-BLOWING, 2 IN, 3 IN LG, SOCKET WELD X THREADED ENDS, CS	1	EA
488	63420117	610264	NIPPLE,PIPE, NON-BLOWING, DRILL, 1-1/4 IN X 3 IN, WELDED, 1440 PSIG, CMA 2485855	1	EA
72	63151162	546256	FITTING, TRANSITION, 2 IN IPS CS X 2 IN IPS, PE4710, SDR 11, STEEL WELD X PLASTIC, BUTT WELD	1	EA



PREPARATORY TIE-IN DETAIL A
NOT TO SCALE

PARAMOUNT ST, INDIAN ORCHARD, MA				DETAIL "A" FINAL	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
1605	MCJUREMA	555603	REDUCER,PIPE, CONCENTRIC, 12 IN X 0.375 IN THK WALL X 10 IN X 0.365 IN THK WALL, BUTTWELD, ASTM A234, ANSI B16.9, CS	1	EA
1617	360002601	546263	FITTING,TRANSITION, 12 IN IPS CS X 12 IN IPS PE4710, SDR 11, STEEL WELD X PLASITC, BUTT ENDS	1	EA



FINAL TIE-IN DETAIL A
NOT TO SCALE

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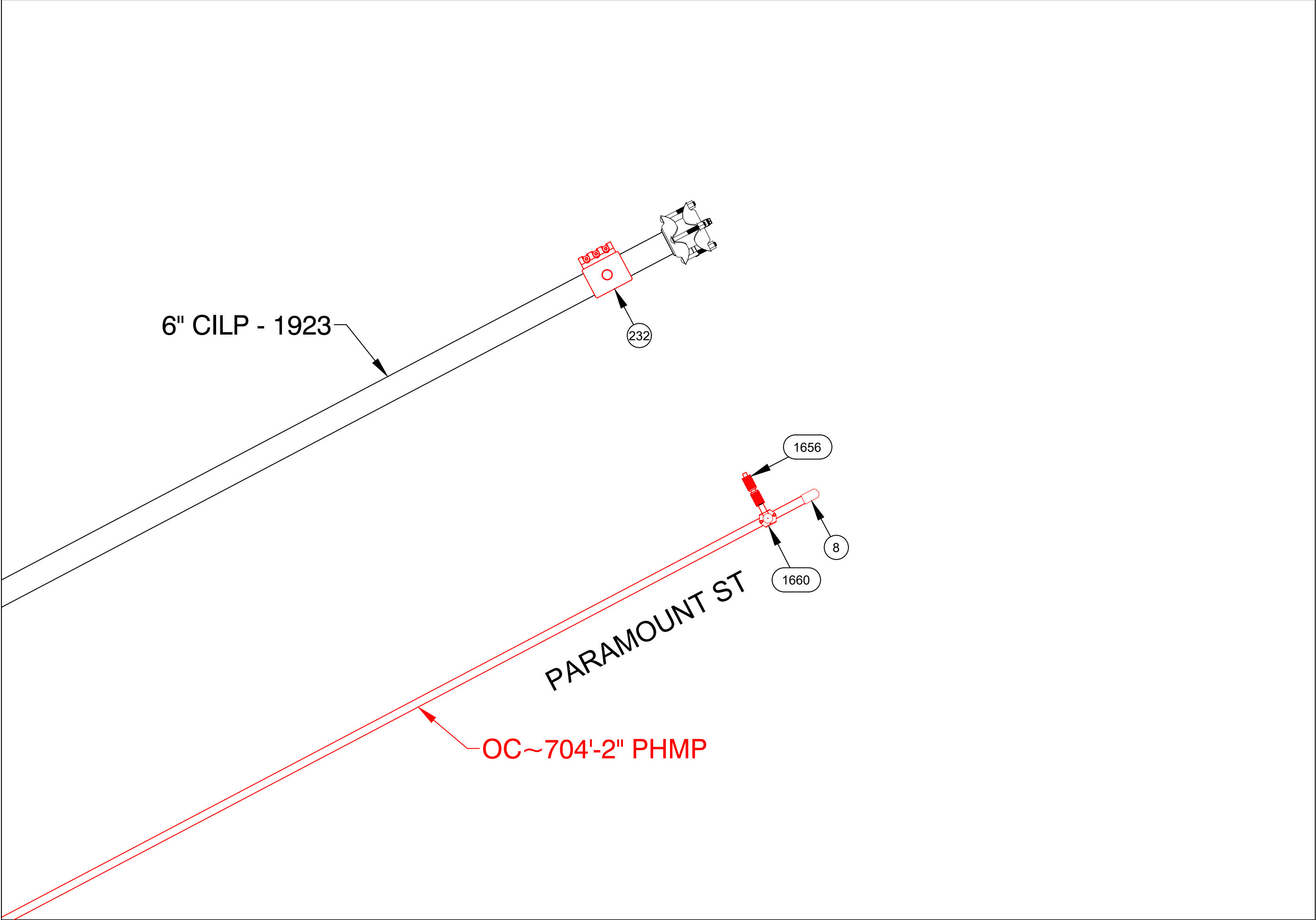
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0	ISSUED FOR CONSTRUCTION	7/17/24	KMQ/AM
No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
PARAMOUNT ST, INDIAN ORCHARD, MA			
PROJECT # 25EG011 / WORK ORDER # 16660732			
PREPARATORY AND FINAL TIE-IN DETAILS			
SCALE: 1"=40' ON 22"X34"		SHEET 09 OF 27	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
TJ 05/16/2024	KMQ 05/20/2024	MA-SPR-PIP-25-009-09	0

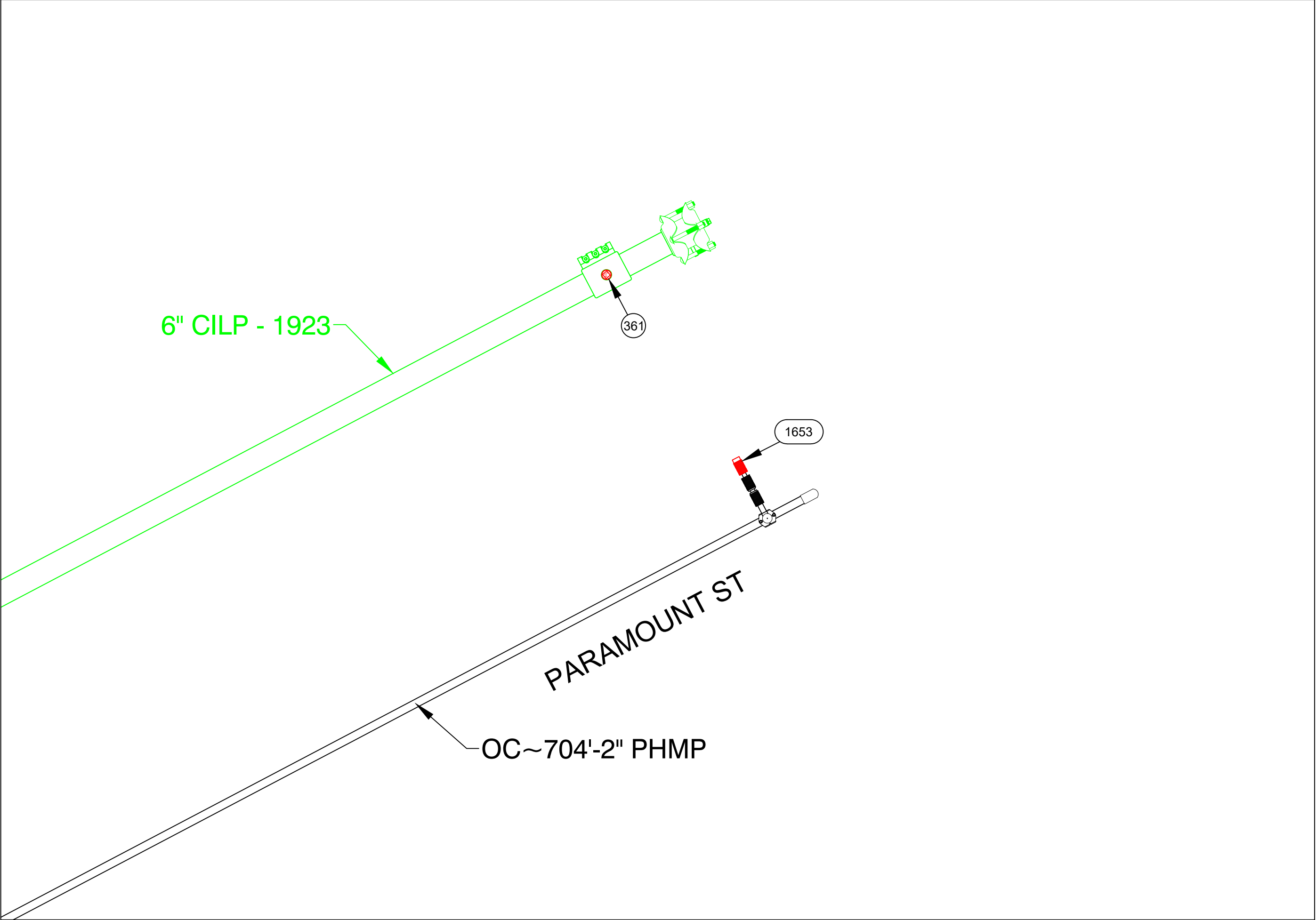


PARAMOUNT ST, INDIAN ORCHARD, MA				DETAIL "B" PREPARATORY	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
1656	MCIUREMA-000	620089	FITTING,COUPLING, PIPE, LYCOFIT, 1 IN IPS SDR11, PLASTIC	1	EA
1660	MCIUREMA-000	602892	FITTING,TEE, 2 IN IPS X 1 IN IPS, ELECTROFUSION, HDPE, WITH BUTT FUSION OUTLET, HDPE, BLACK, ASTM F1055	1	EA
232	63462159	578022	FITTING,CLAMP, SERVI-SEAL REPAIR, 6 IN DIA, 9 IN LG, W/ 2 IN OUTLET, FOR CAST IRON PIPE	1	EA
8	63078024	542572	CAP,PIPE, 2 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100	1	EA



PREPARATORY TIE-IN DETAIL B
NOT TO SCALE

PARAMOUNT ST, INDIAN ORCHARD, MA				DETAIL "B" FINAL	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
1653	MCJUREMA-000	620808	FITTING,CAP, LYCOFIT, 1 IN IPS SDR 11, PLASTIC, ASTM F1924	1	EA
361	19080340	554878	PLUG,PIPE, SQUARE HEAD, SOLID, 2 IN, THREADED END, BLACK IRON, ANSI B1.20.1	1	EA



FINAL TIE-IN DETAIL B
NOT TO SCALE

ISSUED FOR
CONSTRUCTION



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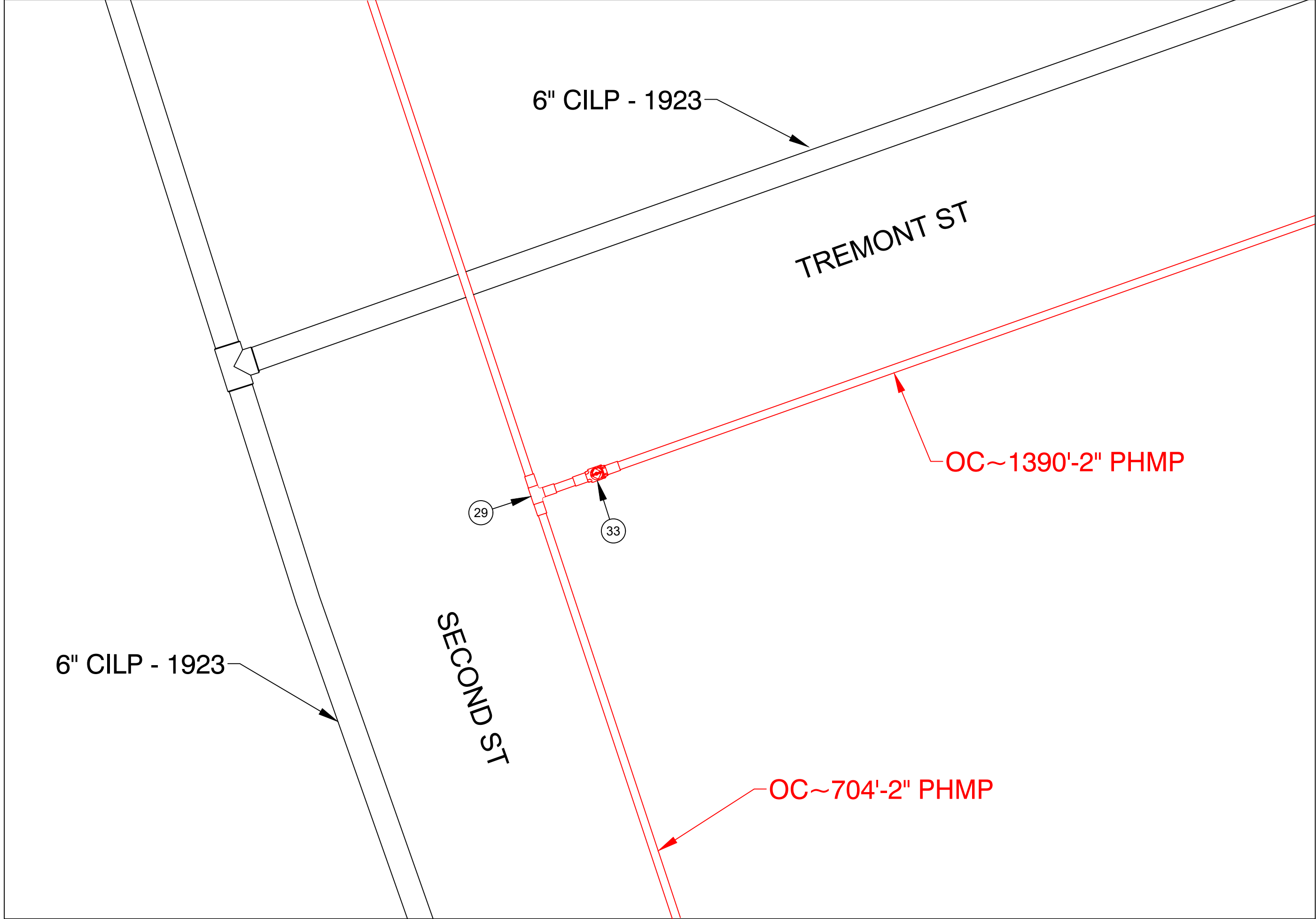


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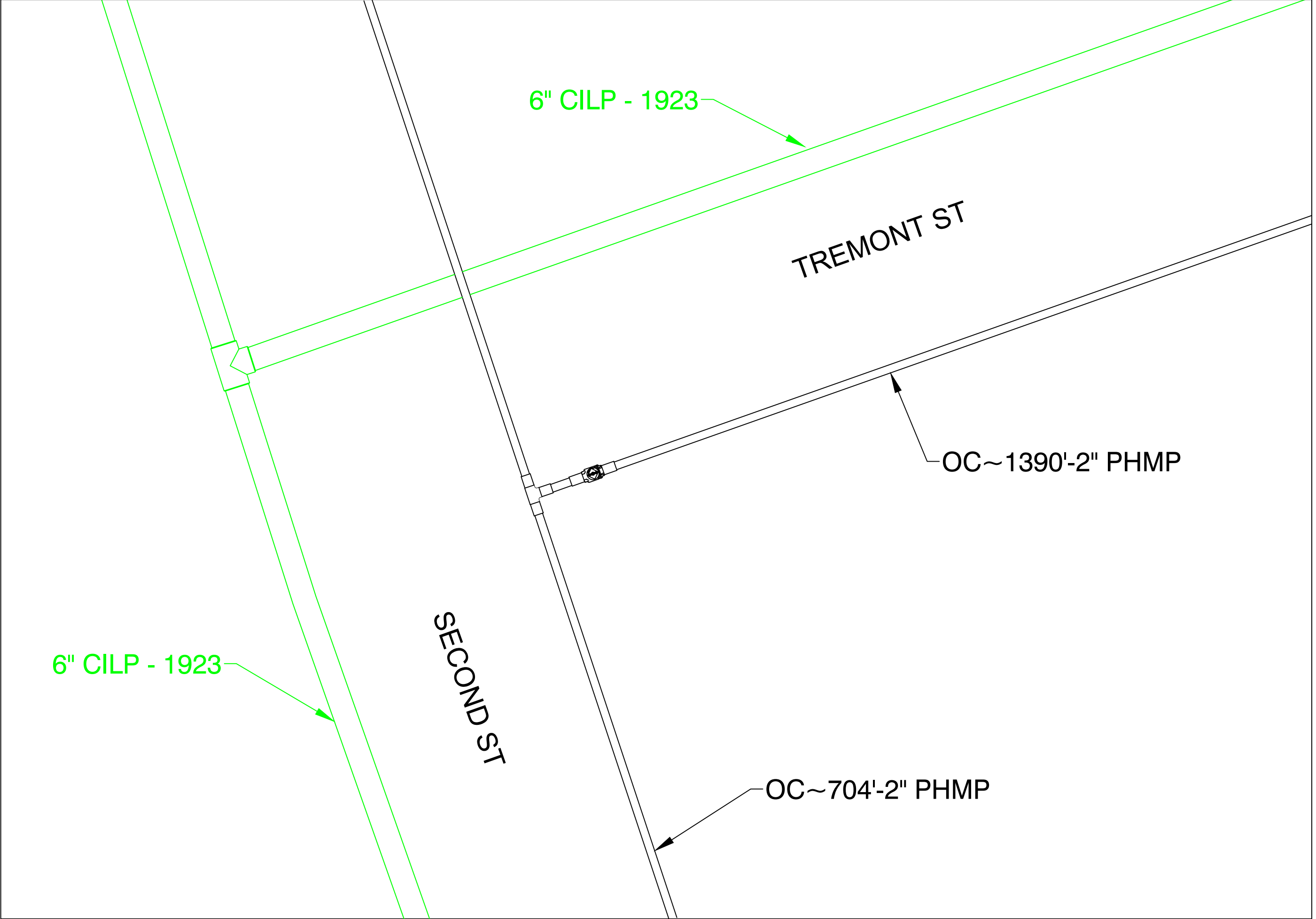
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No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
PARAMOUNT ST, INDIAN ORCHARD, MA			
PROJECT # 25EG011 / WORK ORDER # 16660732			
PREPARATORY AND FINAL TIE-IN DETAILS			
SCALE: 1"=40' ON 22"X34"		SHEET 10 OF 27	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
TJ 05/16/2024	KMQ 05/20/2024	MA-SPR-PIP-25-009-10	0



PARAMOUNT ST, INDIAN ORCHARD, MA				DETAIL "C" PREPARATORY	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
29	63078441	560705	TEE,PIPE, 2 IN IPS SDR 11, BUTT ENDS, POLYETHYLENE, P100	1	EA
33	14281726	562087	VALVE,BALL, 2 IN IPS, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING	1	EA



PREPARATORY TIE-IN DETAIL C
NOT TO SCALE



FINAL TIE-IN DETAIL C
NOT TO SCALE

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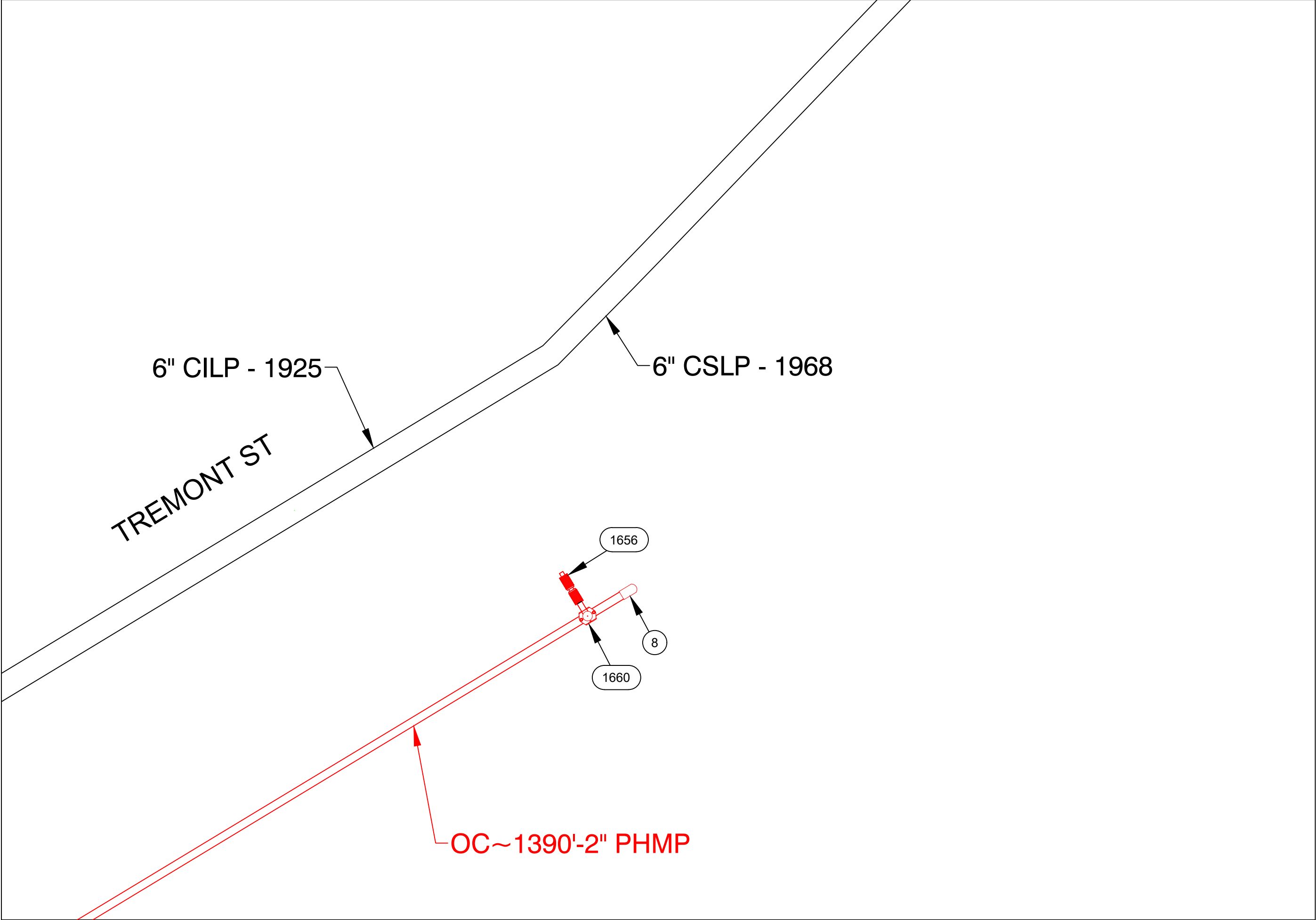
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No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
PARAMOUNT ST, INDIAN ORCHARD, MA			
PROJECT # 25EG011 / WORK ORDER # 16660732			
PREPARATORY AND FINAL TIE-IN DETAILS			
SCALE: 1"=40' ON 22"X34"		SHEET 11 OF 27	
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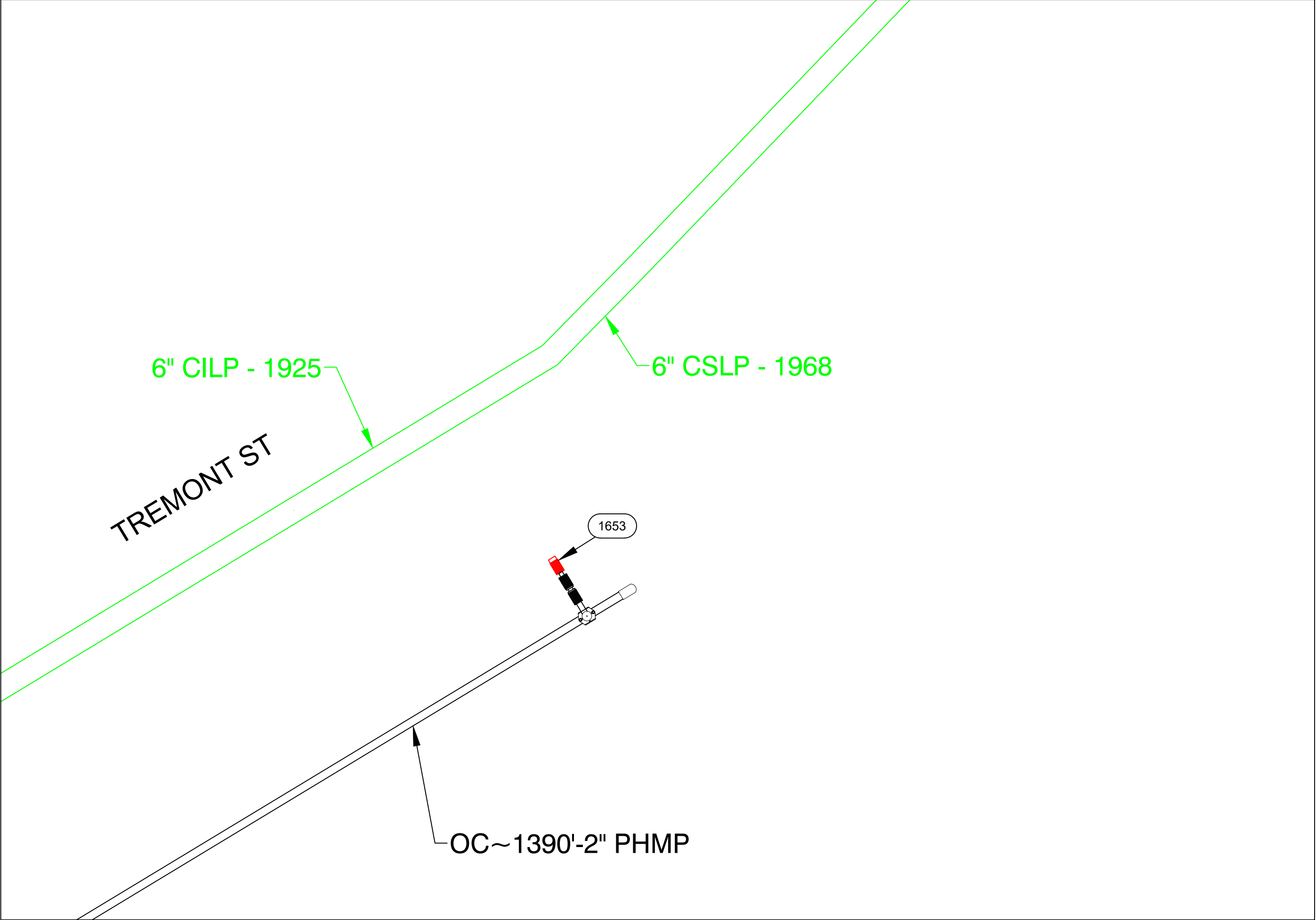


PARAMOUNT ST, INDIAN ORCHARD, MA				DETAIL "D" PREPARATORY	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
1656	MCJUREMA-000	620089	FITTING,COUPLING, PIPE, LYCOFIT, 1 IN IPS SDR11, PLASTIC	1	EA
1660	MCJUREMA-000	602892	FITTING,TEE, 2 IN IPS X 1 IN IPS, ELECTROFUSION, HDPE, WITH BUTT FUSION OUTLET, HDPE, BLACK, ASTM F1055	1	EA
8	63078024	542572	CAP,PIPE, 2 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100	1	EA



PREPARATORY TIE-IN DETAIL D
NOT TO SCALE

PARAMOUNT ST, INDIAN ORCHARD, MA				DETAIL "D" FINAL	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
1653	MCJUREMA-000	620808	FITTING,CAP, LYCOFIT, 1 IN IPS SDR 11, PLASTIC, ASTM F1924	1	EA



FINAL TIE-IN DETAIL D
NOT TO SCALE

ISSUED FOR
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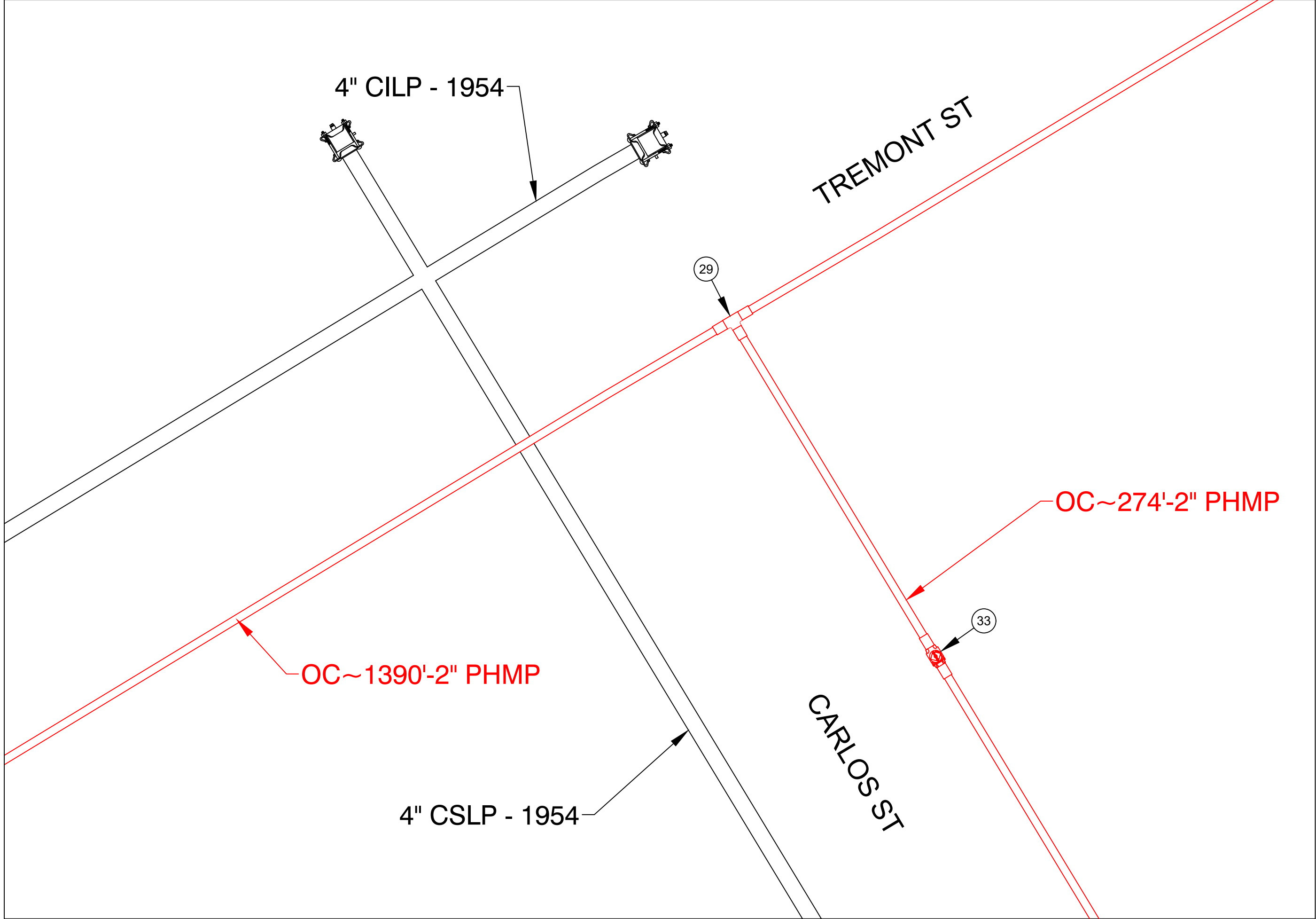


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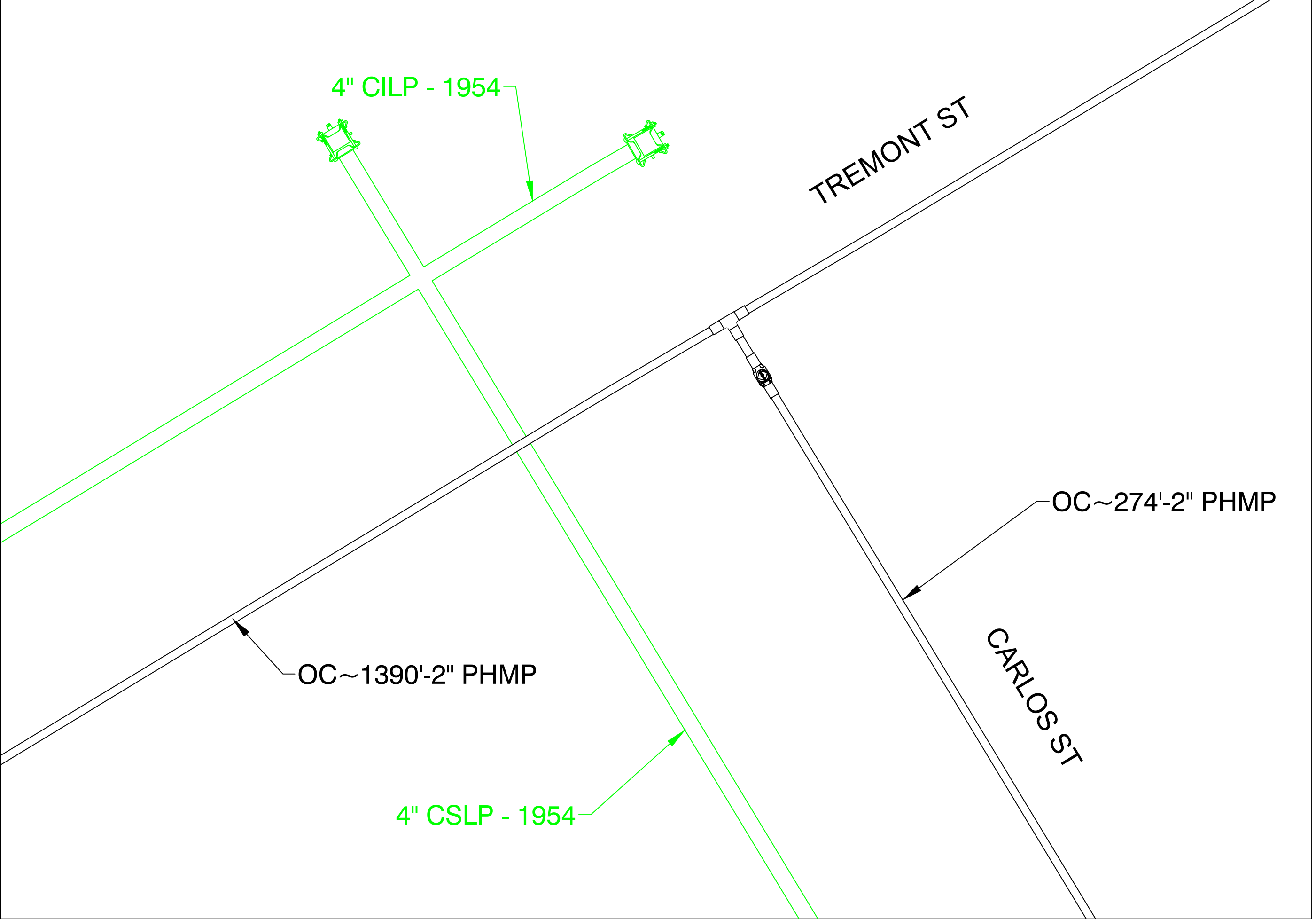
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No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
PARAMOUNT ST, INDIAN ORCHARD, MA			
PROJECT # 25EG011 / WORK ORDER # 16660732			
PREPARATORY AND FINAL TIE-IN DETAILS			
SCALE: 1"=40' ON 22"X34"		SHEET 12 OF 27	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
TJ 05/16/2024	KMQ 05/20/2024	MA-SPR-PIP-25-009-12	0



PARAMOUNT ST, INDIAN ORCHARD, MA				DETAIL "E" PREPARATORY	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
29	63078441	560705	TEE,PIPE, 2 IN IPS SDR 11, BUTT ENDS, POLYETHYLENE, P100	1	EA
33	14281726	562087	VALVE,BALL, 2 IN IPS, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING	1	EA



PREPARATORY TIE-IN DETAIL E
NOT TO SCALE



FINAL TIE-IN DETAIL E
NOT TO SCALE

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CONSTRUCTION



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No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
PARAMOUNT ST, INDIAN ORCHARD, MA			
PROJECT # 25EG011 / WORK ORDER # 16660732			
PREPARATORY AND FINAL TIE-IN DETAILS			
SCALE: 1"=40' ON 22"X34"		SHEET 13 OF 27	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
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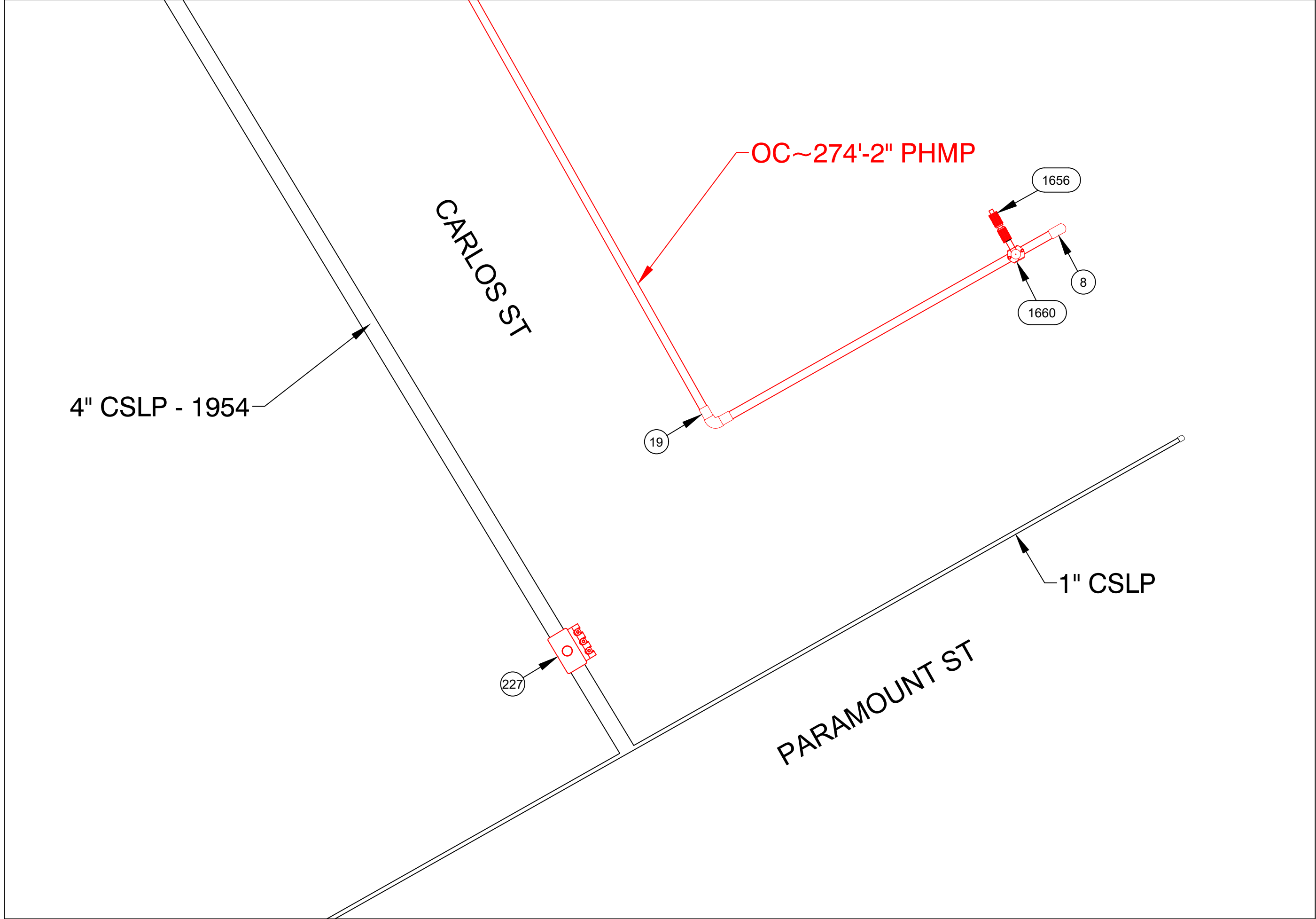
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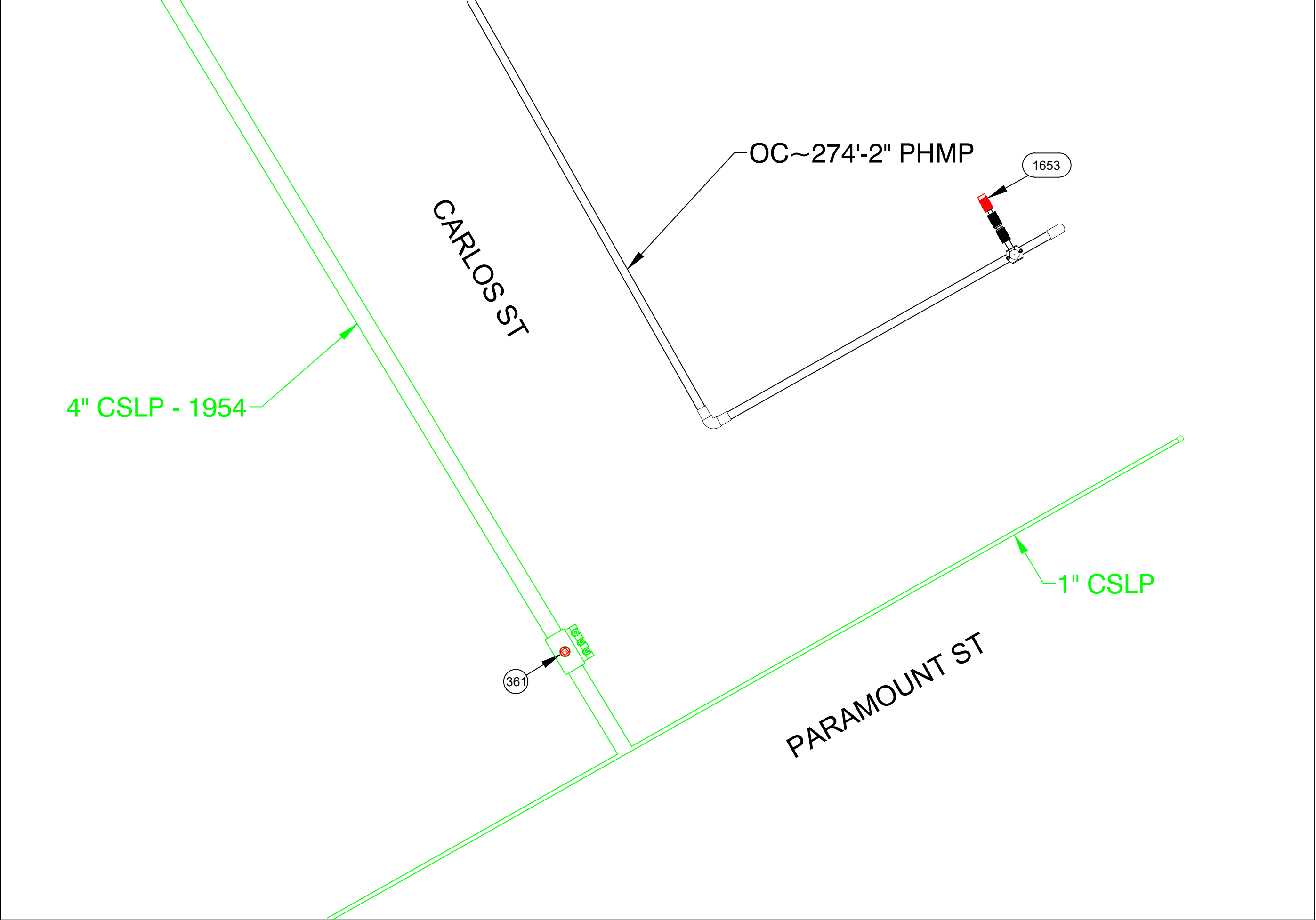


PARAMOUNT ST, INDIAN ORCHARD, MA				DETAIL "F" PREPARATORY	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
1656	MCJUREMA-000	620089	FITTING, COUPLING, PIPE, LYCOFIT, 1 IN IPS SDR11, PLASTIC	1	EA
1660	MCJUREMA-000	602892	FITTING, TEE, 2 IN IPS X 1 IN IPS, ELECTROFUSION, HDPE, WITH BUTT FUSION OUTLET, HDPE, BLACK, ASTM F1055	1	EA
19	63078117	545367	ELBOW, PIPE, 90 DEG, 2 IN SDR 11, BUTT WELD ENDS, POLYETHYLENE, P100	1	EA
227	63462111	578019	FITTING, CLAMP, SERVI-SEAL REPAIR, 4 IN DIA, 9 IN LG, W/ 2 IN OUTLET, FOR STEEL PIPE	1	EA
8	63078024	542572	CAP, PIPE, 2 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100	1	EA



PREPARATORY TIE-IN DETAIL F
NOT TO SCALE

PARAMOUNT ST, INDIAN ORCHARD, MA				DETAIL "F" FINAL	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
1653	MCJUREMA-000	620808	FITTING,CAP, LYCOFIT, 1 IN IPS SDR 11, PLASTIC, ASTM F1924	1	EA
361	19080340	554878	PLUG,PIPE, SQUARE HEAD, SOLID, 2 IN, THREADED END, BLACK IRON, ANSI B1.20.1	1	EA



FINAL TIE-IN DETAIL F
NOT TO SCALE

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No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
PARAMOUNT ST, INDIAN ORCHARD, MA			
PROJECT # 25EG011 / WORK ORDER # 16660732			
PREPARATORY AND FINAL TIE-IN DETAILS			
SCALE: 1"=40' ON 22"X34"		SHEET 14 OF 27	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
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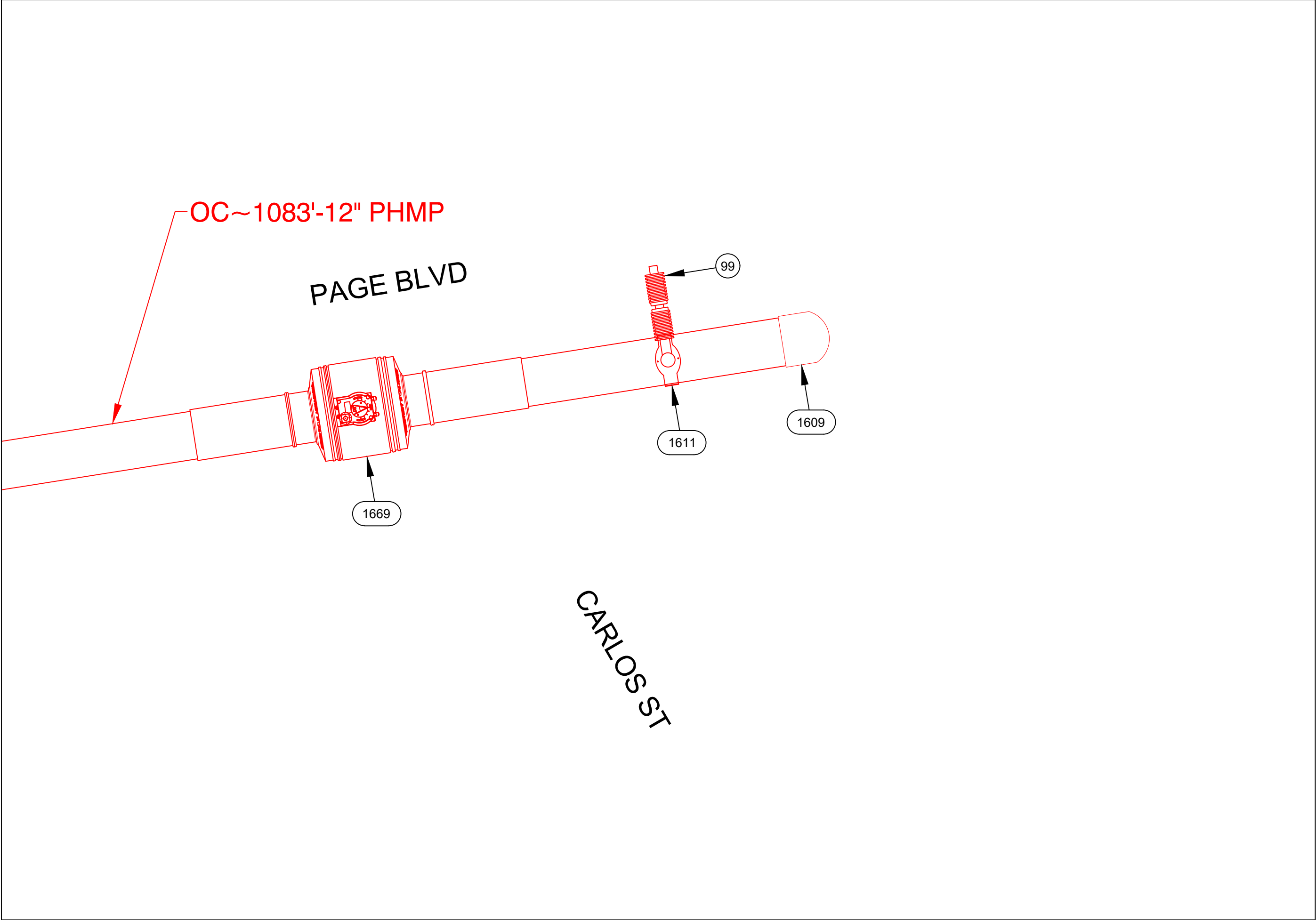
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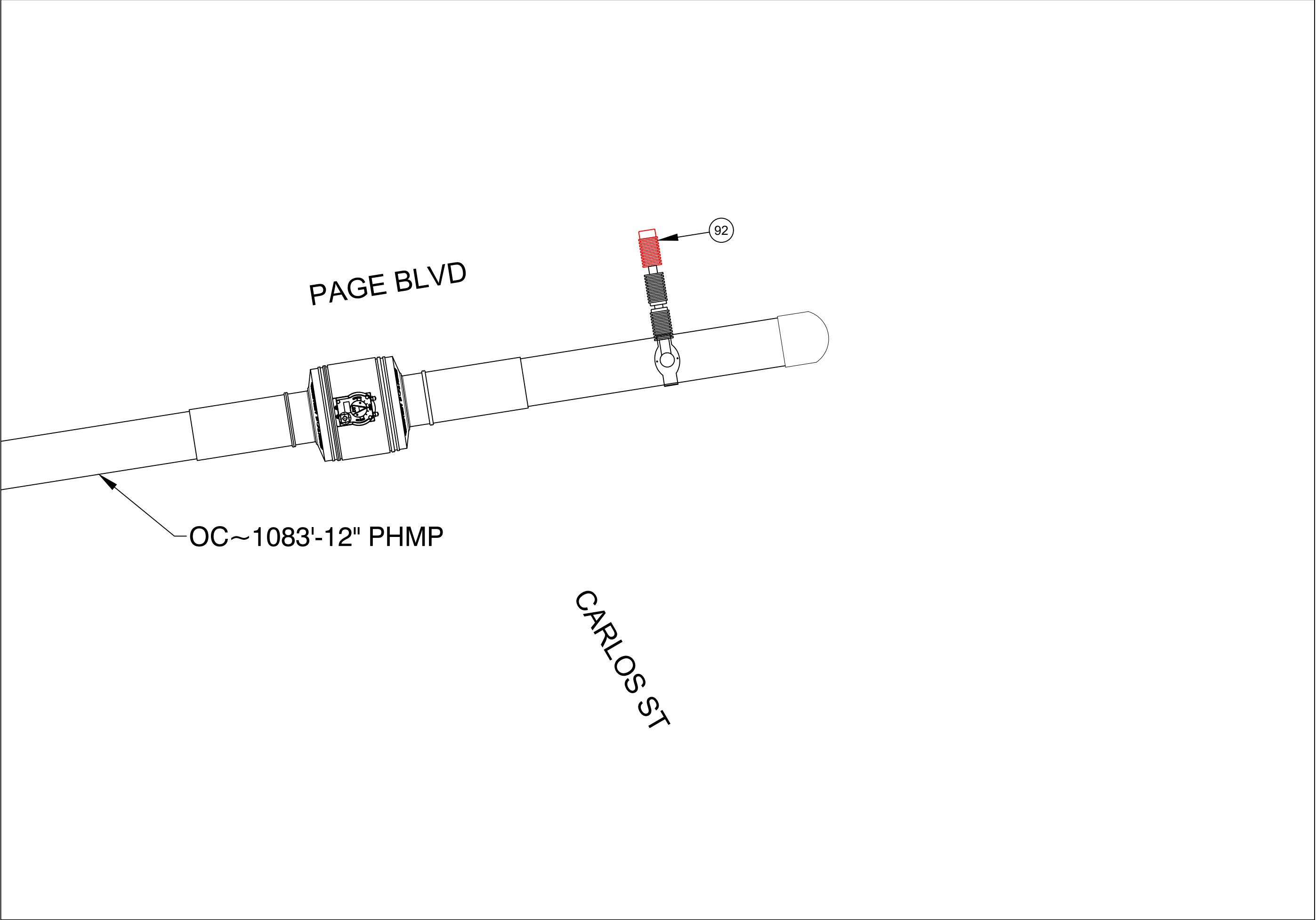


PARAMOUNT ST, INDIAN ORCHARD, MA				DETAIL "G" PREPARATORY	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
1609	10004163	581044	FITTING,CAP, 12 IN IPS SDR 11, BUTT FUSION END, HDPE, BLACK	1	EA
1611	360000998	500859	FITTING,TEE, 12 IN IPS X 2 IN IPS, HIGH VOLUME ELECTROFUSION TAPPING TEE WITH BUTT FUSION OUTLET, HDPE, BLACK, ASTM F1055, GFCP	1	EA
1669	99179311	562254	VALVE,BALL, 12 IN, POLYETHYLENE, SDR 11, P100/PE4710, BUTT WELD, W/ FULL PORT OPENING, BLACK FINISH, KEROTEST, GEAR OPERATED	1	EA
99	63424109	610772	FITTING,COUPLING, REPAIR, LYCOFIT, 2 IN IPS, PLASTIC, SDR 11, CMA 21658101	1	EA



PREPARATORY TIE-IN DETAIL G
NOT TO SCALE

PARAMOUNT ST, INDIAN ORCHARD, MA				DETAIL "G" FINAL	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
92	63424023	610763	FITTING,CAP, END, LYCOFIT, 2 IN IPS X 0.121 IN THK WALL instead of 2 IN CTS X 0.121 IN THK WALL, PLASTIC, SDR 11, CMA 750830	1	EA



FINAL TIE-IN DETAIL G
NOT TO SCALE

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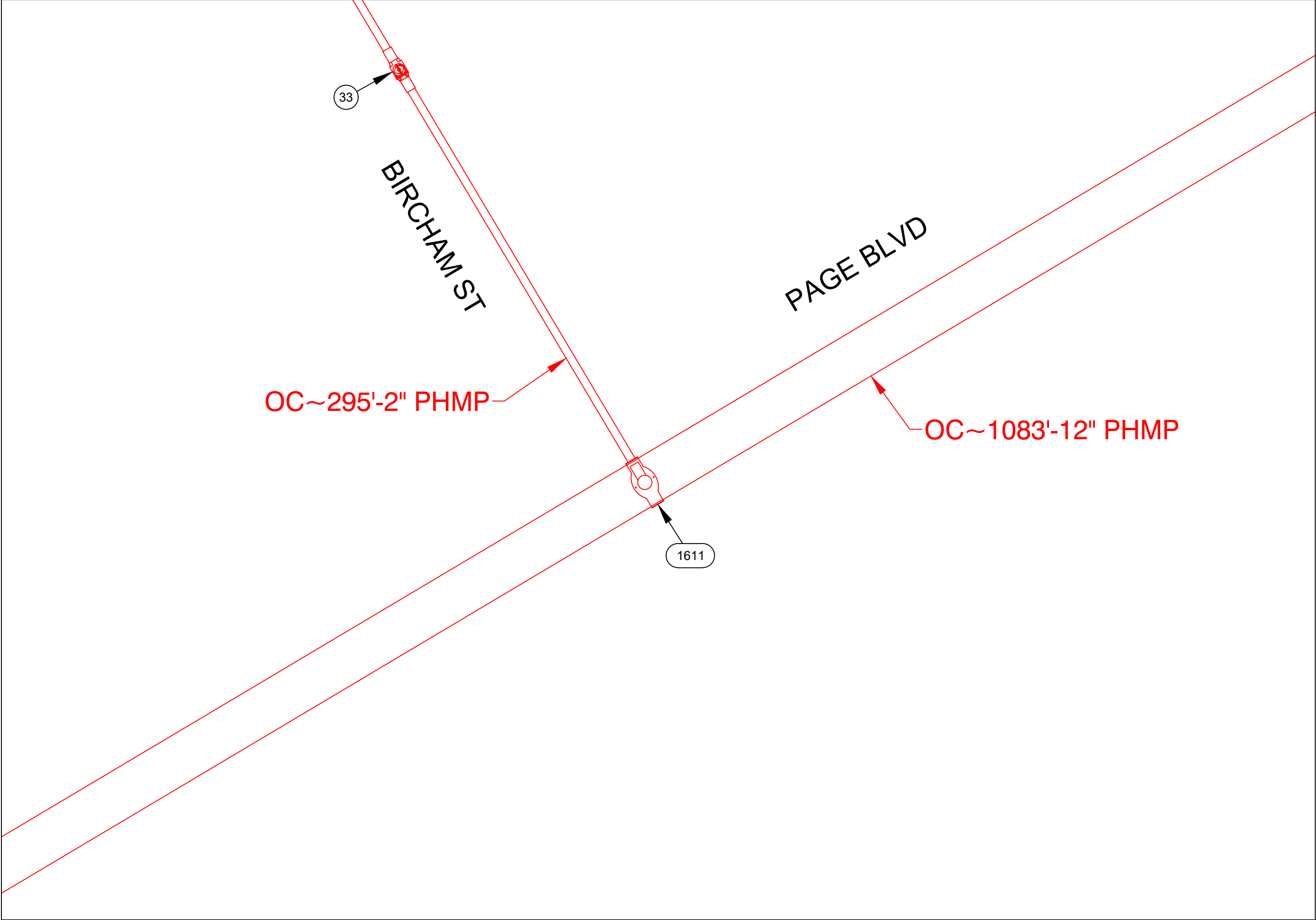
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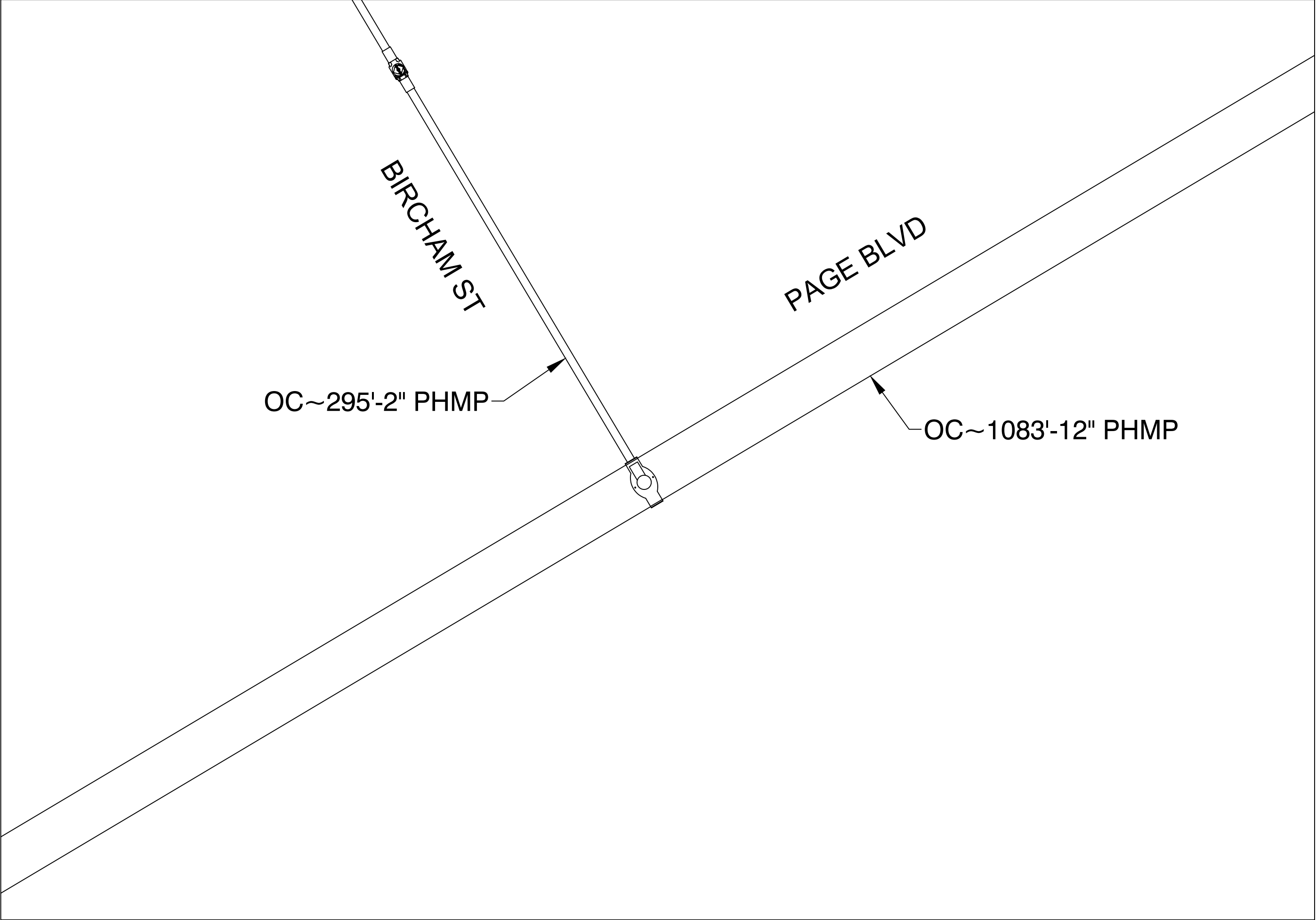
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No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
PARAMOUNT ST, INDIAN ORCHARD, MA			
PROJECT # 25EG011 / WORK ORDER # 16660732			
PREPARATORY AND FINAL TIE-IN DETAILS			
SCALE:1"=40' ON 22"X34"		SHEET 15 OF 27	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
TJ 05/16/2024	KMQ 05/20/2024	MA-SPR-PIP-25-009-15	0



PARAMOUNT ST, INDIAN ORCHARD, MA				DETAIL "H" PREPARATORY	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
1611	360000998	500859	FITTING,TEE, 12 IN IPS X 2 IN IPS, HIGH VOLUME ELECTROFUSION TAPPING TEE WITH BUTT FUSION OUTLET, HDPE, BLACK, ASTM F1055, GFCP	1	EA
33	14281726	562087	VALVE,BALL, 2 IN IPS, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING	1	EA



PREPARATORY TIE-IN DETAIL H
NOT TO SCALE



FINAL TIE-IN DETAIL H
NOT TO SCALE

ISSUED FOR
CONSTRUCTION



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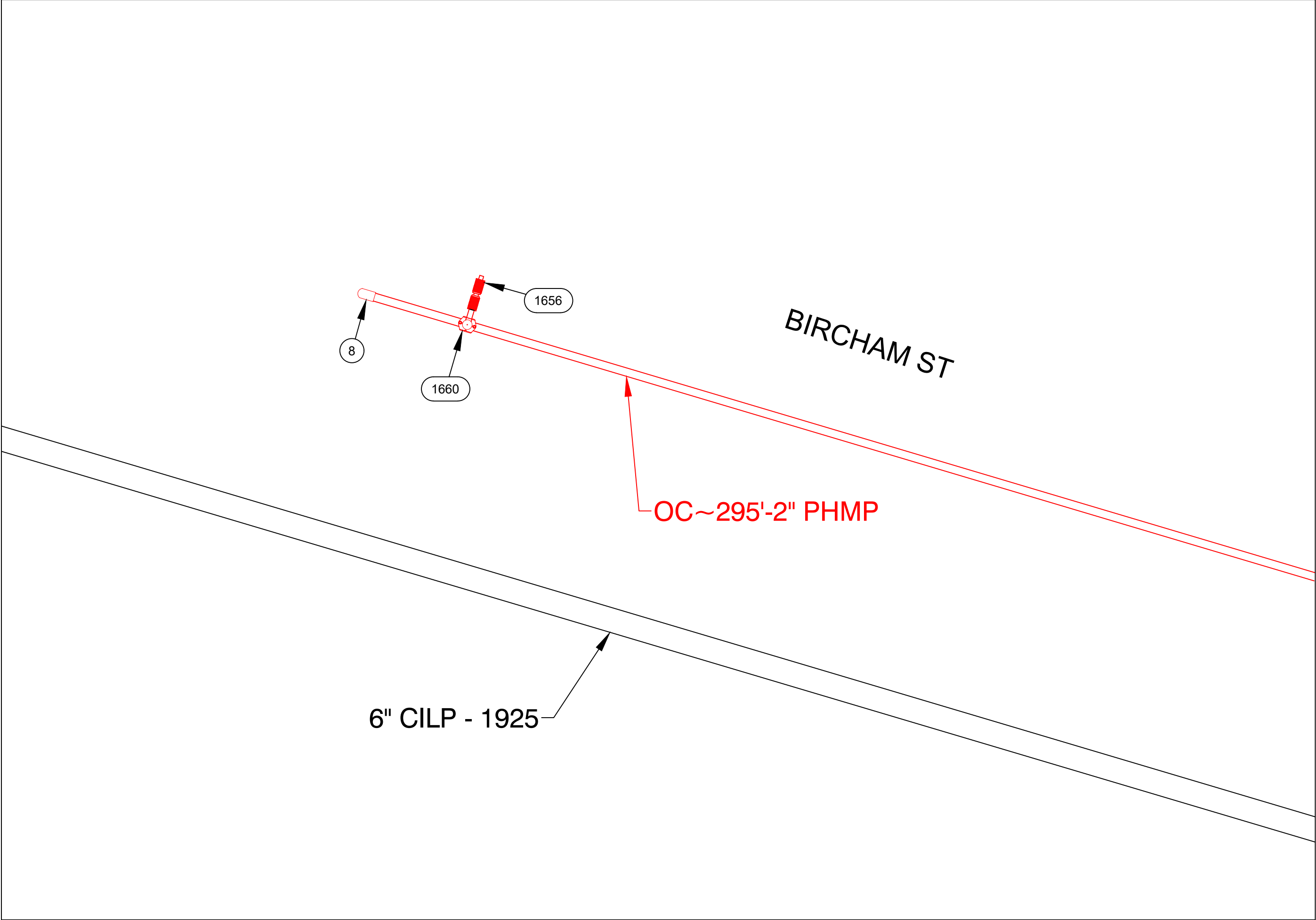


FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

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No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
PARAMOUNT ST, INDIAN ORCHARD, MA			
PROJECT # 25EG011 / WORK ORDER # 16660732			
PREPARATORY AND FINAL TIE-IN DETAILS			
SCALE: 1"=40' ON 22"X34"		SHEET 16 OF 27	
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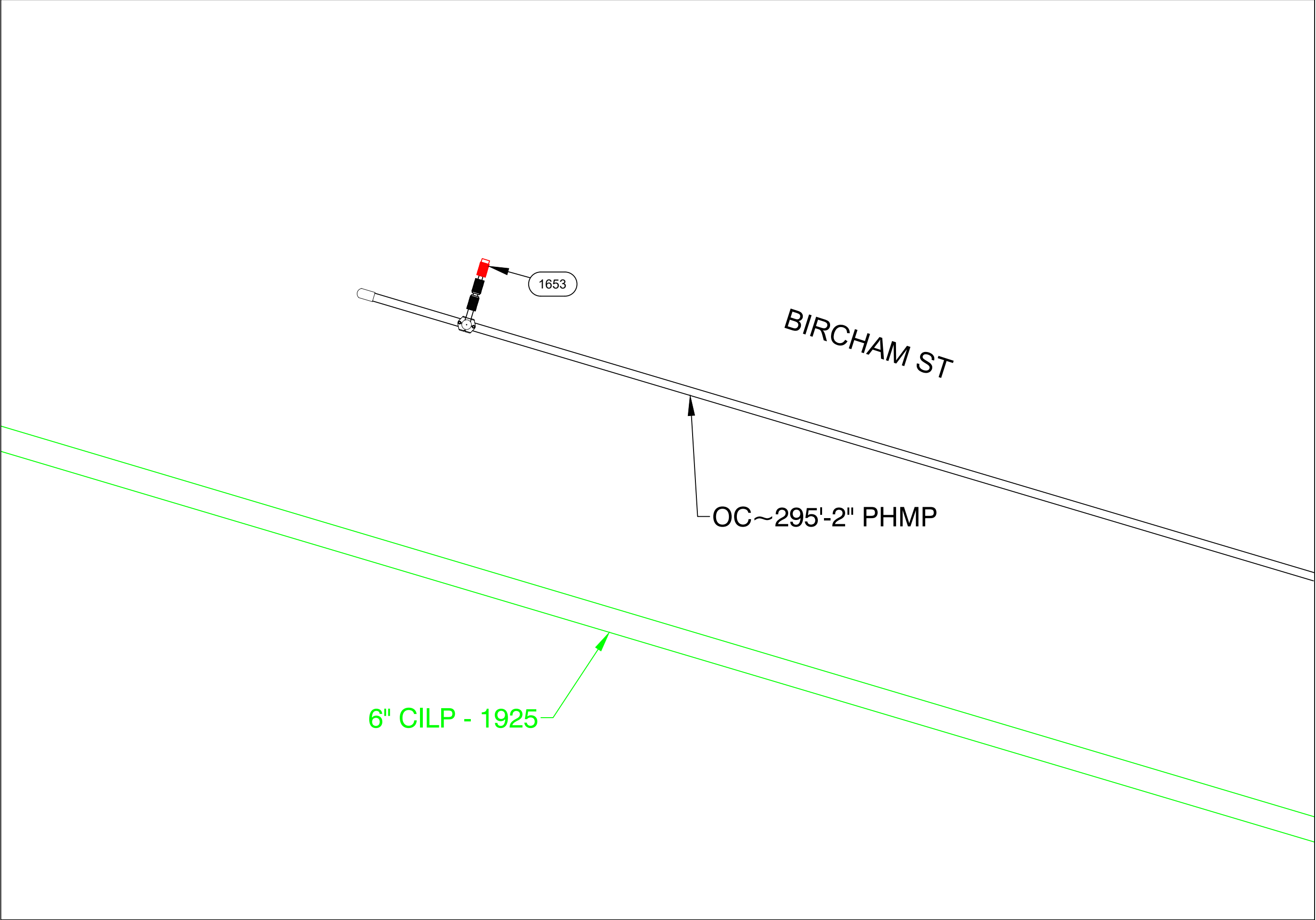


PARAMOUNT ST, INDIAN ORCHARD, MA				DETAIL "I" PREPARATORY	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
1656	MCJUREMA-000	620089	FITTING,COUPLING, PIPE, LYCOFIT, 1 IN IPS SDR11, PLASTIC	1	EA
1660	MCJUREMA-000	602892	FITTING,TEE, 2 IN IPS X 1 IN IPS, ELECTROFUSION, HDPE, WITH BUTT FUSION OUTLET, HDPE, BLACK, ASTM F1055	1	EA
8	63078024	542572	CAP,PIPE, 2 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100	1	EA



PREPARATORY TIE-IN DETAIL I
NOT TO SCALE

PARAMOUNT ST, INDIAN ORCHARD, MA				DETAIL "I" FINAL	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
1653	MCJUREMA-000	620808	FITTING,CAP, LYCOFIT, 1 IN IPS SDR 11, PLASTIC, ASTM F1924	1	EA



FINAL TIE-IN DETAIL I
NOT TO SCALE

ISSUED FOR
CONSTRUCTION



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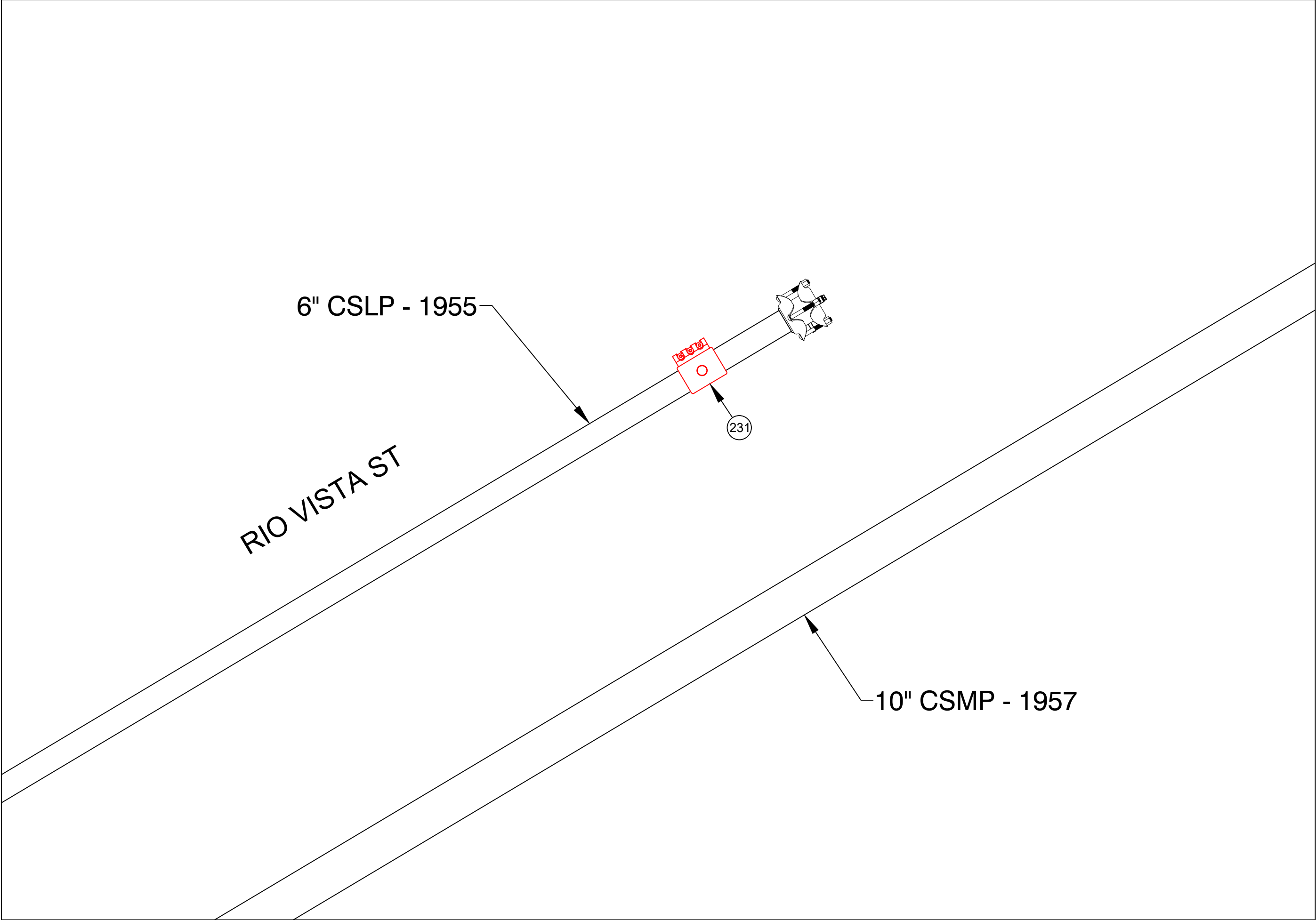
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0	ISSUED FOR CONSTRUCTION	7/17/24	KMQ/AM
No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
PARAMOUNT ST, INDIAN ORCHARD, MA			
PROJECT # 25EG011 / WORK ORDER # 16660732			
PREPARATORY AND FINAL TIE-IN DETAILS			
SCALE: 1"=40' ON 22"X34"		SHEET 17 OF 27	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
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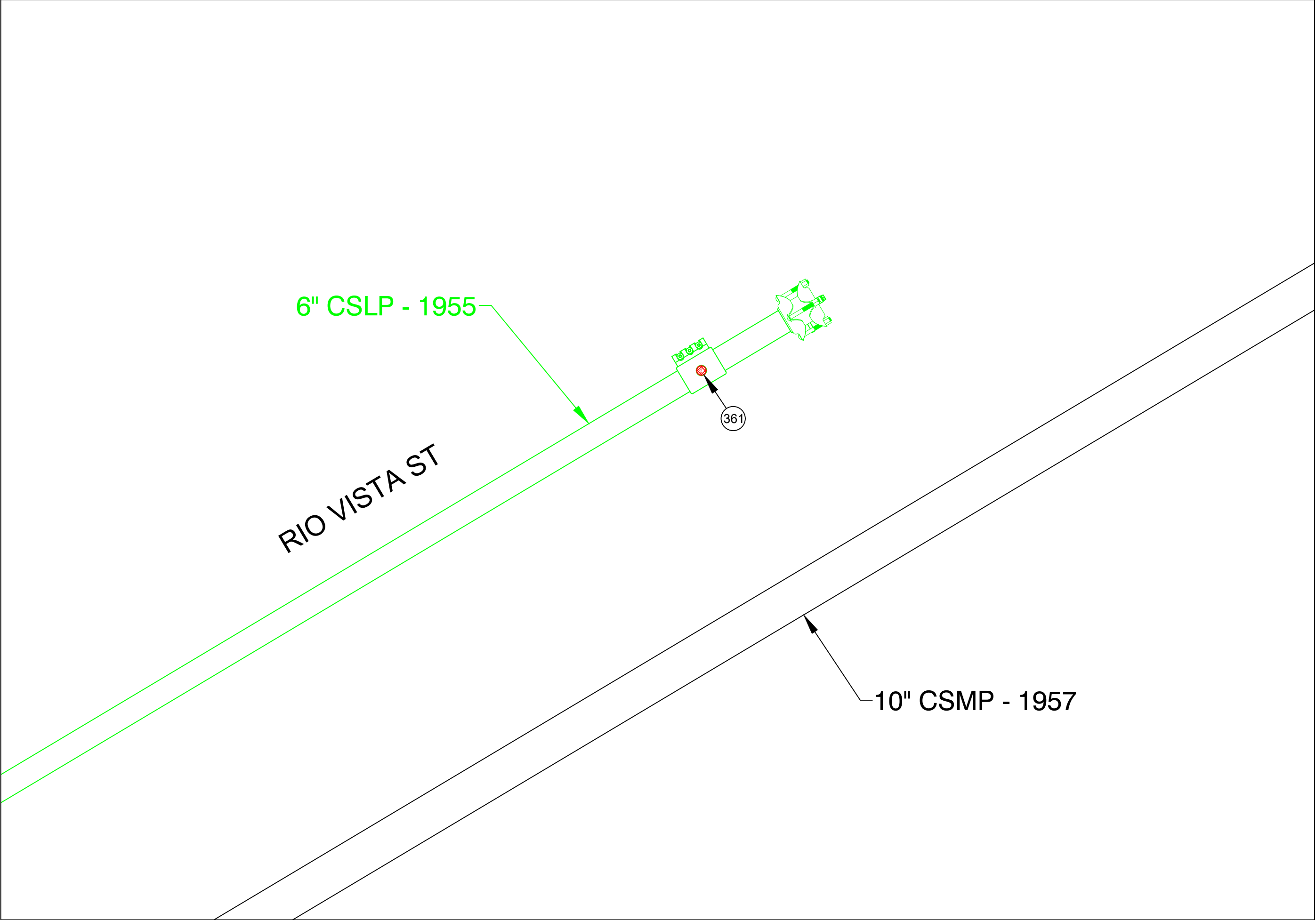


PARAMOUNT ST, INDIAN ORCHARD, MA				DETAIL "K" PREPARATORY	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
231	63462157	578003 / 543029	6 X 9 X 2 OUT MUELLER 509-09-0655 100# 1 SECT REPAIR CLAMP GRID TAPR'D END GSK	1	EA



PREPARATORY TIE-IN DETAIL K
NOT TO SCALE

PARAMOUNT ST, INDIAN ORCHARD, MA				DETAIL "K" FINAL	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
361	19080340	554878	PLUG,PIPE, SQUARE HEAD, SOLID, 2 IN, THREADED END, BLACK IRON, ANSI B1.20.1	1	EA



FINAL TIE-IN DETAIL K
NOT TO SCALE

ISSUED FOR
CONSTRUCTION



Daniel D'Elitto
DANIEL D'ELETTO, P.E.
2024.07.17
13:57:08-04'00'



215 GREENFIELD PKY | Suite 102 | LIVERPOOL, NY 13088



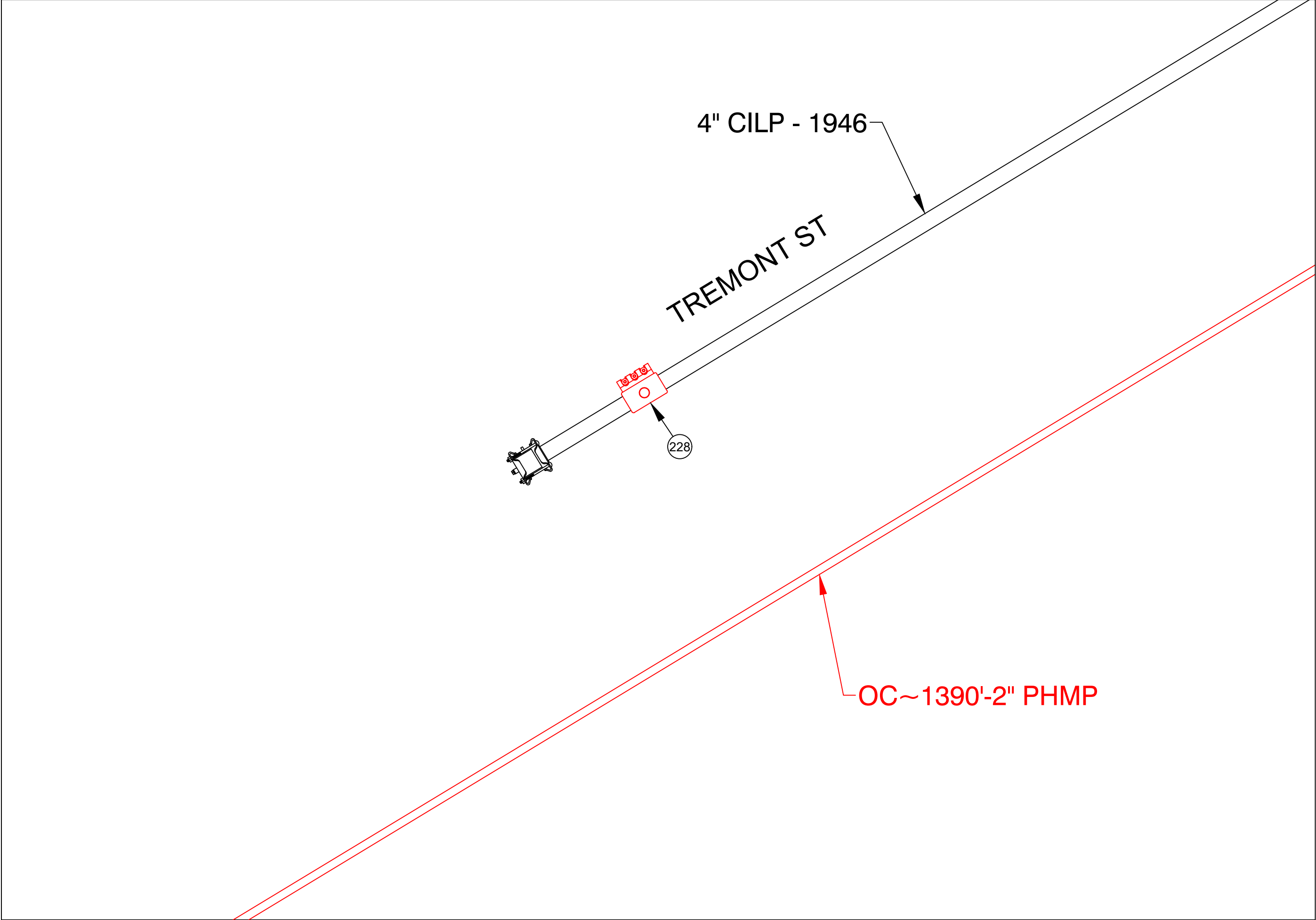
Know what's below.
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FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

0	ISSUED FOR CONSTRUCTION	7/17/24	KMQ/AM
No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
PARAMOUNT ST, INDIAN ORCHARD, MA			
PROJECT # 25EG011 / WORK ORDER # 16660732			
PREPARATORY AND FINAL TIE-IN DETAILS			
SCALE: 1"=40' ON 22"X34"		SHEET 18 OF 27	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
TJ 05/16/2024	KMQ 05/20/2024	MA-SPR-PIP-25-009-18	0

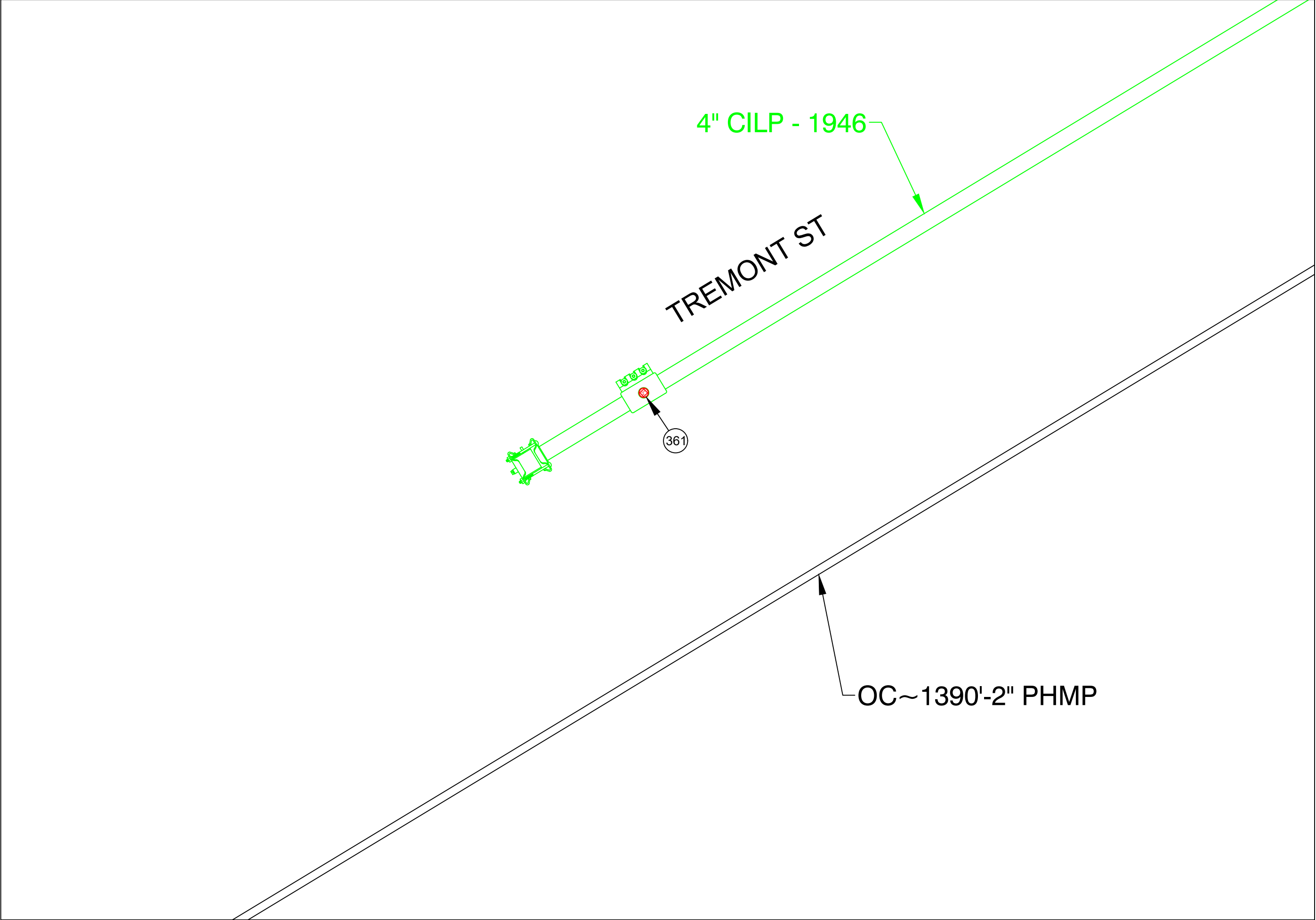


PARAMOUNT ST, INDIAN ORCHARD, MA				DETAIL "L" PREPARATORY	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
228	63462113	578020	FITTING,CLAMP, SERVI-SEAL REPAIR, 4 IN DIA, 9 IN LG, W/ 2 IN OUTLET, FOR CAST IRON PIPE	1	EA



PREPARATORY TIE-IN DETAIL L
NOT TO SCALE

PARAMOUNT ST, INDIAN ORCHARD, MA				DETAIL "L" FINAL	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
361	19080340	554878	PLUG,PIPE, SQUARE HEAD, SOLID, 2 IN, THREADED END, BLACK IRON, ANSI B1.20.1	1	EA



FINAL TIE-IN DETAIL L
NOT TO SCALE

ISSUED FOR
CONSTRUCTION



Daniel D'Elitto
DANIEL D'ELETTO, P.E.
2024.07.17
13:57:08-04'00'



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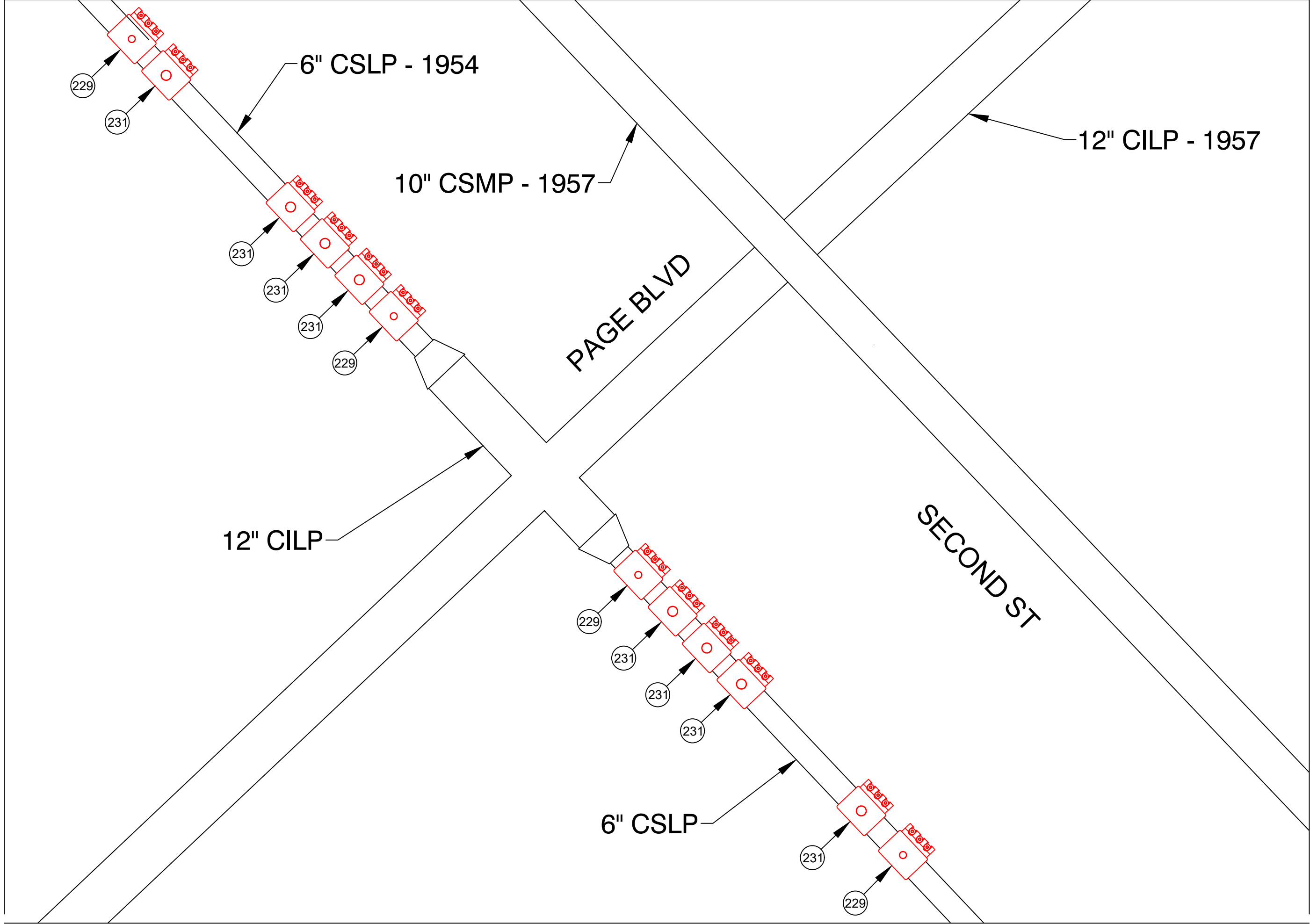


Know what's below.
Call before you dig.

FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

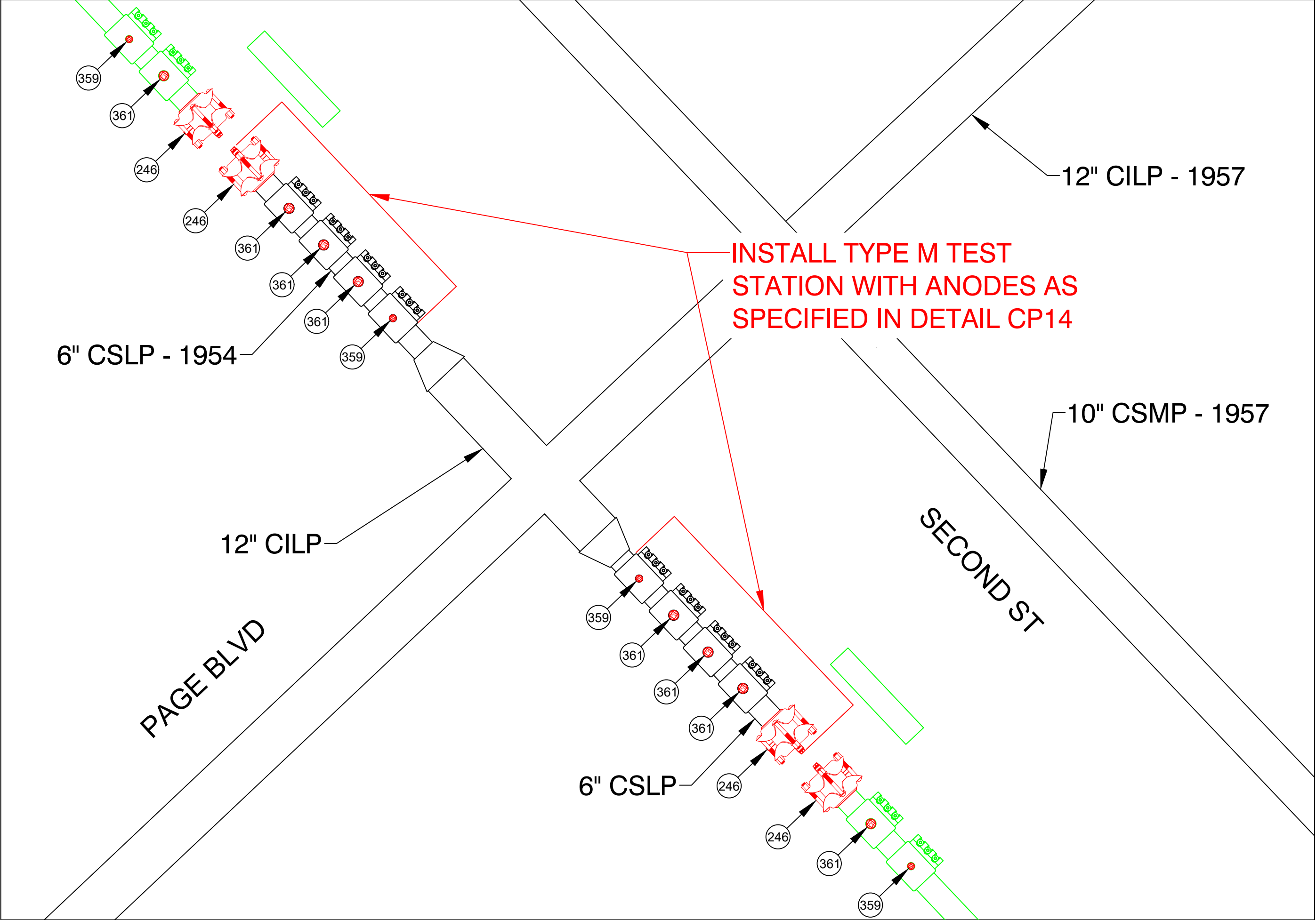
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No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
PARAMOUNT ST, INDIAN ORCHARD, MA			
PROJECT # 25EG011 / WORK ORDER # 16660732			
PREPARATORY AND FINAL TIE-IN DETAILS			
SCALE: 1"=40' ON 22"X34"		SHEET 19 OF 27	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
TJ 05/16/2024	KMQ 05/20/2024	MA-SPR-PIP-25-009-19	0

PARAMOUNT ST, INDIAN ORCHARD, MA			DETAIL "M" PREPARATORY		
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
229	63462245	543029	CLAMP,PIPE, REPAIR, 6 IN IPS, SS, W/1-1/4 IN TAP	4	EA
231	63462157	578003 / 543029	6 X 9 X 2 OUT MUELLER 509-09-0655 100# 1 SECT REPAIR CLAMP GRID TAP'D END GSK	8	EA



PREPARATORY TIE-IN DETAIL M
NOT TO SCALE

PARAMOUNT ST, INDIAN ORCHARD, MA				DETAIL "M" FINAL	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
246	63483200	578185	FITTING, COUPLING, VENTED, INSULATED, 6 IN, W/ END CAP, FOR STEEL PIPE, EZB6VIUMG	4	EA
359	19080285	554877	PLUG, PIPE, SQUARE HEAD, SOLID, 1-1/4 IN, THREADED END, BLACK IRON, ANSI B1.20.1	4	EA
361	19080340	554878	PLUG, PIPE, SQUARE HEAD, SOLID, 2 IN, THREADED END, BLACK IRON, ANSI B1.20.1	8	EA



FINAL TIE-IN DETAIL M
NOT TO SCALE



ISSUED FOR
CONSTRUCTION



Daniel D'Elitto
2024.07.17
13:57:09-04'00"

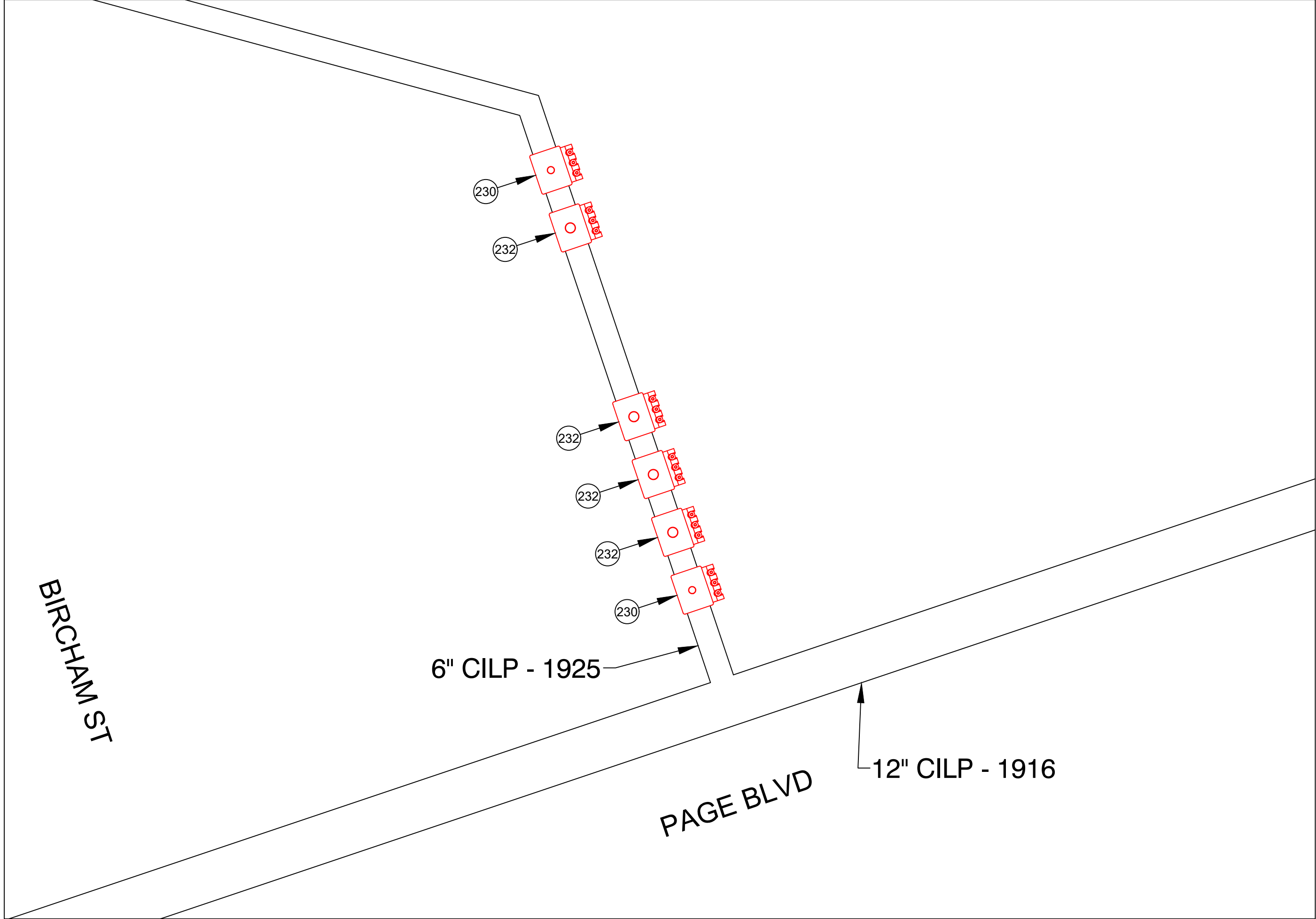


FIELD VERIFY DIMENSIONS
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No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
PARAMOUNT ST, INDIAN ORCHARD, MA			
PROJECT # 25EG011 / WORK ORDER # 16660732			
PREPARATORY AND FINAL TIE-IN DETAILS			
SCALE: 1"=40' ON 22"X34"		SHEET 20 OF 27	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
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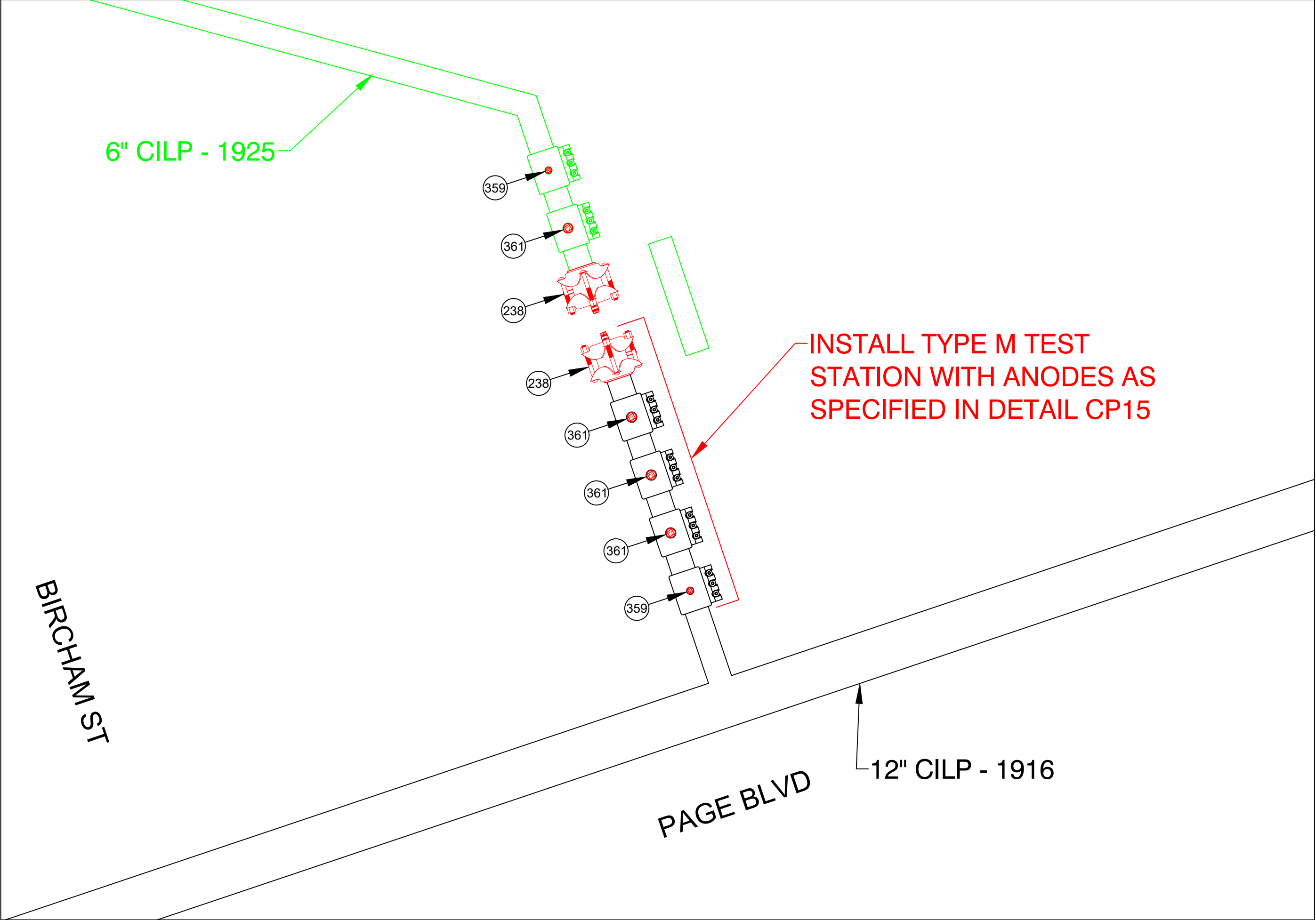


PARAMOUNT ST, INDIAN ORCHARD, MA			DETAIL "N" PREPARATORY		
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
230	63462155	542982	CLAMP,PIPE, REPAIR, 6 IN CIP, SS, W/1-1/4 NPT TAP, FOR 6.84 - 7.24 IN PIPE	2	EA
232	63462159	578022	FITTING,CLAMP, SERVI-SEAL REPAIR, 6 IN DIA, 9 IN LG, W/ 2 IN OUTLET, FOR CAST IRON PIPE	4	EA



PREPARATORY TIE-IN DETAIL N
NOT TO SCALE

PARAMOUNT ST, INDIAN ORCHARD, MA				DETAIL "N" FINAL	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
238	63481013	610399	FITTING,CAP, LINE, INSULATED, 6 IN, 6.90 IN OD, CI, W/ ANODE, FOR CI PIPE, CMA 21128001	2	EA
359	19080285	554877	PLUG,PIPE, SQUARE HEAD, SOLID, 1-1/4 IN, THREADED END, BLACK IRON, ANSI B1.20.1	2	EA
361	19080340	554878	PLUG,PIPE, SQUARE HEAD, SOLID, 2 IN, THREADED END, BLACK IRON, ANSI B1.20.1	4	EA



FINAL TIE-IN DETAIL N
NOT TO SCALE

ISSUED FOR
CONSTRUCTION



Daniel D'Elitto
DANIEL D'ELETTO, P.E. 2024.07.17
13:57:09-04'00'

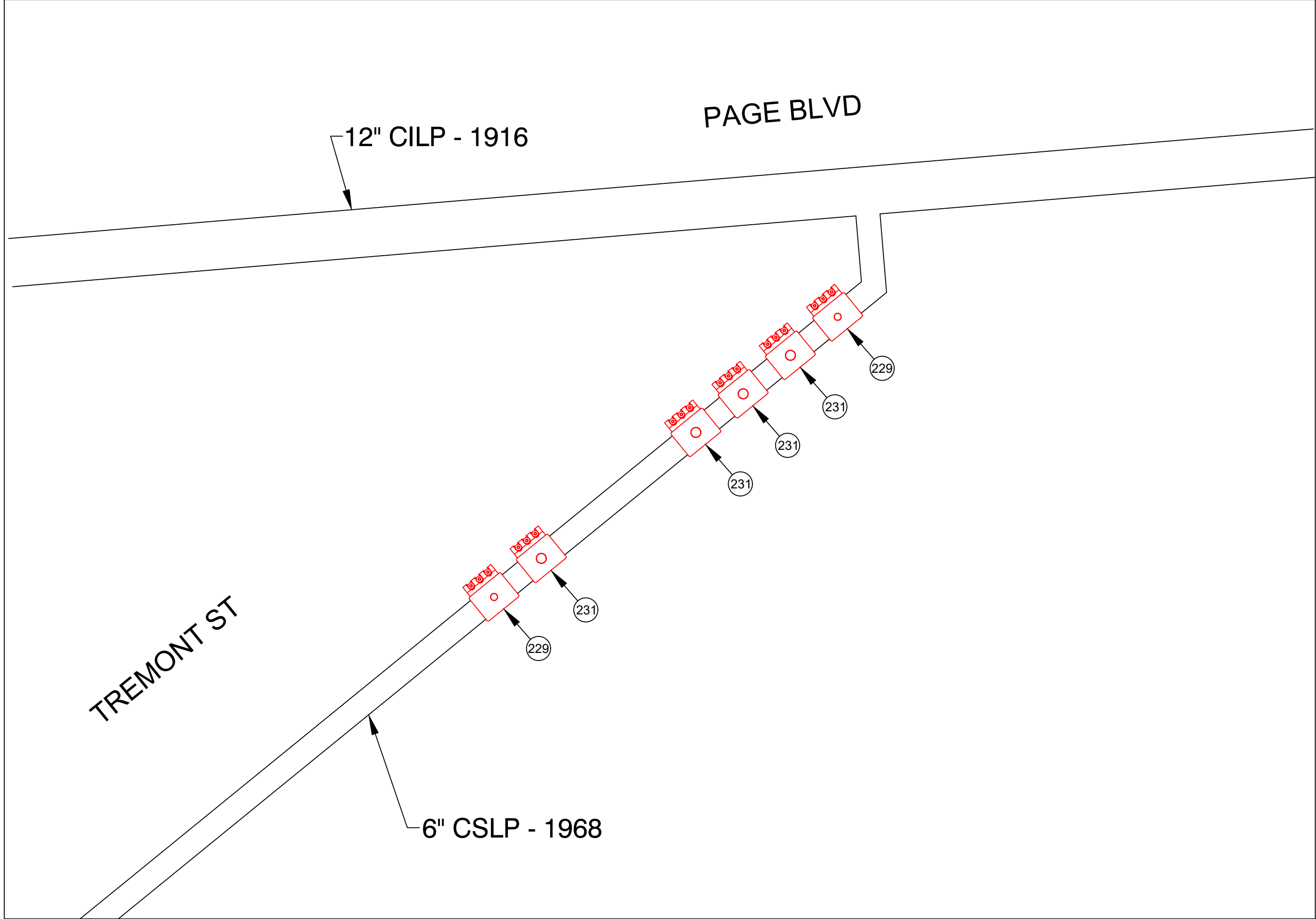


FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

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No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
PARAMOUNT ST, INDIAN ORCHARD, MA			
PROJECT # 25EG011 / WORK ORDER # 16660732			
PREPARATORY AND FINAL TIE-IN DETAILS			
SCALE: 1"=40' ON 22"X34"		SHEET 21 OF 27	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
TJ 05/16/2024	KMQ 05/20/2024	MA-SPR-PIP-25-009-21	0

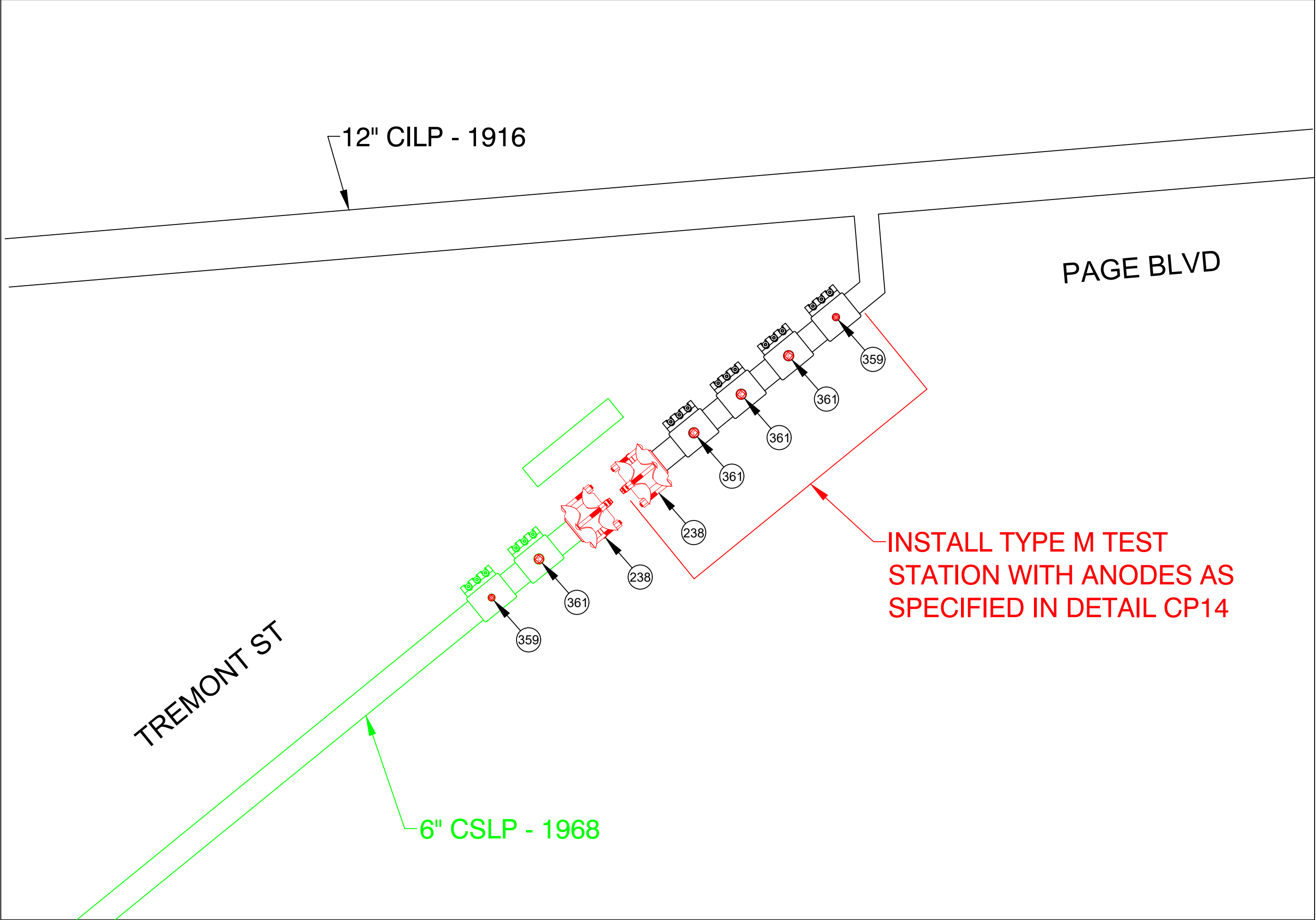


PARAMOUNT ST, INDIAN ORCHARD, MA				DETAIL "O" PREPARATORY	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
229	63462245	543029	CLAMP,PIPE, REPAIR, 6 IN IPS, SS, W/1-1/4 IN TAP	2	EA
231	63462157	578003 / 543029	6 X 9 X 2 OUT MUELLER 509-09-0655 100# 1 SECT REPAIR CLAMP GRID TAP'D END GSK	4	EA



PREPARATORY TIE-IN DETAIL O
NOT TO SCALE

PARAMOUNT ST, INDIAN ORCHARD, MA				DETAIL "O" FINAL	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
238	63481013	610399	FITTING,CAP, LINE, INSULATED, 6 IN, 6.90 IN OD, CI, W/ ANODE, FOR CI PIPE, CMA 21128001	2	EA
359	19080285	554877	PLUG,PIPE, SQUARE HEAD, SOLID, 1-1/4 IN, THREADED END, BLACK IRON, ANSI B1.20.1	2	EA
361	19080340	554878	PLUG,PIPE, SQUARE HEAD, SOLID, 2 IN, THREADED END, BLACK IRON, ANSI B1.20.1	4	EA



FINAL TIE-IN DETAIL O
NOT TO SCALE

ISSUED FOR
CONSTRUCTION



Daniel D'Elitto
2024.07.17
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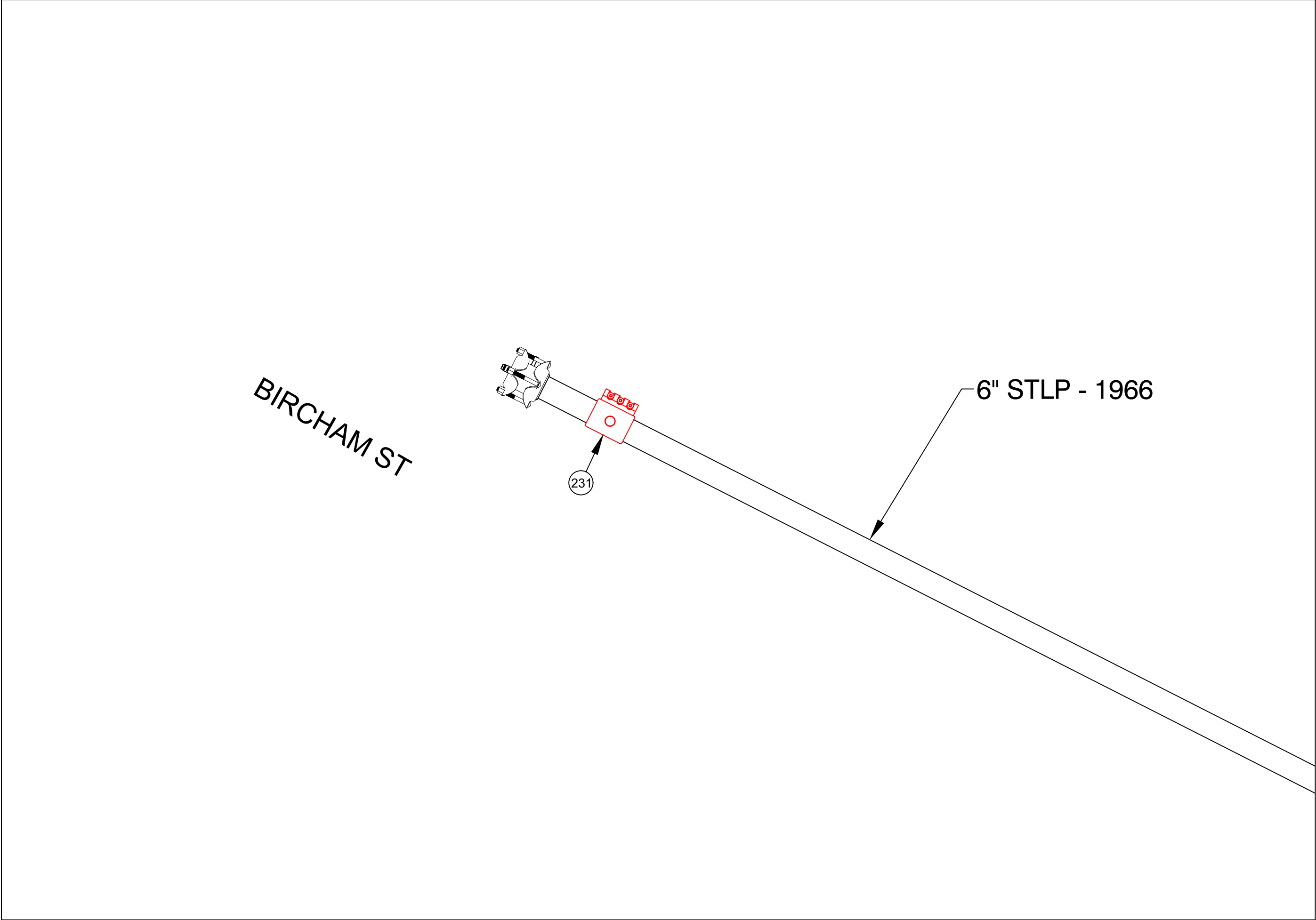


FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

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No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
PARAMOUNT ST, INDIAN ORCHARD, MA			
PROJECT # 25EG011 / WORK ORDER # 16660732			
PREPARATORY AND FINAL TIE-IN DETAILS			
SCALE: 1"=40' ON 22"X34"		SHEET 22 OF 27	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
TJ 05/16/2024	KMQ 05/20/2024	MA-SPR-PIP-25-009-22	0

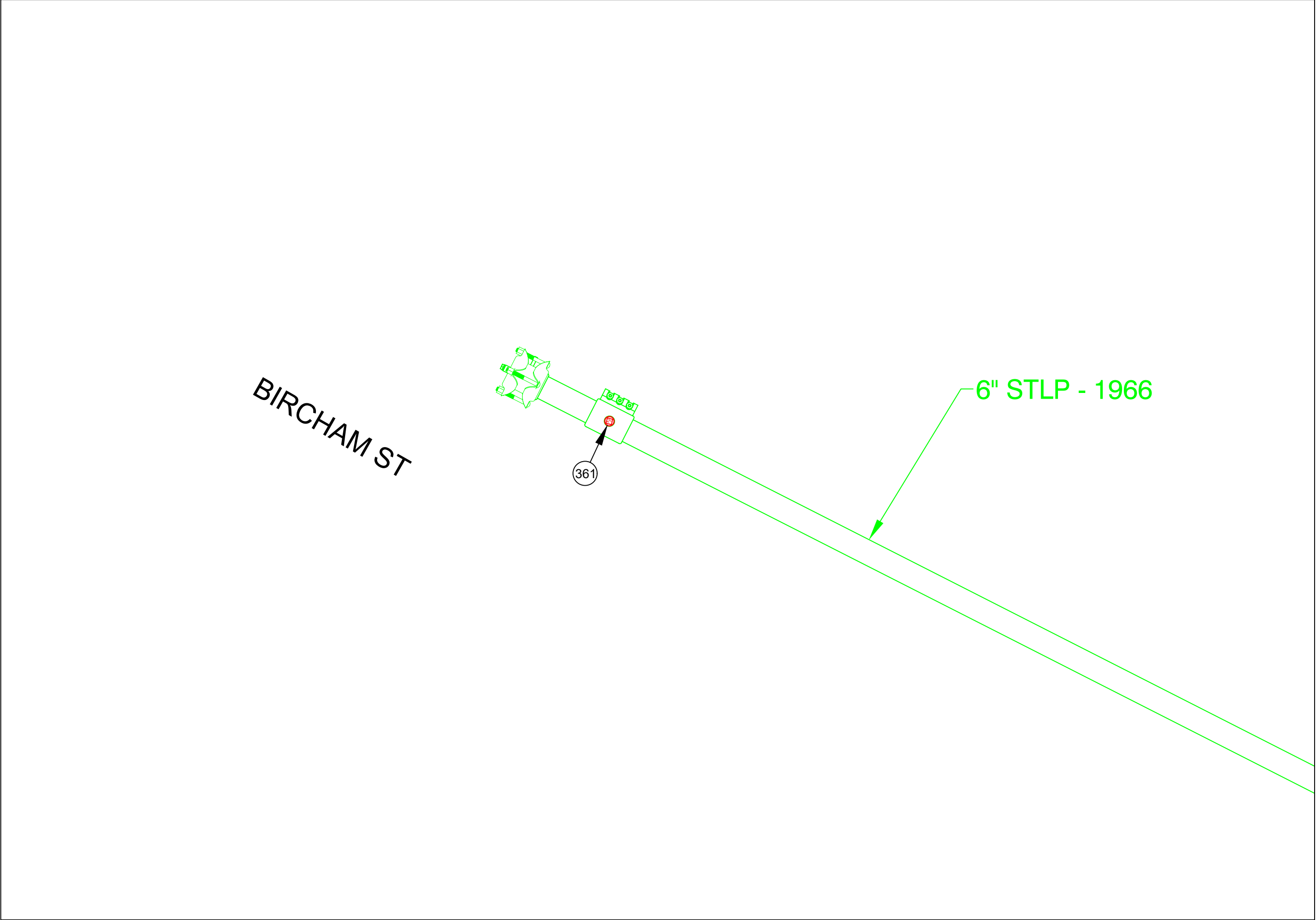


PARAMOUNT ST, INDIAN ORCHARD, MA				DETAIL "P" PREPARATORY	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
231	63462157	578003 / 543029	6 X 9 X 2 OUT MUELLER 509-09-0655 100# 1 SECT REPAIR CLAMP GRID TAPR'D END GSK	1	EA



PREPARATORY TIE-IN DETAIL P
NOT TO SCALE

PARAMOUNT ST, INDIAN ORCHARD, MA				DETAIL "P" FINAL	
REQUIRED BILL OF MATERIALS					
Item Number	MRC Stock Number	Maximo Part Number	Description	Quantity	Units
361	19080340	554878	PLUG,PIPE, SQUARE HEAD, SOLID, 2 IN, THREADED END, BLACK IRON, ANSI B1.20.1	1	EA



FINAL TIE-IN DETAIL P
NOT TO SCALE

ISSUED FOR
CONSTRUCTION



Daniel D'Elitto
DANIEL D'ELETTO, P.E. 2024.07.17
13:57:10-04'00'



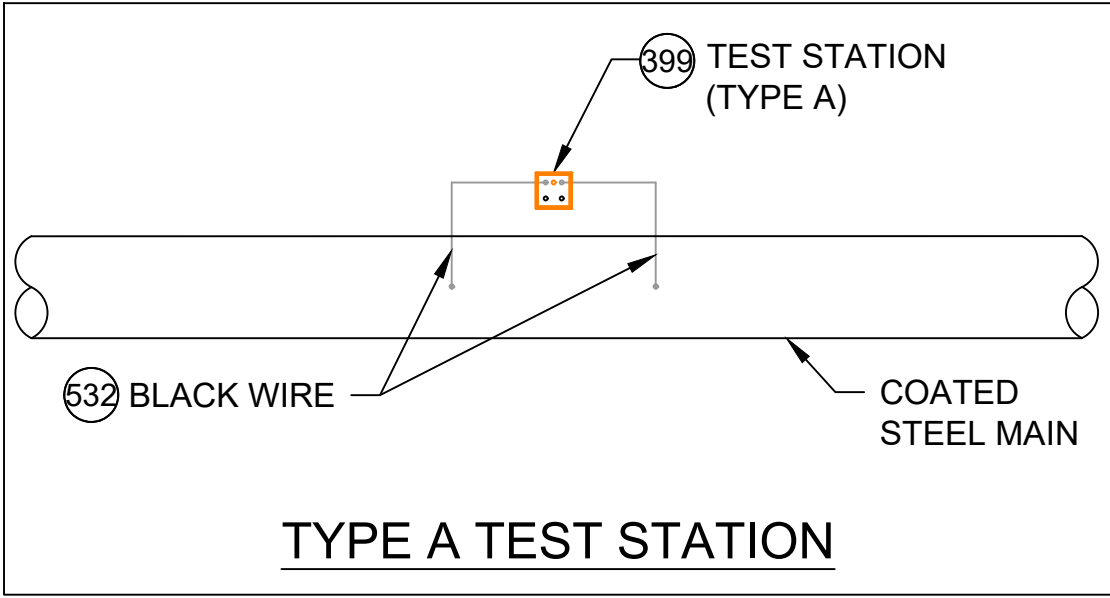
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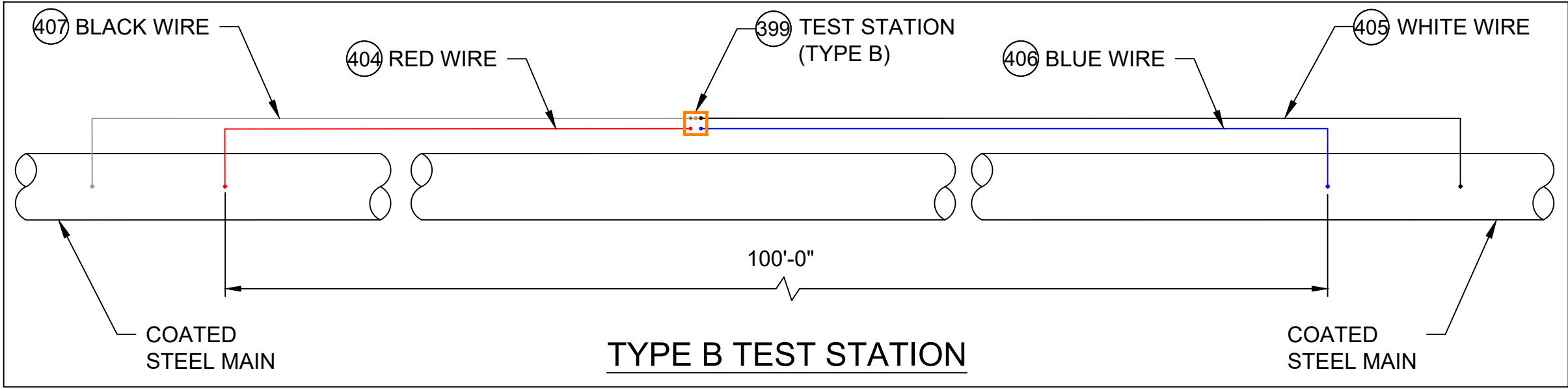
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FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

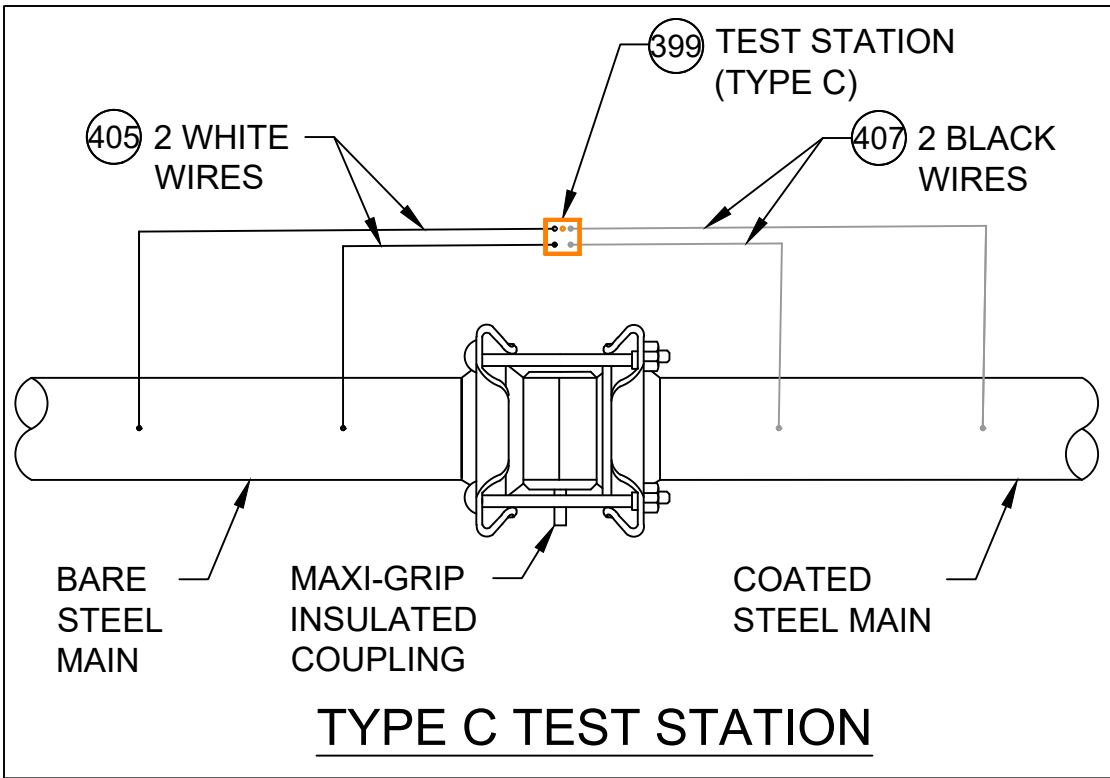
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No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
PARAMOUNT ST, INDIAN ORCHARD, MA			
PROJECT # 25EG011 / WORK ORDER # 16660732			
PREPARATORY AND FINAL TIE-IN DETAILS			
SCALE: 1"=40' ON 22"X34"		SHEET 23 OF 27	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
TJ 05/16/2024	KMQ 05/20/2024	MA-SPR-PIP-25-009-23	0



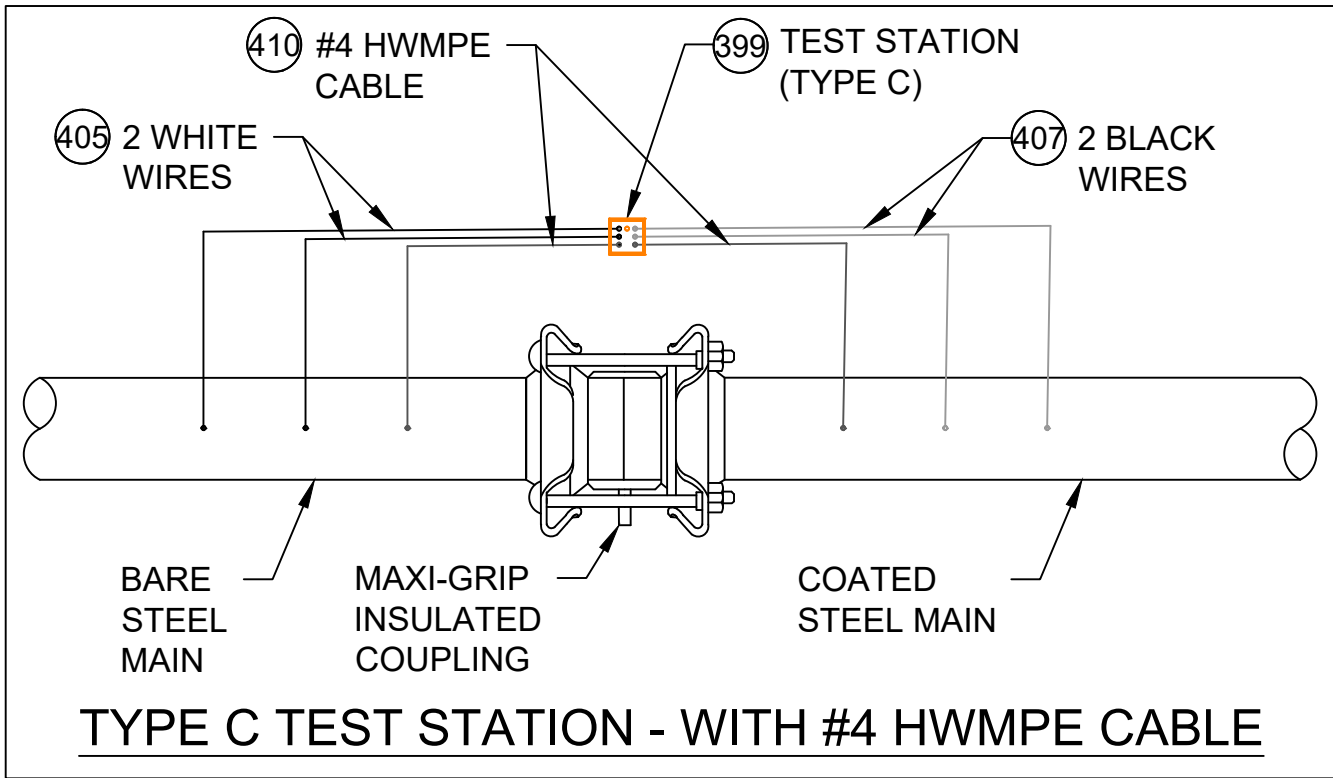
DETAIL CP1
SCALE: 1/2" = 1'-0"



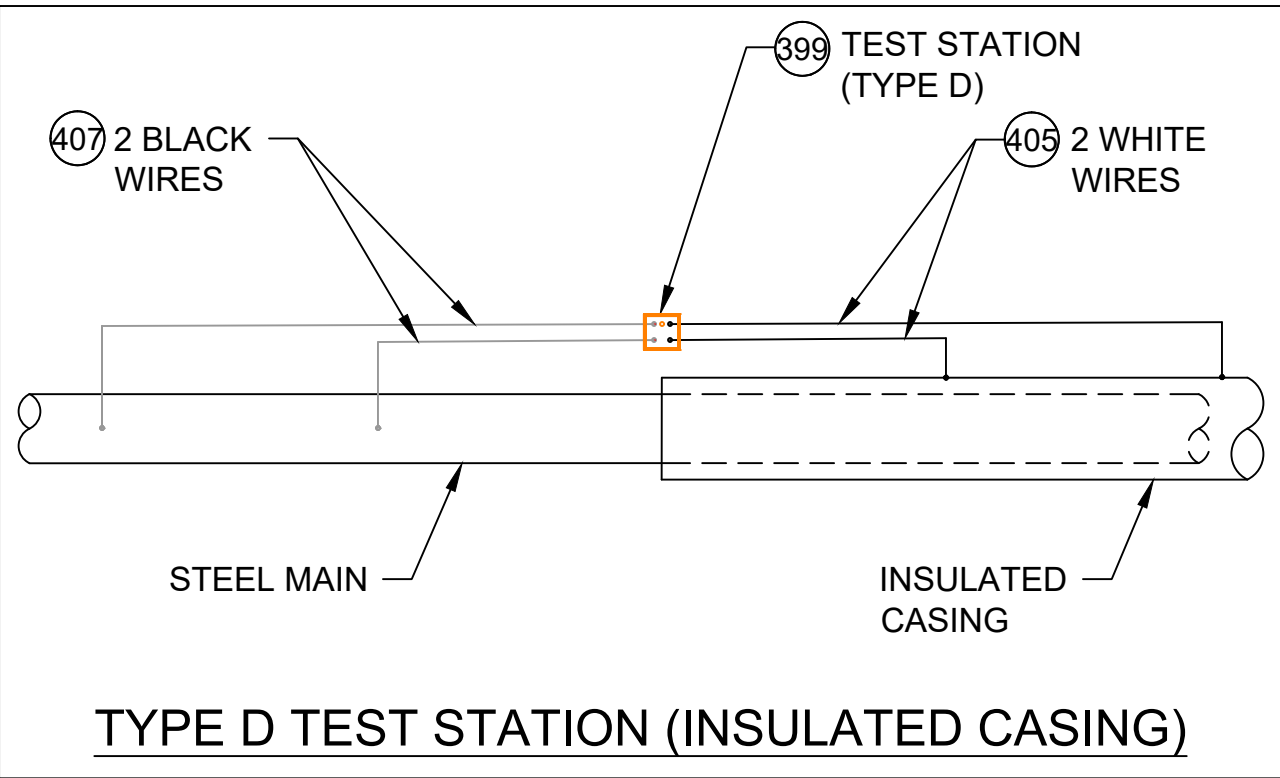
DETAIL CP2
SCALE: 1/2" = 1'-0"



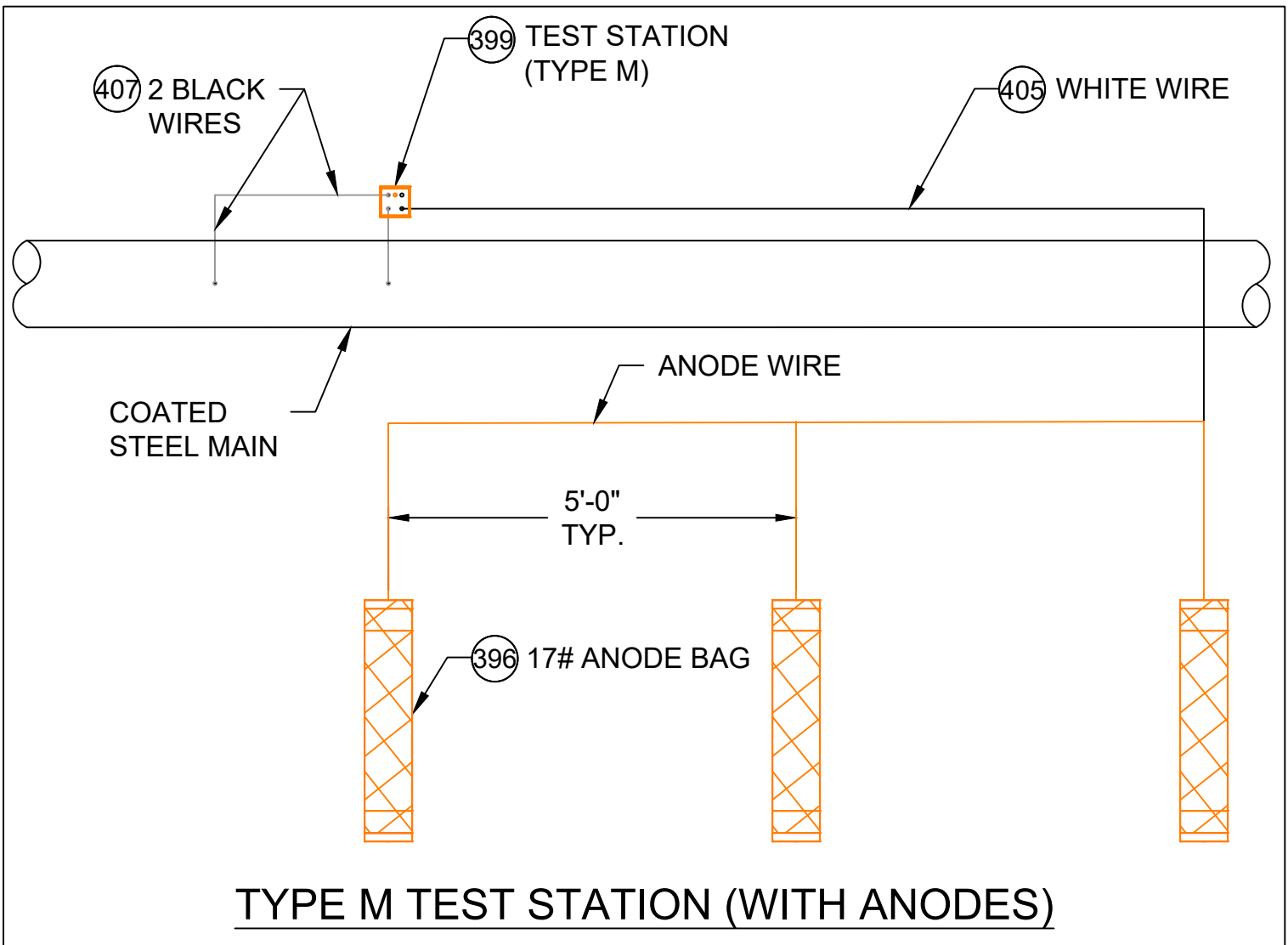
DETAIL CP3
SCALE: 1/2" = 1'-0"



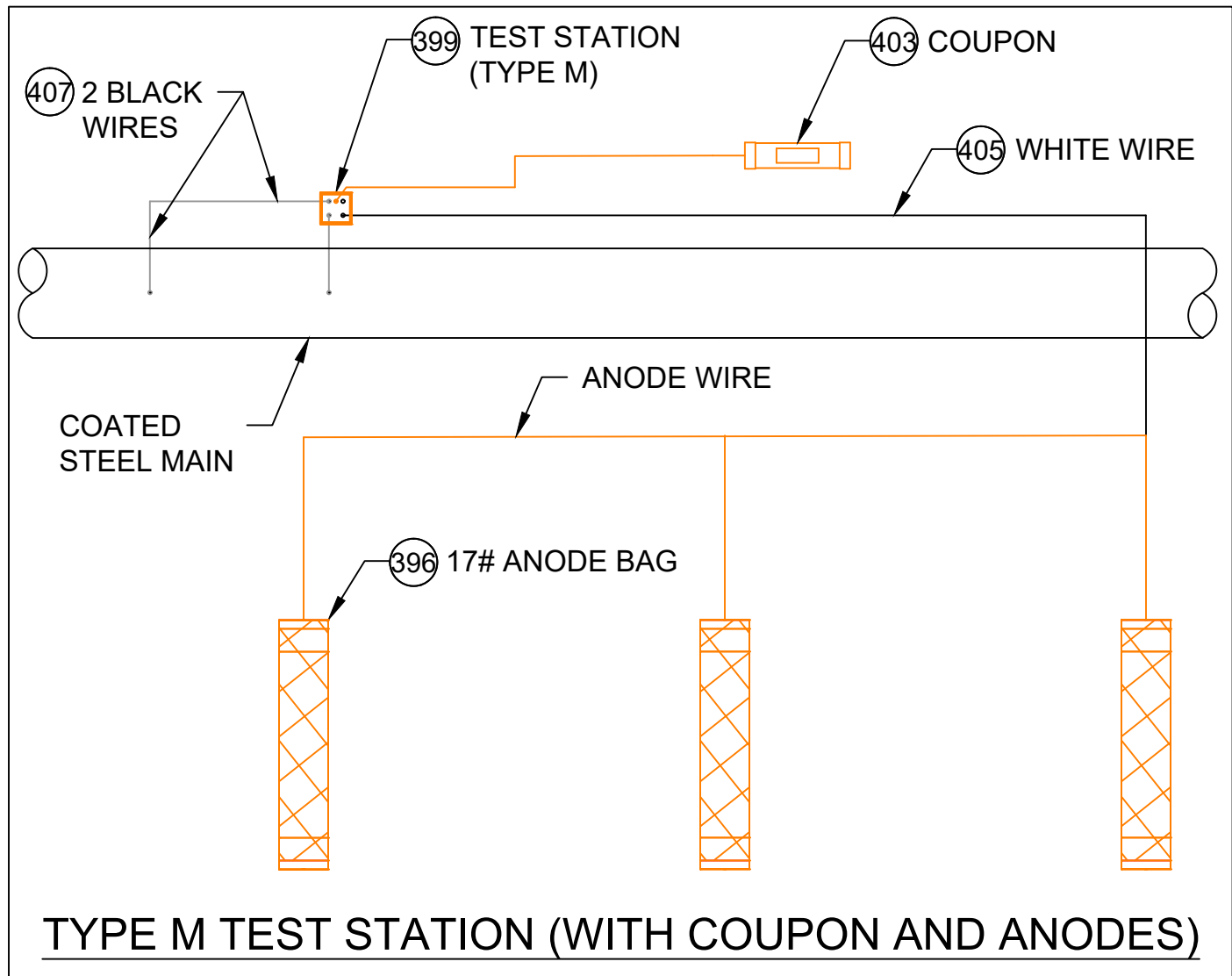
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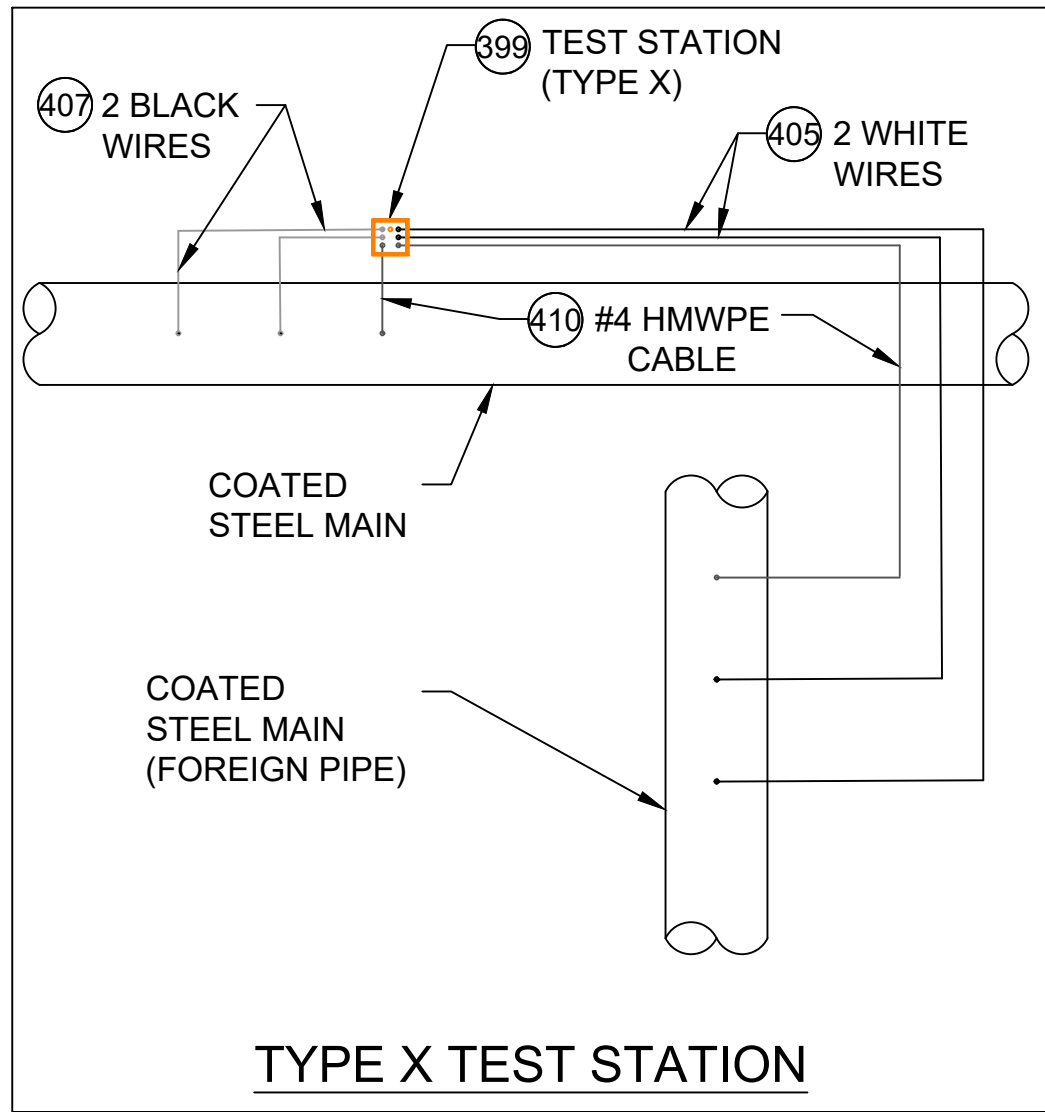
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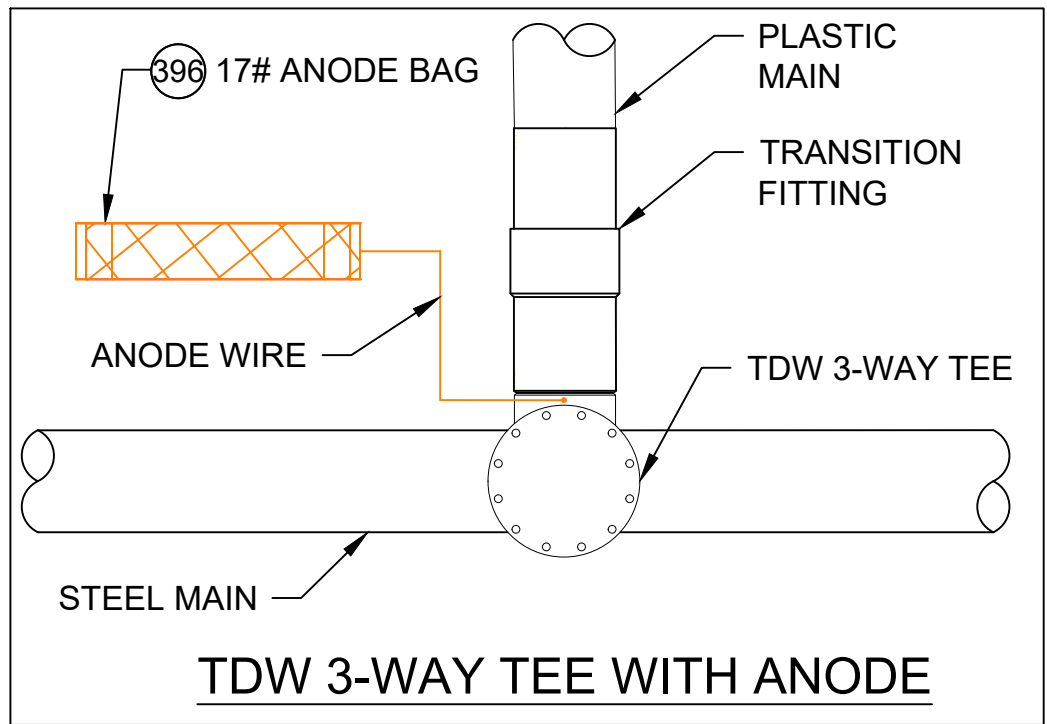
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SCALE: 1/2" = 1'-0"



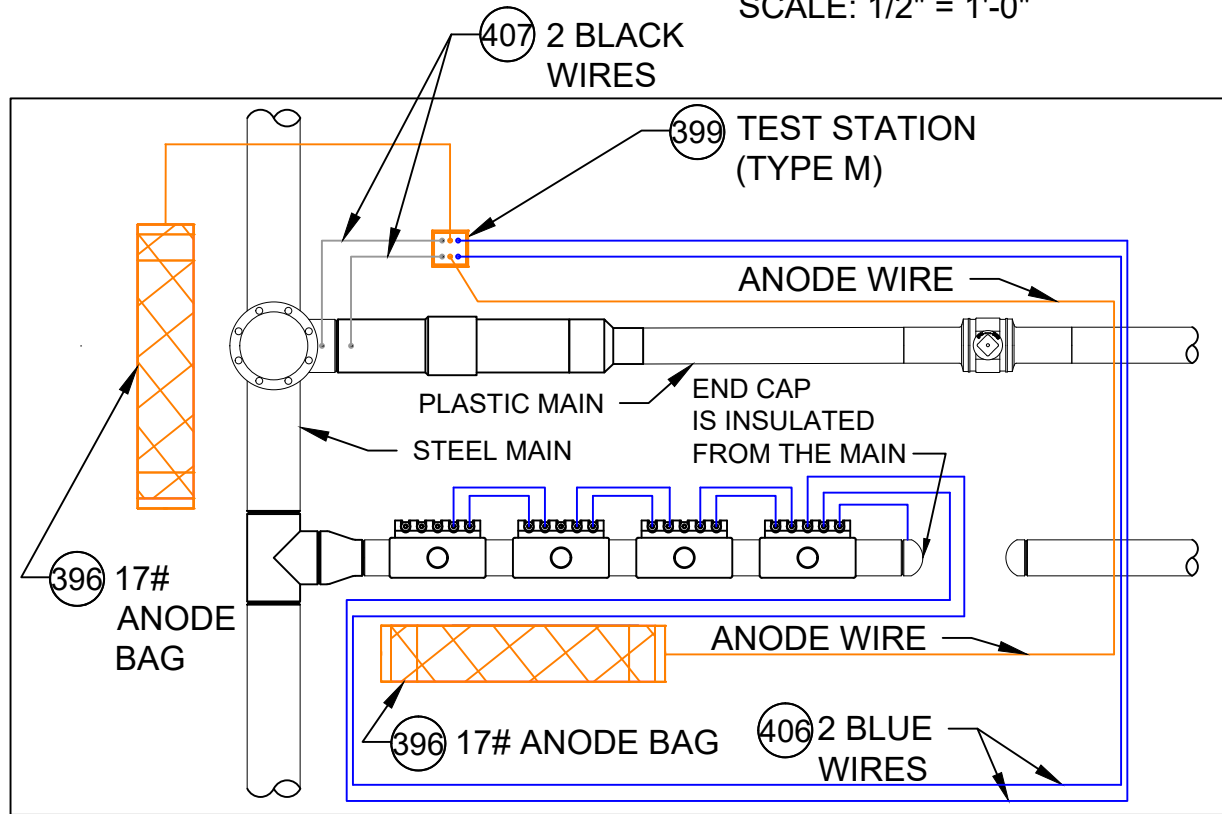
DETAIL CP7
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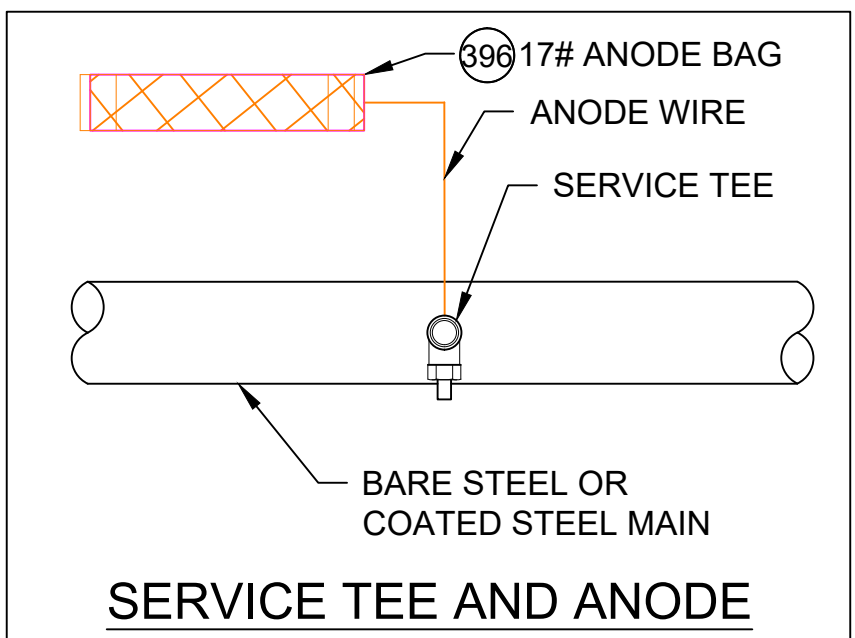
DETAIL CP8
SCALE: 1/2" = 1'-0"



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



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



DETAIL CP11
SCALE: 1/2" = 1'-0"

CATHODIC PROTECTION BILL OF MATERIALS			
ITEM	MAXIMO NO.	DESCRIPTION	UNITS
396	577776	ANODE,BAG, 17 LB NET, HIGH POTENTIAL MAGNESIUM, W/ 10 FT #10 AWG TW ORANGE LEAD WIRE, PACKED IN CARDBOARD BOX 42 LB TOTAL WEIGHT	EA
397	409626	CONNECTOR, SPLIT BOLT, 12 SOLID - 10 STRANDED, CU TO CU, HOUSING (COVER) MATE IN 590389.	EA
398	590389	HOUSING, 50 V MAX, 10 AWG MAX, FOR PROTECTING TRACER WIRE SPLICES, USED WITH CONNECTOR IN 409626. 10/BAG	EA
399	590871	BOX VALVE, TEST STATION, CP TEST #178, 10-1/4 IN DIA. LID, 8-3/8 IN I.D. 16 IN H., ASTM A48 CL 25 CAST IRON, FOR OFF-ROAD USE ONLY	EA
400	400567	POWDER, CARTRIDGE, TYPE IS F-33, ALLOY , CAP COLOR CLEAR, 15 GM CHARGE, 20/PAC, FOR STEEL PIPE	BOX
401	559168	SLEEVE,ELECTRICAL, #14 TO 10 AWG, W/ THERMITE WELDER, FOR CATHODIC PROTECTION	EA
402	584045	EDI CONCENTRIC COUPON ASSEMBLY INCLUDING UCB-ZIN-LW010, 10 FT OF CABLE	ES
403	603126	EDI CONCENTRIC COUPON ASSEMBLY INCLUDING UCB-ZIN-LW025, 25 FT OF CABLE	ES
404	603140	WIRE,ELECTRICAL, THHN, 1/C, #10 AWG, STRANDED, RED, INSULATED, CU, 500 FT SPOOL, WIRE	ROLL
405	578415	WIRE,ELECTRICAL, THHN, 1/C, #10 AWG, STRANDED, WHITE, INSULATED, CU, 500 FT SPOOL, WIRE	ROLL
406	603141	WIRE,ELECTRICAL, THHN, 1/C, #10 AWG, STRANDED, BLUE INSULATED, CU, 500 FT SPOOL, WIRE	ROLL
407	603139	WIRE ELECTRICAL, THHN, 1/C, #10 AWG, STRANDED, BLACK, INSULATED, CU, 500 FT SPOOL,WIRE	ROLL
408	500804	WELDER,THERMITE, THERMITE, FOR GAS PIPE, #12 CABLE,HORIZONTAL STEEL PIPE 4 IN AND LARGER DIAMETER	EA
409	500805	WELDER,THERMITE, THERMITE, FOR GAS PIPE, #12 CABLE, HORIZONTAL STEEL PIPE 3/4 - 3-1/2 IN DIAMETER	EA
410	405850	CABLE, INSULATED, CATHODIC PROTECTION, 1/C, #4 AWG, 7 STR, 600 V, BLACK, HWMPE, CU, 1000 FT ROLLS	FT
411	397818	ANODE,BAG, 2.5 X 2.5 X 4.5 IN, 10 FT LG, 3 LB, MAGNESIUM, Alternate IN 577776	EA
577	603769	TRENTON-FILL POR PM-GP, 140 FA, FOR FILLING VOIDS & IRREGULAR SPACES PRIOR TO WRAPPING W/WAX TAPE, OF TO 110F APPLICATION TEMPERATURE, 6 BLOCKS/CASE.	CASE
575	400572	PRIMER, 4 GAL/CASE, BROWN, FOR WAX TAPE, APPLICATION TEMP 0 TO 230 F, TEMCOAT 3000	EA
576	503673	TAPE,WAX, 9 FT LG X 4 IN W, 24 ROLLS/CS, ABOVE AND BELOW GROUND APPLICATIONS, TR-#2A WAX, ALUMINUM	ROLL
697	603423	TAPE,WAX, 9 FT LG X 6 IN W X 70-90 MIL THK, 16 ROLLS/CS, ABOVE AND BELOW GROUND APPLICATIONS, TR-#2A WAX, ALUMINUM	ROLL

- NOTES:**
1. ALL TEST STATION BOXES SHOULD BE INSTALLED IN A SAFE LOCATION WHERE ONE INDIVIDUAL CAN SAFELY OPEN AND ACCESS THE TEST WIRES. ALL TEST WIRES INSIDE THE BOX SHOULD HAVE ENOUGH SLACK ON THE WIRES SO THEY CAN EXTEND A MINIMUM OF 12" ABOVE GRADE.
 2. FOR TYPE A TEST STATIONS, THE TWO WIRES SHOULD BE THERMITE WELDED TO THE COATED STEEL MAIN AND BE THE SAME COLOR. (COUPONS COULD BE ADDED TO THE TEST STATION TYPE).
 3. FOR TYPE B TEST STATIONS, EACH OF THE FOUR WIRES SHOULD BE A DIFFERENT COLOR AND DOCUMENTED
 4. FOR TYPE C TEST STATIONS, THE WIRES SHOULD BE THE SAME COLOR ON EACH SIDE OF THE INSULATED COUPLING. (ANODES AND/OR COUPONS COULD BE ADDED TO THIS TEST STATION TYPE).
 5. 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. (ANODES AND/OR COUPONS COULD BE ADDED TO THIS TEST STATION TYPE).
 6. FOR TYPE M TEST STATIONS, THE TWO WIRES THERMITE WELDED TO THE CARRIER PIPE SHOULD BE THE SAME COLOR WIRE. THERE IS ALSO MAGNESIUM ANODE(S) WIRE(S) LOCATED INSIDE THE TEST STATION BOX.THE WIRE COLOR (TYPICALLY ORANGE) FOR THE ANODES. IF THE ANODE WIRES ARE SPLICED TO A COMMON ANODE HEADER CABLE, THE ANODE HEADER 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, NO MAGNESIUM ANODES SHOULD BE DIRECTLY THERMITE WELDED TO THE CARRIER PIPE OR IN CONTACT WITH THE CARRIER PIPE. THE ANODE HEADER WIRE OR INDIVIDUAL ANODE WIRES SHOULD TERMINATE INSIDE THE TEST STATION BOX. ANODES SHOULD BE SPACED A MINIMUM OF 5' ON CENTER FROM EACH OTHER AND A MINIMUM OF 12" AWAY AND BELOW THE BOTTOM OF THE STEEL MAIN.
 7. IF COUPONS ARE TO BE INSTALLED , FIRST REMOVE THE PROTECTIVE LABEL COVERING THE STEEL COUPON AND THE RED STICKERS COVERING EACH SENSING PORT. CLEAN THE ENTIRE STEEL COUPON SURFACE WITH ALCOHOL TO REMOVE THE CORROSION INHIBITOR. PLACE THE COUPON ASSEMBLY APPROXIMATELY 12" FROM THE GAS MAIN BEING MONITORED WITH THE SENSING PORTS FACING THE GAS MAIN. THE COUPON ASSEMBLY SHOULD BE LOCATED ADJACENT TO THE BOTTOM PORTION OF THE GAS MAIN, ANYWHERE BETWEEN 3 O'CLOCK AND 9 O'CLOCK. THE SOIL BETWEEN THE COUPON AND THE MAIN SHOULD BE WELL COMPACTED AND CONTAIN NO ROCKS LARGER THAN A CENTIMETER IN DIAMETER OR FOREIGN MATERIAL.
 8. ONE (1) 3# ANODE (MINIMUM) SHALL BE INSTALLED TO PROTECT THE CLAMPS ON EACH 10-FOOT SPAN OF PIPE. EACH 10-FOOT SPAN OF PIPE MUST BE A CONTINUOUS SECTION OF STEEL. CLAMPS ON NON-CONTINUOUS SECTIONS OF STEEL EVEN IF THEY ARE WITHIN 10 FEET OF EACH CANNOT BE PROTECTED BY THE SAME ANODE.
 9. REFER TO CONSTRUCTION STANDARD CS-500 SECTION IV.G WHICH PROVIDES GENERAL GUIDANCE REGARDING "WRAPPING" FOR CORROSION PROTECTION. CS-500 SECTION IV.G.5. DESCRIBES THE BASIC STEPS REQUIRED TO WRAP LEAK REPAIR CLAMPS.

NOTE: DETAILS CP-9 AND CP-11 ARE FOR NEW STEEL FITTINGS THAT ARE NOT ELECTRICALLY ISOLATED FROM EXISTING UNPROTECTED STEEL. THESE ANODES ARE DIRECTLY CONNECTED TO THE NEW STEEL FITTING AND THE ANODE MUST BE A MINIMUM OF 2 FEET FROM ANY NEW ISOLATED FITTINGS OR ASSOCIATED ANODES.

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

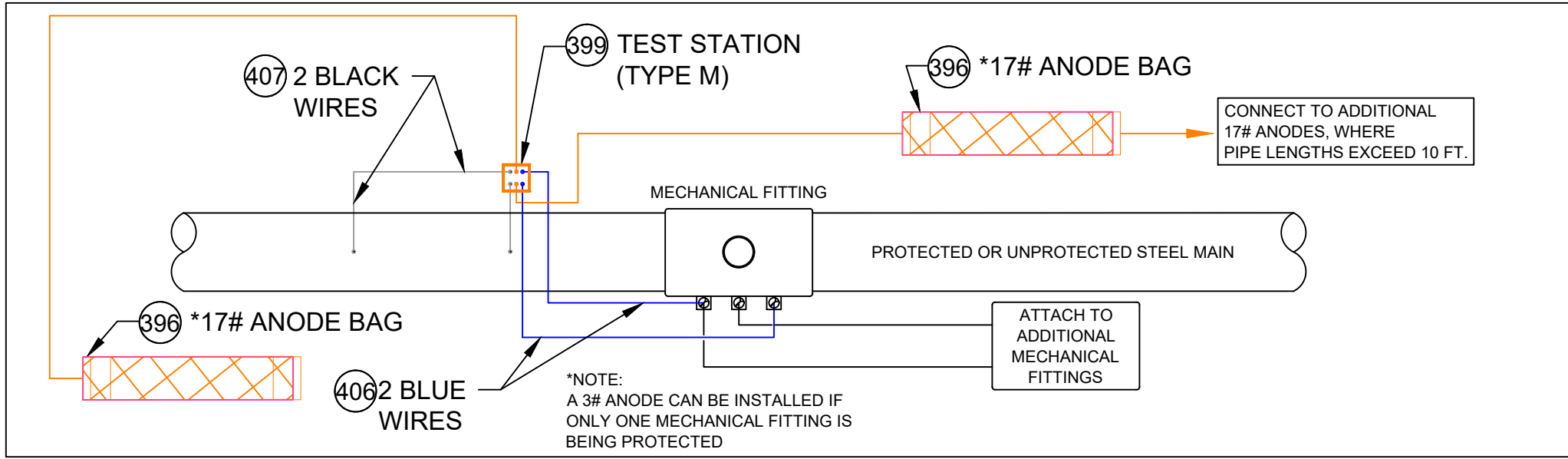
No.	Description	Date	Dw/Ck
Revision/Status			
PARAMOUNT ST, INDIAN ORCHARD, MA			
PROJECT # 25EG011 / WORK ORDER # 16660732			
DETAILS, NOTES AND BILL OF MATERIALS			
SCALE: NTS		SHEET 24 OF 27	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
TJ 05/16/2024	KMQ 05/20/2024	MA-SPR-PIP-25-009-24	0

FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

Paramount St - Pro Drawing Rev0.dwg

EGMA DRAWING TEMPLATE - 02-09-2023

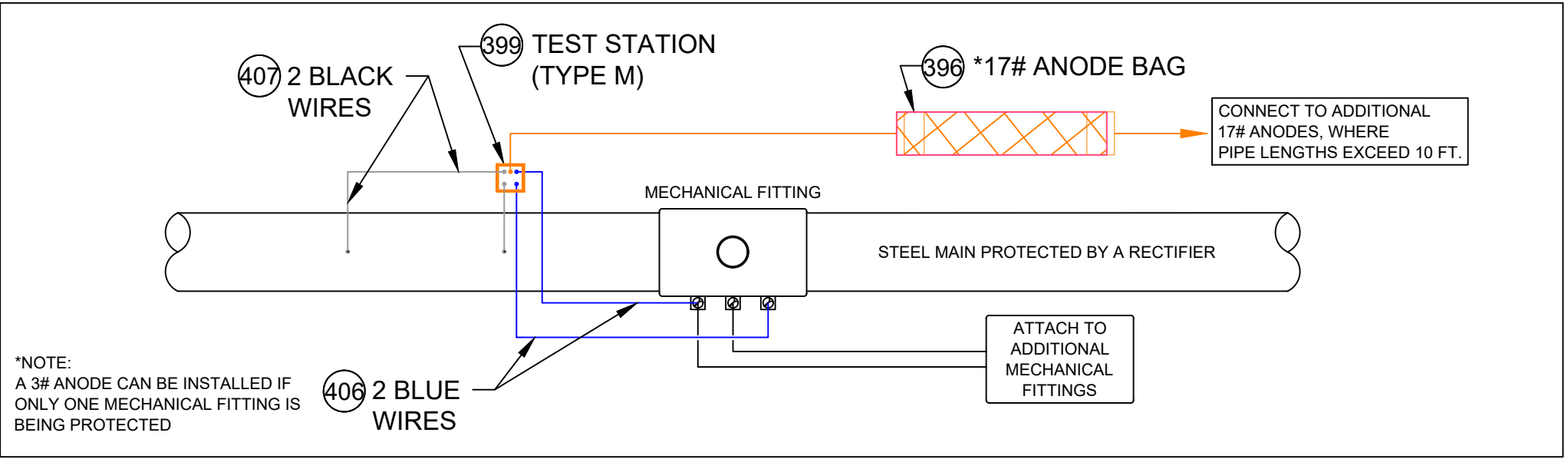
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TEST STATION CONNECTION DETAILS FOR MECHANICAL FITTINGS
INSTALLED ON A STEEL MAIN

DETAIL CP12

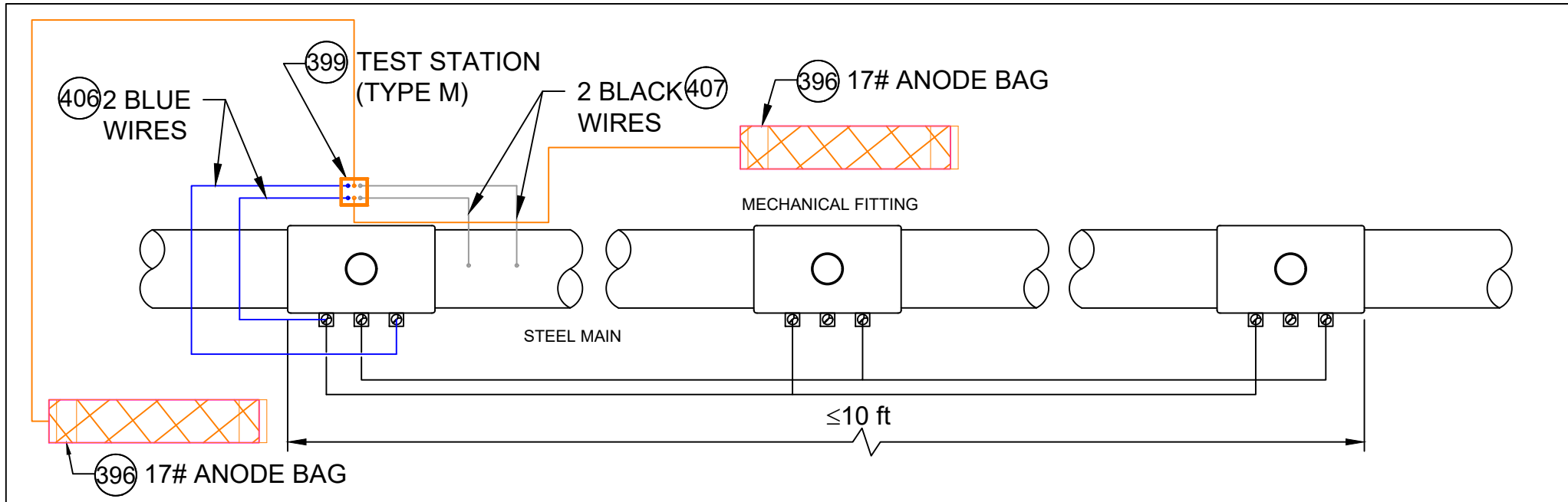
SCALE: 1/2" = 1'-0"



TEST STATION CONNECTION DETAILS FOR MECHANICAL FITTINGS
INSTALLED ON STEEL MAIN PROTECTED BY A RECTIFIER

DETAIL CP13

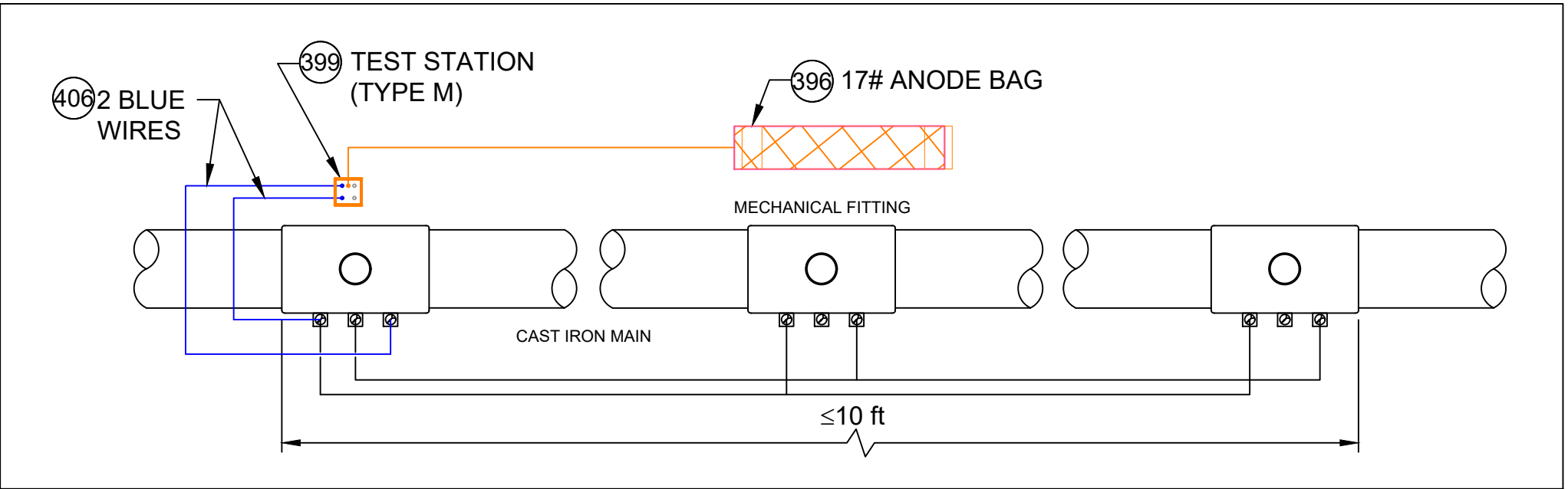
SCALE: 1/2" = 1'-0"



ANODE INSTALLATION FOR MULTIPLE MECHANICAL FITTINGS
INSTALLED ON A ELECTRICALLY CONTINUOUS SECTION OF STEEL MAIN

DETAIL CP14

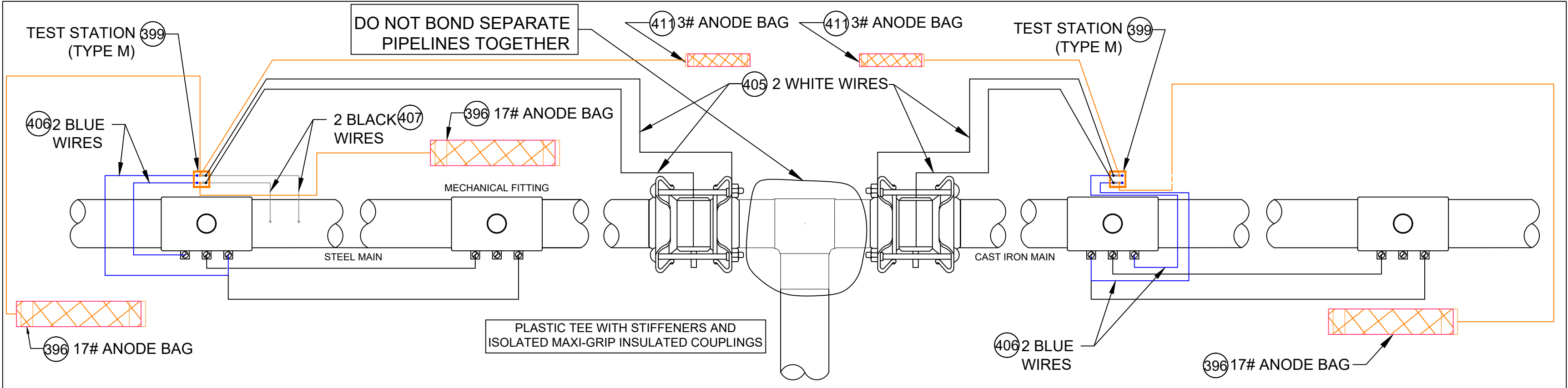
SCALE: 1/2" = 1'-0"



ANODE INSTALLATION FOR MULTIPLE MECHANICAL FITTINGS
INSTALLED ON A CAST IRON MAIN

DETAIL CP15

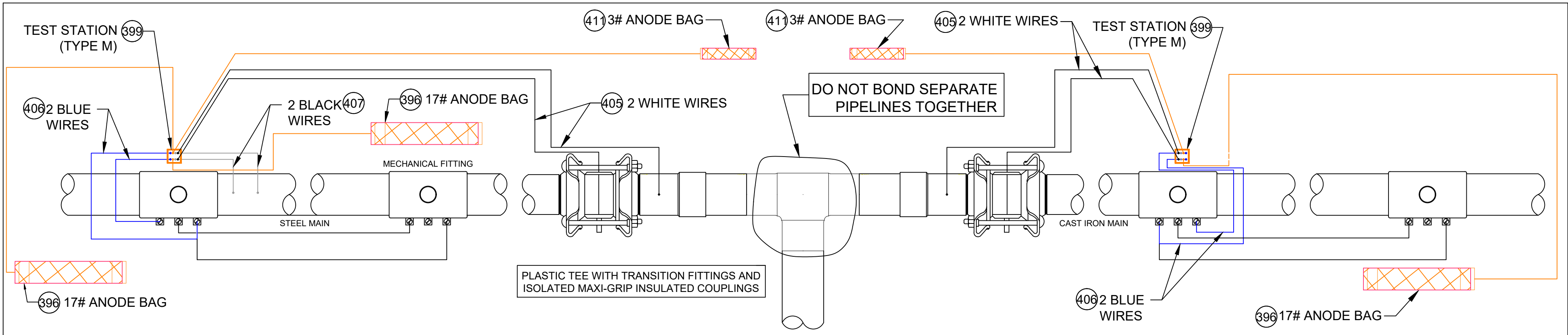
SCALE: 1/2" = 1'-0"



ANODE INSTALLATION FOR MULTIPLE MECHANICAL FITTINGS
INSTALLED ON NON-ELECTRICALLY CONTINUOUS SECTIONS OF STEEL AND CAST IRON PIPING

DETAIL CP16

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



ANODE INSTALLATION FOR MULTIPLE MECHANICAL FITTINGS
INSTALLED ON NON-ELECTRICALLY CONTINUOUS SECTIONS OF STEEL AND CAST IRON PIPING

DETAIL CP16A

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

CATHODIC PROTECTION BILL OF MATERIALS

ITEM	MAXIMO NO.	DESCRIPTION	UNITS
396	577776	ANODE,BAG, 17 LB NET, HIGH POTENTIAL MAGNESIUM, W/ 10 FT #10 AWG TW ORANGE LEAD WIRE, PACKED IN CARDBOARD BOX 42 LB TOTAL WEIGHT	EA
397	409626	CONNECTOR, SPLIT BOLT, 12 SOLID - 10 STRANDED, CU TO CU, HOUSING (COVER) MATE IN 590389.	EA
398	590389	HOUSING, 50 V MAX, 10 AWG MAX, FOR PROTECTING TRACER WIRE SPLICES, USED WITH CONNECTOR IN 409626. 10/BAG	EA
399	590871	BOX VALVE, TEST STATION, CP TEST #178, 10-1/4 IN DIA. LID, 8-3/8 IN I.D. 16 IN H., ASTM A48 CL 25 CAST IRON, FOR OFF-ROAD USE ONLY	EA
400	400567	POWDER, CARTRIDGE, TYPE IS F-33, ALLOY , CAP COLOR CLEAR, 15 GM CHARGE, 20/PAC, FOR STEEL PIPE	BOX
401	559168	SLEEVE,ELECTRICAL, #14 TO 10 AWG, W/ THERMITE WELDER, FOR CATHODIC PROTECTION	EA
402	584045	EDI CONCENTRIC COUPON ASSEMBLY INCLUDING UCB-ZIN-LW010, 10 FT OF CABLE	ES
403	603126	EDI CONCENTRIC COUPON ASSEMBLY INCLUDING UCB-ZIN-LW025, 25 FT OF CABLE	ES
404	603140	WIRE,ELECTRICAL, THHN, 1/C, #10 AWG, STRANDED, RED, INSULATED, CU, 500 FT SPOOL, WIRE	ROLL
405	578415	WIRE,ELECTRICAL, THHN, 1/C, #10 AWG, STRANDED, WHITE, INSULATED, CU, 500 FT SPOOL, WIRE	ROLL
406	603141	WIRE,ELECTRICAL, THHN, 1/C, #10 AWG, STRANDED, BLUE INSULATED, CU, 500 FT SPOOL, WIRE	ROLL
407	603139	WIRE ELECTRICAL, THHN, 1/C, #10 AWG, STRANDED, BLACK, INSULATED, CU, 500 FT SPOOL,WIRE	ROLL
408	500804	WELDER,THERMITE, THERMITE, FOR GAS PIPE, #12 CABLE,HORIZONTAL STEEL PIPE 4 IN AND LARGER DIAMETER	EA
409	500805	WELDER,THERMITE, THERMITE, FOR GAS PIPE, #12 CABLE, HORIZONTAL STEEL PIPE 3/4 - 3-1/2 IN DIAMETER	EA
410	405850	CABLE, INSULATED, CATHODIC PROTECTION, 1/C, #4 AWG, 7 STR, 600 V, BLACK, HMWPE, CU, 1000 FT ROLLS	FT
411	397818	ANODE,BAG, 2.5 X 2.5 X 4.5 IN, 10 FT LG, 3 LB, MAGNESIUM, Alternate IN 577776	EA
577	603769	TRENTON-FILL POR PM-GP, 140 FA, FOR FILLING VOIDS & IRREGULAR SPACES PRIOR TO WRAPPING W/WAX TAPE, OF TO 110F APPLICATION TEMPERATURE, 6 BLOCKS/CASE,	CASE
575	400572	PRIMER, 4 GAL/CASE, BROWN, FOR WAX TAPE, APPLICATION TEMP 0 TO 230 F, TEMCOAT 3000	EA
576	503673	TAPE,WAX, 9 FT LG X 4 IN W, 24 ROLLS/CS, ABOVE AND BELOW GROUND APPLICATIONS, TR-#2A WAX, ALUMINUM	ROLL
697	603423	TAPE,WAX, 9 FT LG X 6 IN W X 70-90 MIL THK, 16 ROLLS/CS, ABOVE AND BELOW GROUND APPLICATIONS, TR-#2A WAX, ALUMINUM	ROLL

NOTES:

- ALL TEST STATION BOXES SHOULD BE INSTALLED IN A SAFE LOCATION WHERE ONE INDIVIDUAL CAN SAFELY OPEN AND ACCESS THE TEST WIRES. ALL TEST WIRES INSIDE THE BOX SHOULD HAVE ENOUGH SLACK ON THE WIRES SO THEY CAN EXTEND A MINIMUM OF 12" ABOVE GRADE.
- FOR TYPE A TEST STATIONS, THE TWO WIRES SHOULD BE THERMITE WELDED TO THE COATED STEEL MAIN AND BE THE SAME COLOR. (COUPONS COULD BE ADDED TO THE TEST STATION TYPE).
- FOR TYPE B TEST STATIONS, EACH OF THE FOUR WIRES SHOULD BE A DIFFERENT COLOR AND DOCUMENTED
- FOR TYPE C TEST STATIONS, THE WIRES SHOULD BE THE SAME COLOR ON EACH SIDE OF THE INSULATED COUPLING. (ANODES AND/OR COUPONS COULD BE ADDED TO THIS TEST STATION TYPE).
- 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. (ANODES AND/OR COUPONS COULD BE ADDED TO THIS TEST STATION TYPE).
- FOR TYPE M TEST STATIONS, THE TWO WIRES THERMITE WELDED TO THE CARRIER PIPE SHOULD BE THE SAME COLOR WIRE. THERE IS ALSO MAGNESIUM ANODE(S) WIRE(S) LOCATED INSIDE THE TEST STATION BOX.THE WIRE COLOR (TYPICALLY ORANGE) FOR THE ANODES. IF THE ANODE WIRES ARE SPICED TO A COMMON ANODE HEADER CABLE, THE ANODE HEADER 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, NO MAGNESIUM ANODES SHOULD BE DIRECTLY THERMITE WELDED TO THE CARRIER PIPE OR IN CONTACT WITH THE CARRIER PIPE. THE ANODE HEADER WIRE OR INDIVIDUAL ANODE WIRES SHOULD TERMINATE INSIDE THE TEST STATION BOX. ANODES SHOULD BE SPACED A MINIMUM OF 5' ON CENTER FROM EACH OTHER AND A MINIMUM OF 12" AWAY AND BELOW THE BOTTOM OF THE STEEL MAIN.
- IF COUPONS ARE TO BE INSTALLED , FIRST REMOVE THE PROTECTIVE LABEL COVERING THE STEEL COUPON AND THE RED STICKERS COVERING EACH SENSING PORT. CLEAN THE ENTIRE STEEL COUPON SURFACE WITH ALCOHOL TO REMOVE THE CORROSION INHIBITOR. PLACE THE COUPON ASSEMBLY APPROXIMATELY 12" FROM THE GAS MAIN BEING MONITORED WITH THE SENSING PORTS FACING THE GAS MAIN. THE COUPON ASSEMBLY SHOULD BE LOCATED ADJACENT TO THE BOTTOM PORTION OF THE GAS MAIN, ANYWHERE BETWEEN 3 O'CLOCK AND 9 O'CLOCK. THE SOIL BETWEEN THE COUPON AND THE MAIN SHOULD BE WELL COMPACTED AND CONTAIN NO ROCKS LARGER THAN A CENTIMETER IN DIAMETER OR FOREIGN MATERIAL.
- ONE (1) 3# ANODE (MINIMUM) SHALL BE INSTALLED TO PROTECT THE CLAMPS ON EACH 10-FOOT SPAN OF PIPE. EACH 10-FOOT SPAN OF PIPE MUST BE A CONTINUOUS SECTION OF STEEL. CLAMPS ON NON-CONTINUOUS SECTIONS OF STEEL EVEN IF THEY ARE WITHIN 10 FEET OF EACH CANNOT BE PROTECTED BY THE SAME ANODE.
- REFER TO CONSTRUCTION STANDARD CS-500 SECTION IV.G WHICH PROVIDES GENERAL GUIDANCE REGARDING "WRAPPING" FOR CORROSION PROTECTION. CS-500 SECTION IV.G.5. DESCRIBES THE BASIC STEPS REQUIRED TO WRAP LEAK REPAIR CLAMPS.

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

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

No.	Description	Date	Dw/Ck
Revision/Status			
PARAMOUNT ST, INDIAN ORCHARD, MA			
PROJECT # 25EG011 / WORK ORDER # 16660732			
DETAILS, NOTES AND BILL OF MATERIALS			
SCALE: NTS		SHEET 25 OF 27	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
TJ 05/16/2024	KMG 05/20/2024	MA-SPR-PIP-25-009-25	0

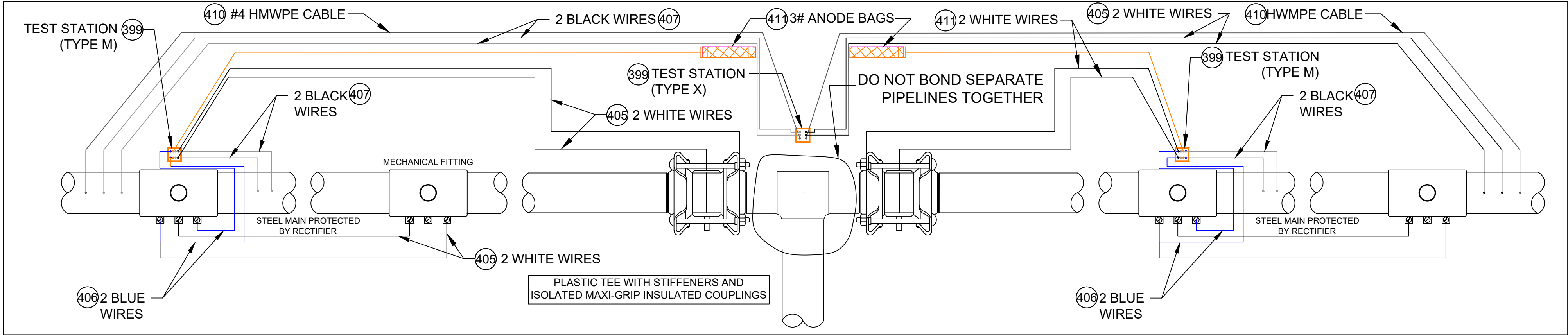
FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

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EGMA DRAWING TEMPLATE - 02-09-2023

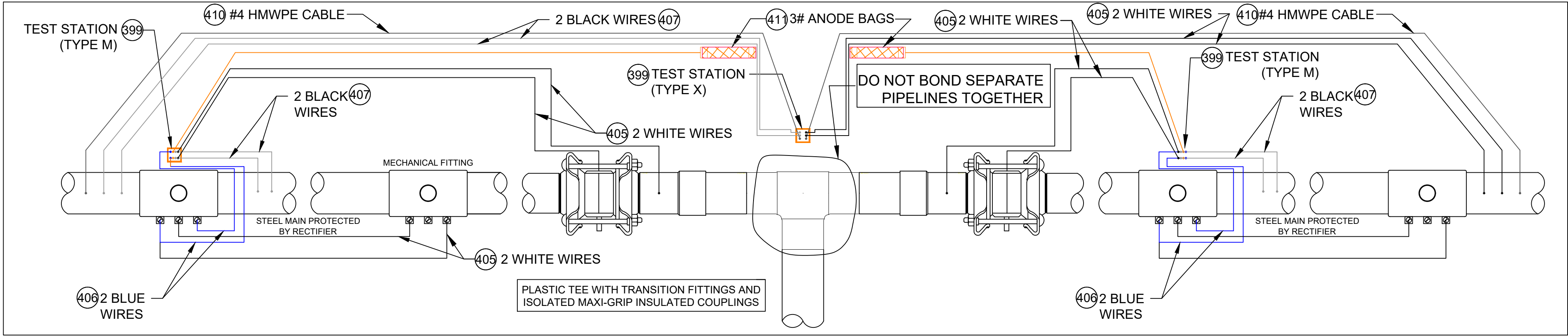
Paramount St - Pro Drawing Rev0.dwg

Jul 17, 2024 - 11:17am



ANODE INSTALLATION FOR MULTIPLE MECHANICAL FITTINGS
INSTALLED ON NON-ELECTRICALLY CONTINUOUS SECTIONS OF COATED STEEL PIPING

DETAIL CP17
SCALE: 1/2" = 1'-0"



ANODE INSTALLATION FOR MULTIPLE MECHANICAL FITTINGS
INSTALLED ON NON-ELECTRICALLY CONTINUOUS SECTIONS OF COATED STEEL PIPING

DETAIL CP17A
SCALE: 1/2" = 1'-0"

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

CATHODIC PROTECTION BILL OF MATERIALS			
ITEM	MAXIMO NO.	DESCRIPTION	UNITS
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397	409626	CONNECTOR, SPLIT BOLT, 12 SOLID - 10 STRANDED, CU TO CU, HOUSING (COVER) MATE IN 590389.	EA
398	590389	HOUSING, 50 V MAX, 10 AWG MAX, FOR PROTECTING TRACER WIRE SPLICES, USED WITH CONNECTOR IN 409626. 10/BAG	EA
399	590871	BOX VALVE, TEST STATION, CP TEST #178, 10-1/4 IN DIA. LID, 8-3/8 IN I.D. 16 IN H., ASTM A48 CL 25 CAST IRON, FOR OFF-ROAD USE ONLY	EA
400	400567	POWDER, CARTRIDGE, TYPE IS F-33, ALLOY , CAP COLOR CLEAR, 15 GM CHARGE, 20/PAC, FOR STEEL PIPE	BOX
401	559168	SLEEVE,ELECTRICAL, #14 TO 10 AWG, W/ THERMITE WELDER, FOR CATHODIC PROTECTION	EA
402	584045	EDI CONCENTRIC COUPON ASSEMBLY INCLUDING UCB-ZIN-LW010, 10 FT OF CABLE	ES
403	603126	EDI CONCENTRIC COUPON ASSEMBLY INCLUDING UCB-ZIN-LW025, 25 FT OF CABLE	ES
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410	405850	CABLE, INSULATED, CATHODIC PROTECTION, 1/C, #4 AWG, 7 STR, 600 V, BLACK, HMWPE, CU, 1000 FT ROLLS	FT
411	397818	ANODE,BAG, 2.5 X 2.5 X 4.5 IN, 10 FT LG, 3 LB, MAGNESIUM, Alternate IN 577776	EA
577	603769	TRENTON-FILL POR PM-GP, 140 FA, FOR FILLING VOIDS & IRREGULAR SPACES PRIOR TO WRAPPING W/WAX TAPE, OF TO 110F APPLICATION TEMPERATURE, 6 BLOCKS/CASE,	CASE
575	400572	PRIMER, 4 GAL/CASE, BROWN, FOR WAX TAPE, APPLICATION TEMP 0 TO 230 F, TEMCOAT 3000	EA
576	503673	TAPE,WAX, 9 FT LG X 4 IN W, 24 ROLLS/CS, ABOVE AND BELOW GROUND APPLICATIONS, TR-#2A WAX, ALUMINUM	ROLL
697	603423	TAPE,WAX, 9 FT LG X 6 IN W X 70-90 MIL THK, 16 ROLLS/CS, ABOVE AND BELOW GROUND APPLICATIONS, TR-#2A WAX, ALUMINUM	ROLL

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

No.	Description	Date	Dw/Ck
Revision/Status			
PARAMOUNT ST, INDIAN ORCHARD, MA			
PROJECT # 25EG011 / WORK ORDER # 16660732			
DETAILS, NOTES AND BILL OF MATERIALS			
SCALE: NTS		SHEET 26 OF 27	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
TJ 05/16/2024	KMQ 05/20/2024	MA-SPR-PIP-25-009-26	0

FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

The drawing area is a large grid. The title block is located at the bottom right and contains the following information:

PARAMOUNT ST, INDIAN ORCHARD, MA			
PROJECT # 25EG011 / WORK ORDER # 16660732			
PLAN			
SCALE: NTS		SHEET 27 OF 27	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
TJ 05/16/2024	KMQ 05/20/2024	MA-SPR-PIP-25-009-27	

FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION



Honorable Mayor and City Council
 City of Springfield
 City Hall
 Court Street
 Springfield, MA 01103

ATTN: Ms. Gladys Oyola, City Clerk

PROJECT NAME: Page Bv - GSEP

Ladies & Gentlemen:

Eversource Gas of Massachusetts (EGMA) hereby requests that it be granted a location for and permission to install underground gas facilities within a section of the Jean Dr neighborhoods (as seen in the attached plan). Work will extend to the following streets in varying degrees/durations:

<u>Street Name</u>	<u>From</u>	<u>To</u>
Page Bv	2 nd St	Carol St
2 nd St	Page Bv	EOM
Tremont St	2 nd St	Page Bv
Carlos St	Tremont St	Paramount St
Bircham St	Page Bv	EOM

This Project will introduce modernized high-density polyethylene gas infrastructure to the area and retire aged cast iron gas infrastructure. All proposed work by EGMA will include such laterals and service connections as it may now or subsequently find necessary.

Sincerely,

Patrick Vincenti
 Project Engineer
 Eversource Gas of Massachusetts
 2025 Roosevelt Avenue
 Springfield, MA 01104
 Cell: 860-508-0046
 Email: patrick.vincenti@eversource.com

CITY OF SPRINGFIELD, MASSACHUSETTS

January 29, 2025

+

TO THE MAYOR AND CITY COUNCIL OF THE CITY OF SPRINGFIELD:

The Board of Public Works, to which was referred the petition of Eversource-Gas of Massachusetts, dated November 7, 2024, to install underground gas facilities on Page Blvd. Tremont Street, Carlos Street, and Birchan Street to upgrade to medium-pressure and retire low-pressure cast iron gas infrastructure in India Orchard neighborhood. Plan Paramount St. is incorporated herein by reference and to lay and maintain underground gas main pipes for improvements of the system reports thereon as follows:

By virtue of Chapter 708 of the Acts of 1977, the Board of Public Works held the hearing on the above matter provided for in Section 22 of Chapter 166 of the General Laws. The hearing was held on January 29, 2025, at 3:30 P.M. at the corner of Riverside Road and Abbe Avenue in Springfield, MA, after due notice from the office of the City Clerk. Two (2) members of the Board and one (1) person interested in the matter were present. Of the latter, one (1) voted in favor and no one (0) voted against.

The Board finds the request necessary so that the utility company can upgrade existing underground facilities to improve the quality of service in this area.

After careful consideration, the Board recommends the petition be granted provided:

That due care for public safety is exercised during construction including but not limited to the use of a police officer(s) for traffic control if necessary.

That said construction would not unnecessarily interfere with the movement of vehicular or pedestrian traffic in the area.

That care be taken during said construction not to damage any underground services.

That the construction site be returned to the same condition as found or better.

Said company shall indemnify and save harmless against all damages, costs, and expenses whatsoever to which the City may be subjected in consequence of the acts or neglect of said Company, its agents or servants, or in any manner arising from the rights and privileges granted it by the City.

Attachment: Report Page Blvd (8499 : EVERSOURCE -Page Blvd.)

In addition, said company shall, before a public way is disturbed for the laying of its wire or conduit, execute its bond in the penal sum of Ten Thousand Dollars (\$10,000) conditioned for the faithful performance of its duties under this permit.

Said company shall comply with the requirements of existing Ordinances and orders and comply with any changes in Ordinances and orders as may hereafter be adopted by the Mayor and Council governing the construction and maintenance of buried cable, conduits, and wires.

Any sidewalks that are damaged or removed will be replaced in kind and accordance with the City of Springfield's Standard Specifications.

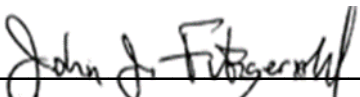
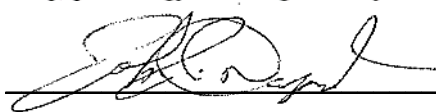
Ramps for the handicapped will be provided if and where required by law and in conformance with the Rules and Regulations of the Massachusetts Architectural Barrier Board.

Any curbing that is disturbed during construction will be reset to the established street grade using proper construction procedures.

That due care be exercised not to unnecessarily damage any public shade trees located within the construction area.

The Springfield Water and Sewer Commission be notified before construction begins. All installations of adjacent utilities must be a minimum of 4 feet from the existing water and/or sewer main, edge to edge of the pipe.

That all conditions outlined in the respective order are complied with.


_____)

_____)

BOARD OF PUBLIC WORKS



City Council
36 Court Street
Springfield, MA 01103

Meeting: 03/25/25 03:30 PM
Department: Department of Public Works
Category: General
Prepared By: Hector Velez
Initiator: Hector Velez
Sponsors:
DOC ID: 8498

TABLED

PETITION (ID # 8498)

EVERSOURCE -Westford Cir

ORDER FOR LOCATION OF UNDERGROUND CONDUIT

WHEREAS, The Board of Public Works, to which was referred the petition of Eversource-Gas to install underground gas facilities on Upper Hill Neighborhood to install medium-pressure and retire low-pressure cast iron gas infrastructure.

WHEREAS, said petition Westford Cir. was referred to the Board of Public Works on December 23, 2024; and

WHEREAS, On January 15, 2025, a Notice of a Public Hearing on Westford Cir. to be held on, February 4, 2025, was sent by mail, to all property owners abutting an affected road, various Departments, Utility Companies, etc before the day of the hearing and posted on two public bulletin board a copy of which is attached a hearing of the Board of Public Works was held as scheduled on-site with the petitioner and interested parties.

WHEREAS, on February 4, 2025, the Board of Public Works reported thereon that, after careful consideration of the petition to install underground gas facilities on Westford Cir. in Upper Hill Neighborhood, to upgrade to medium-pressure and retire low-pressure cast iron gas infrastructure. Starting with four (4") inches of pipe from Norfolk Street, running westerly direction of approximately two thousand (2,000) feet to Westford Avenue, and continuing 240 feet on Gunn Square to Northampton Avenue, all substantially shown on a plan attached with the project name:

Westford Cir.

Consisting of six (6) sheets, which plan is incorporated herein by reference and is on file in the office of the Engineering Division of the Department of Public Works, Springfield, Massachusetts.

WHEREAS, the petition Westford Cir. came before the City Council for a Public Hearing on this date,

NOW, THEREFORE, BE IT ORDERED:

1. That due care for public safety is exercised during construction including but not limited to the use of a police officer(s) for traffic control if necessary.
2. That said construction would not unnecessarily interfere with the movement of vehicular or pedestrian traffic in the area.

3. That care be taken during said construction not to damage any underground services.
4. That the construction site be returned to the same condition as found or better.
5. Said company shall indemnify and save harmless against all damages, costs and expenses whatsoever to which the City may be subjected in consequence of the acts or neglect of said Company, its agents or servants, or in any manner arising from the rights and privileges granted it by the City.
6. In addition, said company shall, before a public way is disturbed for the laying of its wire or conduit, execute its bond in the penal sum of Ten Thousand Dollars (\$10,000) conditioned for the faithful performance of its duties under this permit.
7. Said company shall comply with the requirements of existing Ordinances and orders and comply with any changes in Ordinances and orders as may hereafter be adopted by the Mayor and Council governing the construction and maintenance of buried cable, conduits, and wires.
8. Any sidewalks that are damaged or removed will be replaced in kind and in accordance with the City of Springfield's Standard Specifications.
9. Ramps for the handicapped will be provided if and where required by law and in conformance with the Rules and Regulations of the Massachusetts Architectural Barrier Board.
10. Any curbing that is disturbed during construction will be reset to the established street grade using proper construction procedures.
11. That all proposed silo, manhole, and hex-hole covers will conform to and be compatible with an established street, tree belt, or sidewalk grades with suitable non-skid covers when in the sidewalk area.
12. The Springfield Water and Sewer Commission be notified before construction begins. All installations of adjacent utilities must be a minimum of 4 feet from the existing water and/or sewer main, edge to edge of the pipe.
13. That asphalt trench restoration be done in accordance with the City of Springfield DPW requirements.
14. That all conditions outlined in the respective order are complied with.

HISTORY:**03/10/25 City Council****REFER TO COMMITTEE****Next: 03/25/25**

COUNCILOR BROWN SUGGESTED SENDING EVERSOURCE PETITIONS TO COMMITTEE TO ASK FOR ADDITIONAL DETAILS ON THE COST OF INFRASTRUCTURE FOR THE WORK BEING DONE BY EVERSOURCE AND THE COST TO SPRINGFIELD RESIDENTS. COUNCILOR BROWN SUGGESTED SENDING EVERSOURCE PETITIONS TO EITHER MAINTENANCE & DEVELOPMENT OR GENERAL GOVERNMENT.

COUNCILOR FENTON NOTED THAT THE PETITIONS SHOULD GO TO M&D AND ECO DEV.

SECONDED BY COUNCILOR CURRAN. COUNCILOR CURRAN THANKED COUNCILOR BROWN FOR TAKING THE LEADERSHIP ROLE ON THE ISSUES WITH EVERSOURCE.

HE AGREES THAT THE COUNCIL SHOULD SLOW DOWN ON THE EASEMENTS.

COUNCILOR GOVAN IS IN FAVOR OF IT THE MOTION TO COMMITTEE.

COUNCILOR DAVILA ASKED COUNCILOR BROWN WHEN THE MEETING WILL TAKE PLACE. COUNCILOR BROWN NOTED THAT IT WILL BE IN THE NEXT TWO WEEKS.

COUNCILOR WALSH ASKED IF THE PETITIONS COME FROM OUR CONSTITUENTS OR EVERSOURCE.

COUNCILOR PEREZ IS IN SUPPORT OF THE MOTION TO COMMITTEE.

COUNCILOR SANTANIELLO NOTED THAT THERE IS A MEETING AT RAY JORDAN SENIOR CENTER WITH EVERSOURCE ON REDUCING OUR

CITY OF SPRINGFIELD, MASSACHUSETTS

February 4, 2025

TO THE MAYOR AND CITY COUNCIL OF THE CITY OF SPRINGFIELD:

The Board of Public Works, to which was referred the petition of the Eversource-Gas of Massachusetts, dated December 23, 2024, to install underground gas facilities in Upper Hill Neighborhood, to upgrade to medium-pressure and retire low-pressure cast iron gas infrastructure. Starting with four (4") inches of pipe from Norfolk Street, running westerly direction of approximately two thousand (2,000) feet to Westford Avenue, and continuing 240 feet on Gunn Square to Northampton Avenue: Westford Avenue plan is incorporated herein by reference and to lay and maintain underground gas main pipes for improvements of the system reports thereon as follows:

By virtue of Chapter 708 of the Acts of 1977, the Board of Public Works held the hearing on the above matter provided for in Section 22 of Chapter 166 of the General Laws. The hearing was held on February 4, 2025, at 3:30 P.M. at the corner of Norfolk Street and Westford Cir. in Springfield, MA, after due notice from the office of the City Clerk. Two (2) members of the Board and one (1) person interested in the matter were present. Of the latter, one (1) voted in favor and no one (0) voted against.

The Board finds the request necessary so that the utility company can upgrade existing underground facilities to improve the quality of service in this area.

After careful consideration, the Board recommends the petition be granted provided:

That due care for public safety is exercised during construction including but not limited to the use of a police officer(s) for traffic control if necessary.

That said construction would not unnecessarily interfere with the movement of vehicular or pedestrian traffic in the area.

That care be taken during said construction not to damage any underground services.

That the construction site be returned to the same condition as found or better.

Said company shall indemnify and save harmless against all damages, costs, and expenses whatsoever to which the City may be subjected in consequence of the acts or neglect of said Company, its agents or servants, or in any manner arising from the rights and privileges granted it by the City.

Attachment: Report City Council Westford Cir (8498 : EVERSOURCE -Westford Cir)

In addition, said company shall, before a public way is disturbed for the laying of its wire or conduit, execute its bond in the penal sum of Ten Thousand Dollars (\$10,000) conditioned for the faithful performance of its duties under this permit.

Said company shall comply with the requirements of existing Ordinances and orders and comply with any changes in Ordinances and orders as may hereafter be adopted by the Mayor and Council governing the construction and maintenance of buried cable, conduits, and wires.

Any sidewalks that are damaged or removed will be replaced in kind and in accordance with the City of Springfield's Standard Specifications.

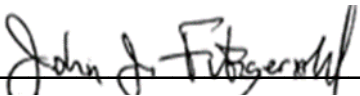
Ramps for the handicapped will be provided if and where required by law and in conformance with the Rules and Regulations of the Massachusetts Architectural Barrier Board.

Any curbing that is disturbed during construction will be reset to the established street grade using proper construction procedures.

That due care be exercised not to unnecessarily damage any public shade trees located within the construction area.

The Springfield Water and Sewer Commission be notified before construction begins. All installations of adjacent utilities must be a minimum of 4 feet from the existing water and/or sewer main, edge to edge of the pipe.

That all conditions outlined in the respective order are complied with.


_____)

_____)

BOARD OF PUBLIC WORKS



12/23/24

Honorable Mayor and City Council
City of Springfield
City Hall
Court Street
Springfield, MA 01103

ATTN: Gladys Oyola-Lopez, City Clerk

PROJECT NAME: Westford Cir – GSEP

Ladies & Gentlemen:

Eversource of Massachusetts (EGMA) hereby requests that it be granted a location for and permission to install and replace underground gas facilities within a section of the Commonwealth Ave Neighborhood (as seen in the attached plan). Work will extend to the following streets in varying degrees/durations:

<u>Street Name</u>	<u>From</u>	<u>To</u>
Westford Cir	Norfolk St	Westford Ave
Gunn Sq	Westford Ave	Northampton Ave
Westford Ave	Gunn Square	Intersection
Mass Ave	Westford Cir	Intersection
Dunmoreland St	Westford Cir	Intersection
Albemarle St	Westford Cir	Intersection
Braddock St	Westford Cir	Intersection
Wellington St	Westford Cir	Intersection
Middlesex St	Westford Cir	Intersection
Suffolk St	Westford Cir	Intersection
Norfolk St	Westford Cir	Intersection

This project will introduce modernized natural gas facilities to the area and retire some sections of aged cast iron low pressure natural gas infrastructure. All proposed work by EGMA will include such laterals and service connections as it may now or subsequently find necessary. This project is being done in order to eliminate aging infrastructure and to replace the existing cast iron main and also to get ahead of the planned MassDOT work for this area.

Kyle Benoit
Engineer
Eversource Energy
2025 Roosevelt Ave.
Springfield, MA 01104
Cell: 978-382-5026
Email: kyle.benoit@eversource.com

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07 OF 39	MA PREPARATORY AND FINAL TIE-IN DETAILS
08 OF 39	MA PREPARATORY AND FINAL TIE-IN DETAILS
09 OF 39	MA PREPARATORY AND FINAL TIE-IN DETAILS
10 OF 39	MA PREPARATORY AND FINAL TIE-IN DETAILS
11 OF 39	MA PREPARATORY AND FINAL TIE-IN DETAILS
12 OF 39	MA PREPARATORY AND FINAL TIE-IN DETAILS
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33 OF 39	MA PREPARATORY AND FINAL TIE-IN DETAILS
34 OF 39	MA PREPARATORY AND FINAL TIE-IN DETAILS
35 OF 39	MA PREPARATORY AND FINAL TIE-IN DETAILS
36 OF 39	MA CORROSION DETAILS (1 OF 3)
37 OF 39	MA CORROSION DETAILS (2 OF 3)
38 OF 39	MA CORROSION DETAILS (3 OF 3)
39 OF 39	BLANK GRIDDED SHEET



WORK SCOPE

PROJECT SUMMARY TABLE				
INSTALLATION INFORMATION				
Work Type	LENGTH (FT)	SIZE (IN)	MAOP	MATERIAL
INSTALL	3,774'	4"	98 PSIG	HDPE
INSTALL	396'	6"	98 PSIG	HDPE
INSTALLATION TOTAL				4,170'
UPRATE/RETEST TOTAL				0'

PROJECT SUMMARY TABLE			
ABANDONMENT INFORMATION			
LENGTH (FT)	SIZE (IN)	MAOP	ABANDONMENT CLASS
290'	4"	14" WC	CI-(GSEP)
51'	6"	14" WC	Bare St (GSEP)
1,984'	6"	14" WC	CI-(GSEP)
GSEP ABANDONMENT SUBTOTAL			2,325'
NON-GSEP ABANDONMENT SUBTOTAL			0'
ABANDONMENT TOTAL			2,325'

ISSUED FOR REVIEW



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FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

A	ISSUED FOR REVIEW	10/9/24	KMQ/AM
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EVERSOURCE ENERGY			
WESTFORD CIRCLE, SPRINGFIELD, MA			
PROJECT # 25EG062 / WORK ORDER # TBD			
COVER SHEET			
SCALE: 1"=40' ON 22"X34"		SHEET 01 OF 39	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
KMQ / 10/7/2024	AM / 10/8/2024	MA-SPR-PIP-25-032-01	A

WESTFORD CIRCLE, SPRINGFIELD, MA
PROJECT #25EG062
WORK ORDER #TBD

Westford Cir. - Pro Drawing Rev0.dwg

EGMA DRAWING TEMPLATE - 02-28-2023

C:\users\kquinton\project\wise\fa\04343831

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.D.
- A.

CONSTRUCTION DRAWINGS, LOCATIONS OF EXISTING UTILITIES, UNDERGROUND STRUCTURES AND WORK LOCATIONS ARE BASED ON BEST AVAILABLE INFORMATION BUT HAVE NOT BEEN FIELD VERIFIED.
- B.

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.
- C.

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.
- D.

EXCAVATOR IS REQUIRED TO PROTECT EXISTING UTILITIES, STRUCTURES, LANDSCAPES FEATURES, SIGNAGE, CURBS, ETC. CARE SHOULD BE TAKEN NOT TO DISTURB OR DAMAGE SUCH ITEMS. ROADWAY, SIDEWALKS, AND GRASS DISTURBED SHALL BE RESTORED TO THE SATISFACTION OF THE CITY OR TOWN. PLANT BEDS WILL BE RELOCATED TO THEIR EXISTING REGULAR LOCATION.
- E.

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.

DRAWING NOTES:

- A.

THE BASIS OF BEARING FOR ALL DRAWING SHEETS IS AN APPROXIMATED NORTH AMERICAN HORIZONTAL DATUM OF 1983 (NAD83).
- B.

THE BASIS OF ANY ELEVATIONS INCLUDED ON ALL DRAWING SHEETS IS AN APPROXIMATED NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- C.

NORTH DIRECTION INCLUDED ON ALL DRAWING SHEETS DEPICTS "TRUE NORTH" IN THE NORTH AMERICAN HORIZONTAL DATUM OF 1983 (NAD83) AND IS APPROXIMATE ONLY.
- D.

PROPERTY LINE AND PUBLIC RIGHT-OF-WAY INFORMATION INCLUDED ON ALL DRAWING SHEETS IS TAKEN FROM MASSGIS AND IS APPROXIMATE ONLY.
- E.

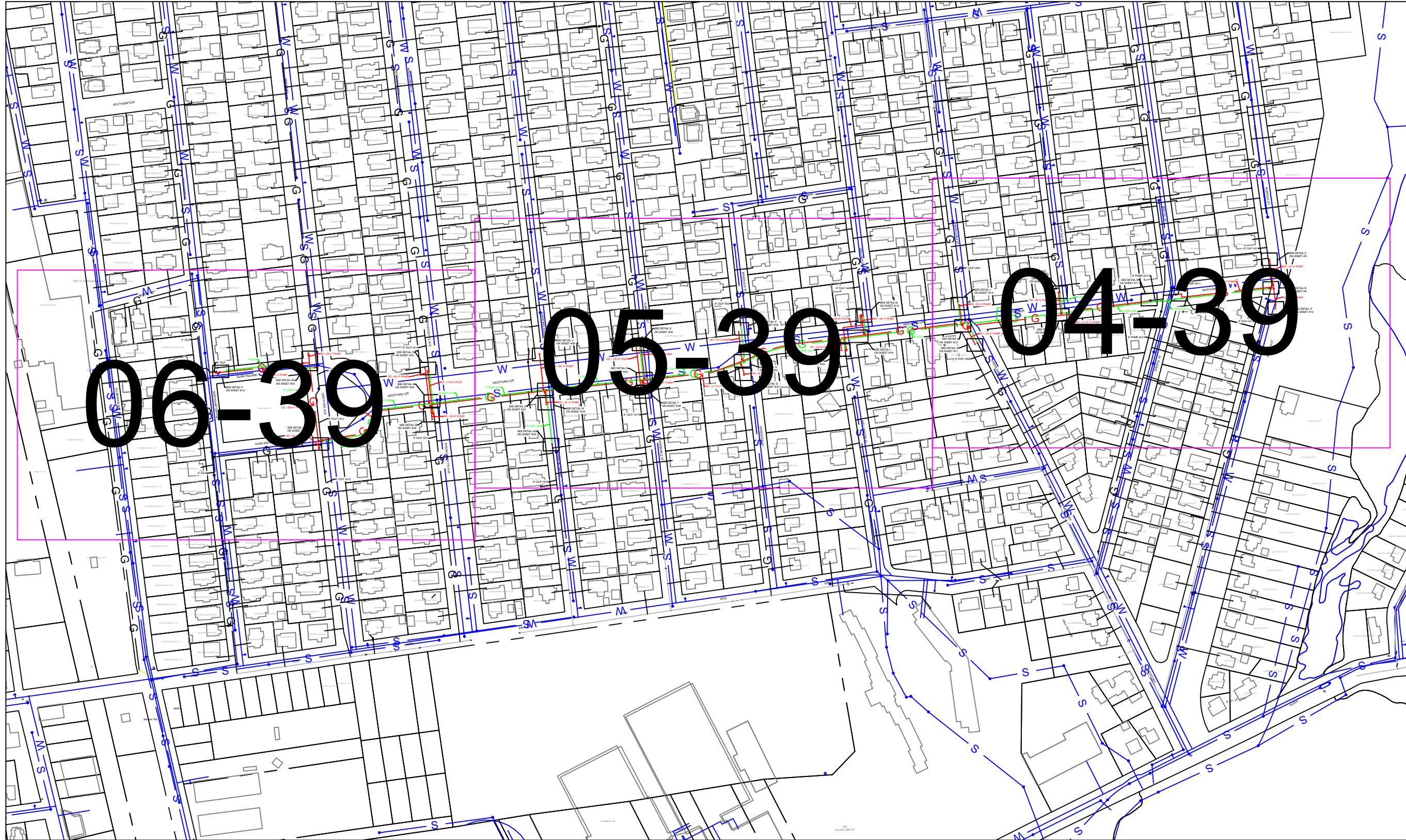
UNDERGROUND AND OVERHEAD UTILITY INFORMATION INCLUDED ON ALL DRAWING SHEETS IS TAKEN FROM EVERSOURCE ENERGY GIS AND/OR RECORD INFORMATION SUPPLIED BY UTILITY PROVIDERS AND IS APPROXIMATE ONLY.
- F.

THE LOCATION OF ALL EXISTING UTILITIES INCLUDED ON ALL DRAWING SHEETS SHALL BE FIELD VERIFIED IT IS NOTED THAT ADDITIONAL UTILITY INFRASTRUCTURE MAY EXIST.
- G.

MASSACHUSETTS STATE LAW REQUIRES 72 HOURS ADVANCE NOTICE TO UTILITY COMPANIES BEFORE DIGGING BY ANYONE. CALL DIG SAFE: 811 .

WESTFORD CIRCLE, SPRINGFIELD			COMPLETE BOM	
REQUIRED BILL OF MATERIALS				
Item Number	Maximo Part Number	Description	Quantity	Units
245	578128	FITTING,COUPLING, VENTED, SEAL & RESTRAINT, 4 IN, W/ END CAP , FOR CAST IRON PIPE	2	EA
282	578130	FITTING,COUPLING, MAXI-GRIP EZ SERIES CLASS III, INSULATED, 6 IN CI X 6.625 IN IPS STEEL	6	EA
240	578186	FITTING,COUPLING, VENTED, INSULATED, W/ END CAP, FOR 8 IN STEEL PIPE, EZB8VIUMG	2	EA
1661	602894	FITTING,TEE, 4 IN IPS X 1 IN IPS, ELECTROFUSION, WITH BUTT FUSION OUTLET, HDPE, BLACK, ASTM F1055	16	EA
44	604132	BOX VALVE, W/ 5-1/4 IN SQ NON-LOCKING LID, FOR 8 IN FULL PORT VALVES, PAVEMENT RISER IN 583488. 6/BOX	6	EA
43	610062	BOX VALVE, EXTENTION, 18 X 24 IN LONG, CMA 4232860	19	EA
297	610102	TEE,PIPE, NON-BLOWING, SERVICE, 2 IN, THREADED ENDS, 250 PSIG, W/ CI CAP, CMA 44788503	2	EA
238	610399	FITTING,CAP, LINE, INSULATED, 6 IN, 6.90 IN OD, CI, W/ ANODE, FOR CI PIPE, CMA 21128001	18	EA
90	610757	FITTING,CAP, END, LYCOFIT, 1/2 IN CTS X 0.090 IN THK WALL, PLASTIC, CMA 750823	2	EA
92	610763	FITTING,CAP, END, LYCOFIT, 2 IN IPS, PLASTIC, SDR 11, CMA 750830	6	EA
98	610764	FITTING,COUPLING, PIPE, LYCOFIT, 1/2 IN CTS X 0.090 IN WALL THK, PLASTIC, CMA 21658100	2	EA
99	610772	FITTING,COUPLING, REPAIR, LYCOFIT, 2 IN IPS, PLASTIC, SDR 11, CMA 21658101	8	EA
47	611123	BOX, CP TEST, 5 IN, 18 IN SHAFT LENGTH, TERMINAL PLATE WALL THK 0.150 +- 0.015, ABS PLASTIC, W/ NON-LOCKING MAGNETIZED COVER, CMA 4232849	7	EA
1656	620089	FITTING,COUPLING, PIPE, LYCOFIT, 1 IN IPS SDR11, PLASTIC	16	EA
1653	620808	FITTING,CAP, LYCOFIT, 1 IN IPS SDR 11, PLASTIC, ASTM F1924	16	EA

WESTFORD CIRCLE, SPRINGFIELD			COMPLETE BOM	
REQUIRED BILL OF MATERIALS				
Item Number	Maximo Part Number	Description	Quantity	Units
17	500856	COUPLING, 6 IN IPS, ELECTROFUSION, HDPE, BLACK, ASTM F1055, GFCP	10	EA
55	500869	TEE,PIPE, NON-BLOWING, 6 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, POLYETHYLENE, PE3408	2	EA
62	500870	FITTING,TEE, 6 IN IPS X 2 IN IPS, ELECTROFUSION HIGH VOLUME TAPPING WITH BUTT FUSION OUTLET, HDPE, ASTM F1055, BLACK, GFCP	8	EA
34	501002	VALVE,BALL, 4 IN, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING, TO BE USED W/ BRAND SADDLE INST, P100	20	EA
377	505818	ANODE,BAG, 2.5 X 2.5 X 4.5 IN, W/ 10 FT SOLID #12 AWG TW ORANGE LEAD WIRE, 3 LB NET, HIGH POTENTIAL MAGNESIUM, PACKED IN COTTON BAGS	9	EA
370	513679	CABLE, INSULATED, MDP, #12 AWG, 7 STR, YELLOW, POLYETHYLENE-30, SOFT DRAWN CU, 500 FT/RL, FOR USED AS PIPE LOCATOR	4170	FT
9	542538	CAP,PIPE, 4 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100	18	EA
10	542539	CAP,PIPE, 6 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100	8	EA
230	542982	CLAMP,PIPE, REPAIR, 6 IN CIP, SS, W/1-1/4 NPT TAP, FOR 6.84 - 7.24 IN PIPE	25	EA
226	542984	CLAMP,PIPE, REPAIR, 4 IN CIP , SS, W/1-1/4 NPT TAP, FOR 4.74 - 5.14 IN PIPE	4	EA
225	543028	CLAMP,PIPE, REPAIR, 4 IN IPS, SS, W/2 IN TAP	1	EA
23	545338	ELBOW,PIPE, 45 DEG, 4 IN SDR 11, BUTT WELD ENDS, POLYETHYLENE, P100	2	EA
20	545341	ELBOW,PIPE, 90 DEG, 4 IN SDR 11, BUTT WELD ENDS, PLASTIC, P100	10	EA
21	545342	ELBOW,PIPE, 90 DEG, 6 IN SDR 11, BUTT WELD ENDS, POLYETHYLENE, P100	12	EA
19	545367	ELBOW,PIPE, 90 DEG, 2 IN SDR 11, BUTT WELD ENDS, POLYETHYLENE, P100	1	EA
72	546256	FITTING, TRANSITION, 2 IN IPS CS X 2 IN IPS, PE4710, SDR 11, STEEL WELD X PLASITC, BUTT WELD	2	EA
78	550200	INSERT, STIFFENER, 6 IN IPS SDR 11, 8 IN LG, BLACK EPOXY COATING, DRESSER	6	EA
5	554008	PIPE, 4 IN IPS X 0.409 IN THK WALL SDR 11, 4.5 IN OD, 40 FT LG, POLYETHYLENE, PE3408/PE100, 1200 FT/BUNDLE	3774	FT
6	554009	PIPE, 6 IN IPS X 0.602 IN THK WALL SDR 11, 6.625 IN OD, 40 FT LG, POLYETHYLENE, PE3408/PE100	396	FT
359	554877	PLUG,PIPE, SQUARE HEAD, SOLID, 1-1/4 IN, THREADED END, BLACK IRON, ANSI B1.20.1	30	EA
361	554878	PLUG,PIPE, SQUARE HEAD, SOLID, 2 IN, THREADED END, BLACK IRON, ANSI B1.20.1	80	EA
27	555594	REDUCER,PIPE, 6 X 4 IPS, BUTT ENDS, P100, POLYETYLENE, SDR 11	2	EA
30	560679	TEE,PIPE, 4 IN SDR 11, BUTT ENDS, POLYETHYLENE, P100	16	EA
36	562078	VALVE,BALL, 6 IN IPS, POLYETHYLENE, SDR 11, P100, BUTT WELD, W/ FULL PORT OPENING, BLACK FINISH	6	EA
33	562087	VALVE,BALL, 2 IN IPS, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING	1	EA
368	565814	TAPE,WARNING, MARKED BURIED GAS LINE, 4 MIL, 1000 FT ROLL, 6 IN W, YELLOW, ISSUE EACH ROLL AS 1, T-01-A00,	5	RL
379	577776	ANODE,BAG, 17 LB NET, HIGH POTENTIAL MAGNESIUM, W/ 10 FT #10 AWG TW ORANGE LEAD WIRE, PACKED IN CARDBOARD BOX 42 LB TOTAL WEIGHT	14	EA
233	578014	FITTING,CLAMP, SERVI-SEAL REPAIR, 8 IN DIA, 9 IN LG, W/ 2 IN OUTLET, FOR STEEL PIPE	6	EA
228	578020	FITTING,CLAMP, SERVI-SEAL REPAIR, 4 IN DIA, 9 IN LG, W/ 2 IN OUTLET, FOR CAST IRON PIPE	2	EA
232	578022	FITTING,CLAMP, SERVI-SEAL REPAIR, 6 IN DIA, 9 IN LG, W/ 2 IN OUTLET, FOR CAST IRON PIPE	83	EA



OVERVIEW KEY MAP
NOT TO SCALE

ISSUED FOR REVIEW



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FIELD VERIFY DIMENSIONS
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A	ISSUED FOR REVIEW	10/9/24	KMQ/AM
No.	Description	Date	Dw/Ck
Revision/Status			
EVERSOURCE ENERGY			
WESTFORD CIRCLE, SPRINGFIELD, MA			
PROJECT # 25EG062 / WORK ORDER # TBD			
NOTES			
SCALE:1"=40' ON 22"X34"		SHEET 02 OF 39	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
KMQ 10/7/2024	AM 10/8/2024	MA-SPR-PIP-25-032-02	A

DRAWING LEGEND

Gas Main Symbology

REGULATING STATION 50' BOUNDARY	
EXISTING GAS MAIN	
PROPOSED GAS MAIN	
GAS MAIN TO BE ABANDONED	
GAS MAIN WITH SERVICE TRANSFERS	
GAS MAIN WITH PRESSURE INCREASE	
RIGHT-OF-WAY	
ELECTRIC	
WATER LINE	
SEWER LINE	
TELEPHONE	
DRAIN LINE	
FENCE LINE	

Gas Main Material/Pressure Label References

MATERIAL CODES

CS*	Coated Steel Gas Main
CI*	Cast Iron Gas Main
BS*	Bare Steel Gas Main
WI*	Wrought Iron Gas Main
PH*	High Density Polyethylene Gas Main
PM*	Medium Density Polyethylene Gas Main
PRESSURE CODES	
*LP	Low Pressure (<0.5 PSIG or 14" W.C.)
*IP	Intermediate Pressure (>2 PSIG ≤ 10 PSIG)
*MP	Medium Pressure (>10 PSIG ≤ 60 PSIG)
*HP	High Pressure (>60 PSIG)

MISCELLANEOUS CODES

*.SER	Service
*.R	Riser
(TC)	Transmission Class
Gas Main Installation Method Label References	
AT	Attached
BH	Bridge Hanger
BLGH	Building Hanger
DB	Directional Bore
IS	Inserted
OC	Open Cut
PB	Pneumatic Bore
PL	Plowed
RT	Roof Top
(E)	Existing
(P)	Proposed

Gas Facility Symbology

	Gas Valve
	Critical Gas Valve
(Gate - GV, Plug - PV, PE Ball - BP, ST Ball - BV)	
	High Volume Tapping Tee
	Pressure Control Fitting - ShortStopp Tee
	Pressure Control Fitting - Spherical Tee
	Pressure Control Fitting - Mueller Bottom-out
	Pressure Control Fitting - Mueller Side-out
	Pressure Control Fitting - Mueller Flange Tee
	Pressure Control Fitting - ShortStopp
	Pressure Control Fitting - Mueller Stopper
	Polytapp Side Saddle Fitting
	Transition
	End Cap
	Riser
	Reducer
	Electronic Marker
	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
	Meter with Regulator
	Test Point (Station)
	Gas Service Tie-over
	Gas Service Replacement
	Meter Move Out
Swing Tie Symbology	
	Telephone Manhole
	Drain Manhole
	Electric Manhole
	Catch Basis
	Sewer Manhole
	Fire Hydrant
	Utility Pole
	Property Marker
	Telephone Pedestal
	Television Pedestal
	Unknown Manhole
	Water Box
	Water Gate
	Electric Pedestal
	Iron Pin
	Light Pole
	INSIDE METER
	OUTSIDE METER

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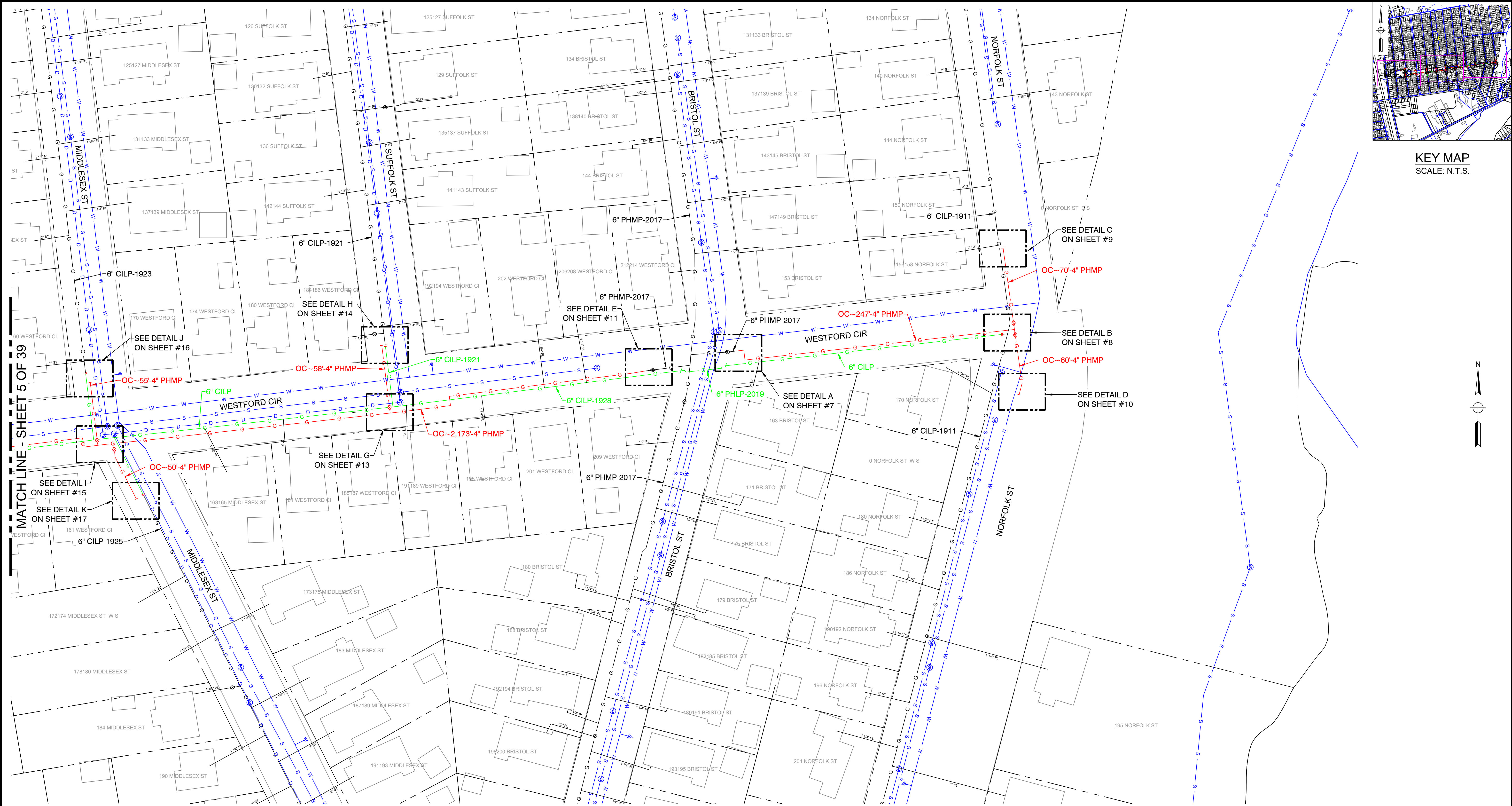
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Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
KMQ 10/7/2024	AM 10/8/2024	MA-SPR-PIP-25-032-03	A

Westford Cir - Pro Drawing Rev'd.dwg

ECMA DRAWING TEMPLATE - 02-28-2023

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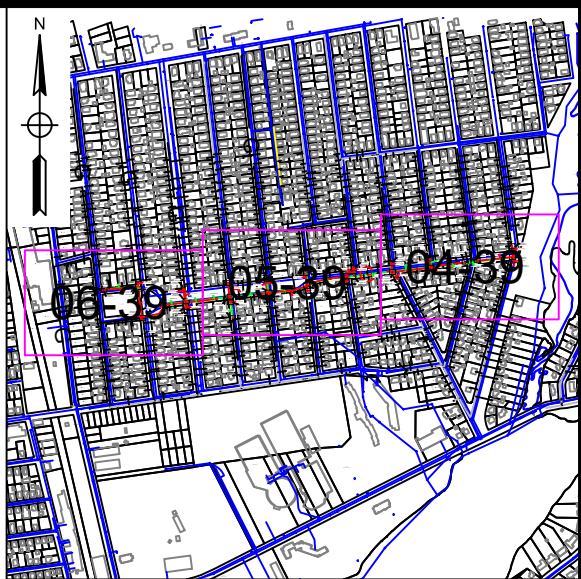
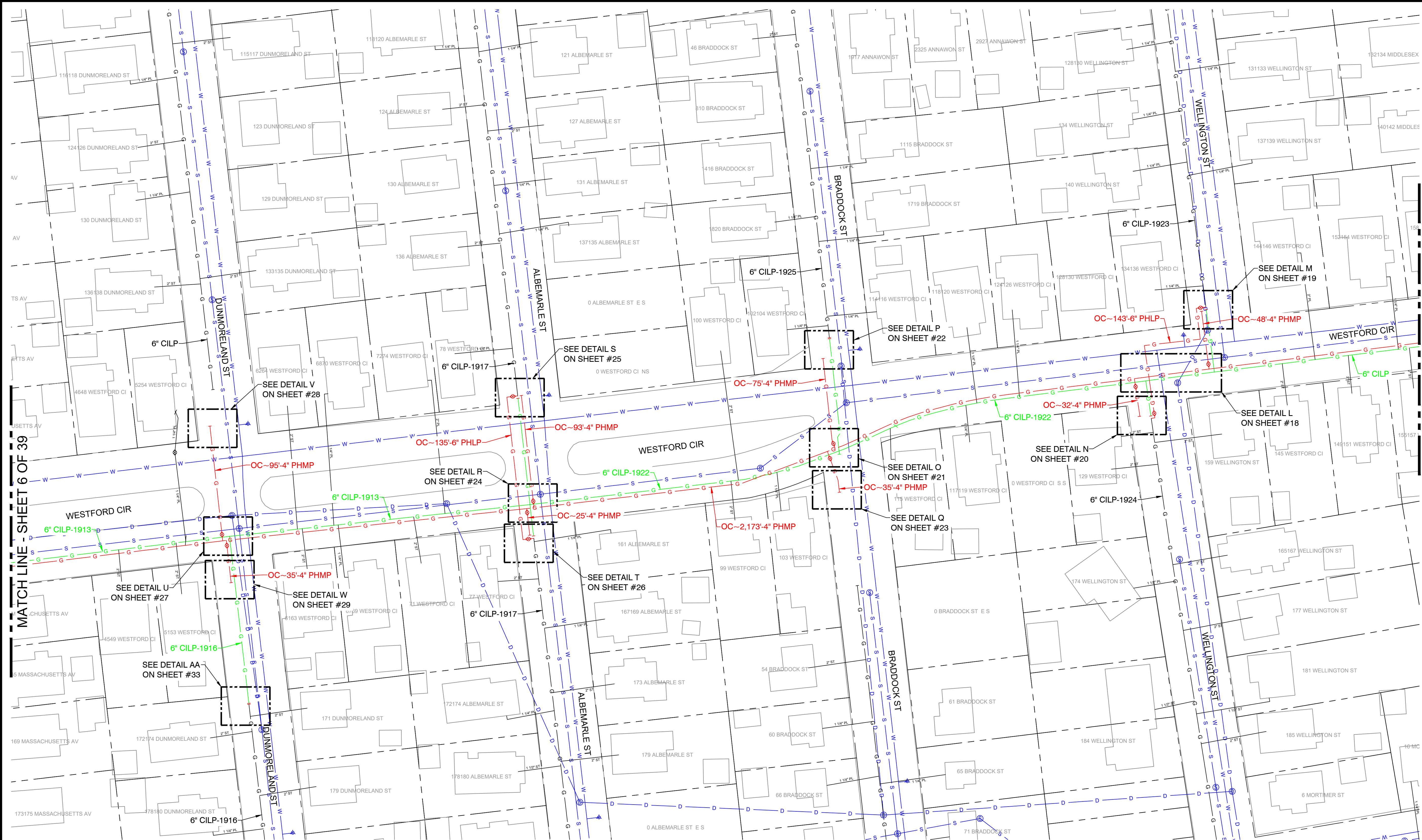
FIELD VERIFY DIMENSIONS
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EVERSOURCE ENERGY			
WESTFORD CIRCLE, SPRINGFIELD, MA			
PROJECT # 25EG062 / WORK ORDER # TBD			
PROJECT LOCATION PLANS			
SCALE: 1"=40' ON 22"X34"		SHEET 04 OF 39	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
KMQ 10/7/2024	AM 10/8/2024	MA-SPR-PIP-25-032-04	A

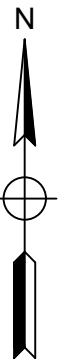
Westford Cir - Pro Drawing Rev'd.dwg

EGMA DRAWING TEMPLATE - 02-28-2023

C:\users\kquinton\project\wise\sa\id\04343831



KEY MAP
SCALE: N.T.S.



MATCH LINE - SHEET 6 OF 39

MATCH LINE - SHEET 4 OF 39

No.	Description	Date	Dw/Ck
A	ISSUED FOR REVIEW	10/9/24	KMQ/AM

ISSUED FOR REVIEW



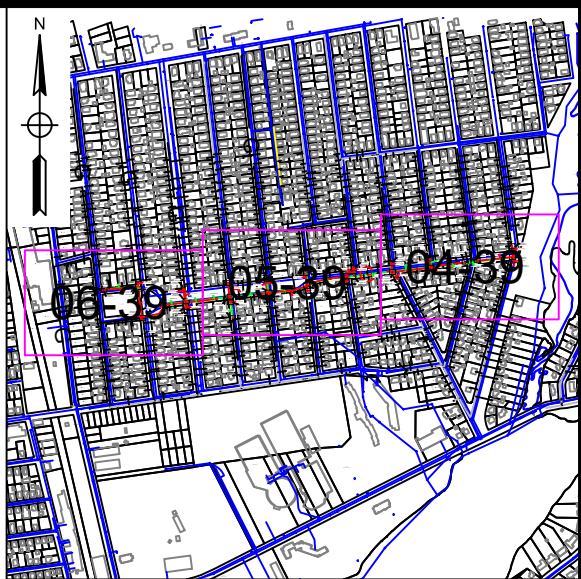
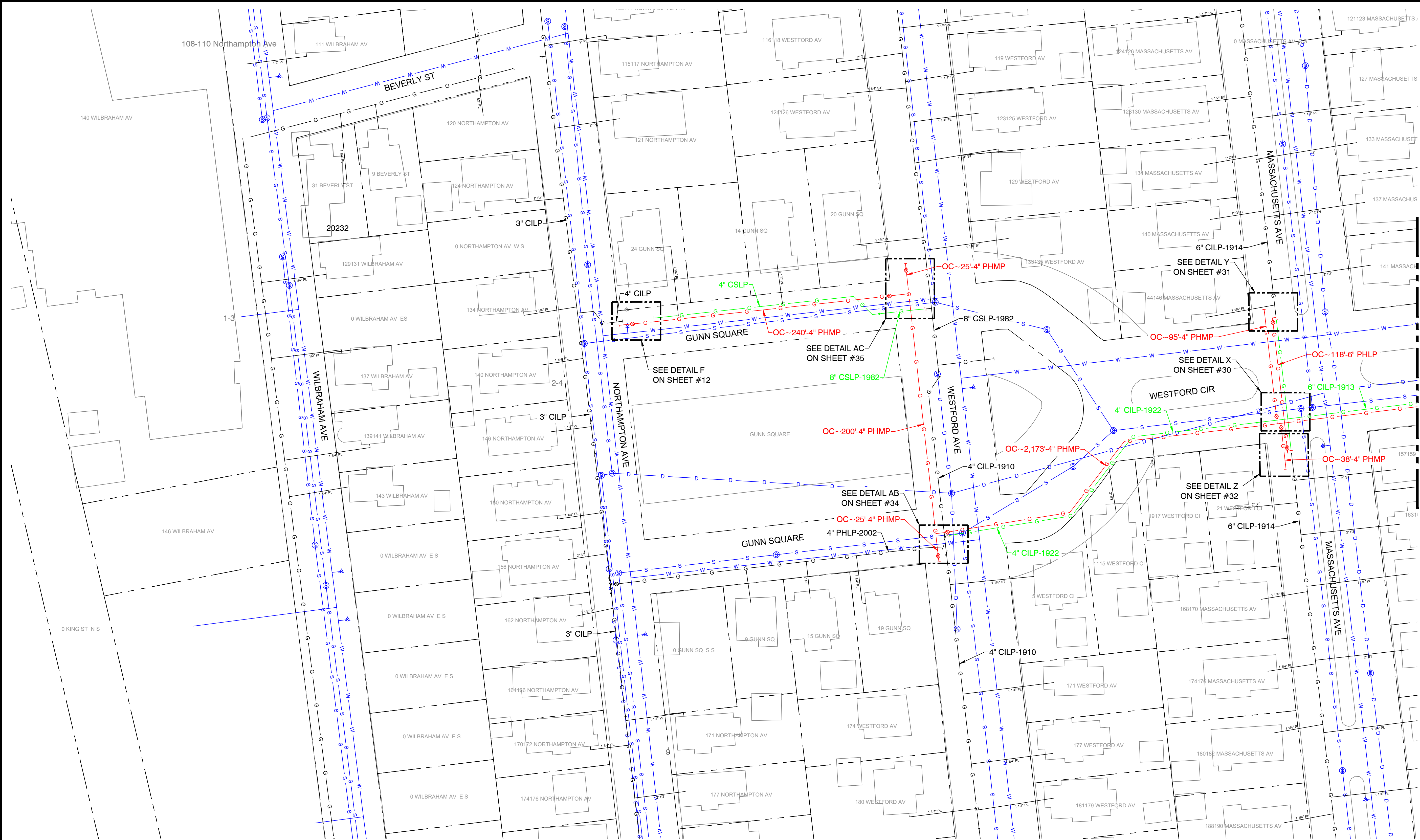
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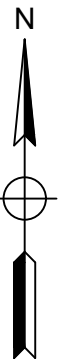
Know what's below.
Call before you dig.

FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

EVERSOURCE ENERGY			
WESTFORD CIRCLE, SPRINGFIELD, MA			
PROJECT # 25EG062 / WORK ORDER # TBD			
PROJECT LOCATION PLANS			
SCALE: 1"=40' ON 22"X34"			SHEET 05 OF 39
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
KMQ 10/7/2024	AM 10/8/2024	MA-SPR-PIP-25-032-05	A



KEY MAP
SCALE: N.T.S.



A	ISSUED FOR REVIEW	10/9/24	KMQ/AM
No.	Description	Date	Dw/Ck
Revision/Status			

ISSUED FOR REVIEW



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FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

EVERSOURCE ENERGY			
WESTFORD CIRCLE, SPRINGFIELD, MA			
PROJECT # 25EG062 / WORK ORDER # TBD			
PROJECT LOCATION PLANS			
SCALE: 1"=40' ON 22"X34"		SHEET 06 OF 39	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
KMQ 10/7/2024	AM 10/8/2024	MA-SPR-PIP-25-032-06	A